JVC

# SERVICE MANUAL

## PDP COLOUR TELEVISION

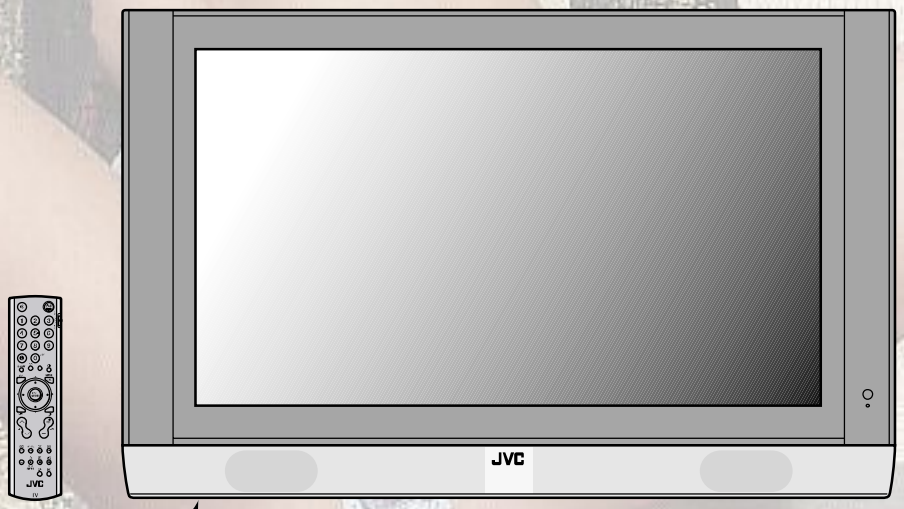
| BASIC CHASSIS |
| --- |
| MK |

# PD-42V31BJE
# PD-42V31BSE
# PD-42V31BUE

InteriArt

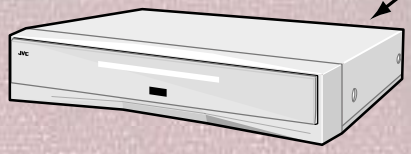
D.I.S.T.
Digital Image Scaling Technology

T-V LINK






VM-42V31BJE
VM-42V31BSE
VM-42V31BUE
[PLASMA DISPLAY UNIT]



TU-42V31BJE
TU-42V31BSE
TU-42V31BUE
[RECEIVER UNIT]

## TABLE OF CONTENTS


1 PRECAUTION ..... 1-4
2 SPECIFIC SERVICE INSTRUCTIONS ..... 1-8
3 DISASSEMBLY ..... 1-11
4 ADJUSTMENT ..... 1-24
5 TROUBLESHOOTING ..... 1-50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# SPECIFICATION

| Items | | | Contents |
|---|---|---|---|
| Dimensions (W x H x D) | Plasma display unit | | 116.0cm x 73.1cm x 9.8cm |
| | Receiver unit | | 43.5cm x 9.9cm x 38.2cm |
| Mass | Plasma display unit | | 38.0kg |
| | Receiver unit | | 5.3kg |
| TV RF System | | | CCIR B/G, I, D/K, L |
| Colour System | TV Mode | | PAL / SECAM |
| | Video Mode | | PAL / SECAM / NTSC3.58 / NTSC4.43 |
| Stereo System | | | A2 (B/G, D/K), NICAM (B/G, I, D/K, L) |
| Teletext System | | | FLOF (Fastext), TOP, WST (World Standard System) |
| Receiving Frequency | VHF | | 47MHz ~ 470MHz |
| | UHF | | 470MHz ~ 862MHz |
| | CATV | | 116MHz ~ 172MHz, 220MHz ~ 469MHz |
| Intermediate Frequency | VIF | | 38.9MHz (B / G, I, D / K, L) |
| | SIF | | 33.4MHz (5.5MHz: B/G) / 32.9MHz (6.0MHz: I) / 32.4MHz (6.5MHz: D/K) / 40.45MHz (6.5MHz :L) |
| Colour Sub Carrier Frequency | | | PAL : 4.43MHz<br>SECAM : 4.40MHz / 4.25MHz<br>NTSC : 3.58MHz / 4.43MHz |
| Power Input | | | AC110V ~ AC240V, 50Hz / 60Hz |
| Power Consumption | Plasma display unit | | Operate : 338W, Stand by: 1.5W |
| | Receiver unit | | Operate : 30W, Stand by: 2.4W |
| Plasma Display Panel (PDP) | | | ⚠ QLE0023-002<br>42-inch wide aspect (16:9) |
| Screen Size | | | Visible size : 107.5cm (Diagonel) / 93.4cm x 53.4cm (H x V) |
| Display Pixels | | | Horizontal: 852 pixels / Vertical: 480 pixels [W-VGA] |
| Speaker | | | Main : 3cm x 10cm, Oval type x2<br>Woofer : 6.5cm x 13cm, Oval type x2 |
| Audio Power Output | | | Main : 9W + 9W<br>Woofer : 9W + 9W |
| Aerial Input Teminal | | | 75Ω unbalanced |
| External terminal | EXT-1 (Input/Output) | | 21 pin Euro connector (SCART socket)<br>• Video input, Audio L/R inputs and RGB inputs are available.<br>• TV broadcast outputs (Video and Audio L/R) are available. |
| | EXT-2 (Input/Output) | | 21 pin Euro connector (SCART socket)<br>• Video input, S-video (Y/C) input, Audio L/R inputs and RGB inputs areavailable.<br>• Video and Audio L/R outputs are available.<br>• T-V LINK functions are available. |
| | EXT-3 (Input) | | 21 pin Euro connector (SCART socket)<br>• Video input, S-Video (Y/C) input and Audio L/R inputs are available. |
| | EXT-4 (Input) | COMPONENT VIDEO | RCA pin jack x 3<br>Y : 1V(p-p), Positive (Negative sync provided), 75Ω<br>$P_B/P_R$ : 0.7V(p-p), 75Ω<br>• Progressive-scanning signals (625p or 525p) are available. |
| | | AUDIO | 500mV (rms), High impedance RCA pin jack x 2 |
| | EXT-5 (Input) | S-VIDEO | Mini-DIN 4 pin x 1<br>Y : 1V(p-p), Positive (Negative sync provided), 75Ω<br>C : 0.286V(p-p) (Burst signal), 75Ω |
| | | VIDEO | 1V(p-p), Positive (Negative sync provided), 75Ω RCA pin jack x 1 |
| | | AUDIO | 500mV(rms), Low impedance RCA pin jack x 2 |
| | AUDIO OUT (Fixed) | | 500mV(rms), Low impedance RCA pin jack x 2 |
| | Headphone | | 3.5mm Stereo mini jack x 1 |
| Display Input / Output Terminal (For system cable) | | | Control / Audio: 26-pin D-sub connector<br>Video: 24pin DVI-D connector |
| Remote Control Unit | | | RM-C1808-1C (AEEOB001-R6S AA/R6 TYPE battery x 2) |

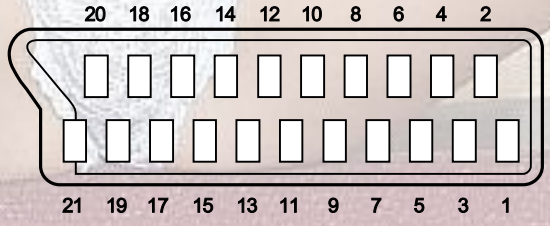
Design & specifications are subject to change without notice.

**21-pin Euro connector (SCART) : EXT-1/EXT-2/EXT-3**

| PinNo. | Signal Designation | Matching Value | EXT-1 | EXT-2 | EXT-3 |
|---|---|---|---|---|---|
| 1 | AUDIO R output | 500mV(rms) (Nominal), Low impedance | Used (TV OUT) | Used (LINE OUT) | Not used |
| 2 | AUDIO R input | 500mV(rms) (Nominal), High impedance | Used | Used | Used |
| 3 | AUDIO L output | 500mV(rms) (Nominal), Low impedance | Used (TV OUT) | Used (LINE OUT) | Not used |
| 4 | AUDIO GND | | Used | Used | Used |
| 5 | GND (B) | | Used | Used | Used |
| 6 | AUDIO L input | 500mV(rms) (Nominal), High impedance | Used | Used | Used |
| 7 | B input | 700mV(B-W), 75 | Used | Used | Not used |
| 8 | FUNCTION SW (SLOW SW) | Low : 0V-3V, High : 8V-12V, High impedance | Used | Used | Used |
| 9 | GND (G) | | Used | Used | Used |
| 10 | SCL / T-V LINK | | Not used | Used (SCL2/TV-LINK) | Not used |
| 11 | G input | 700mV(B-W), 75 | Used | Used | Not used |
| 12 | SDA | | Not used | Used(SDA2) | Not used |
| 13 | GND (R) | | Used | Used | Used |
| 14 | GND (YS) | | Used | Not used | Not used |
| 15 | R / C input | R : 700mV(B-W), 75<br>C : 300mV(p-p), 75 | Used (R) | Used (C2/R) | Used (C3) |
| 16 | Ys input (FAST SW) | Low : 0V-0.4V<br>High : 1V-3V, 75 | Used | Used | Not used |
| 17 | GND (VIDEO output) | | Used | Used | Used |
| 18 | GND (VIDEO input) | | Used | Used | Used |
| 19 | VIDEO output | 1V(p-p) (Negative going sync), 75 | Used (TV OUT) | Used (LINE OUT) | Not used |
| 20 | VIDEO / Y input | 1V(p-p) (Negative going sync), 75 | Used | Used | Used |
| 21 | COMMON GND | | Used | Used | Used |

(P-P= Peak to Peak, B-W= Blanking to white peak)

[Pin assignment]



# SECTION 1
# PRECAUTION

## 1.1 SAFETY PRECAUTIONS [EXCEPT FOR UK]

(1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

(4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : ( ⏚ ) side GND, the ISOLATED (NEUTRAL) : ( ⏚ ) side GND and EARTH : ( ⏚ ) side GND. Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.).If above note will not be kept, a fuse or any parts will be broken.

(5) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).

(6) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

(7) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

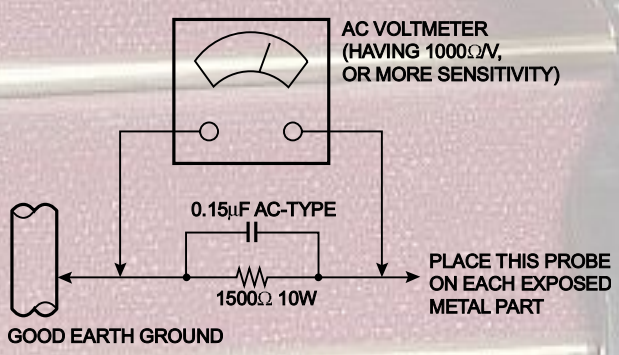
(8) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(9) **Isolation Check**
**(Safety for Electrical Shock Hazard)**
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

**a) Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

**b) Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

**Alternate Check Method**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



## 1.2 SAFETY PRECAUTIONS [FOR UK]

(1) The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by ( ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubing•fs, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

**WARNING**

(1) The equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

## 1.3 INSTALLATION

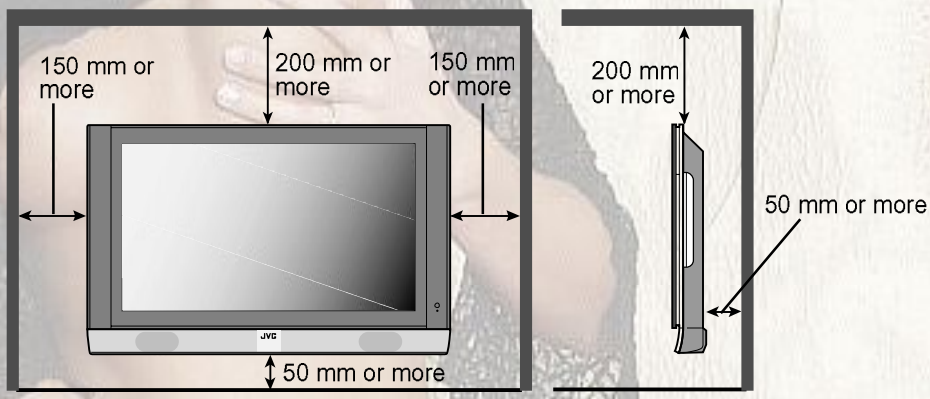
### 1.3.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically.
Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.

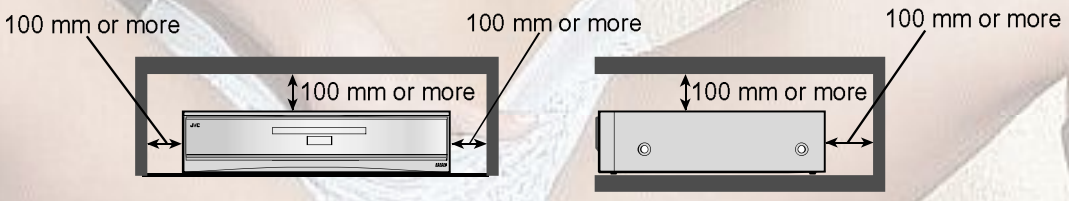
### 1.3.2 INSTALLATION REQUIREMENTS

Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc.
Install the unit on stable flooring or stands.
Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.

**SPACE REQUIRED FOR INSTALLATION OF THE DISPLAY UNIT**

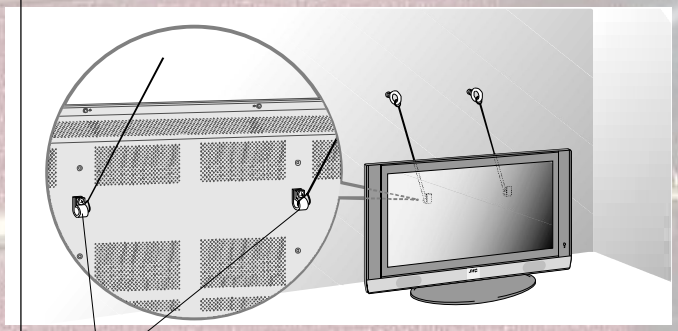



**SPACE REQUIRED FOR INSTALLATION OF THE RECEIVER UNIT**




### 1.3.3 FALL TIP PREVENTION MEASURES

Take precautionary measures to prevent the unit from falling or tipping to protect against emergencies such as earthquakes as well as accidents.
Fasten the supplied hook for tip fall prevention using the screws, also supplied, behind the display unit, and use them together with durable cords (to be purchased separately) to secure the unit to a robust part such as the wall surface or pillars.



The supplied hook for tipfall prevention

## 1.4 PRECAUTIONS REGARDING PDP

### 1.4.1 PRECAUTIONS DURING NOTES FOR TRANSPORTATION

When transporting the display unit, pressure exerted on the internal PDP (Pplasma Ddisplay Ppanel) due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention prior to delivery such as through explaining the handling instructions to transporters.

Ensure that the following requirements are met during transportation, as the PDP of this unit is made of glass and therefore fragile:

(1) Avoid vibrations and impacts

The unit may be broken if it is toppled sideways even when properly packed. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.

(2) Do not place equipment horizontally

Ensure that it is placed upright and not horizontally during transportation and storage as the PDP is very vulnerable to lateral impacts and may break easily under such circumstances.

During transportation, ensure that the unit is loaded along the traveling direction of travel of the vehicle, and avoid stacking them on one another.

For storage, ensure that they are stacked in 2 layers or less even when placed upright.

### 1.4.2 RESIDUAL IMAGE / BURN-IN ON SCREEN

Like CRTs, "burn-in" may occur when a same image is continuously displayed over an extended period of time.

As Tthis may also shorten the life span of the PDP. Therefore, turn off the display when not in use, scroll the screen, make use of screen-savers, or allow even distribution on the display by inverting the brightness, switching to complementary colors or inserting animated images at periodic intervals.

As burn-in is more likely to occur with high brightness and contrast settings, try to use neutral gradations or medium tone colors.

Burn-in does not occur in the case of animated images.

When switching to another image after continuous display of the previous image, residual images may become prominent, as luminance in a part of the display is higher than the other parts.

This is not a defect but is because due to the discharge surface of the lighted portion has becomebeing relatively activated and its luminance higher than the unlighted parts.

### 1.4.3 INFRARED RAYS

Near Near-infrared rays (800nm to 1000nm) are emitted from the front of the panel, and this may give rise to glitchescause malfunctions in infrared remote controls or communication systems placed near it. In this case, avoid direct infrared rays (and reflected rays in some cases) from the screen by either changing the direction of the unit or other infrared systems or securing a longer keeping a distance from the screen.

### 1.4.4 OPTICAL FILER (PANEL FILTER)

Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and color.

Clean the filter surface by wiping it softly lightly with outing flannels a soft and lightly fuzz cloth (such as flannel).

Do not use solvents such as benzine or thinner to wipe the filter surface. This may cause the filter to deteriorate in quality or the coating on the surface to come off.

As Tthe filter surface is fragile., Ddo not scratch or hit it with hard materials.

### 1.4.5 NOTES PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (back REAR COVER, FRONT PANEL, optical filter)

- Do not exert pressure on the front of the PDP (glass surface).
- Pay careful attention not to scratch or stain the front of the PDP (surface) with hands.
- When replacing exterior parts, the front of the PDP should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front surface. However, never use materials that are too soft (such as blanket cloth). If replacement is made with the PDP surface facing downward and in contact with the blanket, pressure may be exerted on the PDP, thus causing damages to it.

# SECTION 2
# SPECIFIC SERVICE INSTRUCTIONS

## 2.1 FEATURES

### 2.1.1 HIGH-DEFINITION IMAGE TECHNOLOGY (DIST)

- **DIST (Digital Image Scaling Technology)**
  Employs an interpolation method that doubles the scanning lines to realize 480-line flickerfree picture making it especially suitable for reproducing high-resolution pictures even on large-screen displays.

### 2.1.2 MAIN FUNCTION

- **DIGITAL VNR**
  The DIGITAL VNR function cuts down the amount of noise in original picture. There are three function settings of AUTO,MIN and MAX.
- **Super DigiPure**
  This function uses the latest technology to give viewer a natural looking picture.
  It consist of DigiPure and picture motion compensation function.
- **MOVIE THEATRE**
  This function displays a cinema film picture more smoothly and naturally on the screen.
- **COLOUR MANAGEMENT**
  This function ensures dull colours are compensated to produce natural hues.
- **Sleep Timer**
  Setting for situations such as falling asleep while watching TV, and for prevention against forgetting to turn off the TV. The power supply of the TV will be cut off automatically when the time exceeds the set up timing (maximum 2 hours).
- **3D SOUND function**
  This function makes the speaker sounds like in a wider ambience.
- **Teletext function**
  The teletext broadcast can be viewed and the teletext pages can be stored in memory.
- **T-V LINK function**
  This function make a VCR could automatically download the data or image from the TV, and turn on the TV to view the image when it playing.

### 2.1.3 ASPECT CONTROL

The screen size can be changed according to the picture aspect ratio.

- **ZOOM function**
  Desired screen size (AUTO/REGULAR / PANORAMIC / 14:9 ZOOM / 16:9 ZOOM / 16:9 ZOOM SUBTITLE / FULL) can be selected.

### 2.1.4 MULTI-SCREEN FUNCTION

- **Twin-pictures / PIP function**
  With the function, two pictures can be displayed at the same time (Twin pictures mode and Picture in picture mode).
- **Multi-picture function**
  With this function, one of multi-picture (12 pictures) can be displayed at the same time.
- **Freeze function**
  The images that are currently seen can be viewed on the memo screen (still picture).
  It is convenient for taking down notes like application address and recipe of cooking program etc, while enjoying the current program.

## 2.2 UNIT COMPOSITION

| MODEL | PLASMA DISPLAY UNIT | RECEIVER UNIT |
|---|---|---|
| PD-42V31BJE | VM-42V31BJE | TU-42V31BJE |
| PD-42V31BSE | VM-41V31BSE | TU-42V31BSE |
| PD-42V31BUE | VM-42V31BUE | TU-42V31BUE |

## 2.3 TECHNICAL INFORMATION

### 2.3.1 PDP STRUCTURE AND CHARACTERISTIC

This unit (Display Unit) uses the flat type panel PDP (Plasma Display Panel), instead of the conventional CRT (Cathode Ray Tube), as a display unit.

#### 2.3.1.1 PIXEL (CELL) ARRAY

PDP is constructed by sealing the xenon, which emits neon and ultraviolet rays for discharging purpose, in between the electrodes lay on the front glass substrate and rear glass substrate.
One pixel is composed of 3 RGB cells, with cell pitch of 0.365mm (1 pixel 1.095mm) horizontally and 1.110mm vertically.
The cell is arrayed in each RGB color as shown in Fig. 1. One pixel is formed by interlacing each RGB color cell.
One cell size is 0.365mm horizontally and 1.110mm vertically.

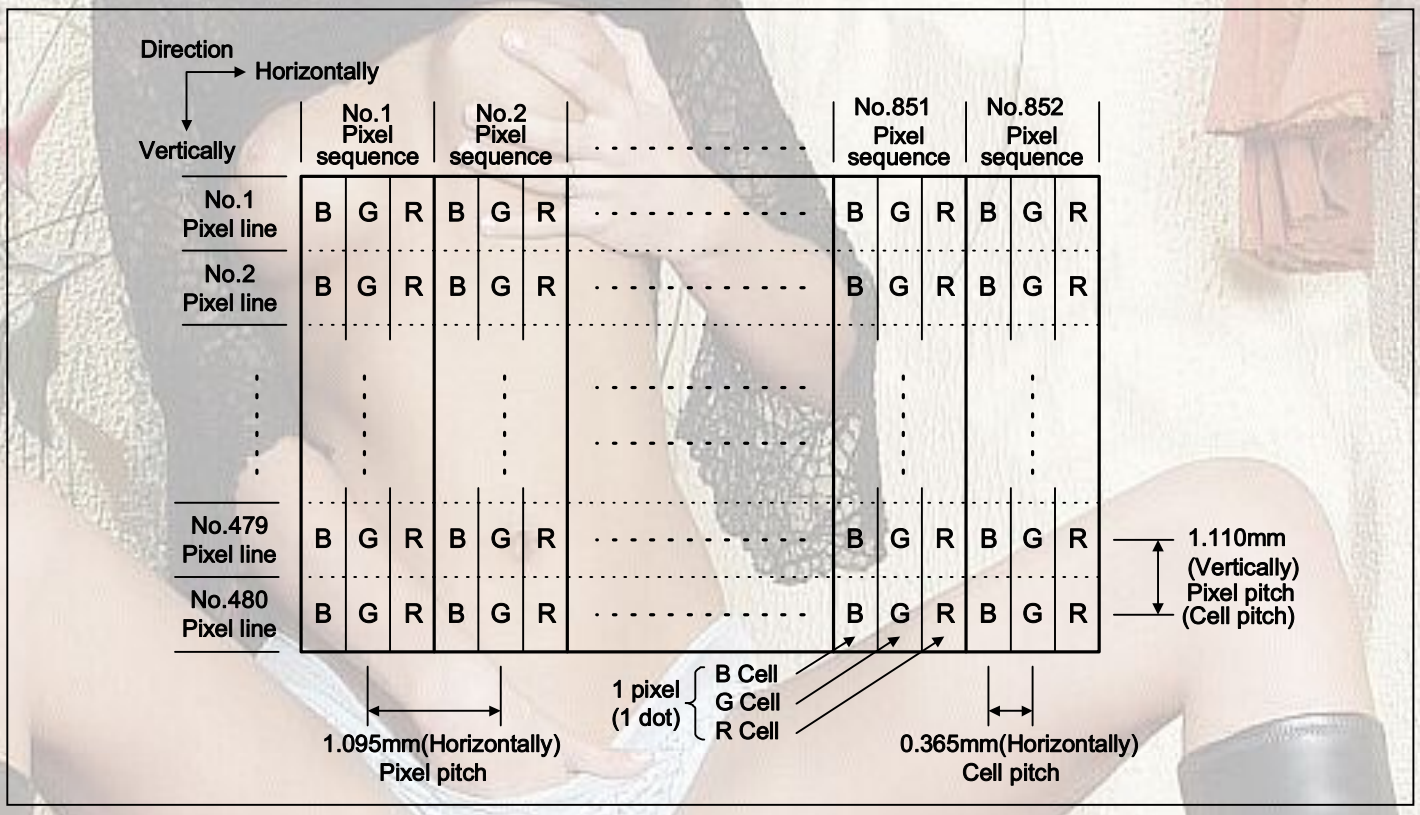



**Fig.1**

#### 2.3.1.2 PIXEL DEFECTS

Though PDP is made by means of ultra precise technology, there are cases whereby not all pixels (cell) will function properly. In some cases, there may be defective pixels that do not light at all or the ones that always light on.
There are 3 types of Pixel defects, [Bright Dot Defects], [Dark Dot Defects] and [Flicker Dot Defects], as defined respectively in the following:

**(1) Bright Dot Defects**
Bright dot defect is a pixel cell that lights though it should not light.
The presence of bright dot defects can be confirmed by inputting a full black signal (pattern).

**(2) Dark Dot Defects**
Dark dot defect is a pixel cell that does not light, though it should light.
The presence of dark dot defects can be confirmed by inputting a 100% full white signal (pattern).

**(3) Flicker Dot Defects**
Flicker dot defect is a pixel cell that blinks though it should light or not light.
The presence of flicher dot defects can be confirmed by inputting a full black signal (pattern).

### 2.3.2 MAIN CPU FUNCTIONAL TABLE (RECEIVER UNIT)

| Pin No. | Terminal Name | Port Name | I/O | Remark |
|---|---|---|---|---|
| 1 | TCK | TCK | I | |
| 2 | TMS | TMS | I | |
| 3 | TDI | TDI | I | |
| 4 | TDO | TDO | O | |
| 5 | REMOCON | P2.8 | I/O | |
| 6 | KEY1 | P2.9 | I/O | |
| 7 | KEY2 | P2.10 (NOR/INST) | I/O | |
| 8 | KEY3 | P2.11 | I/O | |
| 9 | TV_LINK | P2.12 | I/O | |
| 10 | POWER | P2.13 | I/O | |
| 11 | PROTECT | P2.14 | I/O | |
| 12 | POWERG | P2.15 | I/O | |
| 13 | VSS33 | VSS33 | I | GND |
| 14 | VDD33 | VDD33 | I | 3.3V |
| 15 | TV_LINK OUT | P4.5 | O | |
| 16 | A20 | A20 | O | |
| 17 | A19 | A19 | O | |
| 18 | A18 | A18 | O | |
| 19 | A17 | A17 | O | |
| 20 | VSS25 | VSS25 | I | GND |
| 21 | VDD25 | VDD25 | I | 2.5V |
| 22 | A16 | A16 | O | |
| 23 | A8 | A8 | O | |
| 24 | A7 | A7 | O | |
| 25 | A9 | A9 | O | |
| 26 | A6 | A6 | O | |
| 27 | A5 | A5 | O | |
| 28 | A10 | A10 | O | |
| 29 | A11 | A11 | O | |
| 30 | A12 | A12 | O | |
| 31 | VSS33 | VSS33 | I | GND |
| 32 | VDD33 | VDD33 | I | 3.3V |
| 33 | A4 | A4 | O | |
| 34 | A3 | A3 | O | |
| 35 | A2 | A2 | O | |
| 36 | A1 | A1 | O | |
| 37 | A0 | A0 | O | |
| 38 | A13 | A13 | O | |
| 39 | A14 | RAS/A14 | O | |
| 40 | A15 | CAS/A15 | O | |
| 41 | VSS33 | VSS33 | I | GND |
| 42 | VDD33 | VDD33 | I | 3.3V |
| 43 | CLK | MEMCLK | O | |
| 44 | CSSDRAM | CSSDRAM | O | |
| 45 | CKE | CLKEN | O | |
| 46 | CSROM | CSROM | O | |
| 47 | RD | RD | O | |
| 48 | UDQM | UDQM | O | |
| 49 | LDQM | LDQM | O | |
| 50 | WR | WR | O | |
| 51 | D15 | D15 | I/O | |
| 52 | VSS33 | VSS33 | I | GND |
| 53 | VDD33 | VDD33 | I | 3.3V |
| 54 | D7 | D7 | I/O | |
| 55 | D0 | D0 | I/O | |
| 56 | D14 | D14 | I/O | |
| 57 | D8 | D8 | I/O | |
| 58 | D6 | D6 | I/O | |
| 59 | D1 | D1 | I/O | |
| 60 | VSS33 | VSS33 | I | GND |
| 61 | VDD33 | VDD33 | I | 3.3V |
| 62 | D13 | D13 | I/O | |
| 63 | D9 | D9 | I/O | |
| 64 | D5 | D5 | I/O | |
| 65 | D2 | D2 | I/O | |
| 66 | D12 | D12 | I/O | |
| 67 | D10 | D10 | I/O | |
| 68 | VSS33 | VSS33 | I | GND |
| 69 | VDD33 | VDD33 | I | 3.3V |
| 70 | D4 | D4 | I/O | |
| 71 | D3 | D3 | I/O | |
| 72 | D11 | D11 | I/O | |
| 73 | RESET-IN | RSTIN | I | |
| 74 | SCL0 | P3.0 | I/O | |
| 75 | SDA0 | P3.1 | I/O | |
| 76 | | P3.2 | I/O | |
| 77 | PIX_CLK | P3.3 | I/O | |
| 78 | AMP_MUTE | P3.4 | I/O | |
| 79 | AUDIO_MUTE | P3.5 | I/O | |
| 80 | READY | P3.6 | I/O | |
| 81 | STATUS | P3.7 | I/O | |
| 82 | DATA | P3.8 | I/O | |
| 83 | CLK | P3.9 | I/O | |
| 84 | VSS33 | VSS33 | I | GND |
| 85 | VDD33 | VDD33 | I | 3.3V |
| 86 | VSS25 | VSS25 | I | GND |
| 87 | VDD25 | VDD25 | I | 2.5V |
| 88 | TXD0 | TXD0 | I/O | |
| 89 | RXD0 | RXD0 | I/O | |
| 90 | IE-MUTE | P3.12 | I/O | |
| 91 | AA_SDA | P3.13 | I/O | |
| 92 | AA_SCL | P3.15 | I/O | |
| 93 | YS2 | P5.14(YS2) | I/O | |
| 94 | HP_DET | P5.15 | I/O | |
| 95 | NC | TRIG_IN | I/O | |
| 96 | NC | TRIG_OUT | I/O | |
| 97 | IIC_FREE | P6.2 | I/O | |
| 98 | SCL1 | P6.3 | I/O | |
| 99 | SCA1 | P6.4 | I/O | |
| 100 | MSP_RESET | P6.5 | I/O | |
| 101 | SDA2 | P6.6 | I/O | |
| 102 | VSYNC | VSYNC | O | |
| 103 | HSYNC | HSYNC | O | |
| 104 | NC | COR/RSTOUT | O | |
| 105 | YS | BLANK | O | |
| 106 | VDD33 | VDD33 | I | 3.3V |
| 107 | VSS33 | VSS33 | I | GND |
| 108 | XTAL1 | XTAL1 | I | |
| 109 | XTAL2 | XTAL2 | O | |
| 110 | VSSA | VSSA | I | GND |
| 111 | VSSD | VDDA | I | |
| 112 | R | R | O | |
| 113 | G | G | O | |
| 114 | B | B | I | |
| 115 | VSSA | VSSA | I | GND |
| 116 | VSSD | VDDA | I | 2.5V |
| 117 | CVBS2A | CVBS2 | I | |
| 118 | VSSA | VSSA | I | GND |
| 119 | VDDA | VDDA | I | |
| 120 | CVBS1B | CVBS1B | I | |
| 121 | CVBS1A | CVBS1A | I | |
| 122 | VSSA | VSSA | I | GND |
| 123 | VDDA | VDDA | I | 2.5V |
| 124 | AFC1 | P5.0 | I | |
| 125 | AFC2 | P5.1 | I | |
| 126 | AGC | P5.2 | I | |
| 127 | KEYP2 | P5.3(KEYP2) | I | |
| 128 | TMODE | TMODE | I | |

# SECTION 3
# DISASSEMBLY

## 3.1 DISASSEMBLY PROCEDURE [DISPLAY UNIT]

**CAUTION:**

- When exchanging parts etc. with the front side (PDP side) fancing down,please place a protection sheet below before starting, so as to prevent scratches on the front side.

### 3.1.1 REMOVING THE REAR COVER (Fig. 1)

(1) Remove the power cord and system cable.
(2) Remove the 12 screws[A] and 9 screws [B], and remove the REAR COVER.

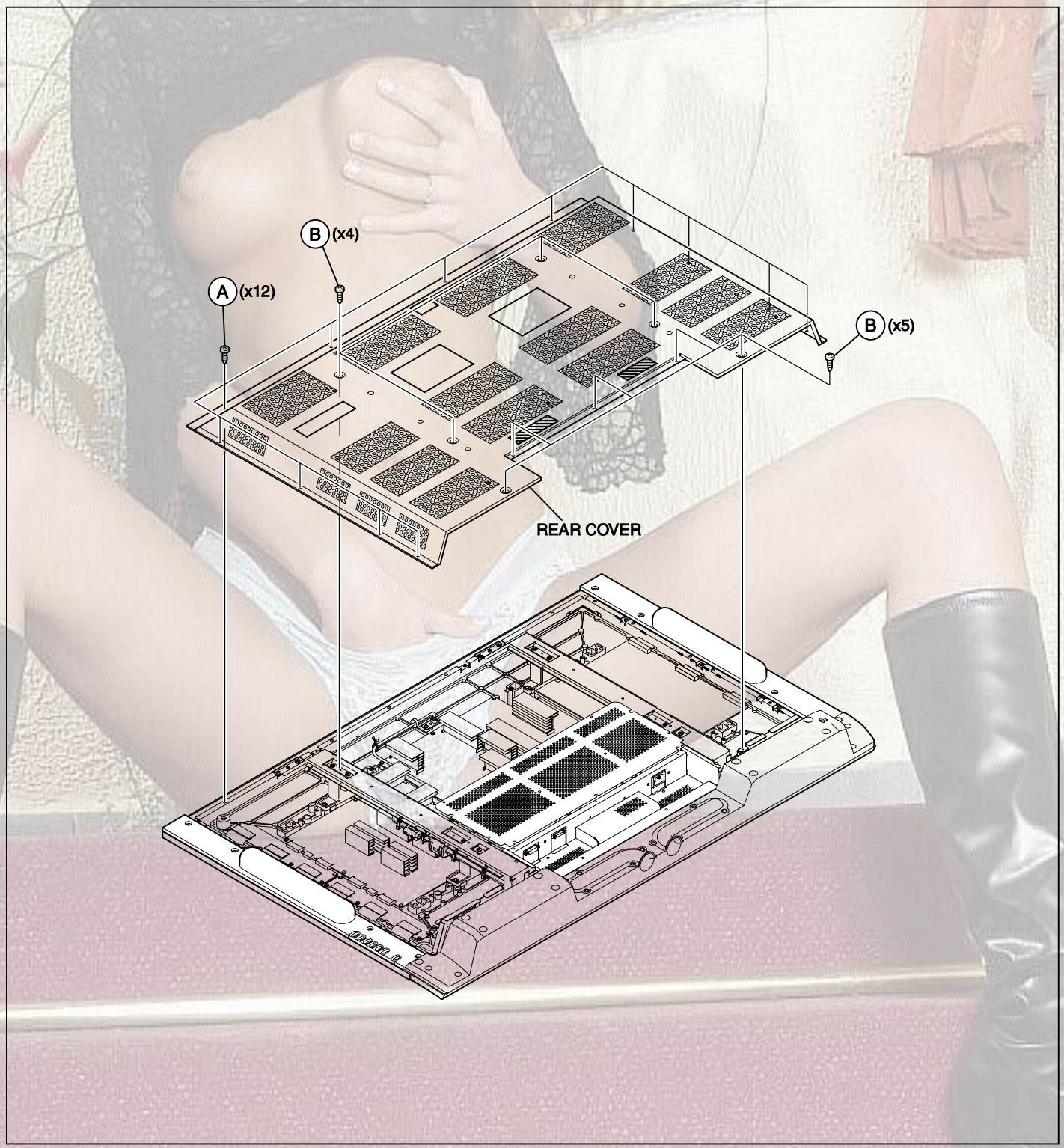



**Fig.1**

### 3.1.2 REMOVING THE TERMINAL COVER (Fig.2)

- Remove the REAR COVER.

(1) Remove the 6 screws [C], withdraw the CHASSIS SHIELD BRACKET.
(2) Remove the 2 screws [D], the 2 screws [E] and 3 screws [F], and remove the TERMINAL COVER.

### 3.1.3 REMOVING THE LINE FILTER PWB (Fig. 2)

- Remove the REAR COVER.
- Remove the CHASSIS SHIELD BRACKET.
- Remove the TERMINAL COVER.

(1) Remove the LINE FILTER INSULATOR.

**CAUTION:**

- On that occasion,please pay attention to the claws on both sides.

(2) Disconnect the connector [CN8001] from the SMPS PWB.
(3) Remove the 4 screws [G], 1 screw [H] and 1 screw [I], and remove the LINE FILTER PWB.

**NOTE:**

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

### 3.1.4 REMOVING THE AUDIO PWB (Fig.2)

- Remove the REAR COVER.
- Remove the CHASSIS SHIELD BRACKET.
- Remove the TERMINAL COVER.

(1) Disconnect the connector [CN9003] from the VIDEO SMPS PWB.
(2) Disconnect the connectors [CN00A],[CN00C],[CN00D] from the DISPLAY INTERFACE PWB.
(3) Disconnect the connectors [CN60CB], [CN60SR], [CN60SL] from the SPEAKER.
(4) Remove the 4 screws [J], and remove the AUDIO PWB.

**NOTE:**

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

### 3.1.5 REMOVING THE DISPLAY INTERFACE PWB (Fig.2 )

- Remove the REAR COVER.
- Remove the CHASSIS SHIELD BRACKET.
- Remove the TERMINAL COVER.

(1) Disconnect the connectors [CN00A], [CN00C], [CN00D], [CN00E], [CN00Q], [CN00T], [CN00V], [CN00X], [CNLVDS] from the DISPLAY INTERFACE PWB.
(2) Remove the 4 screws [K], the 1 screw [L], the 2 screws [M] and the 2 screws [N], and withdraw the DISPLAY INTERFACE PWB.

**NOTE:**

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

### 3.1.6 REMOVING THE CHASSIS BASE (Fig.2)

- Remove the REAR COVER.
- Remove the CHASSIS SHIELD BRACKET.
- Remove the TERMINAL COVER.
- Remove the LINE FILTER PWB.
- Remove the AUDIO PWB.
- Remove the DISPLAY INTERFACE PWB.

(1) Remove the 2 screws [O], and remove the CHASSIS BASE.

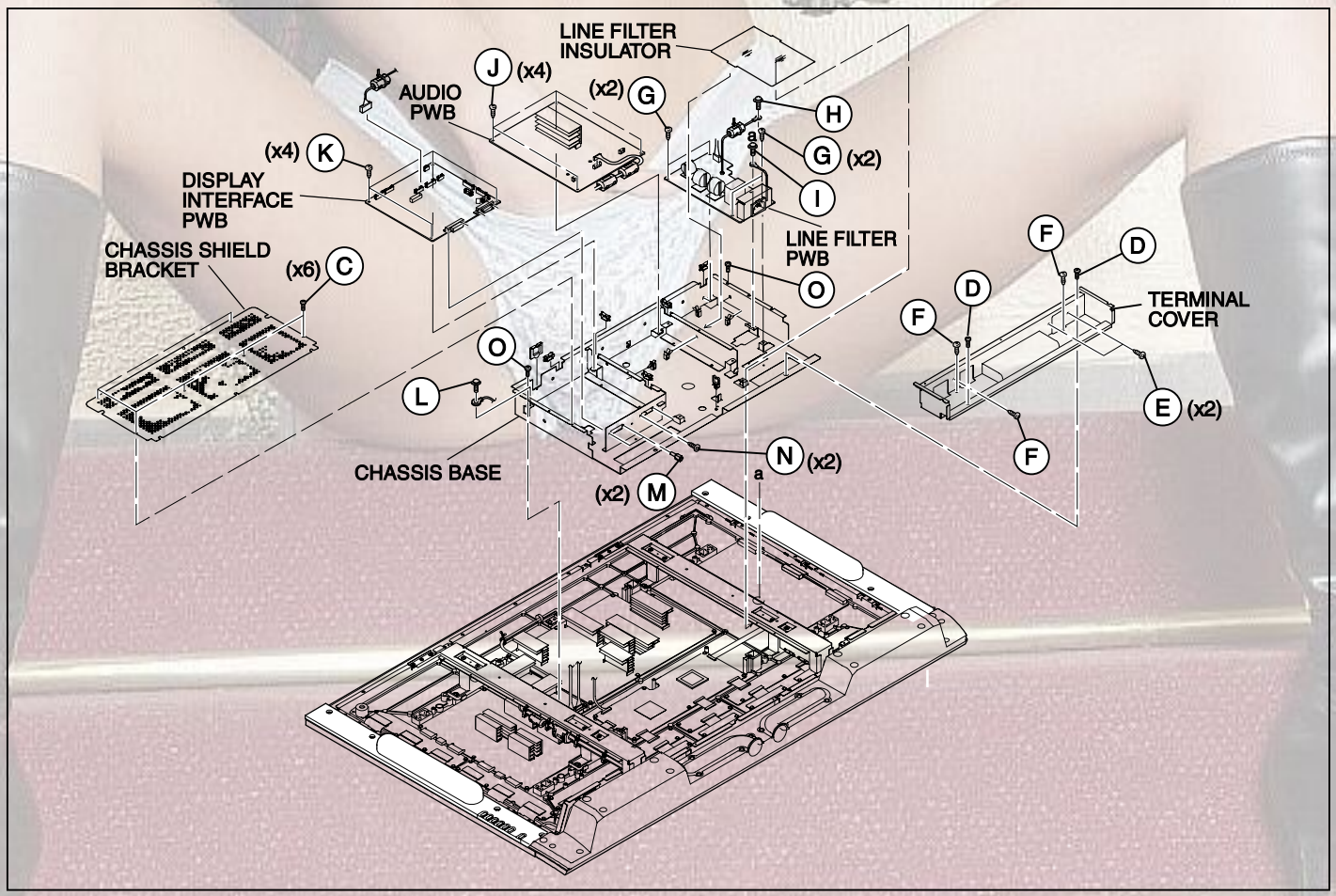



**Fig.2**

### 3.1.7 REMOVING THE TEMP. SENSOR PWB (Fig.3)

- Remove the REAR COVER.

(1) Disconnect the connector [CN00V] from the DISPLAY INTERFACE PWB.

(2) Remove the 1 screw [P], and withdraw the TEMP. SENSOR PWB.

**NOTE:**

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

### 3.1.8 REMOVING THE DISPLAY SWITCH PWB (Fig.3 )

- Remove the BACK COVER(R).

(1) Remove the 2 screws [Q], and withdraw the DISPLAY UNIT SET.

(2) Remove the 3 screws [R], and remove the CONTROL KNOB and INSULATOR.

(3) Disconnect the connector [CN00T] from the DISPLAY SWITCH PWB.

**NOTE:**

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

### 3.1.9 REMOVING THE DISPLAY LED PWB (Fig.3 )

- Remove the BACK COVER(R).

(1) Remove the 2 screws [Q], and withdraw the CONTROL KNOB.

(2) Remove the 2 screws [S], and withdraw the DISPLAY LED PWB.

(3) Disconnect the connector [CN100X] from the DISPLAY LED PWB.

**NOTE:**

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

### 3.1.10 REMOVING THE PDP UNIT (Fig.3)

- Remove the REAR COVER.
- Remove the CHASSIS SHIELD BRACKET.
- Remove the TERMINAL COVER.
- Remove the CHASSIS BASE(with each PWB affixed on the CHASSIS BASE).

(1) Disconnect the connector [CN8001] from the SMPS PWB.

(2) Disconnect the connector [CN9003] from the VIDEO SMPS PWB.

(3) Disconnect the connectors [CN00A], [CN00E], [CN00Q], [CN00T], [CN00V], [CN00X], [CNLVDS] from the DISPLAY INTERFACE PWB.

(4) Remove the 8 screws [T] and the 8 screws [U], and remove the BACK BRACKET(R) and the BACK BRACKET(L).

(5) Lift the PDP upright and remove it with enough care not to impose shock to the PDP.

**NOTE:**

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

**CAUTION:**

- Two or more people are required to remove the PDP unit.
- The gas pouring port is covered with the protection material.In operation, be careful not to damage the gas pouring port.
- Do not touch the front side (glass) of the PDP with your fingers.

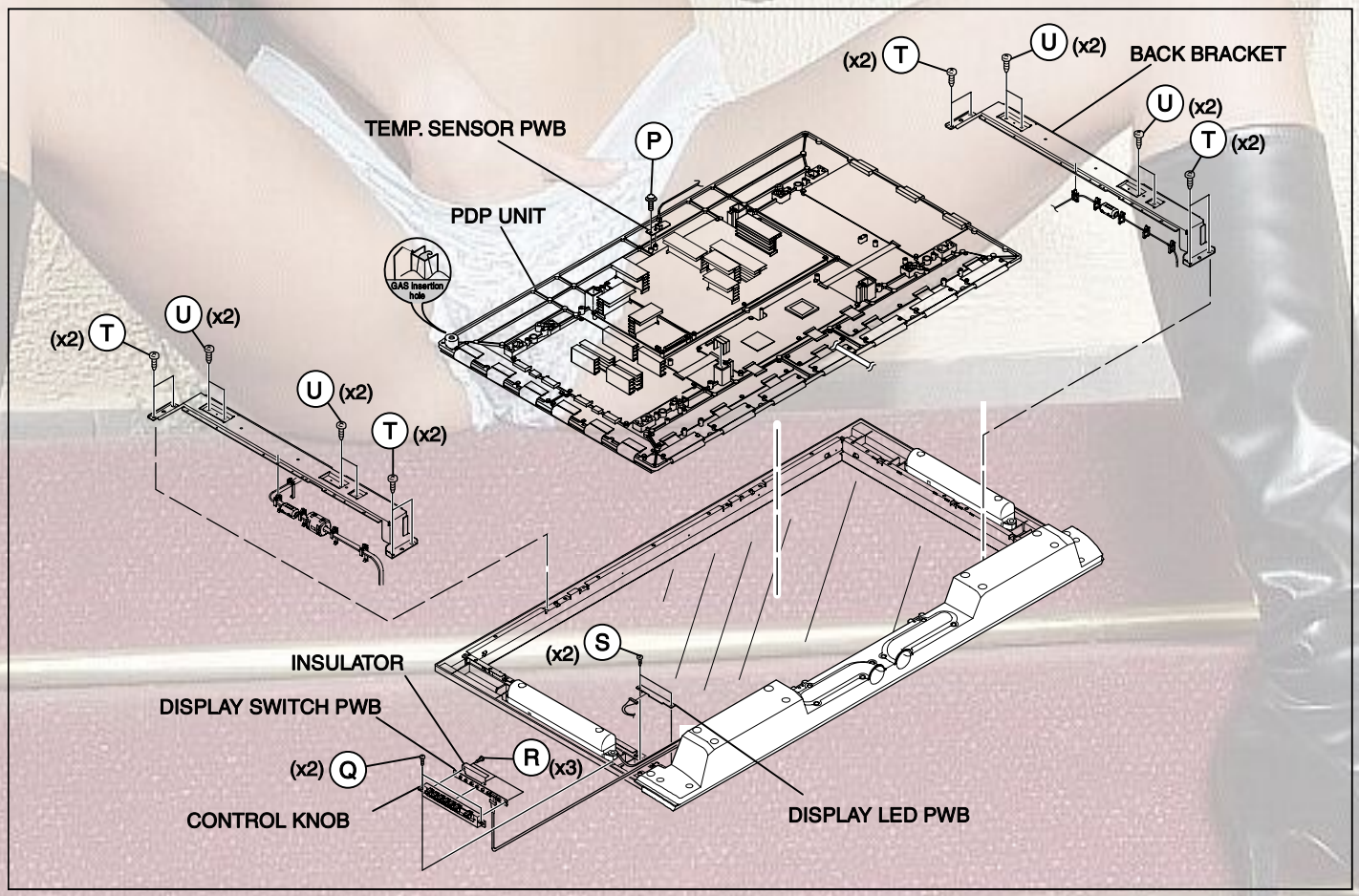



**Fig.3**

### 3.1.11 REMOVING THE PWB IN PDP UNIT

#### 3.1.11.1 REMOVING THE SMPS PWB (Fig.4 )

- Remove the PDP UNIT.
  (1) Disconnect the connectors [CN8002], [CN8003], [CN8004], [CN8006], [CN8007], [CN8008], [CN8009] from the SMPS PWB.
  (2) Remove the 8 screws [V], and remove the SMPS PWB.

**NOTE:**
- It is advisable to take note of the connecting location (connector number) of the removed connectors.

#### 3.1.11.2 REMOVING THE X-MAIN PWB (Fig.4 )

- Remove the PDP UNIT.
  (1) Disconnect the connectors [CN4001], [CN4002], [CN4003], [CN4004], [CN4005] from the X-MAIN PWB.
  (2) Remove the 8 screws [W], and remove the X-MAIN PWB.

**NOTE:**
- It is advisable to take note of the connecting location (connector number) of the removed connectors.

#### 3.1.11.3 REMOVING THE Y-MAIN PWB (Fig.4 )

- Remove the PDP UNIT.
  (1) Disconnect the connectors [CN5001], [CN5002], [CN5003], [CN5004], [CN5005],[CN5006], [CN5007], [CN5008] from the Y-MAIN PWB.
  (2) Remove the 7 screws [X], and remove the Y-MAIN PWB.

**NOTE:**
- It is advisable to take note of the connecting location (connector number) of the removed connectors.

#### 3.1.11.4 REMOVING THE LOGIC-MAIN PWB (Fig.4 )

- Remove the PDP UNIT.
  (1) Disconnect the connector [CN8008] from the SMPS PWB.
  (2) Disconnect the connector [CN4002] from the X-MAIN PWB.
  (3) Disconnect the connector [CN5001] from the Y-MAIN PWB.
  (4) Disconnect the connector [CN401] from the E-BUFFER PWB.
  (5) Disconnect the connector [CN402] from the F-BUFFER PWB.
  (6) Disconnect the connector [CN403] from the G-BUFFER PWB.
  (7) Remove the 6 screws [Y], and remove the LOGIC-MAIN PWB.

**NOTE:**
- It is advisable to take note of the connecting location (connector number) of the removed connectors.

#### 3.1.11.5 REMOVING THE Y-BUFFER-U PWB (Fig. 4)

- Remove the PDP UNIT.
  (1) Disconnect the connectors [CN5401], [CN5402], [CN5403], [CN5404], [CN5405],[CN5406] from the Y-BUFFER-U PWB.
  (2) Remove the 5 screws [Z], and remove the Y-BUFFER-U PWB.

**NOTE:**
- It is advisable to take note of the connecting location (connector number) of the removed connectors.

#### 3.1.11.6 REMOVING THE Y-BUFFER-L PWB (Fig.4 )

- Remove the PDP UNIT.
  (1) Disconnect the connectors [CN5501], [CN5502], [CN5503], [CN5504], [CN5505],[CN5506] from the Y-BUFFER-L PWB.
  (2) Remove the 5 screws [a], and remove the Y-BUFFER-L PWB.

**NOTE:**
- It is advisable to take note of the connecting location (connector number) of the removed connectors.

#### 3.1.11.7 REMOVING THE E-BUFFER PWB (Fig.4 )

- Remove the PDP UNIT.
  (1) Disconnect the connectors [CN401], [CN806], [EC1], [EC2], [EC3],[EF1] from the E-BUFFER PWB.
  (2) Remove the 6 screws [b], and remove the E-BUFFER PWB.

**NOTE:**
- It is advisable to take note of the connecting location (connector number) of the removed connectors.

#### 3.1.11.8 REMOVING THE F-BUFFER PWB (Fig.4 )

- Remove the PDP UNIT.
  (1) Disconnect the connectors [CN402], [FC4], [FE1], [FG1], from the F-BUFFER PWB.
  (2) Remove the 4 screws [c], and remove the F-BUFFER PWB.

**NOTE:**
- It is advisable to take note of the connecting location (connector number) of the removed connectors.

#### 3.1.11.9 REMOVING THE G-BUFFER PWB(Fig.4 )

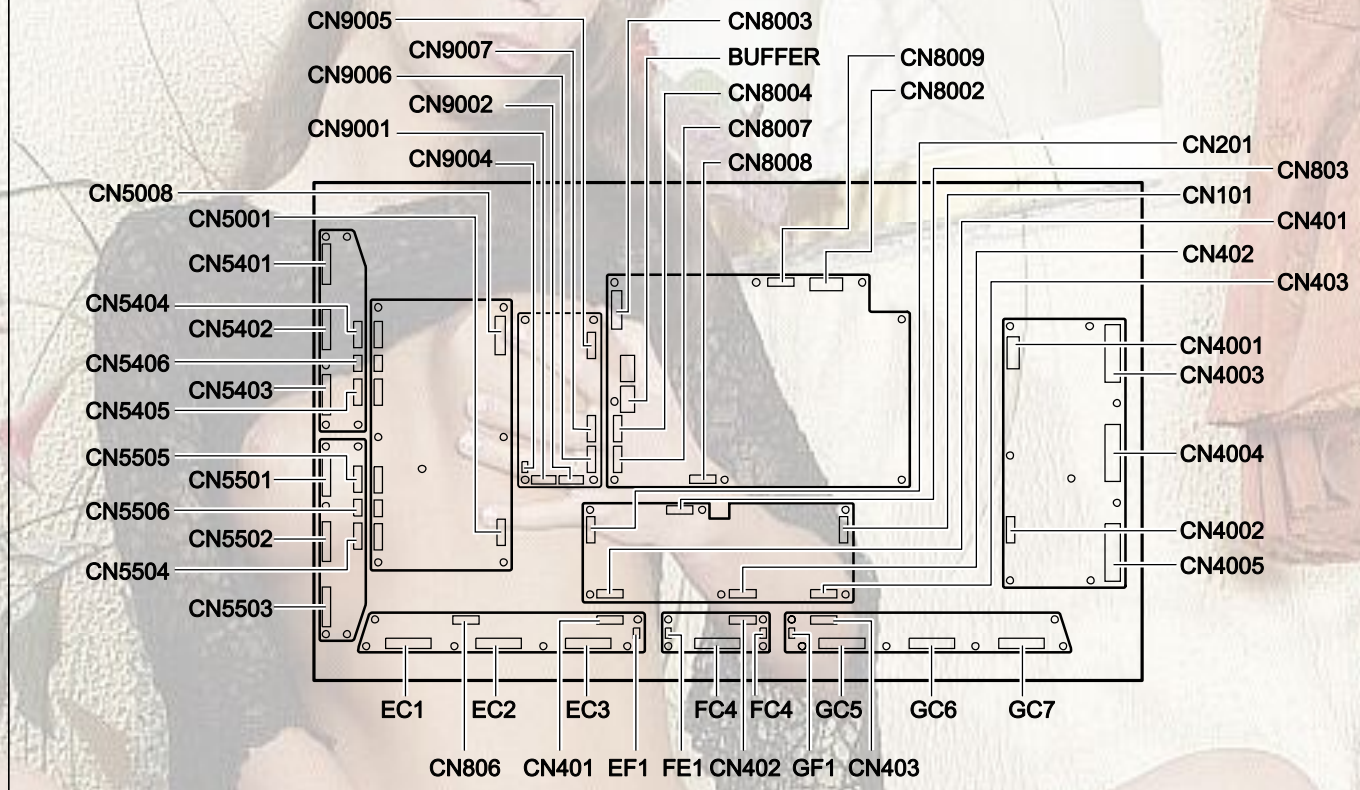
- Remove the PDP UNIT.
  (1) Disconnect the connectors [CN403], [GC5], [GC6], [GC7], [GF1] from the G-BUFFER PWB.
  (2) Remove the 6 screws [d], and remove the G-BUFFER PWB.

**NOTE:**
- It is advisable to take note of the connecting location (connector number) of the removed connectors.

#### 3.1.11.10 REMOVING THE VIDEO SMPS PWB (Fig.4 )

- Remove the PDP UNIT.
  (1) Disconnect the connectors [CN9005], [CN9006], [CN9007] from the VIDEO SMPS PWB.
  (2) Remove the 4 screws [e], and remove the VIDEO SMPS PWB.

**NOTE:**
- It is advisable to take note of the connecting location (connector number) of the removed connectors.


CN9005
CN9007
CN9006
CN9002
CN9001
CN9004
CN8003
BUFFER
CN8004
CN8007
CN8008
CN8009
CN8002
CN201
CN803
CN101
CN401
CN402
CN403
CN4001
CN4003
CN4004
CN4002
CN4005
CN5008
CN5001
CN5401
CN5404
CN5402
CN5406
CN5403
CN5405
CN5505
CN5501
CN5506
CN5502
CN5504
CN5503
EC1
EC2
EC3
FC4
FC4
GC5
GC6
GC7
CN806
CN401
EF1
FE1
CN402
GF1
CN403

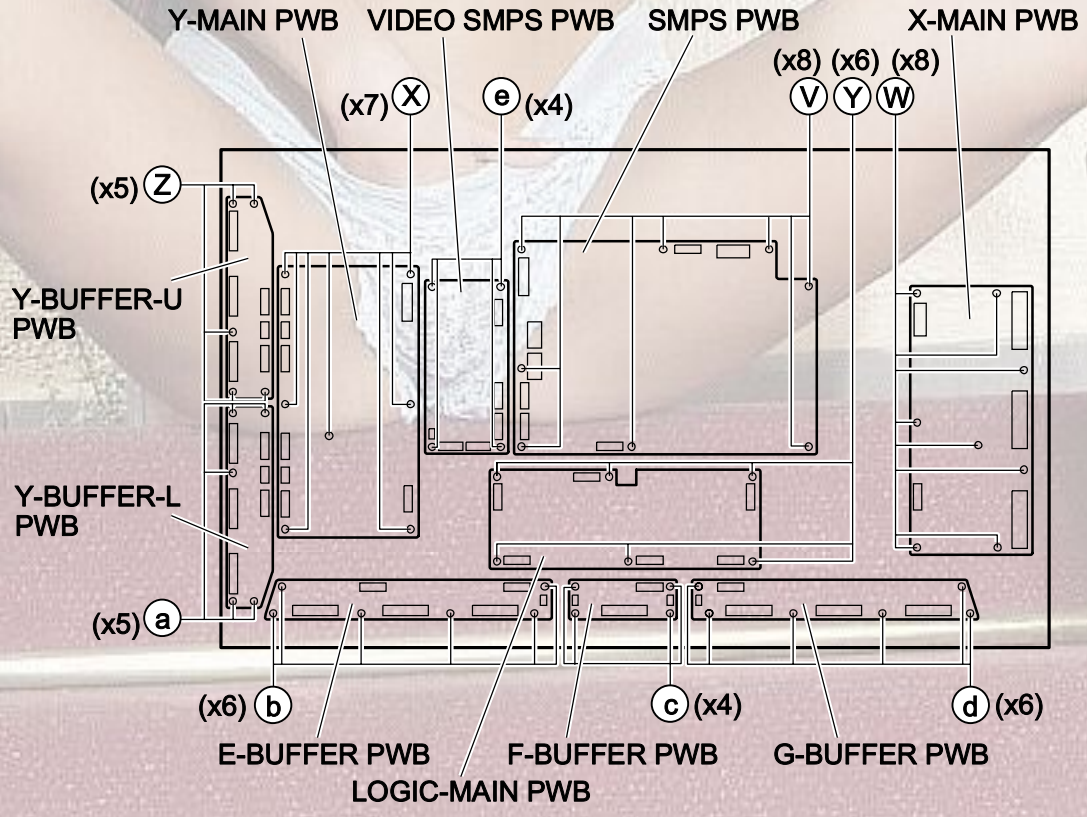

Y-MAIN PWB
VIDEO SMPS PWB
SMPS PWB
X-MAIN PWB
(x8) (x6) (x8)
V Y W
(x7) X
e (x4)
(x5) Z
Y-BUFFER-U PWB
Y-BUFFER-L PWB
(x5) a
(x6) b
c (x4)
d (x6)
E-BUFFER PWB
F-BUFFER PWB
G-BUFFER PWB
LOGIC-MAIN PWB

Fig.4

### 3.1.12 REMOVING THE DD SPEAKER ASS'Y(R) AND DD SPAKER ASS'Y(L) (Fig. 5)

- Remove the REAR COVER
  (1) Remove the 4 screws [f], withdraw the BACK COVER(R) and the SP HOLDER ASS'Y.
  (2) Disconnect the connector [CN60SR] from the AUDIO PWB.
  (3) Remove the 2 screws [g], and remove the DD SPAKER ASS'Y(R).
  (4) Remove the 4 screws [h], and withdraw the BACK COVER(L) and the SP HOLDER.
  (5) Disconnect the connector [CN60SL] from the AUDIO PWB.
  (6) Remove the 2 screws [i], and remove the DD SPEAKER ASS'Y(L).

**NOTE:**

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

### 3.1.13 REMOVING THE WOOFER SPEAKER ASS'Y (Fig. 5)

- Remove the REAR COVER.
  (1) Disconnect the connector [CN60CB] from the AUDIO PWB.
  (2) Remove the 6 screws [j], and remove the WOOFER SPEAKER ASS'Y.

**NOTE:**

- It is advisable to take note of the connecting location (connector number) of the removed connectors.

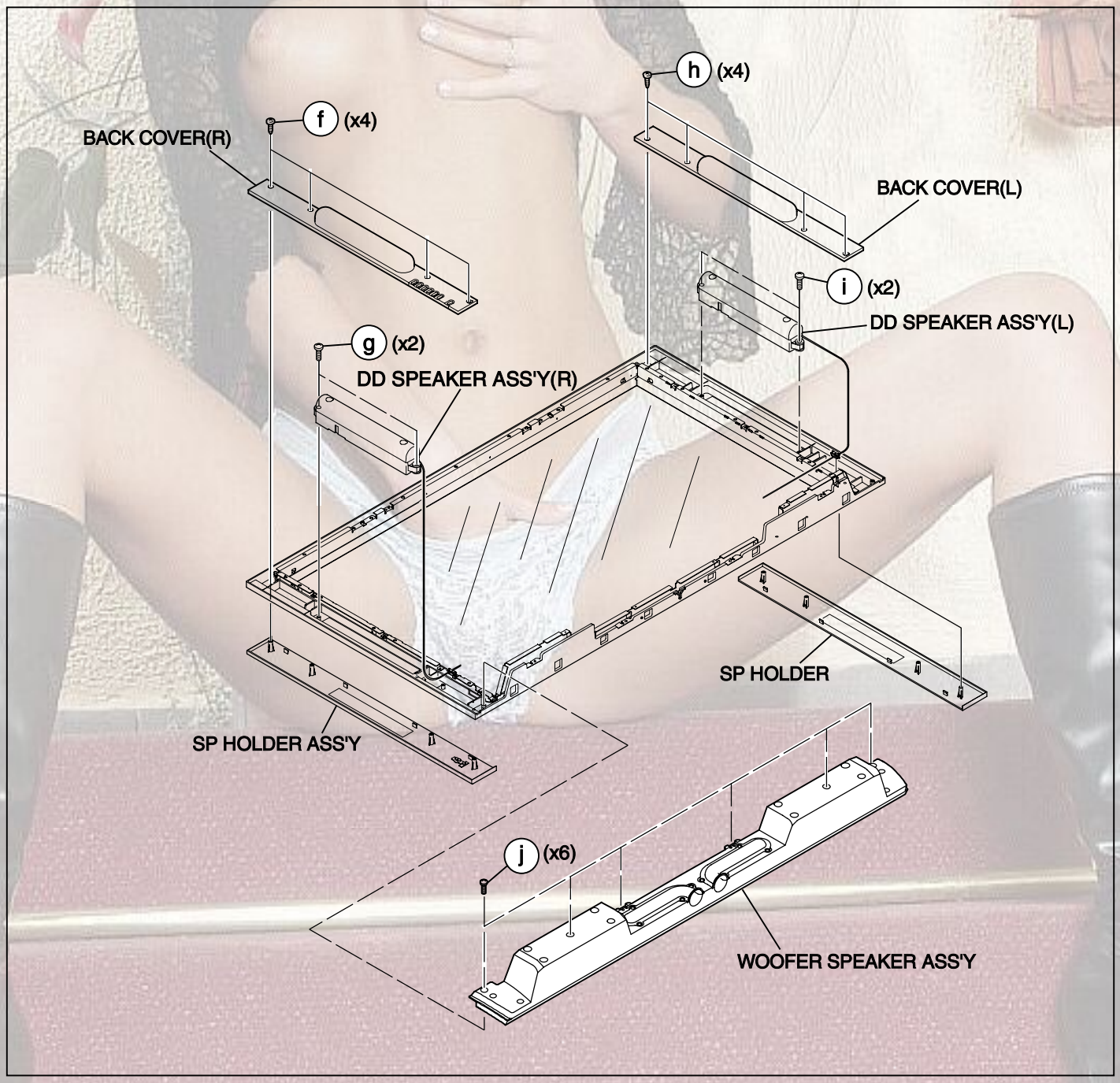



**Fig. 5**

### 3.1.14 REMOVING THE FRONT FILTER (Fig. 6)

- Remove the REAR COVER.
- Remove the CHASSIS SHIELD BRACKET.
- Remove the TERMINAL COVER.
- Remove the CHASSIS BASE (with each PWB affixed on the CHASSIS BASE).
- Remove the PDP UNIT.

(1) Remove the 4 mounting bosses [k], the 6 screws [l] and the 6 screws [m], and withdraw the GLASS HOLDERS.

(2) Remove the FRONT FILTER with enough care not to damage it.

### 3.1.15 REMOVING THE TOP FRAME BRACKET, BOTTOM FRAME BRACKET AND SIDE FRAME BRACKET (Fig. 6)

- Remove the REAR COVER.
- Remove the CHASSIS SHIELD BRACKET.
- Remove the TERMINAL COVER.
- Remove the CHASSIS BASE (with each PWB affixed on the CHASSIS BASE).
- Remove the PDP UNIT.

(1) Remove the 4 screws [n], the 6 screws [o] and the 1 screws [p], and remove the TOP FRAME BRACKET, BOTTOM FRAME BRACKET and SIDE FRAME BRACKET.

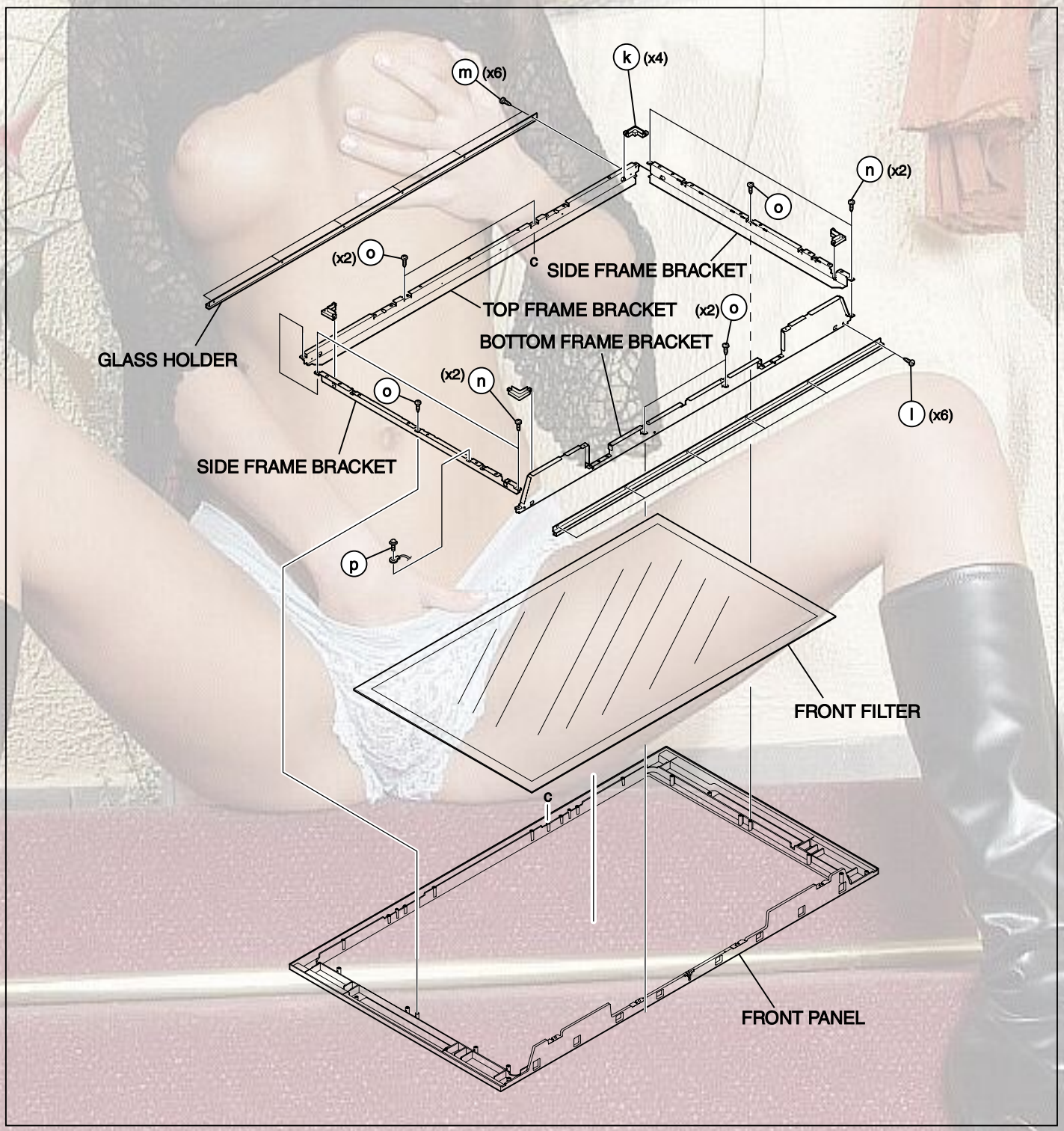



**Fig. 6**

## 3.2 DISASSEMBLY OF PROCEDURE [RECEIVER UNIT]

### 3.2.1 REMOVING THE TOP COVER

(1) Remove the 4 screws [A] on the both left and right sides.
(2) Remove the 3 screws [B] on the rear side.
(3) Lift upwards and withdraw the TOP COVER.

### 3.2.2 REMOVING THE FRONT PANEL

- Remove the TOP COVER.

(1) Remove the 1 screw [C] and 1 screw [D].
(2) Disengage the 2 claws [E] on the both left and right sides.
(3) Disengage the 2 claws [F] on the bottom side.
(4) Withdraw the FRONT PANEL in a front direction.

### 3.2.3 REMOVING THE DAMPER (INSIDE FRONT PANEL)

- Remove the TOP COVER.
- Remove the FRONT PANEL.

(1) Remove the 1 screw [G], and remove the DAMPER.

### 3.2.4 REMOVING THE FORNT CONTROL PWB

- Remove the TOP COVER.
- Remove the FRONT PANEL.

(1) Remove the 4 screws [H], and remove the FRONT CONTROL PWB.

### 3.2.5 REMOVING THE REAR COVER

- Remove the TOP COVER.

(1) Remove the 2 screws [I], 2 screws [J], 2 screws [K], 6 screws [L], 6 screws [M] and 1 connector [N].
(2) Withdraw the REAR COVER in a rear direction.

### 3.2.6 REMOVING THE DIST PWB AND DIST RELAY PWB

- Remove the TOP COVER.
- Remove the REAR COVER.

(1) Remove the 2 screws [O] and 2 screws [P].
(2) Lift upwards and withdraw the SUPPORT BRACKET, the DIST PWB and the DIST RELAY PWB.
(3) Remove the 6 screws [Q] and remove the SUPPORT BRACKET.
(4) Pull right and left and remove the DIST PWB and DIST RELAY PWB.

### 3.2.7 REMOVING THE MI-COM PWB AND MI-COM INTERFACE PWB

- Remove the TOP COVER.
- Remove the REAR COVER.
- Remove the DIST PWB and DIST RELAY PWB.

(1) Remove the 1 screw [R] and remove the PB HOLDER.
(2) Lift upwards and withdraw the MI-COM PWB and the MI-COM INTERFACE PWB.
(3) Pull right and left and remove the MI-COM PWB and the MI-COM INTERFACE PWB.

### 3.2.8 REMOVING THE AV JACK PWB AND AV SWITCH PWB

- Remove the TOP COVER.
- Remove the REAR COVER.
- Remove the DIST PWB and DIST RELAY PWB.
- Remove the MI-COM PWB and MI-COM INTERFACE PWB.

(1) Remove the 3 screws [S] and remove the TERMINAL BRACKET.
(2) Lift upwards and withdraw the AV JACK PWB and the AV SWITCH PWB.
(3) Pull right and left and remove the AV JACK PWB and the AV SWITCH PWB.

### 3.2.9 REMOVING THE MAIN PWB AND RECEIVER POWER PWB

- Remove the TOP COVER.
- Remove the REAR COVER.
- Remove the DIST PWB and DIST RELAY PWB.
- Remove the MI-COM PWB and MI-COM INTERFACE PWB.
- Remove the AV JACK PWB and AV SWITCH PWB.

(1) Remove the 2 screws [T] and 2 screws [U]. Then, lift upwards and withdraw the MAIN PWB.
(2) Remove the 6 screws [V] and remove the MI-COM HOLDER and the RECEIVER POWER PWB.

### 3.2.10 REMOVING THE AC INLET

- Remove the TOP COVER.
- Remove the REAR COVER.
- Remove the DIST PWB and DIST RELAY PWB.

(1) Remove the 1 screw [W] and remove the AC INLET.

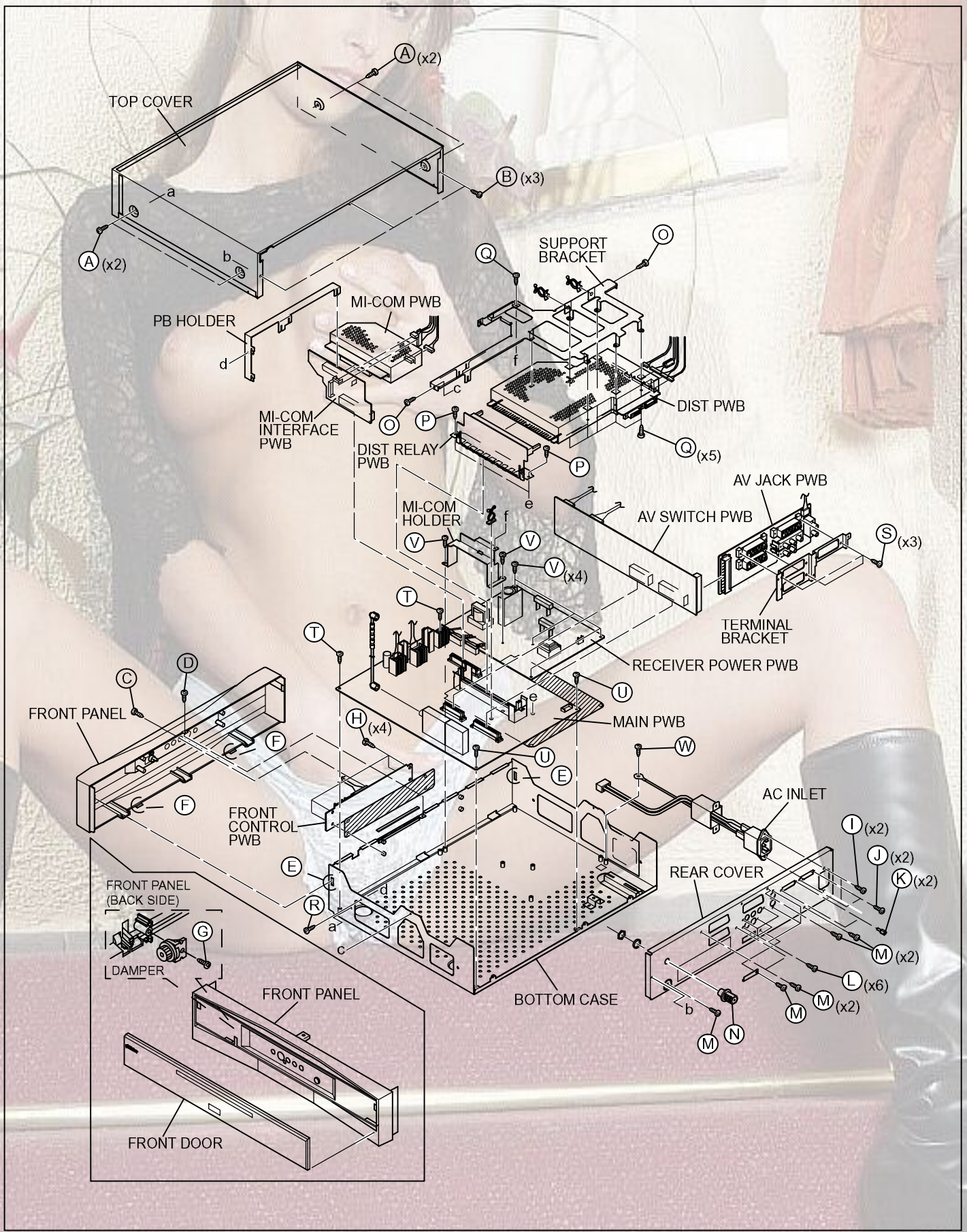

TOP COVER
A (x2)
B (x3)
A (x2)
a
b
PB HOLDER
d
MI-COM PWB
MI-COM INTERFACE PWB
SUPPORT BRACKET
Q
O
c
f
DIST PWB
O
P
DIST RELAY PWB
P
Q (x5)
e
MI-COM HOLDER
f
V
V
V (x4)
AV JACK PWB
AV SWITCH PWB
S (x3)
TERMINAL BRACKET
T
T
RECEIVER POWER PWB
U
e
MAIN PWB
H (x4)
W
U
E
C
D
FRONT PANEL
F
F
FRONT CONTROL PWB
AC INLET
I (x2)
J (x2)
K (x2)
REAR COVER
E
d
R
a
c
FRONT PANEL (BACK SIDE)
G
DAMPER
FRONT PANEL
M (x2)
L (x6)
M (x2)
M
b
N
M
BOTTOM CASE
FRONT DOOR

**Fig. 7**

### 3.3 REPLACEMENT OF MEMORY IC

#### 3.3.1 MEMORY IC

This unit uses the nonvolatile memory IC.
The memory IC memories data for video and deflection circuits. To replace the memory IC without the data written, malfunctions might occurred while power is on, and the normal image might not appear. When replacing the memory IC, be sure to use the IC written with the initial values of data.

#### 3.3.2 PROCEDURE FOR REPLACING THE MEMORY IC

1. **Power off**
   Switch the power off and unplug the power cord from the wall outlet.
2. **Replacing the memory IC**
   Replace the memory IC with new one. Be sure to use the memory IC written with the initial data values.
3. **Power on**
   Plug the power cord into the wall outlet and switch the power on.
4. **Check and setting of SYSTEM CONSTANT SET**
   (1) Press the [INFORMATION] key and the [MUTING] key on the remote control unit simultaneously.
   The SERVICE MENU screen will be displayed.(See Fig.1.)
   (2) In the SERVICE MENU, press the [INFORMATION] key and [MUTING] key simultaneously. Then, the SYSTEM CONSTANT SET screen will be displayed.(See Fig.2.)
   (3) Check whether the setting values of the SYSTEM CONSTANT SET are the same as those indicated in Table1.
   (4) Press the [INFORMATION] key twice to return to the normal screen.
5. **Receive channel setting**
   Refer to the **OPERATING INSTRUCTIONS** and set the receive channels (channels preset).
6. **User setting**
   Check the user setting values in Table 2 and Table 3. If setting value is different, set the correct value.
   For setting, refer to the **OPERATING INSTRUCTIONS**.
7. **Setting of SERVICE MENU**
   Verify the setting for each setting item in the SERVICE MENU.(See Table 4.) If readjustment is necessary, perform adjustment referring to “ADJUSTMENTS PROCEDURE”.

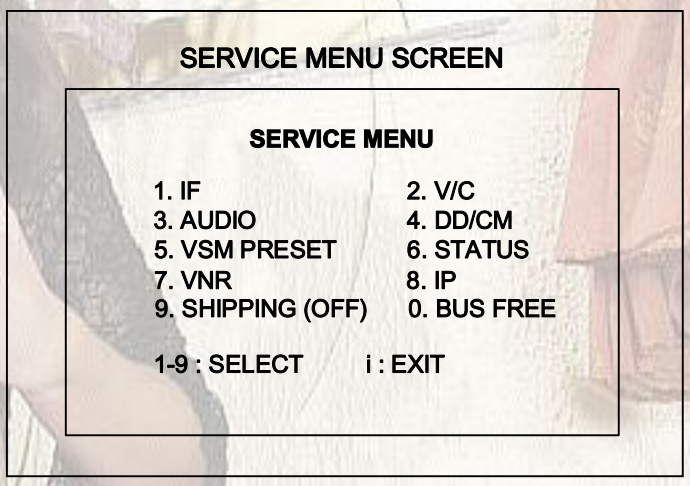



**Fig.1**

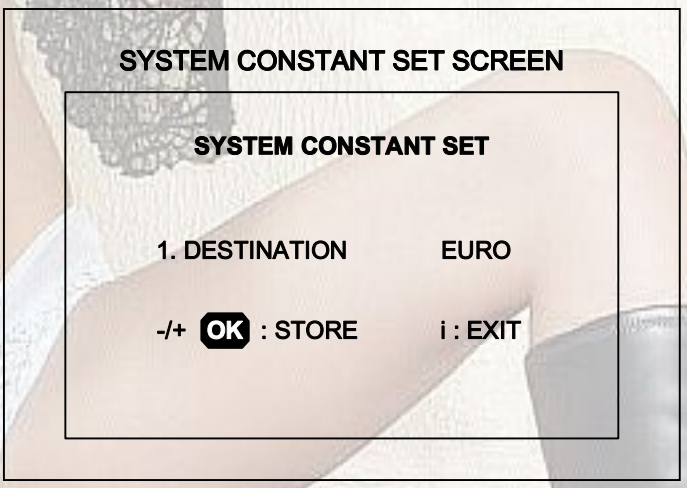



**Fig.2**

#### 3.3.3 FACTORY SETTING VALUE

##### 3.3.3.1 SETTING OF SYSTEM CONSTANT SET

| Setting item | Setting content | Setting value |
|---|---|---|
| DESTINATION | ASIA / EURO | EURO |

**Table 1**

##### 3.3.3.2 SETTING OF SWITCHS ON DISPLAY UNIT AND REMOTE CONTROL UNIT

| Setting item | Setting value |
|---|---|
| POWER | OFF |
| SHIPPING CHANNEL | PR1 |
| PRESET CHANNEL | Refer to OPERATION INSTRUCTIONS |
| VOLUME | 10 |
| ZOOM | PANORAMIC |
| 3D SOUND | OFF |

**Table 2**

### 3.3.3.3 SETTING OF MENU SCREEN

| Setting item | Setting value |
|---|---|
| **PICTURE SETTING** | |
| PICTURE MODE | BRIGHT |
| CONTRAST | +13 |
| BRIGHT | -1 |
| SHARP | +6 |
| COLOUR | +2 |
| COLOUR TEMP. | NORMAL |
| **PICTURE FEATURES** | |
| DIGITAL VNR | MIN |
| Super Digi Pure | AUTO |
| COLOUR SYSTEM | TV: Depeend on PR/CH<br>EXT: AUTO |
| MOVIE THEATRE | AUTO |
| 4:3 AUTO ASPECT | PANORAMIC |
| COLOUR MANAGEMENT | ON |
| PIP POSITION | Right below |
| **SOUND SETTING** | |
| STEREO / I•II | Stereo sound |
| BASS | Center |
| TREBLE | Center |
| BALANCE | Center |
| SPEAKER | ON |
| BBE | ON |
| 3D SOUND | OFF |
| A.H.B. | ON |

| Setting item | Setting value |
|---|---|
| **HEADPHONE** | |
| VOLUME | 20 |
| TV SPEAKER | OFF |
| OUTPUT | MAIN |
| **EXT SETTING** | |
| S-IN | EXT 2, 3, 5 : S-IN |
| ID LIST | Space |
| DUBBING | EXT-1 –>EXT-2 |
| **FEATURES** | |
| SLEEP TIMER | OFF |
| BLUE BACK | ON |
| CHILD LOCK | ID NO. 0000<br>ALL CH : OFF |
| DECODER (EXT-2) | OFF |
| PICTURE SHIFT | FAST |
| **INSTALL** | |
| LANGUAGE | ENGLISH |
| AUTO PROGRAM | FRANCE |
| DEIT / MANUAL | Only for PR/CH |

**Table 3**

### 3.3.3.4 VSM PRESET SETTING

| Item No. | Item | Variable range | Setting value | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | PICTURE MODE | | | COLOUR TEMP. | | |
| | | | BRIHGT | STANDARD | SOFT | COOL | NORMAL | WARM |
| 1 | CONT | -16~16 | +13 | 0 | -7 | --- | --- | --- |
| 2 | BRIGHT | -16~16 | -1 | 0 | 0 | --- | --- | --- |
| 3 | SHARP | -16~16 | +6 | 0 | -2 | --- | --- | --- |
| 4 | COLOUR | -16~16 | +2 | 0 | -2 | --- | --- | --- |
| 5 | TINT | -16~16 | 0 | 0 | 0 | --- | --- | --- |
| 1 | WDR R | -128~127 | --- | --- | --- | -22 | 0 | 0 |
| 2 | WDR G | -128~127 | --- | --- | --- | -21 | 0 | -12 |
| 3 | WDR B | -128~127 | --- | --- | --- | 0 | 0 | -5 |

#### 3.3.3.4.1 Setting of VSM PRESET

(1) Enter "5.VSM PRESET" from the SERVICE MENU.
(2) Press the [OK] key to select BRIGHT/STD/SOFT/COOL/NORMAL/WARM mode.
(3) Select the setting item using the [FUNCTION ( ▲ / ▼ )] key.
(4) Set the value using the [FUNCTION ( ◀ / ▶ )] key.
(5) Press the [OK] key to save the value.
(6) Press the [INFORMATION] key twice to return to the normal screen.

### 3.3.4 SERVICE MENU SETTING ITEMS

| Service menu | Setting item | Service menu | Setting item |
|---|---|---|---|
| **1. IF** | 1. VCO<br>2. DELAY POINT **[Do not adjust]** | **5.VSM PRESET** | PICTURE MODE<br>1.CONT<br>2.BRIGHT<br>3.SHARP<br>4.COLOUR<br>5.TINT |
| **2. VC** | 1.CUT OF R<br>2.CUT OF G<br>3.CUT OF B<br>4.DRIVE R<br>5.DRIVE G<br>6.DRIVE B<br>7.TWN HI R<br>8.TWN HI B<br>9.BRIGHT<br>10.CONT<br>11.TWN BRG<br>12.TWN CNT<br>13.COLOUR<br>14.HUE<br>15.BY GAIN<br>16.TWN COL<br>17.TWN TNT<br>18.B OF MR<br>19.B OF MB<br>20.B OF SR<br>21.B OF SB<br>22.M BOF ST<br>23.M ROF ST<br>S01 ~ S99<br>A01 ~ A17<br>PDA01 ~ PDA12<br>PDB01 ~ PDB22<br>RGA01 ~ RGA03 | | COLOUR TEMP.<br>1.WDR R<br>2.WDR G<br>3.WDR B |
| | | **6.STATUS** | **[Do not adjust]** |
| | | **7.VNR**<br>**[Do not adjust]** | 1.MYLV<br>2.ONMVF<br>3.MYCOR<br>4.MYGA<br>5.YEGON<br>6.YEGL<br>7.YLTL<br>8.MCLV<br>9.MCGA<br>10.MCCOR<br>11.CLTL<br>12.YNGA<br>13.COR_OF<br>14.LPF_OF<br>15.YCTL<br>16.YNCL<br>17.YNCON |
| **3.AUDIO**<br>**[Do not adjust]** | 1.ERROR LIMIT<br>2.A2 ID THR<br>3.Q-PEAK<br>4.SOUND LEVEL | **8.IP**<br>**[Do not adjust]** | PPA001 ~ PPA008<br>PPB001 ~ PPB036<br>PPC001 ~ PPC007<br>PPD001 ~ PPD016<br>ADS001 ~ ADS034<br>IPA001 ~ IPA120<br>IPB001 ~ IPB088<br>IPC001 ~ IPC044<br>IPD001 ~ IPD058 |
| **4.DD/CM** | DDT01 ~ DDT34<br>CMT01 ~ CMT57<br>DDP01 ~ DDP37<br>CMP01 ~ CMP03<br>OSD-G<br>OSD-B<br>OSD-R | | |
| | | **9.SHIPPING(OFF)** | **[Do not select under the adjustment]** |

**Table 4**

### 3.4 REPLACEMENT OF CHIP COMPONENT

#### 3.4.1 CAUTIONS

(1) Avoid heating for more than 3 seconds.
(2) Do not rub the electrodes and the resist parts of the pattern.
(3) When removing a chip part, melt the solder adequately.
(4) Do not reuse a chip part after removing it.

#### 3.4.2 SOLDERING IRON

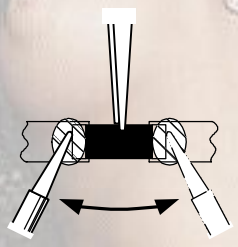
(1) Use a high insulation soldering iron with a thin pointed end of it.
(2) A 30w soldering iron is recommended for easily removing parts.

#### 3.4.3 REPLACEMENT STEPS

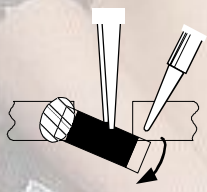
**1. How to remove Chip parts**

**[Resistors, capacitors, etc.]**

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



(2) Shift with tweezers and remove the chip part.



**[Transistors, diodes, variable resistors, etc.]**

(1) Apply extra solder to each lead.

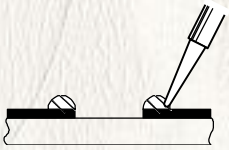
(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

**Note :**
After removing the part, remove remaining solder from the pattern.

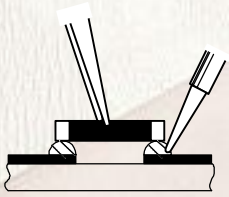
**2. How to install Chip parts**

**[Resistors, capacitors, etc.]**

(1) Apply solder to the pattern as indicated in the figure.

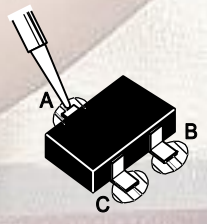


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

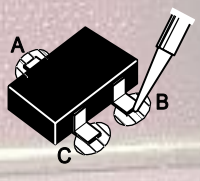


**[Transistors, diodes, variable resistors, etc.]**

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead A as indicated in the figure.




(4) Then solder leads B and C.



# SECTION 4
# ADJUSTMENT

## 4.1 ADJUSTMENT PREPARATION

**NOTE:**

Prior to the following procedure, be sure to connect the receiver unit and the display unit.

(1) **You can make the necessary adjustments for this unit with either the remote control unit or with the adjustment equipment and parts as given below.**

(2) **Adjustment with the remote control unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.**

(3) Make sure that AC power is turned on correctly.

(4) Turn on the power for the set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.

(5) Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.

(6) Never touch any adjustment parts, which are not specified in the list for this variable resistors, transformers, trimmer capacitors, etc.

(7) Presetting before adjustment.
Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit.

■ Presetting position

| Setting item | Settings |
|---|---|
| PICTURE MODE | STANDARD |
| PICTURE adjustments | All center (00) |
| COLOUR TEMP. | NORMAL |
| DIGITAL VNR | MIN |
| Super Digi Pure | AUTO |
| SOUND adjustments | All center (00) |
| ZOOM | FULL |

## 4.2 MEASURING INSTRUMENT AND FIXTURES

- DC voltmeter (or Digital voltmeter)
- Oscilloscope
- Signal generator (Pattern generator) [PAL/SECAM/NTSC]
- Remote control unit

## 4.3 MAIN PARTS LOCATIONS

### 4.3.1 RECEIVER UNIT

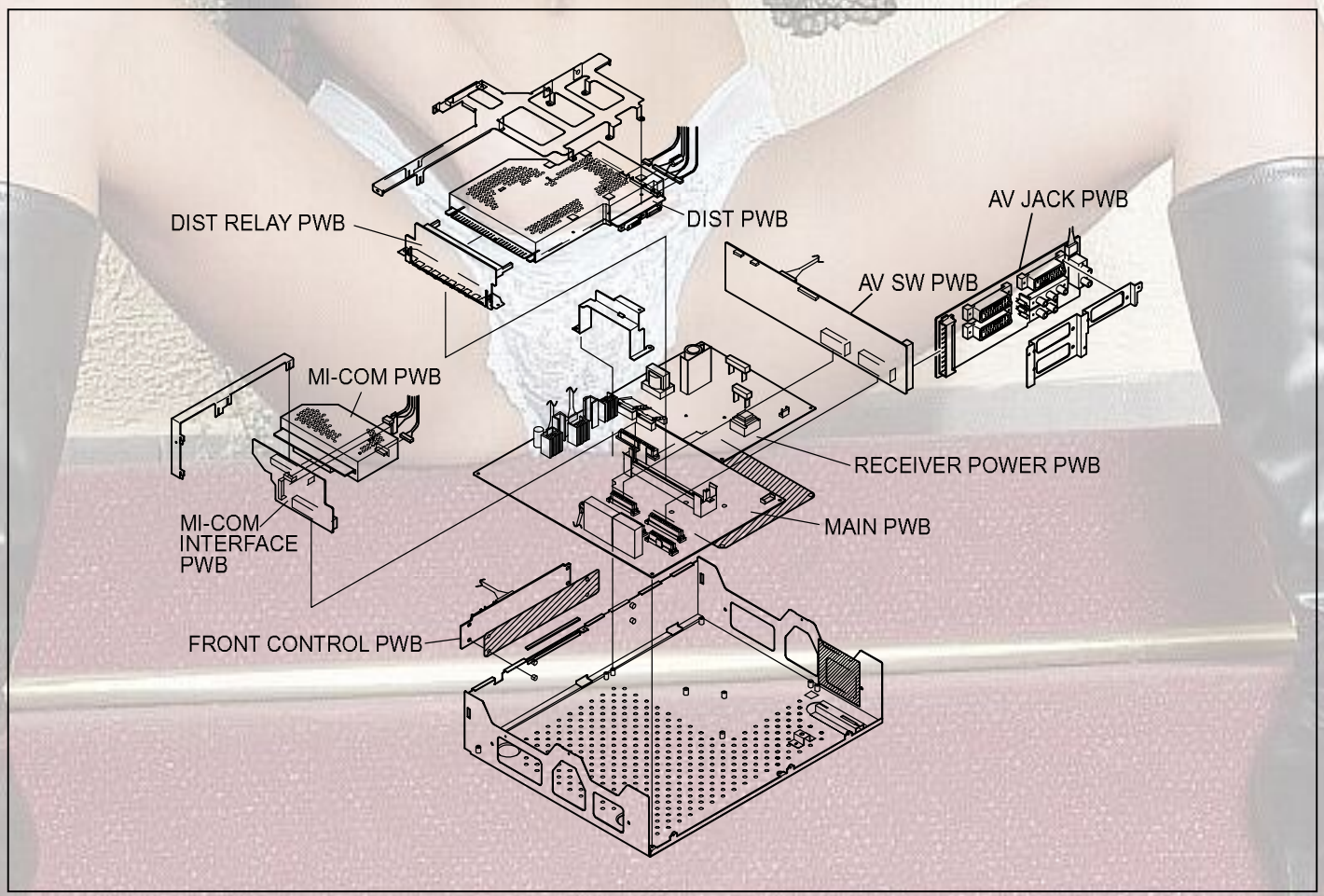
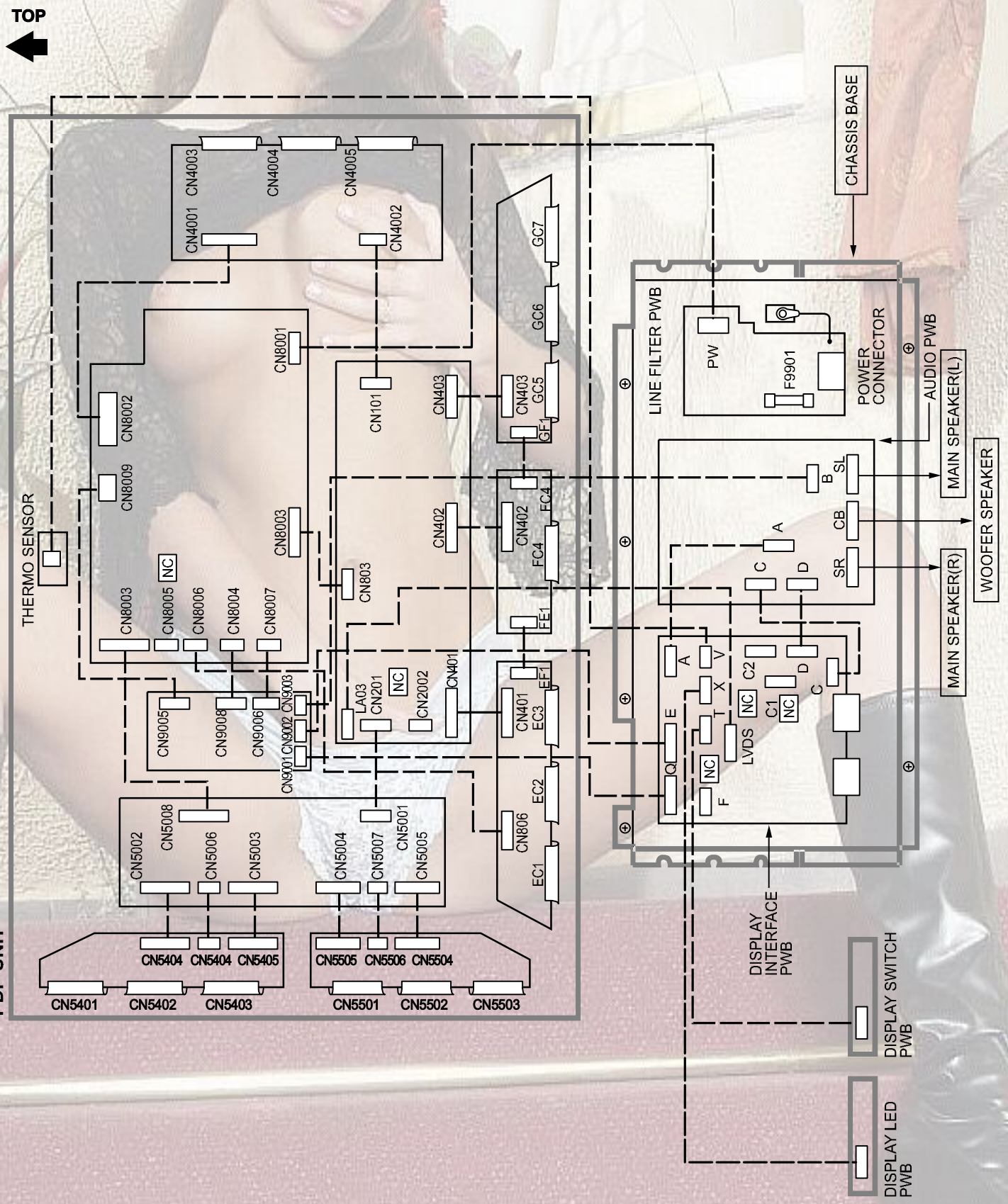



**Fig.1**

### 4.3.2 DISPLAY UNIT



## 4.4 SERVICE MENU SCREEN

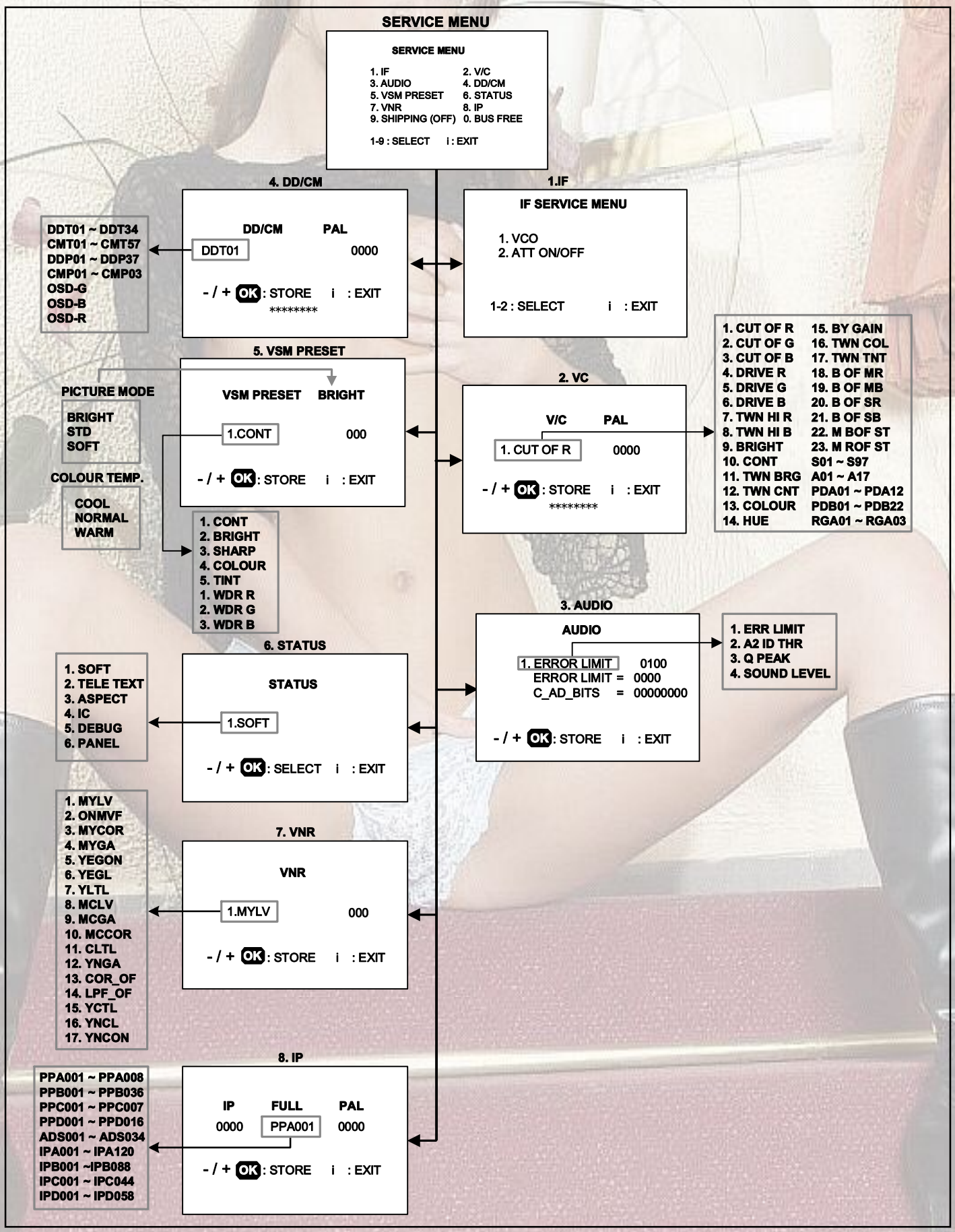



**Fig.3**

## 4.5 BASIC OPERATION OF THE SERVICE MENU

### 4.5.1 TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the remote control unit.

### 4.5.2 HOW TO ENTER THE SERVICE MENU MODE

(1) Press the [INFORMATION] key and the [MUTING] key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig.4 will be displayed.
(2) When the Main Menu is displayed, press any key of the [1] to [0] key to enter the corresponding menu mode.
*Press any of the [1] to [0] keys before the Service Menu mode disappears.
(3) Select the service item using the [FUNCTION (▲/▼)] key.
(4) Set the value using the [FUNCTION (◀/▶)] key.
(5) Press the [OK] key to save the value.

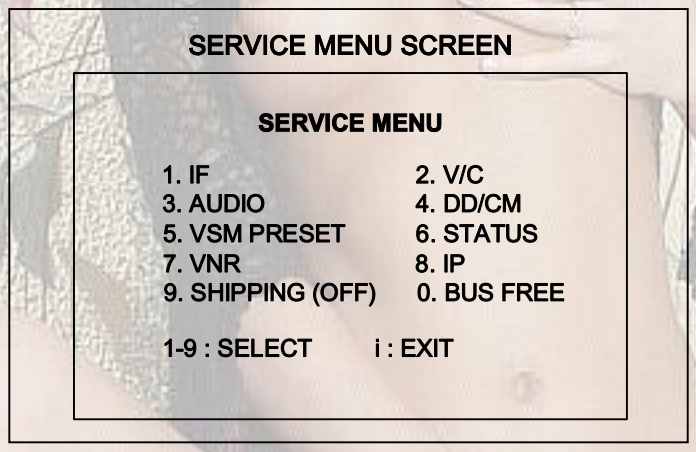



**Fig.4**

### 3.5.2 HOW TO EXIT THE SERVICE MENU MODE

Press the [INFORMATION] key to exit the Service Menu mode.

### 3.5.3 SERVICE CONTROL KEY LAYOUT ON THE REMOTE CONTROL UNIT

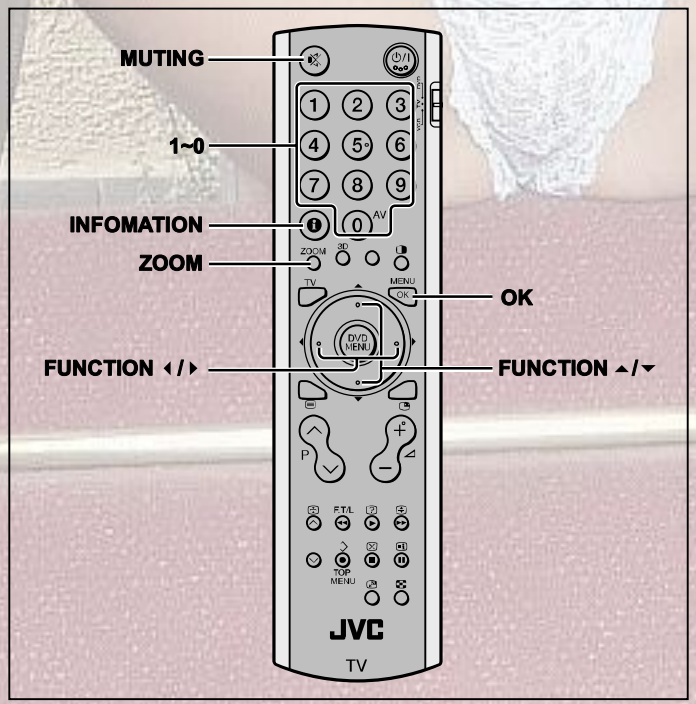



**Fig.5**

### 4.5.5 SETTINGS OF THE SERVICE MENUS

#### 4.5.5.1 [1. IF (VCO adjustment, ATT setting)]

**[Do not change settings of items that are not included in the "ADJUSTMENT PROCEDURE".]**

#### 4.5.5.2 [2. VC (VIDEO setting)]

**[Do not change settings of items that are not included in the "ADJUSTMENT PROCEDURE".]**
**Sets output data to the video circuit.**

- [Function (▲/▼)] key
  For scrolling up/down the setting items.
- [Function (◀/▶)] key
  For scrolling up/down the setting values.

#### 4.5.5.3 [3. AUDIO (SOUND setting)]

**[Do not adjust]**

#### 4.5.5.4 [4. DD/CM (Panel picture processing setting)]

**[Do not change settings of items that are not included in the "ADJUSTMENT PROCEDURE".]**
**Sets output data to the deflection circuit.**

- [Function (▲/▼)] key
  For scrolling up/down the setting items.

  **→ DDT01...↔ CMT01...↔ DDPM01...↔ CMP01...↔ OSD-G ←**

- [Zoom (red)] key
  For switching to the next item.

  **→ DDT01 → CMT01 → DDP01 → CMP01 → OSD-G]**

- [Function (◀/▶)] key
  For scrolling up/down the setting values.

#### 4.5.5.5 [5. VSM PRESET (PICTURE preset setting)]

**[Refer to page 1-21.]**

#### 4.5.5.6 [6. STATUS]

**(The version of software, the aspect, and the state of debugging are displayed. )**
**[Setting for this item is not required in servicing]**

#### 4.5.5.7 [7. VNR (Noise reduction setting)]

**[Do not adjust]**
**Sets output data to the digital noise reduction circuit.**

#### 4.5.5.8 [8. IP (DIST setting)]

**[Do not adjust]**
**Sets output data to the DIST circuit.**

#### 4.5.5.9 [9. SHIPPING (OFF)]

**[Setting for this item is not required in servicing]**

#### 4.5.5.10 [10. BUE FREE]

**[Setting for this item is not required in servicing]**

### 4.6 DEFAULT VALUES IN THE SERVICE MENU SETTING MODE

- Perform fine-tuning based on the "default values" using the remote control when in the SERVICE MENU setting mode.
- The "default values" serve only as an indication rough standard and therefore the values with which optimal display can be achieved may be different from the default values. But, don't change the values that are not written in "ADJUSTMENT PROCEDURE". They are fixed values.

#### 4.6.1 [2. VC]

#### 4.6.1.1 VIDEO SYSTEM

| Item No. | Item | Variable range | Setting value | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | TV | | EXT-1 / 2 / 3 / 5 | | | EXT-4 | | | |
| | | | PAL | SECAM | PAL | SECAM | NTSC | 625i | 525i | 625p | 525p |
| 1 | CUT OF R | 0000~0255 | 0088 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 2 | CUT OF G | 0000~0255 | 0101 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 3 | CUT OF B | 0000~0255 | 0106 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 4 | DRIVE R | 0000~0255 | 0129 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 5 | DRIVE G | 0000~0255 | 0112 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 6 | DRIVE B | 0000~0255 | 0110 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 7 | TWN HI R | 0000~0127 | 0065 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 8 | TWN HI B | 0000~0127 | 0063 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 9 | BRIGHT | 0000~0255 | 0013 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 10 | CONT | 0000~0015 | 0011 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 11 | TWN BRG | 0000~0127 | 0081 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 12 | TWN CNT | 0000~0015 | 0011 | ← | ← | ← | ← | 0000 | ← | ← | ← |
| 13 | COLOUR | 0000~0015 | 0007 | ← | 0000 | ← | 0009 | 0000 | ← | ← | ← |
| 14 | HUE | 0000~0063 | 0007 | ← | 0034 | ← | 0034 | 0000 | ← | ← | 0063 |
| 15 | BY GAIN | 0000~0063 | 0043 | ← | 0000 | ← | 0043 | 0000 | ← | ← | 0043 |
| 16 | TWN COL | 0000~0015 | 0009 | ← | 0002 | ← | 0009 | 0002 | 0009 | 0002 | ← |
| 17 | TWN TNT | 0000~0063 | 0034 | ← | ← | ← | ← | ← | ← | ← | ← |
| 18 | B OF MR | 0000~0015 | 0008 | ← | ← | ← | ← | ← | ← | ← | ← |
| 19 | B OF MB | 0000~0015 | 0008 | ← | ← | ← | ← | ← | ← | ← | ← |
| 20 | B OF SR | 0000~0015 | 0008 | ← | ← | ← | ← | ← | ← | ← | ← |
| 21 | B OF SB | 0000~0015 | 0008 | ← | ← | ← | ← | ← | ← | ← | ← |
| 22 | M BOFSET | 0000~0007 | 0000 | ← | ← | ← | ← | ← | ← | ← | ← |
| 23 | M ROFSET | 0000~0007 | 0000 | ← | ← | ← | ← | ← | ← | ← | ← |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| S01 | COLOUR | 0000~0255 | 0128 | 0098 | 0125 |
| S02 | HUE | -128~0127 | 0000 | 0000 | 0000 |
| S03 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| S04 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| S05 | BRIGHT | 0000~0255 | 0039 | 0039 | 0032 |
| S06 | CONT | 0000~0255 | 0100 | 0100 | 0100 |
| S07 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| S08 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| S09 | (NO DISPLAY) | 0000~0255 | 0140 | 0140 | 0140 |
| S10 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| S11 | (NO DISPLAY) | -128~0127 | 0006 | 0006 | 0006 |
| S12 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| S13 | R GAIN | 0000~0255 | 0255 | 0255 | 0255 |
| S14 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| S15 | G GAIN | 0000~0255 | 0246 | 0246 | 0246 |
| S16 | (NO DISPLAY) | -128~0127 | 0001 | 0001 | 0001 |
| S17 | B GAIN | 0000~0255 | 0240 | 0240 | 0240 |
| S18 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| S19 | (NO DISPLAY) | 0000~0255 | 0127 | 0127 | 0127 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| S20 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| S21 | (NO DISPLAY) | 0000~0255 | 0125 | 0125 | 0125 |
| S22 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| S23 | (NO DISPLAY) | 0000~0255 | 0127 | 0127 | 0127 |
| S24 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| S25 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| S26 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| S27 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| S28 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| S29 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| S30 | (NO DISPLAY) | 0000~0031 | 0001 | 0001 | 0001 |
| S31 | (NO DISPLAY) | 0000~0063 | 0010 | 0010 | 0003 |
| S32 | (NO DISPLAY) | 0000~0063 | 0040 | 0040 | 0030 |
| S33 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| S34 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| S35 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| S36 | (NO DISPLAY) | 0000~0031 | 0000 | 0000 | 0000 |
| S37 | (NO DISPLAY) | 0000~0255 | 0225 | 0225 | 0200 |
| S38 | (NO DISPLAY) | 0000~0063 | 0045 | 0045 | 0050 |
| S39 | (NO DISPLAY) | 0000~0063 | 0060 | 0060 | 0060 |
| S40 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| S41 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| S42 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |
| S43 | (NO DISPLAY) | 0000~0031 | 0016 | 0016 | 0016 |
| S44 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |
| S45 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |
| S46 | (NO DISPLAY) | 0000~0015 | 0015 | 0015 | 0015 |
| S47 | (NO DISPLAY) | 0000~0015 | 0015 | 0015 | 0015 |
| S48 | (NO DISPLAY) | 0000~0015 | 0015 | 0015 | 0015 |
| S49 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| S50 | (NO DISPLAY) | 0000~0255 | 0009 | 0009 | 0009 |
| S51 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| S52 | (NO DISPLAY) | 0000~0255 | 0061 | 0061 | 0061 |
| S53 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| S54 | (NO DISPLAY) | 0000~0255 | 0004 | 0004 | 0004 |
| S55 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| S56 | (NO DISPLAY) | 0000~0255 | 0057 | 0057 | 0057 |
| S57 | (NO DISPLAY) | 0000~0255 | 0000 | 0000 | 0000 |
| S58 | (NO DISPLAY) | 0000~0015 | 0000 | 0000 | 0000 |
| S59 | (NO DISPLAY) | 0000~0255 | 0013 | 0013 | 0013 |
| S60 | (NO DISPLAY) | 0000~0015 | 0000 | 0000 | 0000 |
| S61 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| S62 | (NO DISPLAY) | 0000~0127 | 0012 | 0012 | 0012 |
| S63 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| S64 | (NO DISPLAY) | 0000~0127 | 0000 | 0000 | 0000 |
| S65 | (NO DISPLAY) | 0000~0003 | 0003 | 0003 | 0003 |
| S66 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |
| S67 | (NO DISPLAY) | 0000~0003 | 0002 | 0002 | 0002 |
| S68 | (NO DISPLAY) | 0000~0015 | 0000 | 0000 | 0002 |
| S69 | (NO DISPLAY) | 0000~0063 | 0019 | 0019 | 0019 |
| S70 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| S71 | (NO DISPLAY) | 0000~0255 | 0255 | 0255 | 0255 |
| S72 | (NO DISPLAY) | 0000~0255 | 0255 | 0255 | 0255 |
| S73 | (NO DISPLAY) | 0000~0255 | 0255 | 0255 | 0255 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| S74 | (NO DISPLAY) | 0000~0031 | 0000 | 0000 | 0000 |
| S75 | (NO DISPLAY) | 0000~0031 | 0000 | 0000 | 0000 |
| S76 | (NO DISPLAY) | -127~0128 | 0000 | 0000 | 0000 |
| S77 | (NO DISPLAY) | -127~0128 | 0000 | 0000 | 0000 |
| S78 | (NO DISPLAY) | 0000~0255 | 0255 | 0255 | 0255 |
| S79 | (NO DISPLAY) | 0000~0255 | 0000 | 0000 | 0000 |
| S80 | (NO DISPLAY) | 0000~0255 | 0255 | 0255 | 0255 |
| S81 | (NO DISPLAY) | 0000~0255 | 0000 | 0000 | 0000 |
| S82 | (NO DISPLAY) | 0000~0255 | 0255 | 0255 | 0255 |
| S83 | (NO DISPLAY) | 0000~0255 | 0000 | 0000 | 0000 |
| S84 | (NO DISPLAY) | 0000~0015 | 0000 | 0000 | 0000 |
| S85 | (NO DISPLAY) | 0000~0255 | 0011 | 0011 | 0011 |
| S86 | (NO DISPLAY) | 0000~0255 | 0130 | 0130 | 0130 |
| S87 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| S88 | (NO DISPLAY) | 0000~0007 | 0007 | 0007 | 0007 |
| S89 | (NO DISPLAY) | 0000~0255 | 0030 | 0030 | 0030 |
| S90 | (NO DISPLAY) | 0000~0127 | 0000 | 0000 | 0000 |
| S91 | (NO DISPLAY) | 0000~0007 | 0007 | 0007 | 0007 |
| S92 | (NO DISPLAY) | 0000~0031 | 0031 | 0031 | 0031 |
| S93 | (NO DISPLAY) | 0000~0007 | 0007 | 0007 | 0007 |
| S94 | (NO DISPLAY) | 0000~0031 | 0031 | 0031 | 0031 |
| S95 | (NO DISPLAY) | 0000~0255 | 0060 | 0060 | 0075 |
| S96 | (NO DISPLAY) | 0000~0015 | 0008 | 0008 | 0006 |
| S97 | (NO DISPLAY) | 0000~0003 | 0035 | 0035 | 0040 |
| S98 | (NO DISPLAY) | 0000~0063 | 0003 | 0003 | 0000 |
| S99 | (NO DISPLAY) | 0000~0063 | 0003 | 0000 | 0000 |

**4.6.1.2 AUDIO SYSTEM**

| Item No. | Item | Variable range | Setting value |
|---|---|---|---|
| A01 | (NO DISPLAY) | 0000~0007 | 0003 |
| A02 | (NO DISPLAY) | 0000~0007 | 0003 |
| A03 | (NO DISPLAY) | 0000~0007 | 0003 |
| A04 | (NO DISPLAY) | 0000~0007 | 0003 |
| A05 | (NO DISPLAY) | 0000~0009 | 0009 |
| A06 | (NO DISPLAY) | 0000~0015 | 0006 |
| A07 | (NO DISPLAY) | 0000~0015 | 0006 |
| A08 | (NO DISPLAY) | 0000~0015 | 0003 |
| A09 | (NO DISPLAY) | 0000~0007 | 0006 |
| A10 | (NO DISPLAY) | 0000~0007 | 0004 |
| A11 | (NO DISPLAY) | 0000~0063 | 0017 |
| A12 | (NO DISPLAY) | 0000~0063 | 0010 |
| A13 | (NO DISPLAY) | 0000~0003 | 0000 |
| A14 | (NO DISPLAY) | 0000~0007 | 0000 |
| A15 | (NO DISPLAY) | 0000~0003 | 0000 |
| A16 | (NO DISPLAY) | 0000~0003 | 0000 |
| A17 | (NO DISPLAY) | 0000~0003 | 0000 |

| Item No. | Item | Variable range | Setting value |
|---|---|---|---|
| PDA01 | (NO DISPLAY) | 0000~0255 | 0000 |
| PDA02 | (NO DISPLAY) | 0000~0255 | 0094 |
| PDA03 | (NO DISPLAY) | 0000~0255 | 0128 |
| PDA04 | (NO DISPLAY) | 0000~0255 | 0003 |
| PDA05 | (NO DISPLAY) | 0000/0001 | 0001 |
| PDA06 | (NO DISPLAY) | 0000/0001 | 0000 |

| Item No. | Item | Variable range | Setting value |
|---|---|---|---|
| PDA07 | (NO DISPLAY) | 0000~0255 | 0150 |
| PDA08 | (NO DISPLAY) | 0000~0255 | 0150 |
| PDA09 | (NO DISPLAY) | 0000~0255 | 0002 |
| PDA10 | (NO DISPLAY) | 0000~0255 | 0059 |
| PDA11 | (NO DISPLAY) | 0000~0255 | 0000 |
| PDA12 | (NO DISPLAY) | 0000~0127 | 0000 |

| Item No. | Item | Variable range | Setting value |
|---|---|---|---|
| PDB01 | (NO DISPLAY) | 0000~0063 | 0000 |
| PDB02 | (NO DISPLAY) | 0000~0255 | 0000 |
| PDB03 | (NO DISPLAY) | 0000~0255 | 0000 |
| PDB04 | (NO DISPLAY) | 0000~0255 | 0000 |
| PDB05 | (NO DISPLAY) | 0000~0255 | 0000 |
| PDB06 | (NO DISPLAY) | 0000~0001 | 0001 |
| PDB07 | (NO DISPLAY) | 0000~0001 | 0001 |
| PDB08 | (NO DISPLAY) | 0000~0255 | 0138 |
| PDB09 | (NO DISPLAY) | 0000~0255 | 0138 |
| PDB10 | (NO DISPLAY) | 0000~0255 | 0138 |
| PDB11 | (NO DISPLAY) | 0000~0001 | 0001 |
| PDB12 | (NO DISPLAY) | 0000~0001 | 0000 |
| PDB13 | (NO DISPLAY) | 0000~0031 | 0031 |
| PDB14 | (NO DISPLAY) | 0000~0001 | 0000 |
| PDB15 | (NO DISPLAY) | 0000~0001 | 0001 |
| PDB16 | (NO DISPLAY) | 0000~0255 | 0250 |
| PDB17 | (NO DISPLAY) | 0000~0001 | 0000 |
| PDB18 | (NO DISPLAY) | 0000~0255 | 0200 |
| PDB19 | (NO DISPLAY) | 0000~0127 | 0004 |
| PDB20 | (NO DISPLAY) | 0000~0127 | 0004 |
| PDB21 | (NO DISPLAY) | 0000~0001 | 0000 |
| PDB22 | (NO DISPLAY) | 0000~0001 | 0000 |

| Item No. | Item | Variable range | Setting value |
|---|---|---|---|
| RGA01 | (NO DISPLAY) | 0000~0001 | 0001 |
| RGA02 | (NO DISPLAY) | 0000~0001 | 0001 |
| RGA03 | (NO DISPLAY) | 0000~0001 | 0001 |

**4.6.2 [3.AUDIO] (MULTISOUND SYSTEM) (*All fixed)**

| Item No. | Item | Variable range | Setting value |
|---|---|---|---|
| 1 | ERROR LIMIT | 0000~0FF0 | 0100 |
| 2 | A2 ID THR | 0000~00FF | 0019 |
| 3 | Q-PEAK | - | - |
| 4 | SOUND LEVEL | F00F~FFFF | FFFF |

**4.6.3 [4.DD/CM]**

**NOTE:**

- For reference, initial setting values (except OSD-G/B/R) in the following conditions are written here.

  Input signal :PAL/SECAM/NTSC
  Picture mode :Standard
  Zoom :Full
  Multi screen :Single screen
  Colour temp. :Normal

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| DDT01 | (NO DISPLAY) | 0000~0015 | 0000 | 0000 | 0000 |
| DDT02 | (NO DISPLAY) | 0000~0255 | 0022 | 0022 | 0022 |
| DDT03 | (NO DISPLAY) | 0000~0255 | 0240 | 0240 | 0240 |
| DDT04 | (NO DISPLAY) | 0000~0255 | 0255 | 0255 | 0255 |
| DDT05 | (NO DISPLAY) | 0000~0255 | 0255 | 0255 | 0255 |
| DDT06 | (NO DISPLAY) | 0000~0255 | 0255 | 0255 | 0255 |
| DDT07 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| DDT08 | (NO DISPLAY) | 0000~0255 | 0255 | 0255 | 0255 |
| DDT09 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| DDT10 | (NO DISPLAY) | 0000~0255 | 0000 | 0000 | 0000 |
| DDT11 | (NO DISPLAY) | 0000~0007 | 0000 | 0000 | 0000 |
| DDT12 | (NO DISPLAY) | 0000~0255 | 0090 | 0090 | 0115 |
| DDT13 | (NO DISPLAY) | 0000~0255 | 0000 | 0000 | 0000 |
| DDT14 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| DDT15 | (NO DISPLAY) | 0000~0007 | 0007 | 0007 | 0000 |
| DDT16 | (NO DISPLAY) | 0000~0255 | 0150 | 0150 | 0150 |
| DDT17 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| DDT18 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| DDT19 | (NO DISPLAY) | 0000~0063 | 0001 | 0001 | 0001 |
| DDT20 | (NO DISPLAY) | 0000~0015 | 0000 | 0000 | 0000 |
| DDT21 | (NO DISPLAY) | 0000~0015 | 0000 | 0000 | 0000 |
| DDT22 | (NO DISPLAY) | 0000~0015 | 0000 | 0000 | 0000 |
| DDT23 | (NO DISPLAY) | 0000~0015 | 0000 | 0000 | 0000 |
| DDT24 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| DDT25 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| DDT26 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| DDT27 | (NO DISPLAY) | 0000~0007 | 0001 | 0001 | 0001 |
| DDT28 | (NO DISPLAY) | 0000~0255 | 0023 | 0023 | 0023 |
| DDT29 | (NO DISPLAY) | 0000~0003 | 0002 | 0002 | 0002 |
| DDT30 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| DDT31 | (NO DISPLAY) | 0000~0007 | 0002 | 0002 | 0002 |
| DDT32 | (NO DISPLAY) | 0000~0255 | 0100 | 0100 | 0100 |
| DDT33 | (NO DISPLAY) | 0000~0255 | 0000 | 0000 | 0000 |
| DDT34 | (NO DISPLAY) | 0000~0255 | 0032 | 0032 | 0032 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| CMT01 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| CMT02 | (NO DISPLAY) | 0000~0255 | 0105 | 0105 | 0093 |
| CMT03 | (NO DISPLAY) | 0000~0255 | 0020 | 0020 | 0010 |
| CMT04 | (NO DISPLAY) | 0000~0255 | 0020 | 0020 | 0020 |
| CMT05 | (NO DISPLAY) | 0000~0063 | 0062 | 0062 | 0060 |
| CMT06 | (NO DISPLAY) | -128~0127 | 0005 | 0005 | 0001 |
| CMT07 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| CMT08 | (NO DISPLAY) | -128~0127 | -004 | -004 | -004 |
| CMT09 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| CMT10 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| CMT11 | (NO DISPLAY) | 0000~0255 | 0155 | 0155 | 0164 |
| CMT12 | (NO DISPLAY) | 0000~0255 | 0020 | 0020 | 0020 |
| CMT13 | (NO DISPLAY) | 0000~0255 | 0020 | 0020 | 0020 |
| CMT14 | (NO DISPLAY) | 0000~0063 | 0057 | 0057 | 0062 |
| CMT15 | (NO DISPLAY) | -128~0127 | 0005 | 0005 | 0008 |
| CMT16 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| CMT17 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| CMT18 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| CMT19 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| CMT20 | (NO DISPLAY) | 0000~0255 | 0191 | 0191 | 0200 |
| CMT21 | (NO DISPLAY) | 0000~0255 | 0040 | 0040 | 0030 |
| CMT22 | (NO DISPLAY) | 0000~0255 | 0030 | 0030 | 0030 |
| CMT23 | (NO DISPLAY) | 0000~0063 | 0057 | 0057 | 0057 |
| CMT24 | (NO DISPLAY) | -128~0127 | 0010 | 0010 | 0005 |
| CMT25 | (NO DISPLAY) | -128~0127 | 0020 | 0020 | 0015 |
| CMT26 | (NO DISPLAY) | -128~0127 | 0010 | 0010 | 0010 |
| CMT27 | (NO DISPLAY) | -128~0127 | 0015 | 0015 | 0015 |
| CMT28 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |
| CMT29 | (NO DISPLAY) | 0000~0255 | 0078 | 0078 | 0071 |
| CMT30 | (NO DISPLAY) | 0000~0255 | 0030 | 0030 | 0035 |
| CMT31 | (NO DISPLAY) | 0000~0255 | 0030 | 0030 | 0040 |
| CMT32 | (NO DISPLAY) | 0000~0063 | 0057 | 0057 | 0057 |
| CMT33 | (NO DISPLAY) | -128~0127 | 0010 | 0010 | -002 |
| CMT34 | (NO DISPLAY) | -128~0127 | 0010 | 0010 | 0010 |
| CMT35 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | -005 |
| CMT36 | (NO DISPLAY) | -128~0127 | 0015 | 0015 | 0020 |
| CMT37 | (NO DISPLAY) | 0000~0255 | 0064 | 0064 | 0064 |
| CMT38 | (NO DISPLAY) | 0000~0255 | 0008 | 0008 | 0064 |
| CMT39 | (NO DISPLAY) | 0000~0255 | 0074 | 0074 | 0080 |
| CMT40 | (NO DISPLAY) | -128~0127 | 0000 | 0000 | 0000 |
| CMT41 | (NO DISPLAY) | -128~0127 | 0010 | 0010 | 0000 |
| CMT42 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| CMT43 | (NO DISPLAY) | 0000~0255 | 0128 | 0128 | 0128 |
| CMT44 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| CMT45 | (NO DISPLAY) | 0000~0255 | 0080 | 0080 | 0080 |
| CMT46 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| CMT47 | (NO DISPLAY) | 0000~0255 | 0070 | 0070 | 0070 |
| CMT48 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| CMT49 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| CMT50 | (NO DISPLAY) | 0000~0031 | 0029 | 0029 | 0029 |
| CMT51 | (NO DISPLAY) | 0000~0031 | 0029 | 0029 | 0029 |
| CMT52 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| CMT53 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| CMT54 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| CMT55 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| CMT56 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| CMT57 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0001 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| DDP01 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| DDP02 | (NO DISPLAY) | 0000~0255 | 0032 | 0032 | 0032 |
| DDP03 | (NO DISPLAY) | 0000~0003 | 0002 | 0002 | 0002 |
| DDP04 | (NO DISPLAY) | 0000~0255 | 0001 | 0001 | 0001 |
| DDP05 | (NO DISPLAY) | 0000~0255 | 0001 | 0001 | 0001 |
| DDP06 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |
| DDP07 | (NO DISPLAY) | 0000~0031 | 0000 | 0000 | 0000 |
| DDP08 | (NO DISPLAY) | 0000~0007 | 0000 | 0000 | 0000 |
| DDP09 | (NO DISPLAY) | 0000~0255 | 0176 | 0176 | 0176 |
| DDP10 | (NO DISPLAY) | 0000~0007 | 0001 | 0001 | 0001 |
| DDP11 | (NO DISPLAY) | 0000~0255 | 0000 | 0000 | 0000 |
| DDP12 | (NO DISPLAY) | 0000~0007 | 0007 | 0007 | 0007 |
| DDP13 | (NO DISPLAY) | 0000~0007 | 0005 | 0005 | 0005 |
| DDP14 | (NO DISPLAY) | 0000~0003 | 0002 | 0002 | 0000 |
| DDP15 | (NO DISPLAY) | 0000~0015 | 0001 | 0001 | 0001 |
| DDP16 | (NO DISPLAY) | 0000~0015 | 0013 | 0013 | 0013 |
| DDP17 | (NO DISPLAY) | 0000~0015 | 0001 | 0001 | 0001 |
| DDP18 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| DDP19 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| DDP20 | (NO DISPLAY) | 0000~0015 | 0010 | 0010 | 0010 |
| DDP21 | (NO DISPLAY) | 0000~0015 | 0006 | 0006 | 0006 |
| DDP22 | (NO DISPLAY) | 0000~0015 | 0010 | 0010 | 0010 |
| DDP23 | (NO DISPLAY) | 0000~0015 | 0006 | 0006 | 0006 |
| DDP24 | (NO DISPLAY) | 0000~0015 | 0010 | 0010 | 0010 |
| DDP25 | (NO DISPLAY) | 0000~0015 | 0006 | 0006 | 0006 |
| DDP26 | (NO DISPLAY) | 0000~0015 | 0015 | 0015 | 0015 |
| DDP27 | (NO DISPLAY) | 0000~0015 | 0004 | 0004 | 0004 |
| DDP28 | (NO DISPLAY) | 0000~0015 | 0015 | 0015 | 0015 |
| DDP29 | (NO DISPLAY) | 0000~0015 | 0014 | 0014 | 0014 |
| DDP30 | (NO DISPLAY) | 0000~0015 | 0010 | 0010 | 0010 |
| DDP31 | (NO DISPLAY) | 0000~0015 | 0006 | 0006 | 0006 |
| DDP32 | (NO DISPLAY) | 0000~0255 | 0013 | 0013 | 0013 |
| DDP33 | (NO DISPLAY) | 0000~0255 | 0133 | 0133 | 0133 |
| DDP34 | (NO DISPLAY) | 0000~0255 | 0102 | 0102 | 0102 |
| DDP35 | (NO DISPLAY) | 0000~0255 | 0144 | 0144 | 0144 |
| DDP36 | (NO DISPLAY) | 0000~0255 | 0013 | 0013 | 0013 |
| DDP37 | (NO DISPLAY) | 0000~0063 | 0048 | 0048 | 0048 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| CMP01 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| CMP02 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0000 |
| CMP03 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| OSD-G | (NO DISPLAY) | 0000~0255 | 0128 | 0128 | 0128 |
| OSD-B | (NO DISPLAY) | 0000~0255 | 0105 | 0105 | 0105 |
| OSD-R | (NO DISPLAY) | 0000~0255 | 0093 | 0093 | 0093 |

#### 4.6.4 [7.VNR] (*All fixed)

**NOTE:**

- For reference, initial setting values in the following conditions are written here.
  Input signal :PAL/SECAM/NTSC
  Picture mode :Standard
  Zoom :Full
  Multi screen :Single screen
  Colour temp. :Normal

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| 1 | MYLV | 0000~000F | 000E | 000E | 000E |
| 2 | ONMVF | 0000/0001 | 0001 | 0001 | 0001 |
| 3 | MYCOR | 0000~001F | 0003 | 0003 | 0003 |
| 4 | MYGA | 0000~0003 | 0002 | 0002 | 0002 |
| 5 | YEGON | 0000/0001 | 0001 | 0001 | 0001 |
| 6 | YEGL | 0000~000F | 0000 | 0000 | 0000 |
| 7 | YL TL | 0000~007F | 0009 | 0009 | 0009 |
| 8 | MCLV | 0000~000F | 000E | 000E | 000E |
| 9 | MCGA | 0000~0003 | 0002 | 0002 | 0002 |
| 10 | MCCOR | 0000~001F | 0003 | 0003 | 0003 |
| 11 | CLTL | 0000~007F | 0009 | 0009 | 0009 |
| 12 | YNGA | 0000~0003 | 0003 | 0003 | 0003 |
| 13 | COR_OF | 0000/0001 | 0000 | 0000 | 0000 |
| 14 | LPF_OF | 0000/0001 | 0000 | 0000 | 0000 |
| 15 | YCTL | 0000~000F | 0004 | 0004 | 0004 |
| 16 | YNCL | 0000~000F | 000E | 000E | 000E |
| 17 | YNCON | 0000/0001 | 0001 | 0001 | 0001 |

#### 4.6.5 [8.IP] (*All fixed)

**NOTE:**

- For reference, initial setting values in the following conditions are written here.
  Input signal :PAL/SECAM/NTSC
  Picture mode :Standard
  Zoom :Full
  Multi screen :Single screen
  Colour temp. :Normal

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| PPA001 | (NO DISPLAY) | 0000~00FF | 0040 | 0040 | 0040 |
| PPA002 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPA003 | (NO DISPLAY) | 0000~00FF | 0038 | 0038 | 0038 |
| PPA004 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPA005 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPA006 | (NO DISPLAY) | 0000~00FF | 0001 | 0001 | 0001 |
| PPA007 | (NO DISPLAY) | 0000~00FF | 0038 | 0038 | 0043 |
| PPA008 | (NO DISPLAY) | 0000~00FF | 0031 | 0031 | 0023 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| PPB001 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |
| PPB002 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB003 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB004 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| PPB005 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB006 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB007 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |
| PPB008 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB009 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB010 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |
| PPB011 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB012 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB013 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |
| PPB014 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB015 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB016 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |
| PPB017 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB018 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB019 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |
| PPB020 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB021 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB022 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |
| PPB023 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB024 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB025 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |
| PPB026 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB027 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB028 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |
| PPB029 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB030 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB031 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |
| PPB032 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB033 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB034 | (NO DISPLAY) | 0000~001F | 0000 | 0000 | 0000 |
| PPB035 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPB036 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| PPC001 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| PPC002 | (NO DISPLAY) | 0000~00FF | 0008 | 0008 | 0008 |
| PPC003 | (NO DISPLAY) | 0000~00FF | 0002 | 0002 | 0002 |
| PPC004 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| PPC005 | (NO DISPLAY) | 0000~00FF | 007C | 007C | 007C |
| PPC006 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| PPC007 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| PPD001 | (NO DISPLAY) | 0000~00FF | 005F | 005F | 005F |
| PPD002 | (NO DISPLAY) | 0000~00FF | 0002 | 0002 | 0002 |
| PPD003 | (NO DISPLAY) | 0000~00FF | 00F3 | 00F3 | 00F3 |
| PPD004 | (NO DISPLAY) | 0000~00FF | 0002 | 0002 | 0002 |
| PPD005 | (NO DISPLAY) | 0000~00FF | 0033 | 0033 | 0033 |
| PPD006 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPD007 | (NO DISPLAY) | 0000~00FF | 00CA | 00CA | 00CA |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| PPD008 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPD009 | (NO DISPLAY) | 0000~00FF | 004E | 004E | 004E |
| PPD010 | (NO DISPLAY) | 0000~00FF | 0002 | 0002 | 0002 |
| PPD011 | (NO DISPLAY) | 0000~00FF | 00E6 | 00E6 | 00E6 |
| PPD012 | (NO DISPLAY) | 0000~00FF | 0002 | 0002 | 0002 |
| PPD013 | (NO DISPLAY) | 0000~00FF | 0025 | 0025 | 0025 |
| PPD014 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| PPD015 | (NO DISPLAY) | 0000~00FF | 00C9 | 00C9 | 00C9 |
| PPD016 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| ADS001 | (NO DISPLAY) | 0000~00FF | 00D7 | 00D7 | 00D7 |
| ADS002 | (NO DISPLAY) | 0000~000F | 000F | 000F | 000F |
| ADS003 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |
| ADS004 | (NO DISPLAY) | 0000~0007 | 0005 | 0005 | 0005 |
| ADS005 | (NO DISPLAY) | 0000~001F | 0016 | 0016 | 0016 |
| ADS006 | (NO DISPLAY) | 0000~00FF | 0028 | 0028 | 0028 |
| ADS007 | (NO DISPLAY) | 0000~00FF | 0096 | 0096 | 0096 |
| ADS008 | (NO DISPLAY) | 0000~00FF | 0020 | 0020 | 0020 |
| ADS009 | (NO DISPLAY) | 0000~00FF | 00FF | 00FF | 00FF |
| ADS010 | (NO DISPLAY) | 0000~00FF | 00FF | 00FF | 00FF |
| ADS011 | (NO DISPLAY) | 0000~00FF | 00FF | 00FF | 00FF |
| ADS012 | (NO DISPLAY) | 0000~007F | 003E | 003E | 003E |
| ADS013 | (NO DISPLAY) | 0000~007F | 0053 | 0053 | 0053 |
| ADS014 | (NO DISPLAY) | 0000~007F | 0041 | 0041 | 0041 |
| ADS015 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| ADS016 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| ADS017 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| ADS018 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| ADS019 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| ADS020 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| ADS021 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| ADS022 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| ADS023 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| ADS024 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| ADS025 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| ADS026 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| ADS027 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| ADS028 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| ADS029 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| ADS030 | (NO DISPLAY) | 0000~001F | 0003 | 0003 | 0003 |
| ADS031 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| ADS032 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| ADS033 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| ADS034 | (NO DISPLAY) | 0000~00FF | 0032 | 0032 | 0032 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| IPA001 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA002 | (NO DISPLAY) | 0000~003F | 000A | 000A | 000A |
| IPA003 | (NO DISPLAY) | 0000~003F | 0022 | 0022 | 0022 |
| IPA004 | (NO DISPLAY) | 0000~003F | 0022 | 0022 | 0025 |
| IPA005 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| IPA006 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |
| IPA007 | (NO DISPLAY) | 0000~000F | 000F | 000F | 000F |
| IPA008 | (NO DISPLAY) | 0000~003F | 0000 | 0000 | 0000 |
| IPA009 | (NO DISPLAY) | 0000~003F | 0008 | 0008 | 0008 |
| IPA010 | (NO DISPLAY) | 0000~003F | 001C | 001C | 0020 |
| IPA011 | (NO DISPLAY) | 0000~003F | 001C | 001C | 0020 |
| IPA012 | (NO DISPLAY) | 0000~003F | 0020 | 0020 | 0020 |
| IPA013 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |
| IPA014 | (NO DISPLAY) | 0000~0003 | 0002 | 0002 | 0001 |
| IPA015 | (NO DISPLAY) | 0000~000F | 000F | 000F | 000F |
| IPA016 | (NO DISPLAY) | 0000~003F | 0004 | 0004 | 0008 |
| IPA017 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA018 | (NO DISPLAY) | 0000~003F | 0003 | 0003 | 0012 |
| IPA019 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA020 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA021 | (NO DISPLAY) | 0000~003F | 0030 | 0030 | 0030 |
| IPA022 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0000 |
| IPA023 | (NO DISPLAY) | 0000~003F | 0000 | 0000 | 0000 |
| IPA024 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA025 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA026 | (NO DISPLAY) | 0000~003F | 0030 | 0030 | 0030 |
| IPA027 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0000 |
| IPA028 | (NO DISPLAY) | 0000~003F | 0000 | 0000 | 0000 |
| IPA029 | (NO DISPLAY) | 0000~003F | 0000 | 0000 | 0000 |
| IPA030 | (NO DISPLAY) | 0000~000F | 000F | 000F | 000F |
| IPA031 | (NO DISPLAY) | 0000~0007 | 0002 | 0002 | 0002 |
| IPA032 | (NO DISPLAY) | 0000~003F | 0000 | 0000 | 0000 |
| IPA033 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA034 | (NO DISPLAY) | 0000~003F | 0000 | 0000 | 0000 |
| IPA035 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA036 | (NO DISPLAY) | 0000~003F | 000D | 000D | 000D |
| IPA037 | (NO DISPLAY) | 0000~003F | 000D | 000D | 000D |
| IPA038 | (NO DISPLAY) | 0000~003F | 0010 | 0010 | 0010 |
| IPA039 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |
| IPA040 | (NO DISPLAY) | 0000~0003 | 0001 | 0001 | 0001 |
| IPA041 | (NO DISPLAY) | 0000~000F | 000F | 000F | 000F |
| IPA042 | (NO DISPLAY) | 0000~003F | 0005 | 0005 | 0005 |
| IPA043 | (NO DISPLAY) | 0000~003F | 0008 | 0008 | 0008 |
| IPA044 | (NO DISPLAY) | 0000~003F | 0020 | 0020 | 0020 |
| IPA045 | (NO DISPLAY) | 0000~003F | 0020 | 0020 | 0020 |
| IPA046 | (NO DISPLAY) | 0000~003F | 0020 | 0020 | 0020 |
| IPA047 | (NO DISPLAY) | 0000~0003 | 0002 | 0002 | 0002 |
| IPA048 | (NO DISPLAY) | 0000~0003 | 0002 | 0002 | 0002 |
| IPA049 | (NO DISPLAY) | 0000~000F | 0007 | 0007 | 0007 |
| IPA050 | (NO DISPLAY) | 0000~003F | 0008 | 0008 | 0008 |
| IPA051 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA052 | (NO DISPLAY) | 0000~003F | 0008 | 0008 | 0008 |
| IPA053 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA054 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA055 | (NO DISPLAY) | 0000~003F | 0015 | 0015 | 0015 |
| IPA056 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| IPA057 | (NO DISPLAY) | 0000~003F | 000A | 000A | 000A |
| IPA058 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA059 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| IPA060 | (NO DISPLAY) | 0000~003F | 0015 | 0015 | 0015 |
| IPA061 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| IPA062 | (NO DISPLAY) | 0000~003F | 000A | 000A | 000A |
| IPA063 | (NO DISPLAY) | 0000~003F | 003F | 003F | 003F |
| IPA064 | (NO DISPLAY) | 0000~000F | 0006 | 0006 | 0006 |
| IPA065 | (NO DISPLAY) | 0000~0007 | 0001 | 0001 | 0001 |
| IPA066 | (NO DISPLAY) | 0000~003F | 0008 | 0008 | 0008 |
| IPA067 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPA068 | (NO DISPLAY) | 0000~003F | 0027 | 0027 | 0027 |
| IPA069 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| IPA070 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPA071 | (NO DISPLAY) | 0000~000F | 0003 | 0003 | 0003 |
| IPA072 | (NO DISPLAY) | 0000~00FF | 00F6 | 00F6 | 00F6 |
| IPA073 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA074 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA075 | (NO DISPLAY) | 0000~00FF | 0018 | 0018 | 0016 |
| IPA076 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA077 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA078 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA079 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA080 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA081 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA082 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA083 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA084 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA085 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA086 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA087 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA088 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA089 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA090 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA091 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPA092 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPA093 | (NO DISPLAY) | 0000~000F | 000F | 000F | 000F |
| IPA094 | (NO DISPLAY) | 0000~00FF | 00FF | 00FF | 00FF |
| IPA095 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPA096 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPA097 | (NO DISPLAY) | 0000~000F | 000F | 000F | 000F |
| IPA098 | (NO DISPLAY) | 0000~00FF | 00FF | 00FF | 00FF |
| IPA099 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPA100 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPA101 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPA102 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPA103 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPA104 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPA105 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPA106 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPA107 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPA108 | (NO DISPLAY) | 0000~00FF | 0080 | 0080 | 0080 |
| IPA109 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPA110 | (NO DISPLAY) | 0000~00FF | 0040 | 0040 | 0040 |
| IPA111 | (NO DISPLAY) | 0000~000F | 0005 | 0005 | 0005 |
| IPA112 | (NO DISPLAY) | 0000~00FF | 0040 | 0040 | 0040 |
| IPA113 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| IPA114 | (NO DISPLAY) | 0000~00FF | 00C0 | 00C0 | 00C0 |
| IPA115 | (NO DISPLAY) | 0000~000F | 0002 | 0002 | 0002 |
| IPA116 | (NO DISPLAY) | 0000~00FF | 00EF | 00EF | 00EF |
| IPA117 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA118 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA119 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPA120 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| IPB001 | (NO DISPLAY) | 0000~00FF | 0001 | 0001 | 0001 |
| IPB002 | (NO DISPLAY) | 0000~00FF | 008E | 008E | 0091 |
| IPB003 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB004 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB005 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB006 | (NO DISPLAY) | 0000~00FF | 008A | 008A | 009C |
| IPB007 | (NO DISPLAY) | 0000~000F | 0002 | 0000 | 0002 |
| IPB008 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB009 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB010 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB011 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB012 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB013 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB014 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB015 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB016 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB017 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB018 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB019 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB020 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB021 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB022 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB023 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB024 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB025 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB026 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB027 | (NO DISPLAY) | 0000~000F | 000F | 0000 | 0000 |
| IPB028 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB029 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB030 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB031 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB032 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB033 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB034 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB035 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB036 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB037 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPB038 | (NO DISPLAY) | 0000~0007 | 0000 | 0000 | 0000 |
| IPB039 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB040 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB041 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB042 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB043 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB044 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| IPB045 | (NO DISPLAY) | 0000~000F | 0001 | 0001 | 0001 |
| IPB046 | (NO DISPLAY) | 0000~00FF | 008B | 008B | 008B |
| IPB047 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB048 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB049 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB050 | (NO DISPLAY) | 0000~00FF | 0002 | 0002 | 0002 |
| IPB051 | (NO DISPLAY) | 0000~000F | 0006 | 0006 | 0006 |
| IPB052 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB053 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB054 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB055 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB056 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB057 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB058 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB059 | (NO DISPLAY) | 0000~0007 | 0000 | 0000 | 0000 |
| IPB060 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| IPB061 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| IPB062 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPB063 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB064 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB065 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB066 | (NO DISPLAY) | 0000/0001 | 0030 | 0030 | 0039 |
| IPB067 | (NO DISPLAY) | 0000~000F | 0006 | 0006 | 0006 |
| IPB068 | (NO DISPLAY) | 0000~000F | 0040 | 0040 | 0040 |
| IPB069 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB070 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB071 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB072 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB073 | (NO DISPLAY) | 0000~00FF | 0050 | 0050 | 0050 |
| IPB074 | (NO DISPLAY) | 0000/0001 | 0080 | 0080 | 0080 |
| IPB075 | (NO DISPLAY) | 0000/0001 | 0080 | 0080 | 0080 |
| IPB076 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPB077 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB078 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPB079 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB080 | (NO DISPLAY) | 0000~000F | 000F | 000F | 000F |
| IPB081 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB082 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPB083 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPB084 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPB085 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPB086 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPB087 | (NO DISPLAY) | 0000~000F | 0009 | 0009 | 000B |
| IPB088 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| IPC001 | (NO DISPLAY) | 0000~0003 | 0002 | 0002 | 0002 |
| IPC002 | (NO DISPLAY) | 0000~00FF | 0090 | 0090 | 0020 |
| IPC003 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC004 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC005 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPC006 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPC007 | (NO DISPLAY) | 0000~000F | 0003 | 0003 | 0003 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| IPC008 | (NO DISPLAY) | 0000~00FF | 00F5 | 00F5 | 00F6 |
| IPC009 | (NO DISPLAY) | 0000~000F | 0004 | 0004 | 0004 |
| IPC010 | (NO DISPLAY) | 0000~00FF | 005E | 005E | 005E |
| IPC011 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPC012 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPC013 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| IPC014 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC015 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPC016 | (NO DISPLAY) | 0000~00FF | 0016 | 0016 | 0000 |
| IPC017 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC018 | (NO DISPLAY) | 0000~007F | 0000 | 0000 | 0000 |
| IPC019 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC020 | (NO DISPLAY) | 0000~007F | 0001 | 0001 | 0001 |
| IPC021 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPC022 | (NO DISPLAY) | 0000~00FF | 008A | 008A | 0090 |
| IPC023 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| IPC024 | (NO DISPLAY) | 0000~00FF | 001A | 001A | 0002 |
| IPC025 | (NO DISPLAY) | 0000/0001 | 0007 | 0001 | 0000 |
| IPC026 | (NO DISPLAY) | 0000~007F | 0001 | 0001 | 0004 |
| IPC027 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC028 | (NO DISPLAY) | 0000~007F | 0000 | 0000 | 0000 |
| IPC029 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPC030 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC031 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC032 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC033 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC034 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC035 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC036 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC037 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC038 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC039 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC040 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC041 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC042 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC043 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPC044 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| IPD001 | (NO DISPLAY) | 0000~00FF | 0040 | 0040 | 0040 |
| IPD002 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPD003 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPD004 | (NO DISPLAY) | 0000~0007 | 0000 | 0000 | 0000 |
| IPD005 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPD006 | (NO DISPLAY) | 0000~0007 | 0006 | 0006 | 0006 |
| IPD007 | (NO DISPLAY) | 0000~00FF | 0018 | 0018 | 0018 |
| IPD008 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD009 | (NO DISPLAY) | 0000~000F | 0001 | 0001 | 0001 |
| IPD010 | (NO DISPLAY) | 0000~00FF | 0062 | 0062 | 0062 |
| IPD011 | (NO DISPLAY) | 0000~000F | 0005 | 0005 | 0005 |
| IPD012 | (NO DISPLAY) | 0000~00FF | 002B | 002B | 002B |
| IPD013 | (NO DISPLAY) | 0000~0007 | 0000 | 0000 | 0000 |
| IPD014 | (NO DISPLAY) | 0000~0007 | 0000 | 0000 | 0000 |

| Item No. | Item | Variable range | Setting value | | |
|---|---|---|---|---|---|
| | | | PAL | SECAM | NTSC |
| IPD015 | (NO DISPLAY) | 0000/0001 | 0002 | 0002 | 0002 |
| IPD016 | (NO DISPLAY) | 0000/0001 | 0002 | 0002 | 0002 |
| IPD017 | (NO DISPLAY) | 0000~00FF | 0002 | 0002 | 0002 |
| IPD018 | (NO DISPLAY) | 0000~0007 | 0002 | 0002 | 0002 |
| IPD019 | (NO DISPLAY) | 0000~00FF | 0002 | 0002 | 0002 |
| IPD020 | (NO DISPLAY) | 0000~0007 | 0002 | 0002 | 0002 |
| IPD021 | (NO DISPLAY) | 0000~00FF | 0070 | 0070 | 0070 |
| IPD022 | (NO DISPLAY) | 0000/0001 | 0080 | 0080 | 0080 |
| IPD023 | (NO DISPLAY) | 0000~000F | 0080 | 0080 | 0080 |
| IPD024 | (NO DISPLAY) | 0000~00FF | 0070 | 0070 | 0070 |
| IPD025 | (NO DISPLAY) | 0000~000F | 0060 | 0060 | 0060 |
| IPD026 | (NO DISPLAY) | 0000~00FF | 0050 | 0050 | 0050 |
| IPD027 | (NO DISPLAY) | 0000~00FF | 0040 | 0040 | 0040 |
| IPD028 | (NO DISPLAY) | 0000~0007 | 0002 | 0002 | 0002 |
| IPD029 | (NO DISPLAY) | 0000~0007 | 0001 | 0001 | 0001 |
| IPD030 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD031 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPD032 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPD033 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD034 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD035 | (NO DISPLAY) | 0000~0003 | 0000 | 0000 | 0000 |
| IPD036 | (NO DISPLAY) | 0000~000F | 0000 | 0000 | 0000 |
| IPD037 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPD038 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPD039 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD040 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD041 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD042 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD043 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD044 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD045 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD046 | (NO DISPLAY) | 0000/0001 | 0000 | 0000 | 0000 |
| IPD047 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPD048 | (NO DISPLAY) | 0000~00FF | 0000 | 0000 | 0000 |
| IPD049 | (NO DISPLAY) | 0000~00FF | 0090 | 0090 | 0090 |
| IPD050 | (NO DISPLAY) | 0000~0007 | 0000 | 0000 | 0000 |
| IPD051 | (NO DISPLAY) | 0000~00FF | 001D | 001D | 001D |
| IPD052 | (NO DISPLAY) | 0000~0007 | 0002 | 0002 | 0002 |
| IPD053 | (NO DISPLAY) | 0000~00FF | 00E6 | 00E6 | 00E6 |
| IPD054 | (NO DISPLAY) | 0000/0001 | 0001 | 0001 | 0001 |
| IPD055 | (NO DISPLAY) | 0000~000F | 0001 | 0001 | 0001 |
| IPD056 | (NO DISPLAY) | 0000~00FF | 000E | 000E | 000E |
| IPD057 | (NO DISPLAY) | 0000~000F | 0004 | 0004 | 0004 |
| IPD058 | (NO DISPLAY) | 0000~00FF | 00C0 | 00C0 | 00C0 |

## 4.7 ADJUSTMENT PROCEDURE

### 4.7.1 DISPLAY UNIT

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **POWER SUPPLY VOLTAGE** | DC voltmeter | [SMPS PWB]<br>Va<br>Vsca<br>Vs<br>Ve<br>Vset | [SMPS PWB]<br>VAVR<br>VSCAN VR<br>VS VR<br>VE VR<br>VSET VR | **CAUTION:**<br>• Confirm the display after the power supply is turned on on the screen as [NO SYNC].<br>(1) Connect the DC voltmeter to the test point < Va >, < Vsca >, < Vs >, < Ve >, < Vset > and < GND > on the SMPS PWB. (See Fig.1)<br>(2) Adjust < VA VR >, < VSCAN VR >, < VS VR >, < VE VR > and < VSET VR > so that the < Va >, < Vsc >, < Vs >, < Ve > and < Vset > voltage coincides with the values in the voltage label. |

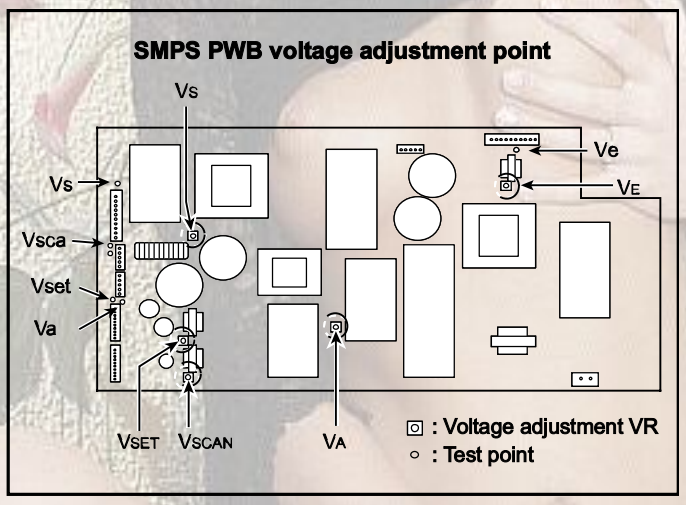



Fig.1

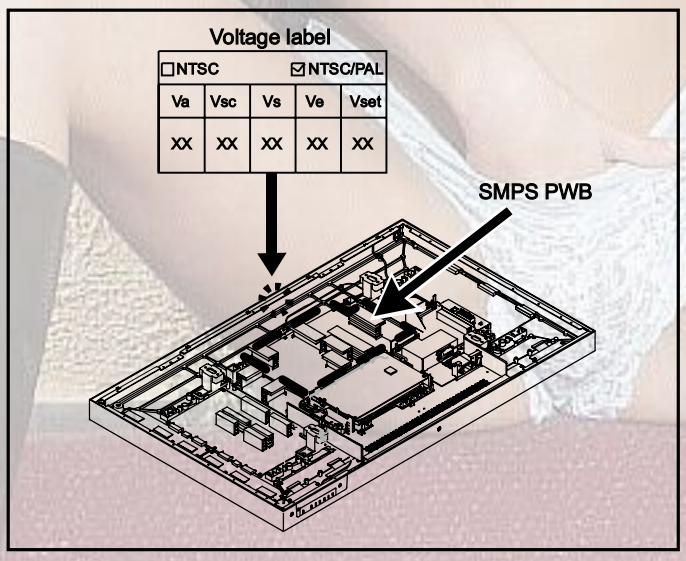



Fig.2

### 4.7.2 RECEIVER UNIT

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **VCO (AFC) check** | Remote control unit<br><br>Signal generator | | [1.IF]<br>1. VCO (CW) | (1) Receive a PAL colour bar signal.<br>(2) Select "1. IF" from the SERVICE MENU.<br>(3) Select "1. VCO."<br>(4) Make sure that an arrow of "MAIN" is in the position between "ABOVE REF." and "BELOW REF."on the screen.<br>(5) Make sure that an arrow of "SUB" is in the position between "ABOVE REF." and "BELOW REF."on the screen. |

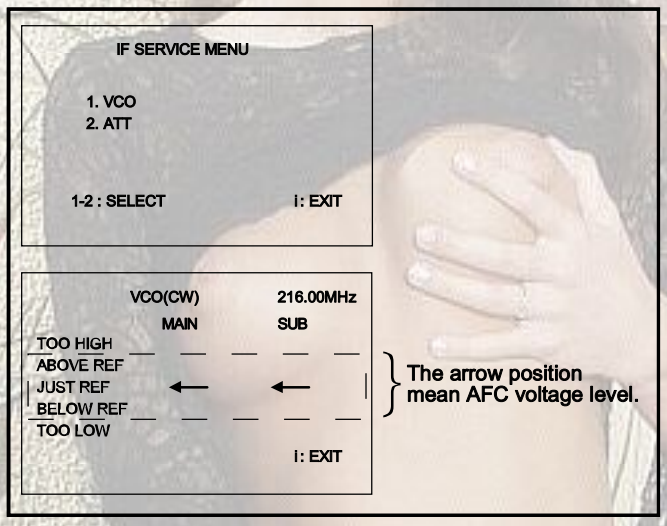



Fig.3

| | | | | |
|---|---|---|---|---|
| **SUB BRIGHTNESS** | Remote control unit<br><br>Signal generator | | [2.VC]<br>9. BRIGHT (Bright) | (1) Receive a PAL black and white pattern signal (including 0% black signal).<br>(2) Select "2. VC" from the SERVICE MENU.<br>(3) Adjust < 9. BRIGHT > (Bright) to set the 0% black part to be the brightest.<br>(4) Press the [OK] key to save the value. |

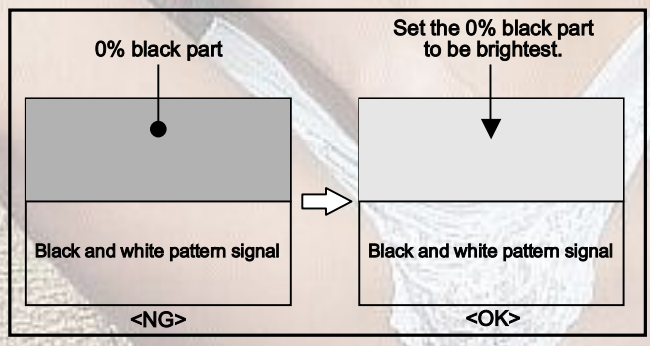



Fig.4

| | | | | |
|---|---|---|---|---|
| **SUB CONTRAST** | Remote control unit<br><br>Signal generator | | [2. VC]<br>10. CONT (Contrast) | (1) Receive a PAL black and white pattern signal (colour off).<br>(2) Select "2. VC" from the SERVICE MENU.<br>(3) Adjust < 10. CONT > (Contrast) to set the white part to be white.<br>(4) Press the [OK] key to save the value. |

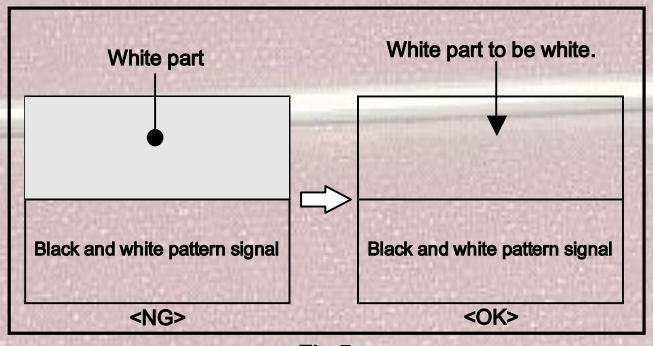



Fig.5

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **PAL/SECAM/ NTSC SUB COLOUR** | Remote control unit<br><br>Signal generator | | [2.VC]<br>13. COLOUR (Colour) | |

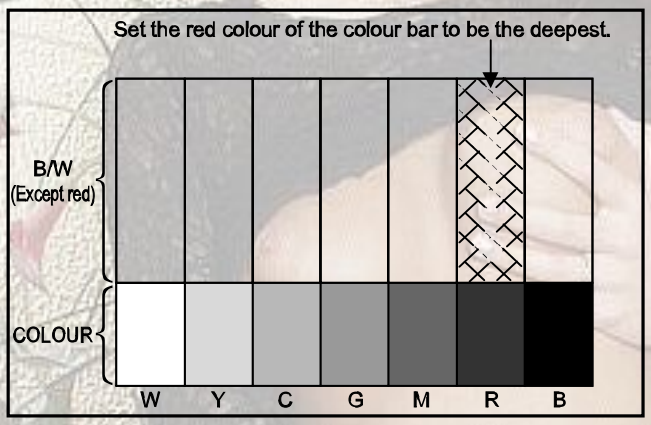



Fig.6

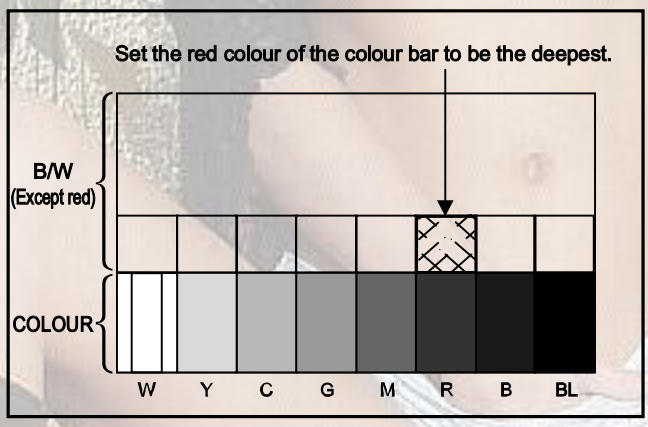



Fig.7

**- PAL COLOUR -**

(1) Receive a PAL colour bar signal (full field colour bar).
(2) Select "2. VC" from the SERVICE MENU.
(3) Adjust < 13. COLOUR > (Colour) to set the red colour of the colour bar signal to be the reddest. (See Fig.6) If noise is not completely deleted, adjust <13. COLOUR> so that the red colour has the minimum noise.

**NOTE:**

If you select an adjustment item < 13. COLOUR >, then the screen turns to an adjustment screen shown in Fig.6.

(4) Press the [OK] key to save the value.
(5) Press the [INFORMATION] key twice to the normalscreen.

**- SECAM COLOUR -**

(1) Receive a SECAM colour bar signal (half colour bar).
(2) Select "2. VC" from the SERVICE MENU.
(3) Make similar adjustment of SECAM COLOUR in the same way as for "PAL COLOUR". (See Fig.7)

**- NTSC COLOUR -**

(1) Input a NTSC 3.58 composite colour bar signal (full field colour bar 75% white).
(2) Select "2. VC" from the SERVICE MENU.
(3) Make similar adjustment of NTSC COLOUR in the same way as for "PAL COLOUR". (See Fig.6)
(4) Input a NTSC 4.43 composite colour bar signal (full field colour bar 75% white), and then check the red colour of the colour bar signal and confirm that there is no noise or the minimum noise.

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **SUB-SCREEN BRIGHTNESS** | Remote control unit<br><br>Signal generator | | [2. VC]<br>11. TWN BRG<br>(Sub-screen bright) | (1) Receive a PAL black and white pattern signal (including 0% black signal).<br>(2) Select "2. VC" from the SERVICE MENU.<br>(3) Adjust < 11. TWN BRG > (Sub-screen bright) to set the 0% black part in the sub (right) screen to be the brightest.<br>**NOTE:**<br>If you select an adjustment item < 11.TWN BRG >, then the screen automatically turns to twin pictures mode.<br>(4) Press the [OK] key to save the value. |

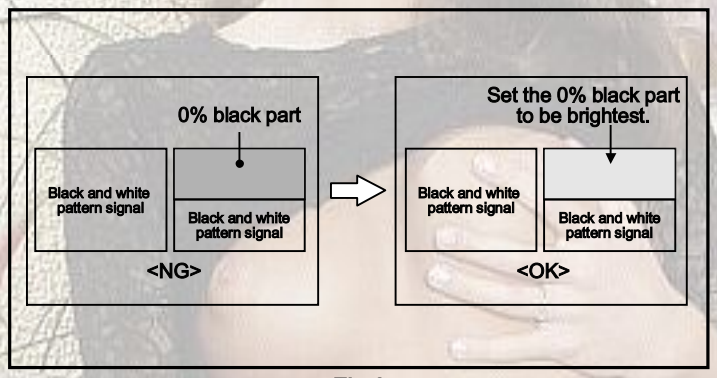



Fig.8

| | | | | |
|---|---|---|---|---|
| **SUB-SCREEN A-D OFFSET** | Remote control unit<br><br>Signal generator | | [2. VC]<br>7. TWN HI R<br>(Sub-screen high light red)<br>8. TWN HI B<br>(Sub-screen high light blue) | (1) Receive a PAL black and white pattern signal (including 0% black signal).<br>(2) Select "2. VC" from the SERVICE MENU.<br>(3) Adjust < 7.TWN HI R >(Sub-screen high light red) to minimize the red noise in the upper half of the sub (right) screen. (See Fig.9)<br>**NOTE:**<br>If you select an adjustment item < 7. TWN HI R >, then the screen automatically turns to twin pictures mode.<br>(4) Press the [OK] key to save the value.<br>(5) Adjust < 8.TWN HI B >(Sub-screen high light blue) to minimize the blue noise in the upper half of the sub (right) screen. (See Fig.9)<br>(6) Press the [OK] key to save the value. |

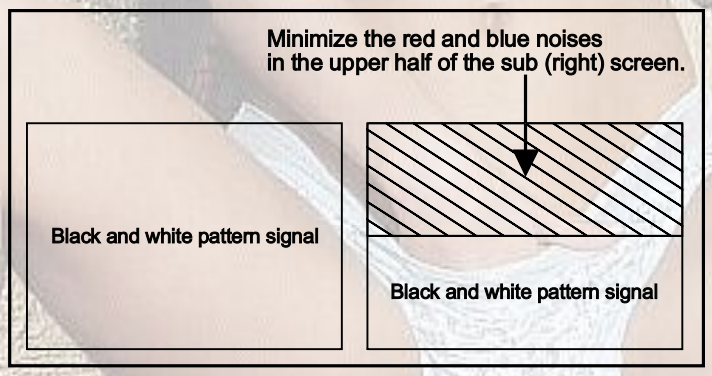



Fig.9

| | | | | |
|---|---|---|---|---|
| **SUB-SCREEN CONTRAST** | Remote control unit<br><br>Signal generator | | [2. VC]<br>12. TWN CNT<br>(Sub-screen contrast) | (1) Receive a PAL black and white pattern signal (colour off).<br>(2) Select "2. VC" from the SERVICE MENU.<br>(3) Adjust < 12. TWN CNT > (Sub-screen contrast) to set the white part in the sub (right) screen to be white.<br>**NOTE:**<br>If you select an adjustment item < 12.TWN CNT >, then the screen automatically turns to twin pictures mode.<br>(4) Press the [OK] key to save the value. |

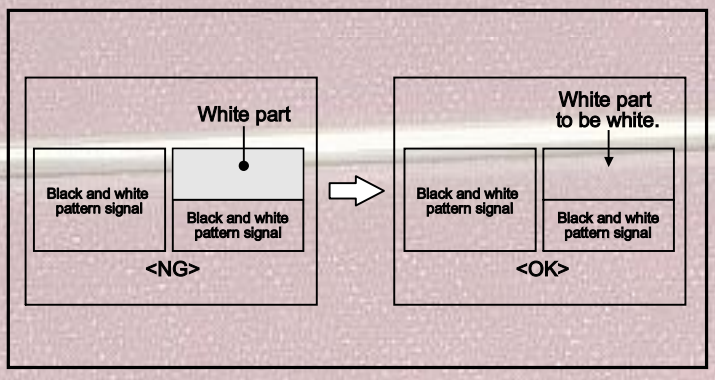



Fig.10

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **PAL/SECAM/ NTSC SUB-SCREEN COLOUR** | Remote control unit<br><br>Signal generator | | [2. VC]<br>16. TWN COL (Sub-screen colour) | **- SUB-SCREEN PAL COLOUR -**<br>(1) Receive a PAL colour bar signal (full field colour bar).<br>(2) Select "2. VC" from the SERVICE MENU.<br>(3) Adjust < 16. TWN COL > (Sub-screen colour) to set the red colour of the colour bar signal in the sub screen to be the reddest. (See Fig.11)<br>If noise is not completely deleted, adjust < 16. TWN COL > so that the red colour has the minimum noise.<br>**NOTE:**<br>If you select an adjustment item < 16.TWN COL >, then the screen automatically turns to twin pictures mode.<br>(4) Press the [OK] key to save the value.<br>(5) Press the [INFORMATION] key twice to the normal screen.<br><br>**- SUB-SCREEN SECAM COLOUR -**<br>(1) Receive a SECAM colour bar signal (half colour bar).<br>(2) Select "2. VC" from the SERVICE MENU.<br>(3) Make similar adjustment of SECAM COLOUR in the same way as for "SUB-SCREEN PAL COLOUR". (See Fig.12)<br><br>**- SUB-SCREEN NTSC COLOUR -**<br>(1) Input a NTSC 3.58 composite colour bar signal (full field colour bar 75% white).<br>(2) Select "2. VC" from the SERVICE MENU.<br>(3) Make similar adjustment of NTSC COLOUR in the same way as for "SUB-SCREEN PAL COLOUR". (See Fig.11)<br>(4) Input a NTSC 4.43 composite colour bar signal (full field colour bar 75% white), and then check the red colour of the colour bar signal and confirm that there is no noise or the minimum noise. |

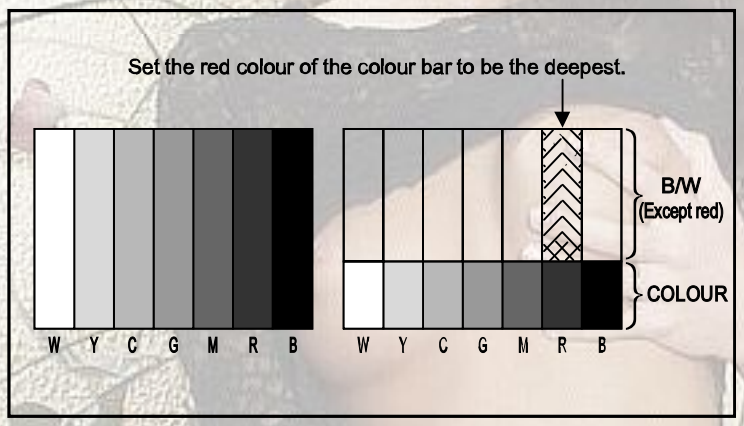



Fig.11

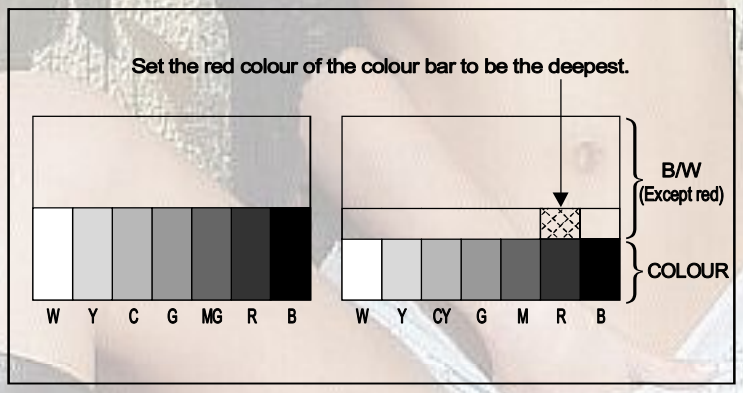



Fig12

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **WHITE BALANCE (HIGH LIGHT)** | Remote control unit<br><br>Signal generator | | [2. VC]<br>S13: R GAIN<br>S15: G GAIN<br>S17: B GAIN | (1) Receive a PAL 75% all-white signal.<br>(2) Set colour temperature to "NORMAL."<br>(3) Select "2. VC" from the SERVICE MENU.<br>(4) Fix one of < S13 > (R GAIN), < S15 > (G GAIN), or < S17 > (B GAIN). Then, lower the other two that are not fixed so that the all-white screen is equally white throughout.<br>**NOTE:**<br>Set one or more of < S13 >, < S15 >, and < S17 > to 255.<br>(5) Check that white balance is properly tracked from low light to high light.<br>If the white balance tracking is deviated, adjust to correct it.<br>(6) Press the [OK] key to save the value. |
| **OSD OFFSET** | Remote control unit<br><br>Signal generator | | [4.DD/CM]<br>OSD-G<br>(OSD green offset)<br>OSD-B<br>(OSD blue offset)<br>OSD-R<br>(OSD red offset) | (1) Input a picture whose signal (synchronization state) is stable.<br>(2) Select "4. DD/CM" from the SERVICE MENU.<br>(3) Select < OSD-G > (OSD green offset). If you select < OSD-G >, then the screen turns to OSD adjustment mode. (See Fig.13)<br>(4) Adjust < OSD-G >, < OSD-B > (OSD blue offset), and < OSD-R > (OSD red offset) so that OSD background is in the same colour as its surroundings.<br>When the background is in green, fix < OSD-G > and adjust the other two.<br>When the background is in blue, fix < OSD-B > and adjust the other two.<br>When the background is in red, fix < OSD-R > and adjust the other two.<br>(5) Press the [OK] or [MENU] key to save the value.<br>(6) Check that there is no noise such as horizontal noise.<br>(7) If noise is detected, lower < OSD-G >, < OSD-B >, and < OSD-R > by one level so that no noise is detected. |

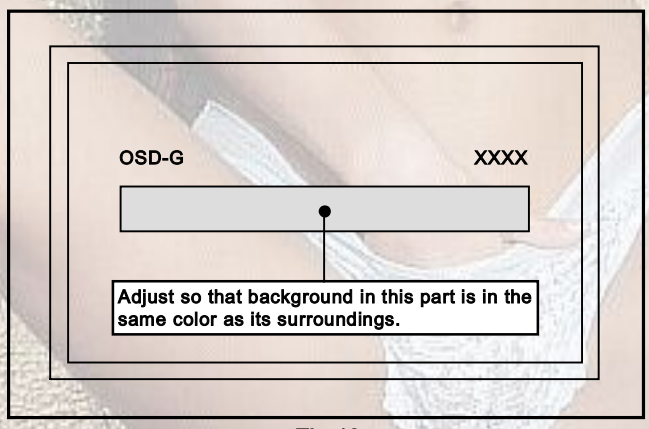



Fig.13

# SECTION 5
# TROUBLESHOOTING

## 5.1 SELF-DIAGNOSIS FEATURE

### 5.1.1 OUTLINE

This model has a "Self-diagnosis function," which checks the operation state of the circuits and informs us of a failure by flashing POWER LED when a failure occurs.
Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time.
Failure detection is based on input state of I2C bus and the various control lines connected to the main microcomputer.

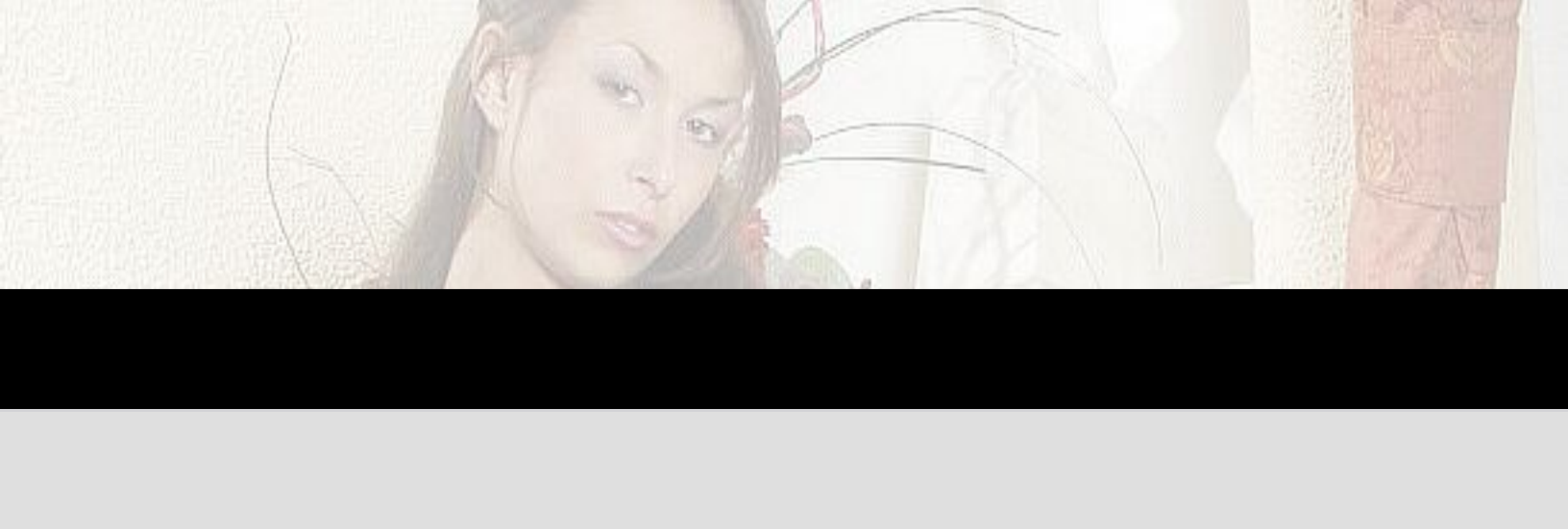
### 5.1.2 POINTS TO NOTE WHEN USING THE SELF-DIAGNOSIS FEATURE

POWER LED may flash to inform us of a failure in the following cases, in addition to when circuit failure occurs.
(1) Temporary defective transmissions across circuits due to pulse interruptions.
(2) Misalignment in the on/off timing of power for I2C bus (Vcc) when turning on/off the main power.

### 5.1.3 DETAILS

Self-diagnosis is performed for the following items

| Type of error | Detection part | Receiver unit | | Display unit | | Detection timing | Unit |
|---|---|---|---|---|---|---|---|
| | | Colour of LED | State of POWER LED | Colour of LED | POWER LED flash cycle | | |
| Low bias (2.5V / 3.3V / 5V / 9 V) line short | D992<br>D993<br>D994<br>D995<br>D996<br>[MAIN PWB] | RED | Light | RED | Flash1.0second / Out1.0second | Detection is performed every 150ms.<br>If nine or more consecutive errors are detected, the power is turned off (and turns to stand-by state). | Receiver |
| Abnormal rise of temperature in audio part of Display unit | TH6671<br>[AUDIO PWB] | RED | Flash every 1.0 second | RED | Flash0.1second / Out0.1second | Detection is performed every 1 second.<br>The power is turned off if the temperature sensor operates for 10 seconds or longer. | Display |
| Abnormal power supply in PDP (PANEL) (shortcircuit etc.) | [PDP UNIT] | RED | Flash every 1.0 second | GREEN | Flash0.1second / Out1.0second | Detection starts 5 seconds after the power is turned on.<br>Detection is performed every 16mS.<br>The power is turned off if NG continues for 700mS. | Display |
| Abnormal rise of internal temperature in Display unit | [PDP UNIT] | RED | Flash every 1.0 second | GREEN | Flash0.1second / Out0.1second | Detection starts 5 seconds after the power is turned on.<br>Detection is performed every 16mS.<br>The power is turned off if NG continues for 300mS. | Display |
| Abnormal power supply voltage (5V/Vs/Vd) | [PDP UNIT] | | | | | | |
| Abnormal operation of PDP (PANEL) | [PDP UNIT] | RED | Flash every 1.0 second | GREEN | Flash1.0second / Out1.0second | Detection starts 5 seconds after the power is turned on.<br>Detection is performed every 16mS.<br>The power is turned off if NG continues for 2000mS. | Display |
| Abnormal rise of temperature in power supply part of Display unit | IC8101<br>[TEMP. SENSOR PWB] | RED | Flash every 1.0 second | GREEN | Flash2.0second /Out2.0second | Detection is performed every 0.5 second.<br>If a temperature rises beyond the temperature predetermined for detection of error over the predetermined permissible times the power is turned off. | Display |



JVC

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Printed in Japan
WPC

ENGLISH
DEUTSCH
FRANÇAIS

# PD-42V31BUE
# PD-42V31BJE
# PD-42V31BSE

## PDP COLOUR TELEVISION

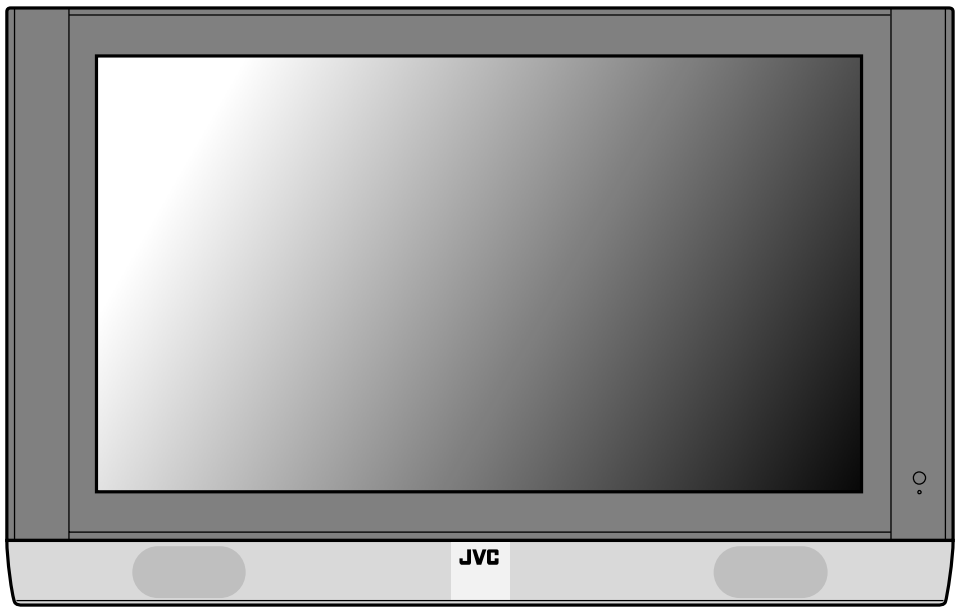
INSTRUCTIONS

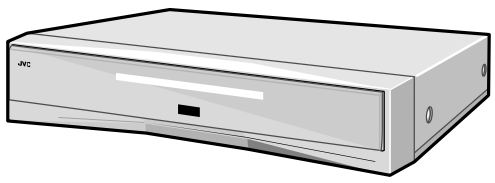
PDP FARBFERNSEHGERÄT

BEDIENUNGSANLEITUNG

PDP TELEVISEUR COULEUR

MANUEL D'INSTRUCTIONS





D.I.S.T.
Digital Image Scaling Technology

InteriArt

T-V LINK

*plain English approved*
by the word centre

## Warning

**DO NOT cut off the mains plug from this equipment.** If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adaptor or consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If a new mains plug has to be fitted, then follow the instruction given below:

### Important

**Do not** make any connection to the larger terminal which is marked with the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:
Blue: Neutral
Brown: Live

As these colours may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

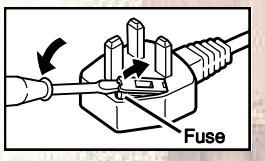
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

When replacing the fuse, use only a correctly rated approved type and always re-fit the fuse cover.

## If in doubt — consult a competent electrician.

### How to replace the fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.




---

## Guidelines for safe operation

This equipment has been designed and manufactured to comply with international safety standards. However, as with any electrical appliance, care must be taken to ensure optimal results and operational safety.

- Before attempting to use this equipment, read the operating instructions thoroughly.
- Ensure that all electrical connections (including the mains plug, extension leads, etc.) have been made in accordance with the manufacturer's instructions.
- If ever in doubt about the installation, operation or safety of this equipment, consult your dealer.
- Handle all glass panels or covers with care.
- Never operate this equipment if it appears damaged or operates abnormally. Turn the power off, disconnect the main power plug and consult your dealer.
- Never remove any affixed panels or covers. Doing so may result in electrical shock.
- Never leave this equipment operating unattended unless otherwise specifically stated that it is designed to do so or in standby mode. Only use the designated power switch to turn off the power and ensure that all potential users are instructed how to do so. Make special arrangements for infirm or handicapped persons.
- Never watch TV while operating a motor vehicle. It is illegal to watch TV while driving.
- Never listen to headphones at high volume. Doing so may damage your hearing.
- Never obstruct the ventilation of this equipment. Doing so may cause overheating and result in a malfunction or damage.
- Never use makeshift stands or attempt to affix legs with wood screws. When using a manufacturer's approved stand or legs, use only the fixtures provided and follow the installation instructions.
- Never allow this equipment to be exposed to rain or moisture.
- Never allow anyone, especially children, to insert anything into an opening in the case. Doing so may result in a fatal electrical shock.
- Never guess or take chances with electrical equipment of any kind. It is better to be safe than sorry.

Thank you for buying this JVC colour television.
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

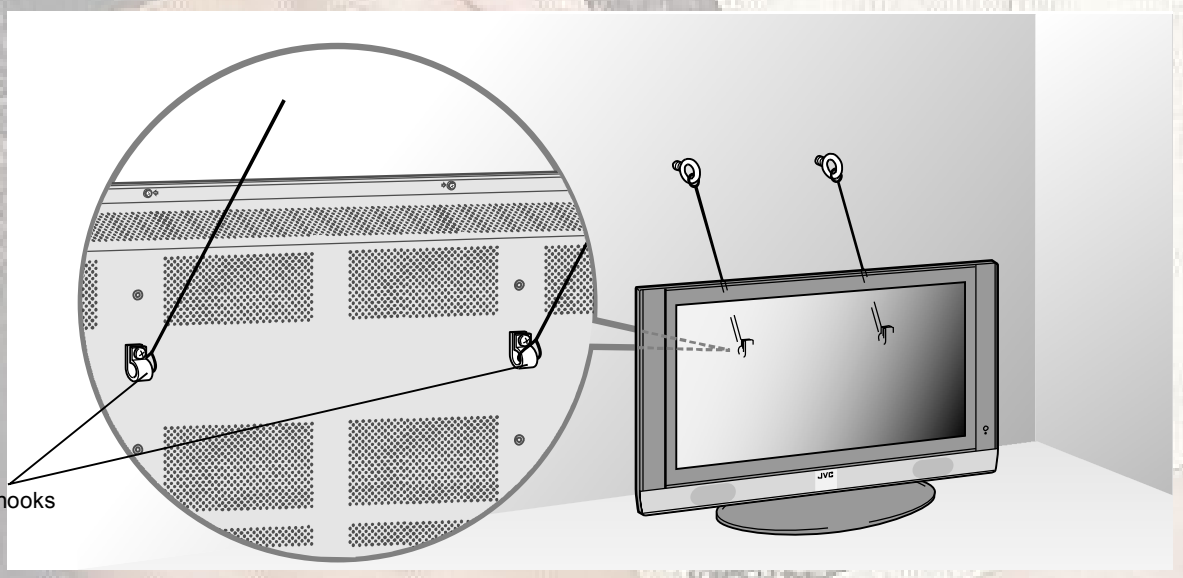
## WARNING

Always use the power cords which are supplied with the TV and receiver.
Some power cords are supplied with this TV. Use the power cord which best suits the area in which you live, and insert it into a correctly earthed outlet.
Failure to use the supplied power cord or to insert it into a correctly earthed outlet may result in electric shocks.

## WARNING FOR TABLE TOP STAND:

To ensure safety in an emergency such as an earthquake, and to prevent accidents, ensure that measures are taken to prevent the TV dropping or falling over.

- Use the supplied screws to firmly attach the supplied hooks to the back of the TV, and use commercially available cord to fix the TV to rigid components such as walls and columns.



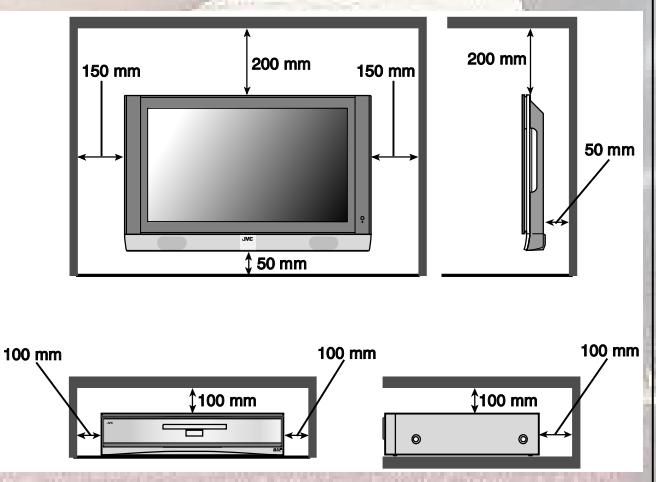

ENGLISH

## CAUTION:

- Operate only from the power source specified (AC 110 – 240 V, 50/60 Hz) on the unit.
- Avoid damaging the AC plug and power cord.
- When you are not using this unit for a long period of time, it is recommended that you disconnect the power cord from the main outlet.
- The ambient temperature for using this unit is 0° to 40°C (32° to 104°F). Using the unit outside of this range may lead to it not working correctly or being broken.

## Distance recommendations

Avoid improper installation and never position the unit where good ventilation is impossible.
When installing this TV, distance recommendations must be maintained between the set and the wall, as well as inside a tightly enclosed area or piece of furniture.
Keep to the minimum distance guidelines shown for safe operation.



## Burn-in

A characteristic of Plasma Display Panels (PDPs) is that displaying the same image for a long time causes a part of the image to stay on the screen (this is called phosphor burn-in).

### Avoid burn-in as follows.

■ **Use the PICTURE SHIFT function. To prevent burn-in, the picture displayed on the screen is shifted up, down and to the left and right at regular intervals. See page 30 for details.**

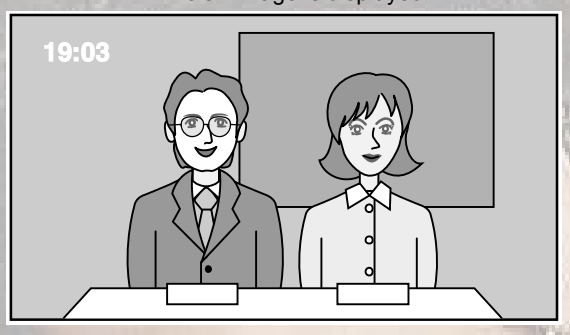
- Even if the PICTURE SHIFT function is turned off, the picture may shift to the left or right when the channel or input is changed.

■ **The PICTURE MODE function is initially set to BRIGHT. Unless the TV is being watched in an extremely bright room, it is recommended to change the PICTURE MODE setting to either STANDARD or SOFT. Doing so will reduce the chance of PDP burn-in and extend the life of the PDP. See "PICTURE MODE" on page 21**

■ **Do not display static images or characters for long periods of time.**

Burn-in example

While an image is displayed




With power OFF

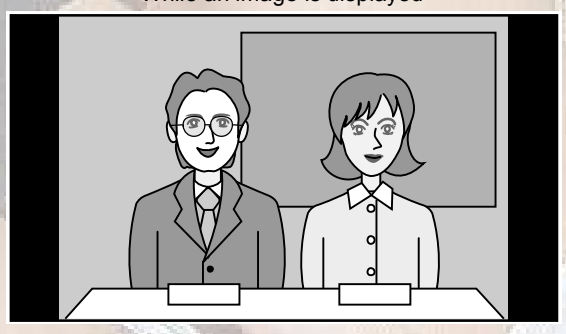
- Reduce CONTRAST and BRIGHT on the PICTURE SETTING menu (page 21) when viewing.

■ **Do not view for long periods of time in the REGULAR mode (page 15).**

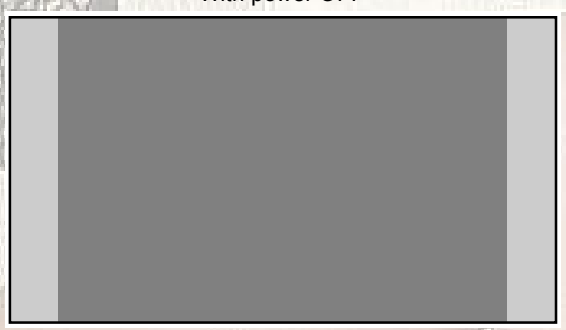
Screen size is normally chosen to ensure that the picture is displayed on the entire screen. After viewing in the REGULAR mode in which black bands may occur at the left and right of the screen, it is recommended to change to the PANORAMIC mode to display the picture on the entire screen.

Burn-in example

While an image is displayed



With power OFF



■ **Do not view for long periods of time using the PIP function (page 16) or MULTI-PICTURE function (page 17).**

### If Burn-in has occurred

If burn-in occurs, try the REFRESH function (page 30). If burn-in is minimal it may gradually become less noticeable.
**Note:Once burn-in occurs it will never disappear completely.**

### Pixel defects

PDPs use collections of fine dots ("pixels") to display images. While there is no problem with more than 99.99% of these pixels, please understand that a very small number of pixels may not light, or may light all the time.

### Do not install the TV near electronic equipment that is susceptible to electromagnetic waves

It may cause interference in images, sound, etc. In particular, keep video equipment away from this product.

### Effect on infrared devices

There may be interference while using infrared devices such as infrared cordless headphones.

### Failure to heed the following precautions may result in damage to the TV or remote control.

**DO NOT block the TV's ventilation openings or holes.**
(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
**DO NOT place anything on top of the TV.**
(such as cosmetics or medicines, flower vases, potted plants, cups, etc.)
**DO NOT allow objects or liquid into the cabinet openings.**
(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)
**DO NOT place any naked flame sources, such as lighted candles, on the TV.**

The surface of the TV screen is easily damaged. Be very careful with it when handling the TV.
Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it hard.
Never use any cleaner or detergent on it.

In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

### D.I.S.T. demonstration

To start the D.I.S.T. demonstration:
Press the **OK** button to display the MENU (main menu). Then press the yellow button.
A picture split in two (D.I.S.T. turned on and D.I.S.T. turned off) will appear on the screen.

To quit the D.I.S.T. demonstration:
Press the yellow button, ***TV*** button, P ∨/∧ buttons or any of the number buttons.

# CONTENTS


**Checking contents of packages.....5**

**Setting up your TV.....6**

Installation.....6
Putting the batteries into the Remote control.....6

**Connections.....7**

Connection diagram.....7
Connecting the TV and receiver.....8
Connecting the aerial and video cassette recorder (VCR).....8
Connecting the power cord to the AC outlet.....9

**Initial settings.....10**

T-V LINK functions.....11

**TV buttons and functions.....12**

Turn the TV on from standby mode.....12
Choose a TV channel.....12
Watch images from external devices.....12
Adjust the volume.....12
Using the headphone.....12
Using the Menu.....12

**Remote control buttons and functions.....13**

Turn the TV on or off from standby mode.....13
Choose a TV channel.....13
Adjust the volume.....14
Watch images from external equipment.....14
ZOOM function.....15
3D SOUND function.....15
Displaying the current time.....16
Return to TV channel instantly.....16
Using the FREEZE function.....16
Using the PIP function.....16
Using the MULTI-PICTURE function.....17
Operating a JVC brand VCR or DVD player.....17

**Teletext function.....18**

Basic operation.....18
Using the List Mode.....18
Hold.....18
Sub-page.....19
Reveal.....19
Size.....19
Index.....19
Cancel.....19

**Using the TV's menu.....20**

Basic operation.....20

**PICTURE SETTING.....21**

PICTURE MODE.....21
Picture Adjustment.....21
COLOUR TEMP.....21

**PICTURE FEATURES.....22**

DIGITAL VNR.....22
Super DigiPure.....22
COLOUR SYSTEM.....23
MOVIE THEATRE.....23
4:3 AUTO ASPECT.....23
COLOUR MANAGEMENT.....23
PIP (picture-in-picture).....24

**SOUND SETTING.....25**

STEREO / I • II.....25
Sound Adjustment.....25
SPEAKER.....25
BBE.....25
3D SOUND.....25
A.H.B. (Active Hyper Bass).....25
HEADPHONE.....26

**EXT SETTING.....27**

S-IN (S-VIDEO input).....27
ID LIST.....27
DUBBING.....27

**FEATURES.....29**

SLEEP TIMER.....29
BLUE BACK.....29
CHILD LOCK.....29
DECODER (EXT-2).....30
REFRESH.....30
PICTURE SHIFT.....30

**INSTALL.....31**

LANGUAGE.....31
AUTO PROGRAM.....31
EDIT/MANUAL.....32

**Additional menu operations.....35**

Using the ACI function.....35
Downloading data to a VCR.....35
Changing the COUNTRY setting.....36
Using the DECODER (EXT-2) function.....36

**Additional preparation.....37**

Connecting external equipment.....37

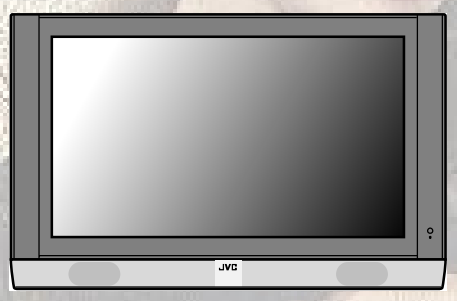
**CH/CC numbers.....39**

**Troubleshooting.....40**

**Specifications.....42**

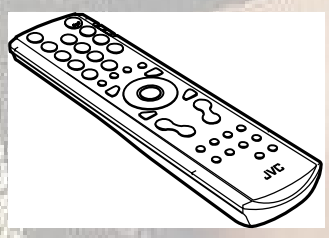
# Checking contents of packages

Check that all components are present. Contact your retailer immediately if any components are missing.

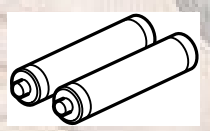


TV

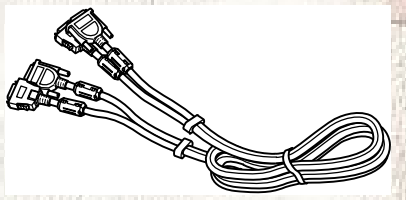
Receiver



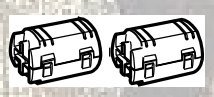
Remote control

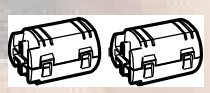


AA/R6-size batteries
(used to check operation)



System cable





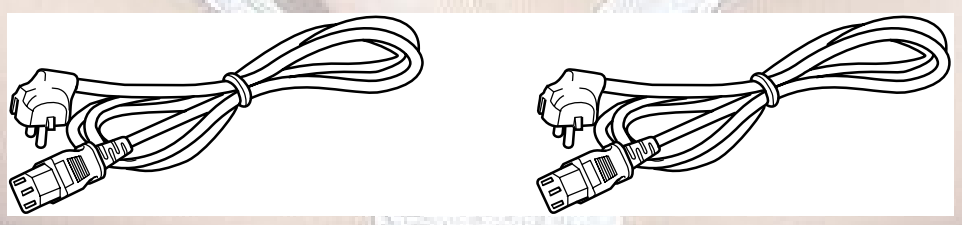
Ferrite core × 4

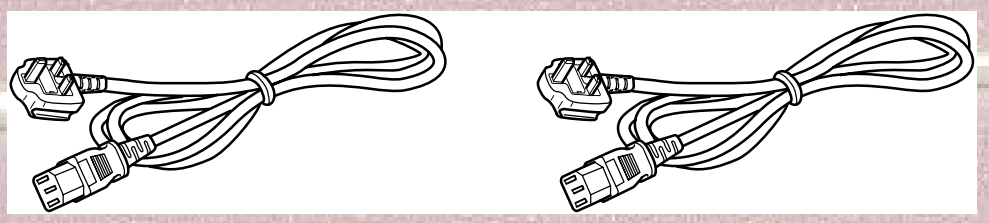
Mounting screw × 2

Hook × 2

**Power cord**

- One of the power cords below, suitable for your area, will be included with your TV.





- Some models come with a stand or wall-mounting fixtures.

# Setting up your TV

**Be sure to have someone help you when you lift up the TV. The TV is too heavy to lift up by yourself. If the TV falls, it will cause injuries and damage.**

## Installation

■ **Depending on the model, the TV may come with a wall mounting unit or table top stand. If so, a separate instruction manual is provided. Read that instruction manual and install the TV correctly.**

- For models which are supplied without a wall mounting unit or table top stand, or when using another unit to install the TV, only use JVC units which were designed for this TV.

### Warning for wall mounting unit:

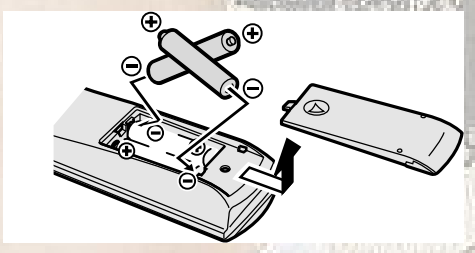
- Use only authorized service personnel to install your TV in order to prevent accidents. Do not try to install your TV by yourself.
- We sell this product on the understanding that it will be assembled and installed by qualified service personnel.
- Please read the instruction manual for the wall mounting unit before starting installation in order to prevent accidents.
- We are not liable for any damage caused by faulty assembly, faulty wall mounting, insecure wall mounting, misuse, alterations, or natural disasters.

#### Cautions for installation

- Do not tilt the TV towards the left or right, or towards the back.
- Install the TV in a corner on a wall or on the floor so as to keep cords out of the way.
- The TV will generate a slight amount of heat during operation. Ensure that sufficient space is available around the TV to allow satisfactory cooling. See “Distance recommendations” on page 1

## Putting the batteries into the Remote control

Use two AA/R6 dry cell batteries.
Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.



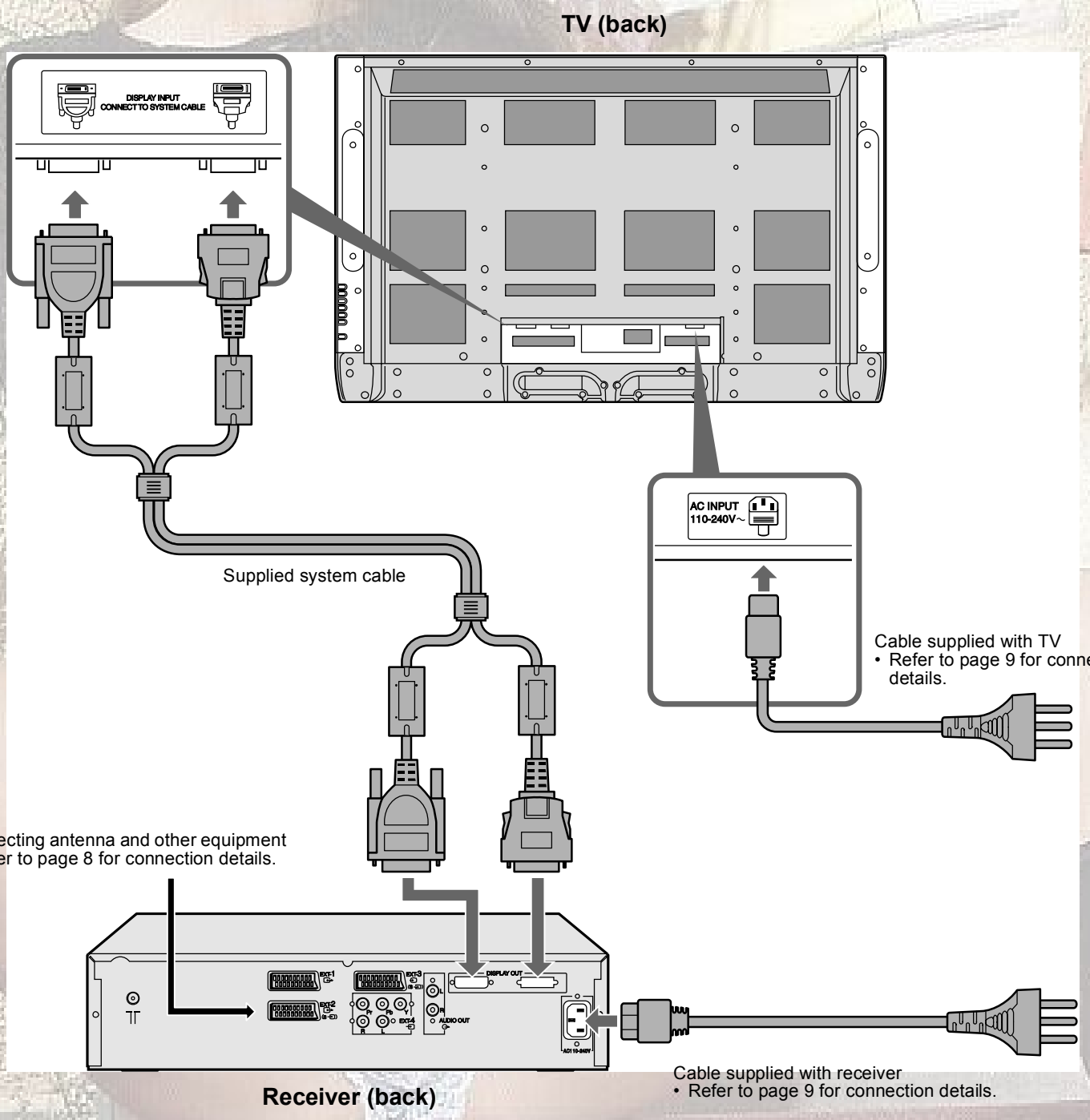
- Follow the warnings printed on the batteries.
- Battery life is about six months to one year, depending on your frequency of use.
- The batteries we supply are only for setting up and testing your TV, please replace them as soon as you need to.
- If the remote control does not work properly, replace the batteries.

# Connections

**Caution**

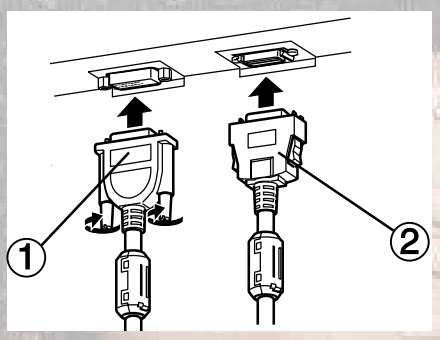
- Turn off all equipment including the TV before connecting anything.

## Connection diagram



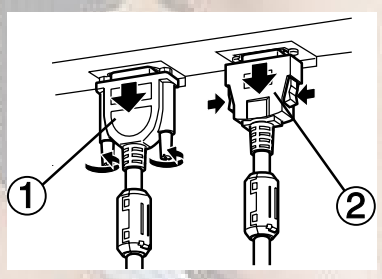
## Connecting the TV and receiver

Use the supplied system cable to connect the TV to the receiver.
The two connectors are of different shapes.
Ensure that the pins on connector ① are oriented correctly, press the connector into the socket, and tighten the screws at left and right to lock it in place.
Press connector ② firmly into place until it is locked.




### Disconnecting the system cable

Release connector ① by unscrewing the screws at left and right and removing it from the socket.
Release connector ② by removing it from the socket while pressing the release bottoms on either side.




## Connecting the aerial and video cassette recorder (VCR)

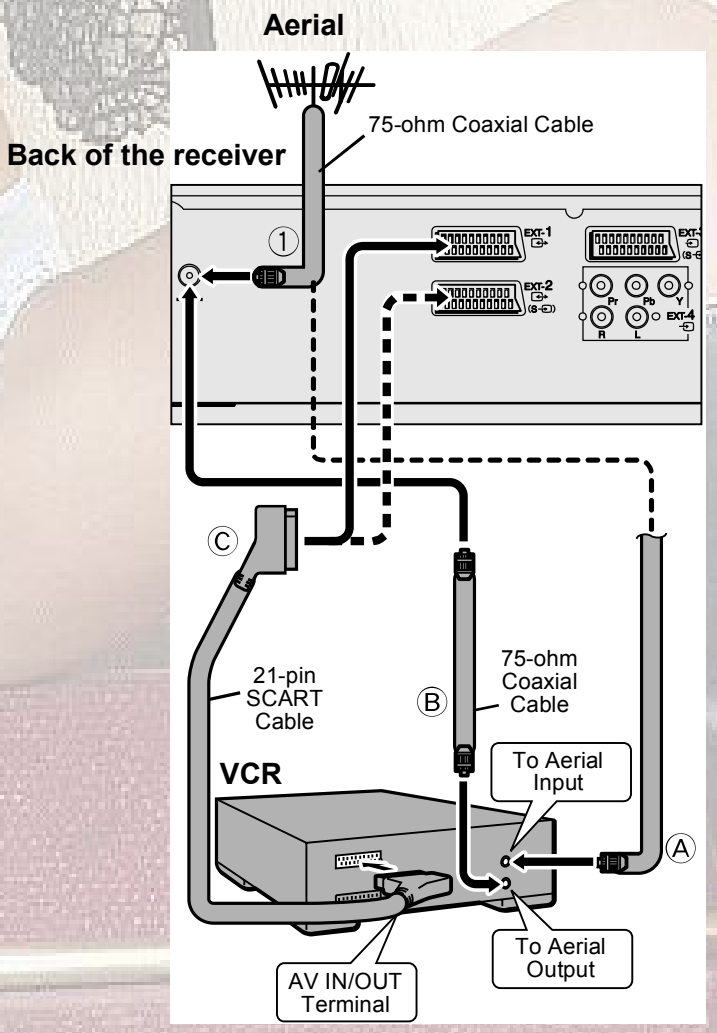
- The connecting cables are not provided.
- For further details, refer to the manuals provided with the devices to be connected.

■ **If you are connecting a VCR, follow Ⓐ → Ⓑ → Ⓒ in the diagram opposite.**

■ **If you are not connecting a VCR, follow ①.**

To use the T-V LINK functions, you must have a T-V LINK compatible VCR connected by a SCART cable Ⓒ to the EXT-2 terminal on the TV. For details about T-V LINK functions, see “T-V LINK functions” on page 11.

- You can watch a video using the VCR without doing Ⓒ. For details, see your VCR instruction manual.
- To connect more equipment, please see “Connecting external equipment” on page 37.
- To connect additional audio equipment, see “Connecting Speakers/Amplifier” on page 38.
- If you connect a decoder to a T-V LINK compatible VCR, set the DECODER (EXT-2) function to ON. For details, see “Using the DECODER (EXT-2) function” on page 36.
  Otherwise, you will not be able to watch scrambled channels.



## Connecting the power cord to the AC outlet

Insert the AC plugs on the power cords from the TV and receiver into AC outlets.

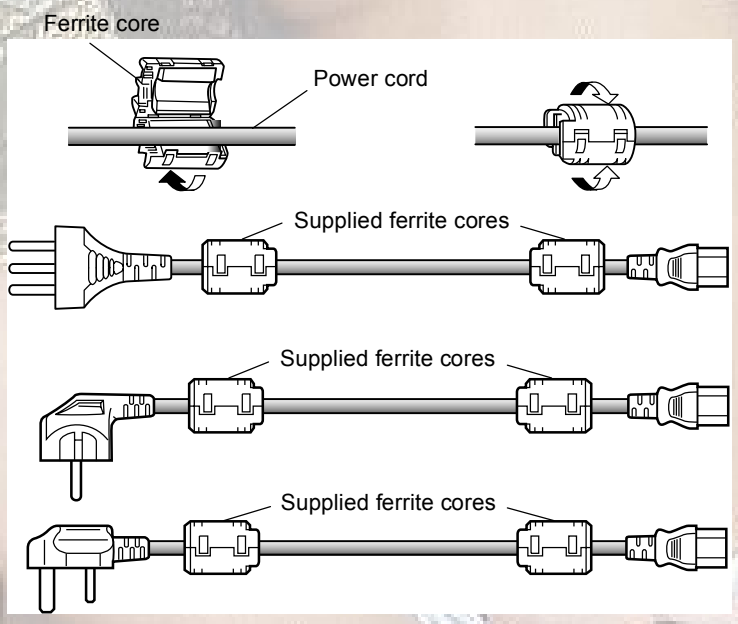
### Caution

- Operate only from the power source specified (AC 110 – 240 V, 50/60 Hz) on the unit.
- Failure to use the supplied power cord or to insert it into a correctly earthed outlet may result in electric shocks.

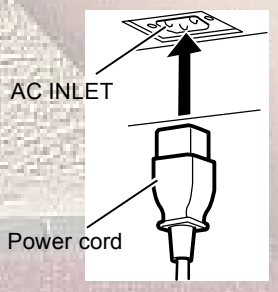
Use the supplied power cord which best suits the area in which you live.

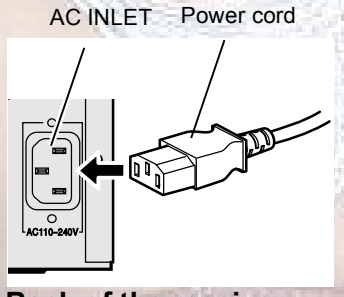
**Attaching the ferrite cores**

Attach ferrite cores to the power cord.
Using the power cord without ferrite cores may lead to noise (interference).
Open the ferrite core, insert the power cord and close the ferrite core.
Attach a ferrite core to each end of the power cord.



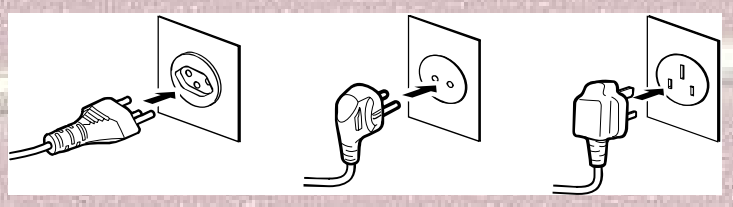

**Back of the TV**




**Back of the receiver**

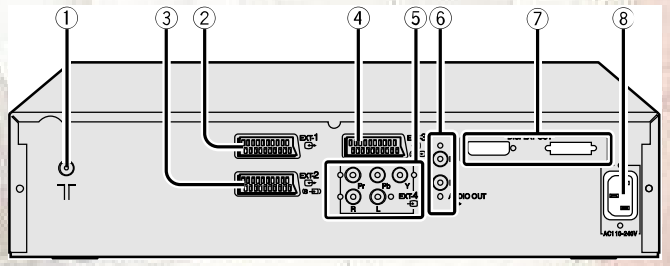
Insert the AC plug into a correctly earthed outlet.



The receiver power lamp lights red, and the receiver is in the standby mode, when the AC plug on the power cord is connected to an AC outlet.

- Remove the AC plug from the outlet to completely disconnect the TV from the power supply.

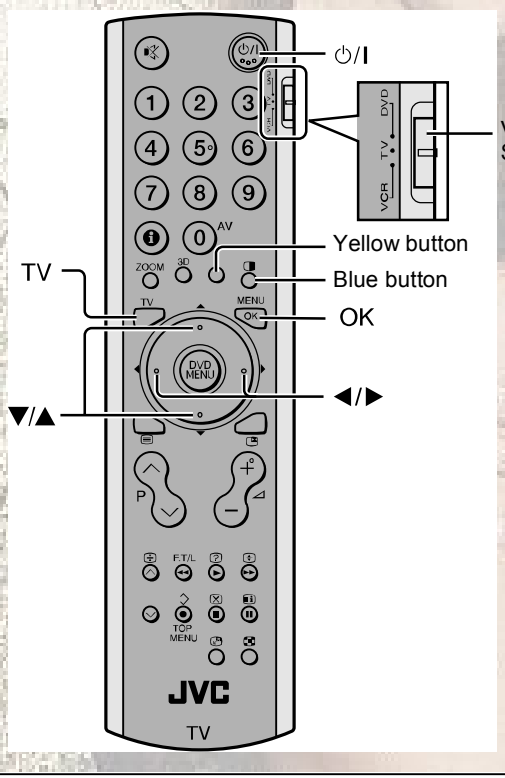
### ■ Receiver (back)




① Aerial socket (page 8)
② EXT-1 terminal (pages 8, 27, 37)
③ EXT-2 terminal (pages 8, 11, 27, 37)
④ EXT-3 terminal (pages 27, 37)
⑤ EXT-4 terminal (pages 27, 37)
⑥ AUDIO OUT terminal (page 38)
⑦ DISPLAY OUT terminal (page 8)
⑧ AC INLET (page 9)

# Initial settings

When the TV is first turned on, it enters the initial setting mode, and the JVC logo is displayed. Follow the instructions on the on-screen display to make the initial settings.




**1 Make sure you set the VCR/TV/DVD switch to the TV position.**

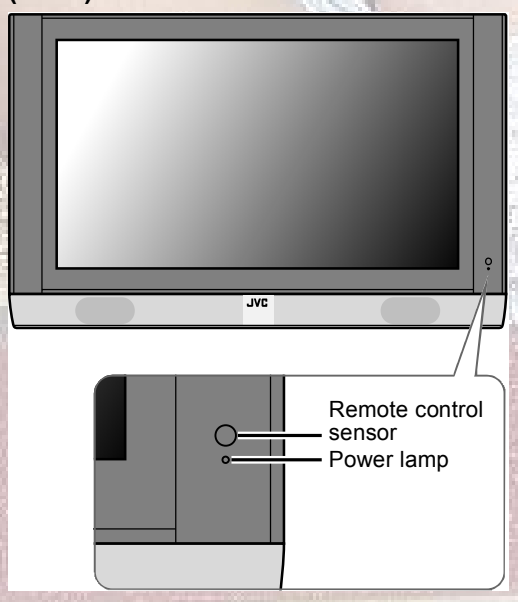
- You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

**2 Press the ⏻/I button on the remote control**

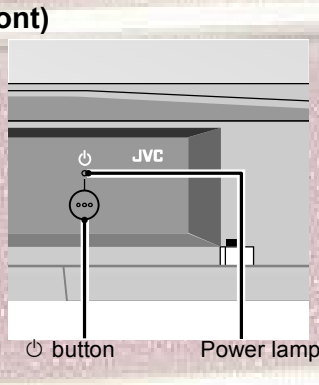
The receiver power lamp changes from red to green. After a short interval the TV power lamp lights green and the JVC logo is displayed.

- Check that the AC plugs on the power cords from the TV and receiver are connected to AC outlets.

**TV (front)**




**Receiver (front)**



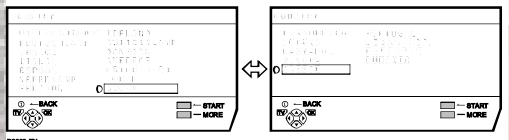

- If the power lamp stays red and does not change to green:
  Your TV is in the standby mode. Press the ⏻/I (Standby) button again to turn your TV on.
- If the JVC logo does not appear this is because your TV has already been turned on for the first time: use the "LANGUAGE" and "AUTO PROGRAM" functions to make the initial settings. For details, see "INSTALL" on page 31.

**3 Press the OK button**

The LANGUAGE menu appears.

**4 Press the ◀/▶ and ▼/▲ buttons to choose ENGLISH. Then press the OK button**

The on-screen display will then be in English.
The COUNTRY menu appears as a sub-menu of the AUTO PROGRAM function.
There are two COUNTRY menus. Pressing the yellow button changes the COUNTRY menu as follows:



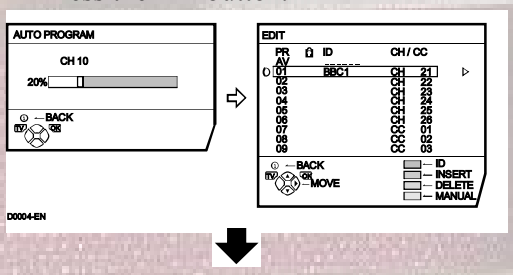
**5 Press the ◀/▶ and ▼/▲ buttons to choose the country where you are**

- **For uses in the UK:**
  To receive SKY 1 you need a satellite tuner. You must have the satellite tuner set to SKY 1 before starting the AUTO PROGRAM function which follows.

**6 Press the blue button to start the AUTO PROGRAM function**

The AUTO PROGRAM menu appears and received TV channels are automatically stored in the programme numbers (PR).

- To cancel the AUTO PROGRAM function:
  Press the ***TV*** button.

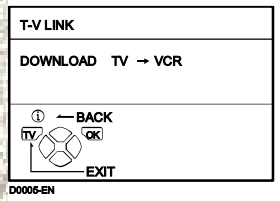



**After the TV channels have been registered in the programme numbers (PR), the EDIT menu appears**

- If you want to, you can now edit the programme numbers (PR) using the EDIT/MANUAL function. For details, see "EDIT/MANUAL" on page 32.
- If you do not want to edit programme numbers (PR), go to the next step.

**If "ACI START/ACI SKIP" appears in the AUTO PROGRAM menu:**
You can use the ACI (Automatic Channel Installation) function to decode the ACI data and complete the registration of all the TV channels quickly. For details of the ACI function and how to use it, see "Using the ACI function" on page 35.
If you don't want to use the ACI function, press the ▼/▲ buttons to choose ACI SKIP and then press **OK**.

**7 Press the OK button to display the T-V LINK menu**




**8 If you do not have a T-V LINK compatible VCR connected:**
Press the ***TV*** button to exit the T-V LINK menu.
The T-V LINK menu disappears.

**If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:**
Follow the operating procedure "Downloading data to a VCR" on page 35 to transmit the programme number (PR) data.

**Now, the initial settings are complete, and you can watch the TV**

- **When the COUNTRY setting is UNITED KINGDOM:**
  BBC1, BBC2, ITV, Channel 4 and Channel 5 are automatically set to the programme numbers PR1 to PR5. If the TV doesn't receive one of these TV channels, that programme number (PR) will not be set. Programme number PR6 is not normally set.
- **When the COUNTRY setting is not UNITED KINGDOM:**
  If your TV can detect the TV channel name from the TV channel broadcast signal, the TV channel name is assigned to the programme number (PR) to which the TV channel has been set. However, which TV channels are set to which programme numbers (PR) will depend on the area in which you live.
- If a TV channel you want to view is not set to a programme number (PR), you can set it using the MANUAL function. For details, see "EDIT/MANUAL" on page 32.
- The AUTO PROGRAM function does not set the programme number PR 0 (AV) for your video cassette recorder. You will need to set this using the MANUAL function.
- In some areas you may get TV reception from more than one transmitter, for example different ITV regions. In this case each TV channel could be set twice. If this happens, the first set of channels will have the stronger signal. If you want to delete the second set of channels, you will have to do it manually (see page 34).

**For users in the UK:**
If you have any problems setting up your new TV, please call the **JVC** Helpline on **0870 330 5000.**

**For users in the Republic of Ireland:**
If you have any problems setting up your new TV, please call the **JVC** Helpline on **1890-582500.**

## T-V LINK functions

When you have a T-V LINK compatible VCR connected to the EXT-2 Terminal on the TV, it is easier to set up the VCR and to view videos. T-V LINK uses the following features:

**To use T-V LINK functions:**
A "T-V LINK compatible VCR" means a JVC video cassette recorder with the T-V LINK logo, or with one of the following logos. However, these VCRs may support some or all of the features described earlier. For details, see your VCR instruction manual.
"Q-LINK" (a trademark of Panasonic Corporation)
"Data Logic" (a trademark of Metz Corporation)
"Easy Link" (a trademark of Phillips Corporation)
"Megalogic" (a trademark of Grundig Corporation)
"SMARTLINK" (a trademark of Sony Corporation).

### ■ Pre-set download

The VCR will automatically download the registered data on the TV channels from the TV. This means you do not need to set up the program channels on your VCR manually.
The preset download function automatically begins when the initial setting is complete or whenever you carry out the AUTO PROGRAM or EDIT/MANUAL functions.

You can also carry out this function using your VCR controls.

**When "FEATURE NOT AVAILABLE" is displayed:**
If "FEATURE NOT AVAILABLE" is displayed, the download was not performed correctly. Before trying to download again, check that:

- the VCR power is turned on
- the VCR is T-V LINK compatible
- the VCR is connected to the EXT-2 terminal
- the SCART cable is fully wired.

### ■ Direct Rec

"What You See Is What You Record"

You can easily record to VCR the images that you are watching on the TV.

For details, read the manual for your VCR.
Use your VCR controls. "VCR IS RECORDING" is displayed.

**In the following situations, the VCR will stop recording if the TV is turned off, if the TV channel or input is changed, or if the menu is displayed on the TV:**

- when recording images from an external device connected to the TV (for example a camcorder)
- when recording a TV channel after it has been unscrambled on a decoder
- when recording a TV channel by using the TV's output because the VCR's own tuner cannot properly receive that channel.

When the VCR is not ready (for example when there is no tape inserted), "NO RECORDING" is displayed.
You cannot carry out Direct Rec using your TV's control.
Generally, the VCR cannot record a TV channel that it cannot receive properly on its own tuner, even if you can view that TV channel on the TV. However, some VCRs can record a TV channel by using the TV's output if that channel can be viewed on the TV. For details, see your VCR instruction manual.

### ■ TV auto power on/VCR image view

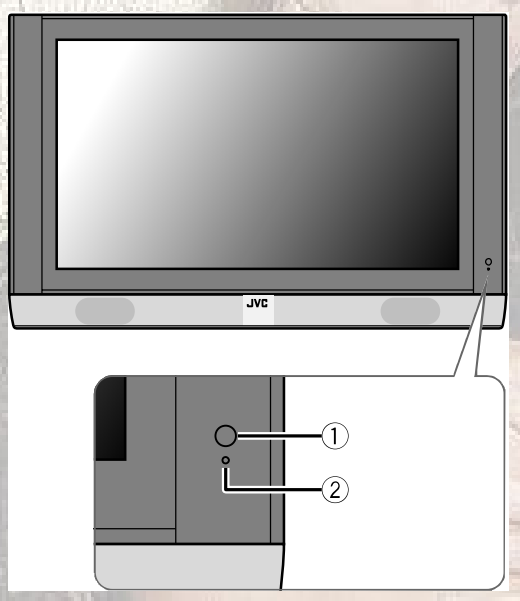
When the VCR starts playing, the TV automatically turns on and the images from the EXT-2 terminal appear on the screen.

When the VCR menu is operated, the TV automatically turns on and the images from the EXT-2 terminal appear on the screen.

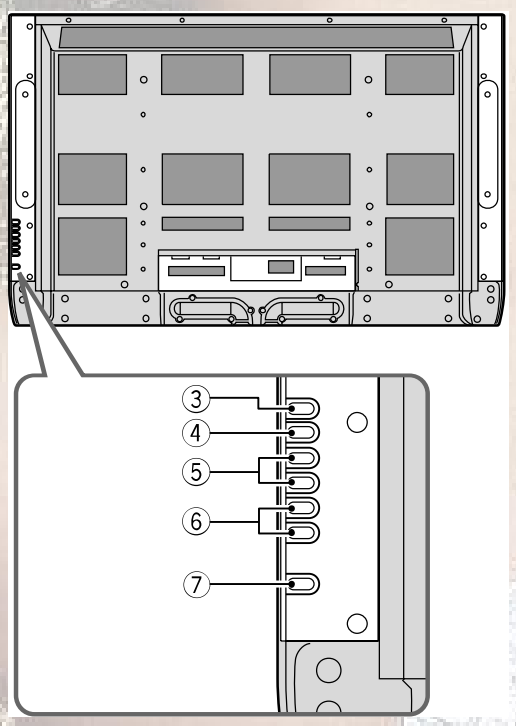
- Check that the AC plugs on the power cords from the TV and receiver are connected to AC outlets.

# TV buttons and functions

**TV (front)**



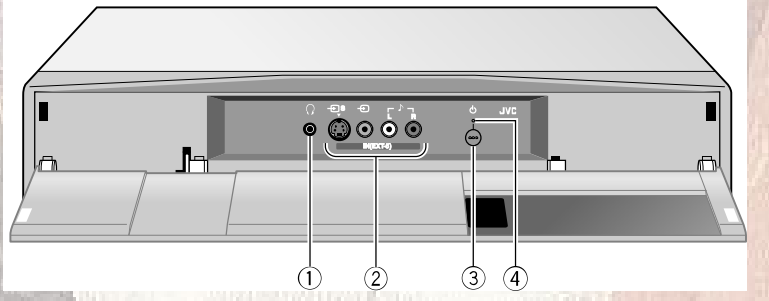

**TV (back)**




Refer to the pages in parentheses for details.
① Remote control sensor
② Power lamp (page 10)
③ MENU/OK button (pages 12, 20)
④ TV/AV button (page 12)
⑤ ◿ (Volume) −/+ buttons (page 12)
⑥ P ∨/∧ buttons (page 12)
⑦ ⏻ (Stand by) button (page 12)

**Receiver (front)**

**How to open the cover**




Refer to the pages in parentheses for details.
① Headphone jack (mini jack) (page 37)
② EXT-5 terminal (pages 27, 37)
③ ⏻ (Stand by) button (page 12)
④ Power lamp (page 10)

## Turn the TV on from standby mode

**Press the ⏻ button or P ∨/∧ buttons to turn the TV on from standby mode**

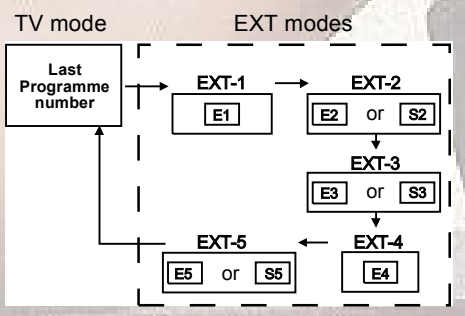
- Check that the AC plugs on the power cords from the TV and receiver are connected to correctly AC outlets.

## Choose a TV channel

**Press the P ∨/∧ buttons to choose a programme number (PR) or an EXT terminal**

## Watch images from external devices

**Press the TV/AV button to choose a TV/AV terminal**




## Adjust the volume

**Press the −/+ buttons**
The volume level indicator appears.

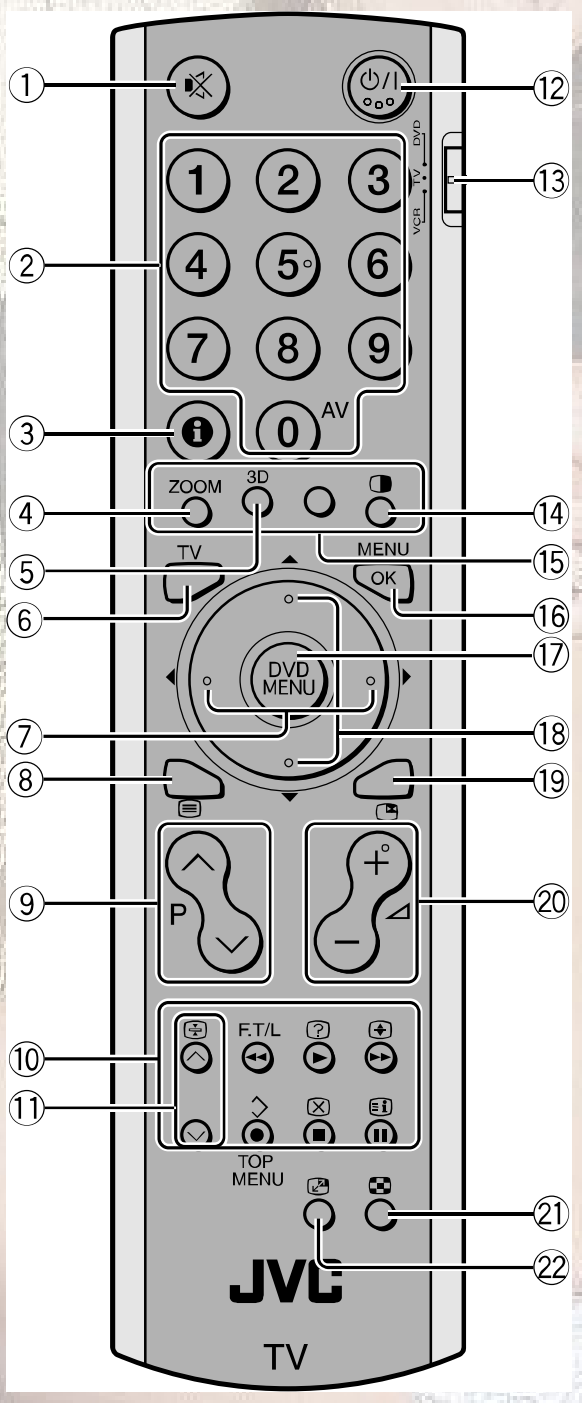
## Using the headphone

- The headphone volume is adjusted with the "HEADPHONE" menu (see page 26).

## Using the Menu

**Use the MENU/OK button.**
Refer to "Using the TV's menu" (see page 20) for details of using the menu.

# Remote control buttons and functions




① Muting button
② Number buttons
③ Information button
④ **ZOOM** button
⑤ **3D** sound button
⑥ ***TV*** button
⑦ ◀/▶ buttons
⑧ ☰ (Text) button
⑨ **P** ∨/∧ buttons
⑩ VCR/DVD/Teletext control buttons
⑪ ∨/∧ buttons
⑫ Standby button
⑬ VCR/TV/DVD switch
⑭ ◑ button
⑮ Colour buttons
⑯ **OK** button
⑰ **DVD MENU** button
⑱ ▼/▲ buttons
⑲ button
⑳ −/+ buttons
㉑ button
㉒ button

## Turn the TV on or off from standby mode

**1 Make sure you set the VCR/TV/DVD switch to the TV position.**

- You cannot turn the TV on or off when the VCR/TV/DVD switch is set to the VCR or DVD position.

**2 Press the ⏻/I (standby) button to turn the TV on or off.**

When the TV is turned on, the power lamp changes from red to green.

- The power can be turned on by pressing the ***TV*** button, **P** ∨/∧ buttons or Number buttons.
- Check that the AC plugs on the power cords from the TV and receiver are connected to AC outlets.

## Choose a TV channel

■ **Use the number buttons:**
**Enter the programme number (PR) of the channel using the number buttons.**

Example:

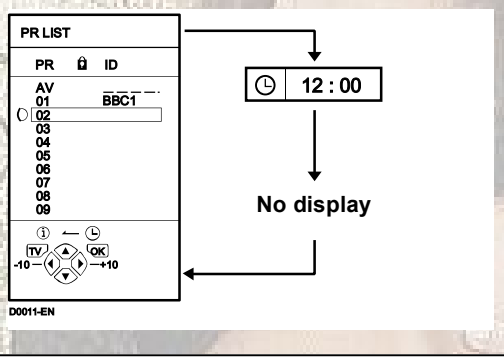
- PR 6 → press ***6***
- PR 12 → press ***1*** and ***2***

■ **Use the P ∨/∧ buttons:**
**Press the P ∨/∧ buttons to choose the programme number (PR) you want.**

■ **Use the PR LIST:**

**1 Press the ⓘ (information) button to display the PR LIST**

Pressing the ⓘ (information) button changes the display as follows:




**2 Press the ◀/▶ and ▼/▲ buttons to choose a programme number (PR). Then press the OK button**

- For programme numbers (PR) with the CHILD LOCK function set, the 🔒 (CHILD LOCK) mark appears next to the programme number (PR) in the PR LIST.
- You cannot use the ▼/▲ buttons to choose a programme number (PR) with the CHILD LOCK function set.
- Even if you try to choose a programme number (PR) with the CHILD LOCK function set, the 🔒 (CHILD LOCK) mark will appear, and you cannot watch the TV channel. To watch the TV channel, see "CHILD LOCK" on page 29.

## Adjust the volume

**Press the 🔊 −/+ buttons to adjust the volume.**

The volume indicator appears and the volume changes as you press the 🔊 −/+ buttons.

- The headphone volume is adjusted with the "HEADPHONE" menu (see page 26).

■ **Muting the sound**

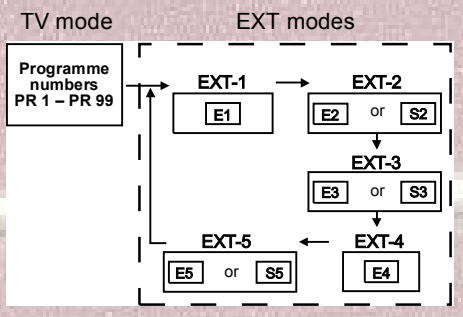
**Press the 🔇 (muting) button to turn off the sound.**

Pressing the 🔇 (muting) button again restores the previous volume level.

## Watch images from external equipment

■ **Use the 0 (AV) button:**

**Press the 0 (AV) button to choose an EXT terminal.**




■ **Use the ▼/▲ buttons:**

**Press the ▼/▲ buttons to choose an EXT terminal.**

■ **Use the PR LIST:**

**1 Press the ⓘ (information) button to display the PR LIST**

**2 Press the ◀/▶ and ▼/▲ buttons to choose an EXT terminal. Then press the OK button**

- The EXT terminals are registered after the programme number PR 99.
- You can choose a video input signal from the S-VIDEO signal (Y/C signal) and regular video signal (composite signal). For details, see "S-IN (S-VIDEO input)" on page 27.
- If you do not have a clear picture or no colour appears, change the colour system manually. See "COLOUR SYSTEM" on page 23.
- This TV set has a function which can automatically change over the input according to a special signal output from an external device. (The EXT-4 and EXT-5 terminals do not support this function.)

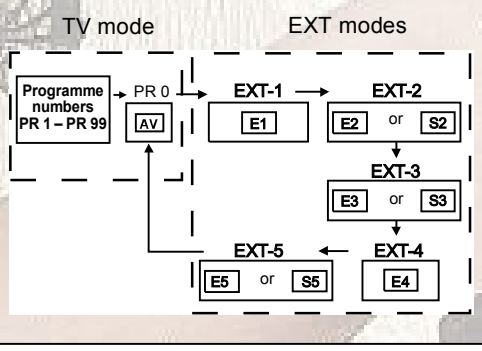
**To return to a TV channel:**

Press the **TV** button, the **P** ∨/∧ buttons or the number buttons.

**To use the programme number PR 0 (AV):**

When the TV and VCR are connected only by the aerial cable, choosing the programme number PR 0 (AV) allows you to view images from the VCR. Set the VCR RF channel to the programme number PR 0 (AV) manually. For details, see "EDIT/MANUAL" on page 32.

Pressing the **0 (AV)** button changes the choice as follows:




- The VCR sends its playback image along the aerial cable as an RF (radio frequency) signal.
- Also see your VCR instruction manual.

## ZOOM function

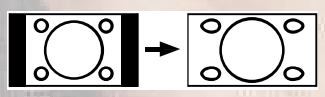
You can change the screen size according to the picture aspect ratio. Choose the optimum one from the following ZOOM modes.

**AUTO:**
When a WSS (Wide Screen Signalling) signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the ZOOM mode to 16:9 ZOOM mode or FULL mode according to the WSS signal.
If a WSS signal is not included, the picture is displayed in accordance with the ZOOM mode set with the 4:3 AUTO ASPECT function.

- For details of the 4:3 AUTO ASPECT function, see “4:3 AUTO ASPECT” on page 23.
- When the AUTO (WSS) mode does not function correctly due to poor WSS signal quality or when you want to change the ZOOM mode, press the **ZOOM** button and change to another ZOOM mode.

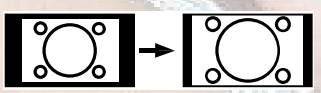
**REGULAR:**
Use to view a normal picture (4:3 aspect ratio) as this is its original shape.

**PANORAMIC:**
This stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the screen, without making the picture appear unnatural.

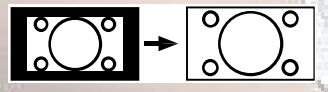


- The top and bottom of the picture are slightly cut off.

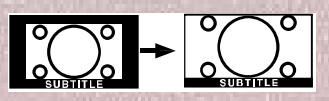
**14:9 ZOOM:**
This zooms up the wide picture (14:9 aspect ratio) to the upper and lower limits of the screen.



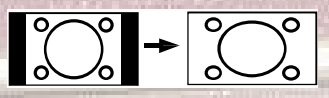
**16:9 ZOOM:**
This zooms up the wide picture (16:9 aspect ratio) to the full screen.



**16:9 ZOOM SUBTITLE:**
This zooms up the wide picture (16:9 aspect ratio) with subtitles to the full screen.



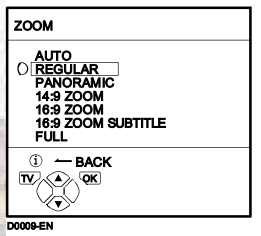

**FULL:**
This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.



- For 16:9 aspect ratio pictures that have been squeezed into a normal picture (4:3 aspect ratio), use the FULL mode to restore the picture to its original shape.

### ■ Choose the ZOOM mode

**1 Press the ZOOM button to display the ZOOM menu**



D0009-EN

- The **ZOOM** button does not work in the twin pictures mode.

**2 Press the ▼/▲ buttons to choose a ZOOM mode. Then press the OK button**
The picture expands and the chosen ZOOM mode is displayed in about 5 seconds.

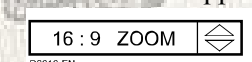
- The ZOOM mode may be automatically changed by the control signal from an external device. When you want to return to the previous ZOOM mode, choose the ZOOM mode again.

### ■ Adjusting the visible area of the picture

If subtitles or the top (or bottom) of the picture are cut off, you can adjust the visible area of the picture manually.

**1 Press the ZOOM button**
The ZOOM menu appears.

**2 Press the OK button to display the ZOOM mode indicator**
The indicator appears.



D0010-EN

**3 While it is displayed, press the ▼/▲ buttons to change the position of the picture**

- You cannot adjust the visible area in REGULAR or FULL mode.

## 3D SOUND function

You can enjoy sounds with a wider ambience.

**Press the 3D button to turn the 3D SOUND function on or off**

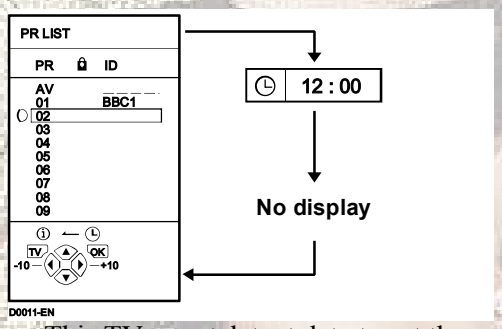
- The 3D SOUND function does not work properly with mono sound.
- The 3D SOUND function can be also turned on or off by using the SOUND SETTING menu. For details, see “3D SOUND” on page 25.

## Displaying the current time

You can display the current time on the screen.

**Press the ⓘ (information) button to display the current time**

Pressing the ⓘ (information) button changes the display as follows:




- This TV uses teletext data to set the current time. If the TV has not received a TV channel that has teletext programmes since it was turned on, the time display is blank. To see the time, choose a TV channel that has teletext programmes.
- When watching videos, an incorrect current time is sometimes displayed.

## Return to TV channel instantly

You can return to a TV channel instantly.

**Press the *TV* button**

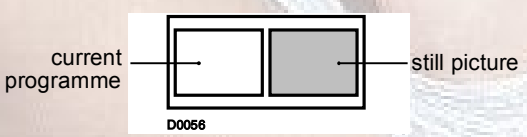
The TV returns to the TV mode and a TV channel appears.

## Using the FREEZE function

You can view the current programme as a still picture.

**1 Press the ⧉ button**

The still picture of the current picture will appear.




**To cancel the FREEZE function:**

Press the ⧉ button, the **P** ∨/∧ buttons or the number buttons.

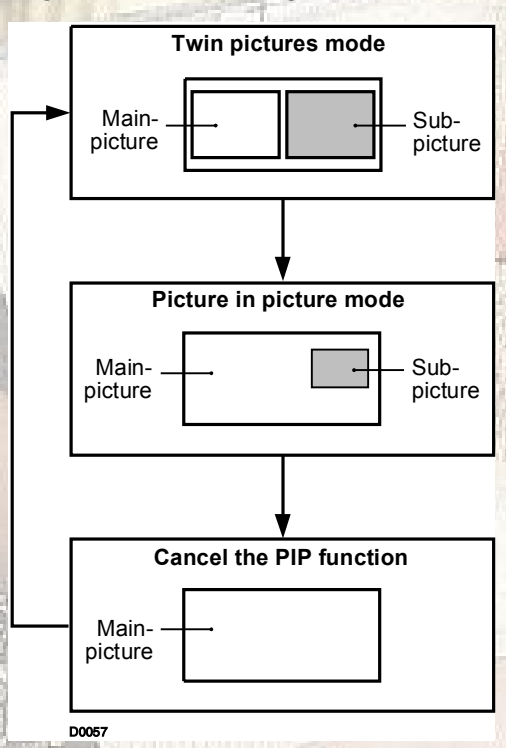
- The FREEZE function does not work while a sub-picture is displayed.
- The still picture cannot be output from the TV.
- The FREEZE function is cleared if no operation is performed for approximately one minute.

## Using the PIP function

You can view two pictures (Main-picture and sub-picture). Two different TV programmes can be watched at the same time, or a TV programme and a video programme from an external device can be watched at the same time.

**1 Press the ◨ button**

Pressing the ◨ button changes the PIP mode as follows:




**2 Press the ∨/∧ buttons to change the sub-picture to the picture from another EXT terminal**

**Listening to the sound of the sub-picture:**

You can listen to the sound of the sub-picture with the headphones while listening to the sound of the main-picture from the TV speakers.

For details, see “HEADPHONE” on page 26.

- The sub-picture sound is mono.

**Changing the position of the sub-picture:**

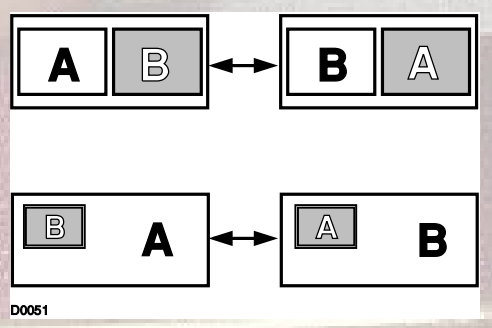
You can choose one of four positions.

For details, see “PIP (picture-in-picture)” on page 24.

**Swapping the main-picture and sub-picture:**

Press the ⧉ button.

The main-picture and sub-picture will be swapped.



**Cancelling the PIP function:**
Press the ◑ button or **TV** button.

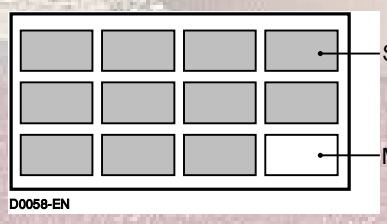
- If the main-picture signal is poor, the quality of the sub-picture may also be poor.
- If the pictures have different standards, the top and bottom of one of them may be missing.
- If an external device is operated, the sub-picture may disappear. If this happens, press the ◑ button again to redisplay the sub-picture.
- You cannot view a scrambled channel in the sub-picture. If the ⧉ (swap) button is pressed when viewing a scrambled channel in the main-picture using an external decoder, the channel you have been viewing in the sub-picture will appear in both the main-picture and sub-picture.
- The ZOOM function does not work in the twin-picture mode.
- Do not press the ⧉ (swap) button while you are recording the TV output on the VCR. If you do, the TV output signal will change.
- The BLUE BACK function does not work in the twin picture mode or the picture-in-picture mode.
- A progressive-scanning picture cannot be displayed as the sub-picture.
  Also:
  - When the EXT-4 picture is a progressive-scanning picture, you cannot choose EXT-4 with the ∨/∧ buttons.
  - When the EXT-4 picture signal is changed to a progressive-scanning picture while the EXT-4 picture is displayed as the sub-picture, the PIP function is cancelled.
  - The pictures cannot be swapped when a progressive-scanning picture from EXT-4 is being displayed as the main picture.
  - The sub-picture cannot be output from the TV.

## Using the MULTI-PICTURE function

You can display multi-pictures so you can find a program you want to view.

**1 Press the ⊞ button to display multi-pictures**
The channels are displayed in channel number order.
The multi-pictures will appear in multi-picture mode.

**12-pictures multi:**




**2 Press the ∨/∧ buttons to choose the screen you want to see**
The chosen picture changes to a moving picture.

**3 Press the OK button**
The multi-pictures disappear and the chosen picture appears.

**Cancelling the multi-pictures:**
Press the **TV** button, the number buttons or the **OK** button.

- Pictures from external devices cannot be displayed in the 12-pictures multi mode.

## Operating a JVC brand VCR or DVD player

These buttons will operate a JVC brand VCR or DVD player. Pressing a button that looks the same as the device's original remote control button has the same effect as the original remote control.

**1 Set the VCR/TV/DVD switch to the VCR or DVD position**

**VCR:**
When you are using a VCR, set the switch to the VCR position. You can turn the VCR on or off with the ⏻/I (Standby) button.

**DVD:**
When you are using a DVD player, set the switch to the DVD position. You can turn the DVD player on or off with the ⏻/I (Standby) button.

**2 Press the VCR/DVD Control Button to control your VCR or DVD player**

- If your device is not made by JVC, these buttons will not work.
- Even if your device is made by JVC, some of these buttons may not work, depending on the device you are using.
- You can use the ∨/∧ buttons to choose a TV channel the VCR will receive, or choose the chapter the DVD player plays back.
- Some models of DVD player use the ∨/∧ buttons for both operating the fast forward/backward functions and for choosing the chapter. In this case, the ◀◀/▶▶ buttons do not work.
- Set the VCR/TV/DVD switch to the TV position when you turn the TV on or off.

### ■ To use DVD MENU button

Some DVDs allow you to select the disc contents using the menu. When you play back these DVDs, you can select the subtitle language and sound-track language, etc by using the DVD menu.

**1 Press DVD MENU button during play back**
The DVD menu appears on the screen.

- Press **DVD MENU** button again to resume playback at the scene when you pressed the button.

**2 Press ▼/▲ or ◀/▶ buttons to select the desired item**

**3 Press OK button**
The menu continues to another screen.
Repeat steps 2 and 3 to set additional items if any.

# Teletext function

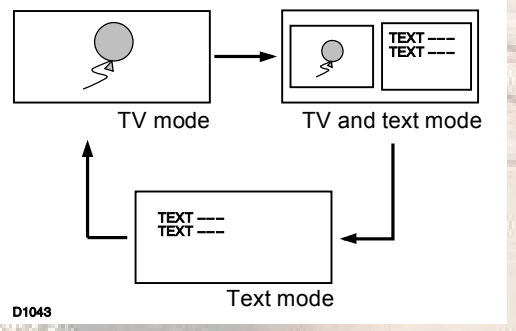
## Basic operation

**1 Choose a TV channel with a teletext broadcast**

**2 Make sure you set the VCR/TV/DVD switch to the TV position.**

**3 Press ☰ (Text) button to display the teletext**

Pressing ☰ (Text) button changes the mode as follows:




**4 Choose a teletext page by pressing the P ∨/∧ buttons, number buttons or colour buttons**

**To return to the TV mode:**
Press the **TV** button or ☰ (Text) button.

- If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.
- The ZOOM function will not work in the TV and text mode or Text mode.
- You cannot operate menus when viewing a teletext programme.
- Language display depends on the country which was set on the COUNTRY menu. If characters on a Teletext programme do not appear properly, change the COUNTRY Setting to other country's. For detail, "Changing the COUNTRY setting" on page 36.

When viewing a teletext programme, the text periodically moves a little at a time towards either the top or bottom of the screen. This is to prevent burn-in and is not a malfunction.

## Using the List Mode

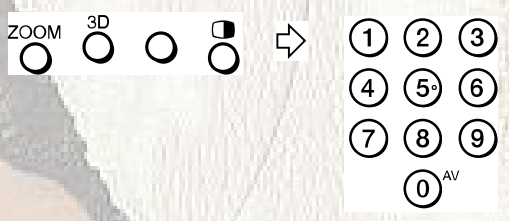
You can store the numbers of your favourite teletext pages in memory and call them up quickly using the colour buttons.

### ■ To store the page numbers:

**1 Press F.T/L button to go into the List mode**

The page numbers you have stored are displayed at the bottom of the screen.

**2 Press a Colour button to choose a position. Then press the Number buttons to enter the page number**




**3 Press and hold down ◇ (Store) button**

The four page numbers blink white to show that they are stored in memory.

### ■ To call up a stored page:

**1 Press the F.T/L button to engage the List mode**

**2 Press a colour button having a stored page**

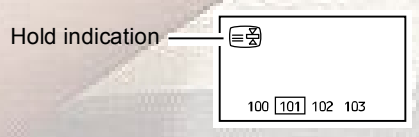



**To exit the List mode:**
Press the **F.T/L** button again.

## Hold

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.

**Press the ⊟ (Hold) button**




**To cancel the Hold function:**
Press ⊟ (Hold) button again.

- The Hold function is cleared if no operation is performed for approximately one minute.

## Sub-page

Some teletext pages include sub-pages that are automatically displayed.
You can hold any sub-page, or view it at any time.

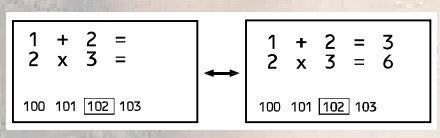
**1 Choose a teletext page that includes sub-pages**
Sub-page numbers that can be viewed are automatically displayed at the top of the screen.

**2 Press the ◀/▶ buttons to choose a sub-page number**

## Reveal

Some teletext pages include hidden text (such as the answers to a quiz).
You can display the hidden text.

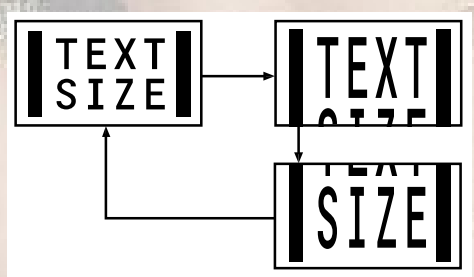
**Each time you press the ? (Reveal) button, text is hidden or revealed**




## Size

You can double the height of the teletext display.

**Press the ⇳ (Size) button.**




## Index

You can return to the index page instantly.

**Press the ⊟ (Index) button**
Returns to page 100 or a previously specified page.

## Cancel

You can search for a teletext page while watching TV.

**1 Press the number button to enter a page number, or press a colour button**
The TV searches for a teletext page.

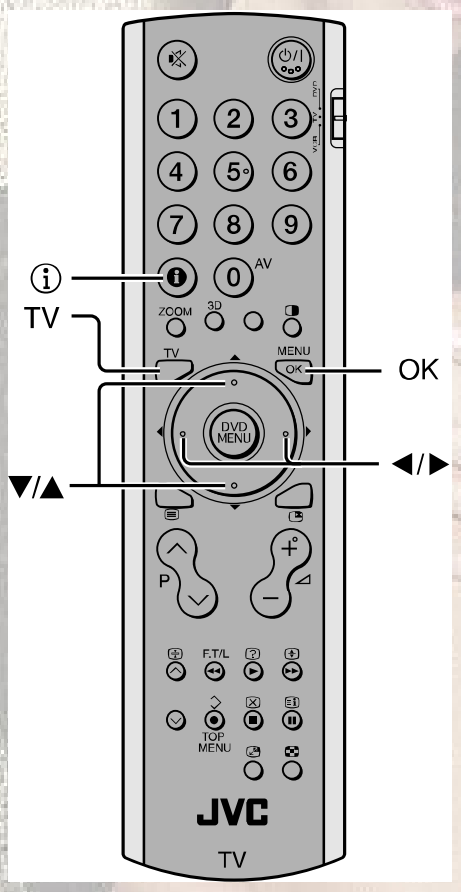
**2 Press the ⊠ (Cancel) button**
The TV programme appears. When the TV finds the teletext page, its page number appears in the upper left of the screen.

**3 Press the ⊠ (Cancel) button to return to a teletext page when the page number is on the screen**

- The TV mode cannot be resumed by pressing the ⊠ (Cancel) button. To return to the TV mode press ***TV***.

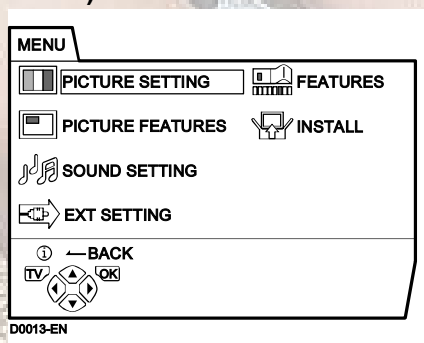
# Using the TV's menu

This TV has a number of functions you can operate using menus. To use all your TV's functions, you need to understand the basic menu operating techniques fully.

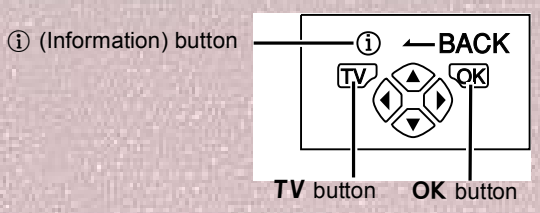



## Basic operation

**1 Press the OK button to display the MENU (main menu)**




- Press the **OK** button twice while watching the MULTI-PICTURE mode.
- The display appearing at the bottom of a menu shows the buttons on the remote control you can use when you operate a chosen function.




**2 Press the ◀/▶ and ▼/▲ buttons to choose a menu title, and press the OK button**

The menu appears.

**To return to the previous menu:**
Press the ⓘ (information) button.

**To exit a menu instantly:**
Press the **TV** button.

**3 Press the ▼/▲ buttons to choose a function**

- For details of the functions in the menus, see the following pages.

**4 Press the ◀/▶ buttons to choose the setting of that function**

- If you want to operate a function which appears only with its name, follow the descriptions of that function on the following pages.
- The display appearing at the bottom of a menu shows you a button on the remote control that you can use when you operate a chosen function.

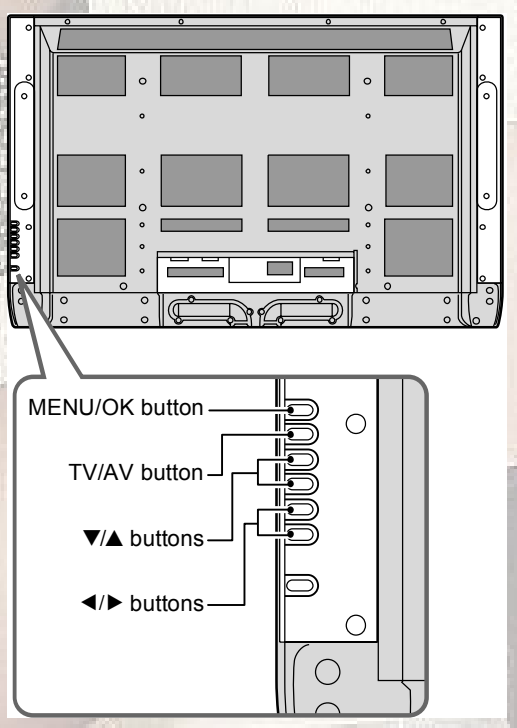
**5 Press the OK button to complete the setting**

The menu disappears.

- When watching the television with the NTSC system, the menus are displayed at about half of their normal vertical size.
- The menu will disappear if you press the **P** ∨/∧ buttons while the menu is displayed.

**Operation with the buttons on the TV**

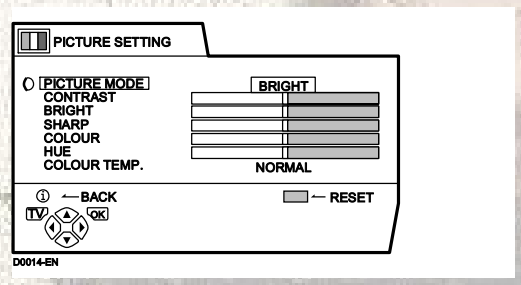
You can also operate the menus using the buttons on the front panel of the TV.




The menu will disappear after about one minute if no operation is performed.

# PICTURE SETTING

Refer to “Using the TV’s menu” (see page 20) for details of displaying the menu.




## PICTURE MODE

You can choose one of three PICTURE MODEs to adjust the picture settings automatically.

**BRIGHT:**
Heightens contrast and sharpness.

**STANDARD:**
Standardizes picture adjustment.

**SOFT:**
Softens contrast and sharpness.

## Picture Adjustment

You can change the picture settings of each PICTURE MODE mode as you like.

**CONTRAST:**
You can adjust the picture contrast.
◄ : lower
► : higher

**BRIGHT:**
You can adjust the picture brightness.
◄ : darker
► : brighter

**SHARP:**
You can adjust the picture sharpness.
◄ : softer
► : sharper

**COLOUR:**
You can adjust the picture colour.
◄ : lighter
► : deeper

**HUE:**
You can adjust the picture tint.
◄ : reddish
► : greenish

- You can change the HUE setting (picture hue) when the colour system is NTSC 3.58, NTSC 4.43 or a signal from the EXT-4 terminal.
  However, you cannot do this when the PIP function main picture is set to EXT-4.

**To return to the default settings in each PICTURE MODE mode:**
Press the blue button.

- This returns the picture settings in the PICTURE MODE mode you have chosen to the default settings, and stores them in the PICTURE MODE mode.

## COLOUR TEMP.

You can select one of three COLOUR TEMP. modes (three tones of white) to adjust the white balance of the picture. Since white is the colour which is used as a reference for all the other colours, changing the COLOUR TEMP. mode affects the appearance of all the other colours on the screen.

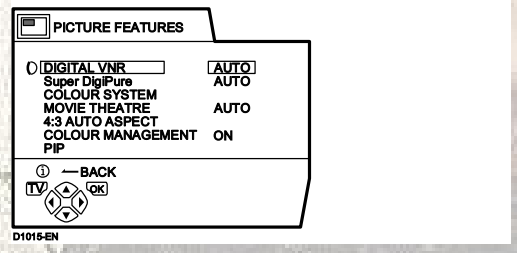
**COOL:**
A bluish white. Using this mode when watching bright pictures allows you to enjoy a more vivid and bright picture.

**NORMAL:**
The normal white colour.

**WARM:**
A reddish white. Using this mode when watching films allows you to enjoy colours that are characteristic of films.

# PICTURE FEATURES

Refer to “Using the TV’s menu” (see page 20) for details of displaying the menu.




## DIGITAL VNR

The DIGITAL VNR function cuts down the amount of ‘noise’ (‘snow’ or interference) in the original picture. You can choose from the three DIGITAL VNR function settings of AUTO, MIN and MAX.

**AUTO:**
The TV will automatically adjust the level of the DIGITAL VNR effect to match the amount of noise in the picture, giving you the best possible picture.

- If you set the DIGITAL VNR effect too high it can make the picture less sharp. It is recommended to use the AUTO setting if you can.
- AUTO cannot be chosen when you are watching the EXT-4 picture.

**MIN:**
The level of the DIGITAL VNR effect is set to the minimum. If you set the DIGITAL VNR function to AUTO but feel that the sharpness of the original picture has not been reproduced fully, change the setting from AUTO to MIN.

- The MIN setting is not suitable for low-quality pictures which contain a lot of noise.

**MAX:**
The level of the DIGITAL VNR effect is set to the maximum. If you set the DIGITAL VNR function to AUTO but still notice some noise, change the setting from AUTO to MAX.

- The MAX setting is not suitable for high-quality pictures which contain very little noise.

---

- When a progressive-scanning picture is being displayed, “DIGITAL VNR” cannot be selected.
- The DIGITAL VNR function does not work for progressive-scanning pictures.

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## Super DigiPure

The Super DigiPure function uses the latest in digital technology to give you a natural-looking picture. The Super DigiPure function includes the following two functions.

**DigiPure function:**
This function helps to create a natural-looking picture by eliminating unnecessary edges from high-contrast and crisp images. For images with low-contrast, edges are added to produce a sharper, more detailed picture.
You can choose from the three DigiPure function settings of AUTO, MIN and MAX.

- If you set the DigiPure effect too high on a low-quality picture that contains a lot of noise, this may actually make the noise worse. We recommend you use the AUTO setting if you can.

**Picture motion compensation function:**
This function displays fast-moving pictures (for example, the players or ball in a football game) more smoothly and naturally on the screen.

- The effect level of the picture motion compensation function cannot be changed. The effect level is the same no matter which of the AUTO, MIN or MAX settings is used.

**1 Choose Super DigiPure**

**2 Press the ◄/► buttons to choose a setting. Then press the OK button**

**AUTO:**
The TV will automatically adjust the level of the DigiPure effect to match the amount of noise in the picture, giving the best possible picture.

- AUTO cannot be chosen when you are watching the EXT-4 picture.

**MIN:**
The level of DigiPure effect is set to the minimum. When you set the Super DigiPure function to AUTO and notice some noise, change the setting from AUTO to MIN.

- The MIN setting is not suitable for high-quality pictures which contain very little noise.

**MAX:**
The level of DigiPure effect is set to the maximum. If you set the Super DigiPure function to AUTO but feel that the original picture quality has not been reproduced fully, change the setting from AUTO to MAX.

- The MAX setting is not suitable for low-quality pictures which contain a lot of noise.

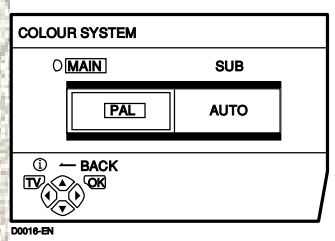
**OFF:**
The Super DigiPure function is turned off.

## COLOUR SYSTEM

The colour system is chosen automatically. However, if the picture is not clear or no colour appears, choose the colour system manually.

**1 Choose COLOUR SYSTEM. Then press the OK button**

The sub-menu of the COLOUR SYSTEM function appears.




**2 Press the ◀/▶ buttons to choose MAIN or SUB**

**MAIN:**
You can change the colour system of the main-picture.

**SUB:**
You can change the colour system of the sub-picture.

- Choose MAIN when a sub-picture is not displayed.

**3 Press the ▼/▲ buttons to choose the appropriate colour system. Then press the OK button**

**PAL:**
PAL system

**SECAM:**
SECAM system

**NTSC 3.58:**
NTSC 3.58 MHz system

**NTSC 4.43:**
NTSC 4.43 MHz system

**AUTO:**
This function detects a colour system from the input signal. You can only use this when you are viewing a picture from programme number PR 0 (AV), or an EXT terminal.

- The AUTO function may not function properly if you have poor signal quality. If the picture is abnormal in the AUTO function, choose another colour system manually.
- When in the programme numbers PR 0 (AV) to PR 99, you cannot choose NTSC 3.58 or NTSC 4.43. SECAM cannot be chosen when the COUNTRY setting is UNITED KINGDOM.

## MOVIE THEATRE

The MOVIE THEATRE function displays a cinema film picture more smoothly and naturally on the screen.

**AUTO:**
The television automatically recognizes the type of signal and turns the function on and off.

**ON:**
This function is turned on.

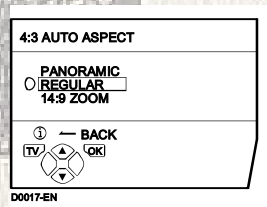
**OFF:**
This function is turned off.

- The motion may appear unnatural when viewing images with the NTSC colour system. When the MOVIE THEATRE function is set to AUTO or ON, the motion may appear unnatural when viewing images with the NTSC colour system.
- You cannot select this function in the twin pictures mode or the picture in picture mode.

## 4:3 AUTO ASPECT

You can choose one of three ZOOM modes, REGULAR, PANORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect ratio).

**1 Choose 4:3 AUTO ASPECT then press the OK button**




**2 Press the ▼/▲ buttons to choose a ZOOM mode. Then press the OK button**

## COLOUR MANAGEMENT

This TV supports the COLOUR MANAGEMENT function to ensure dull colours are compensated to produce natural hues.
The COLOUR MANAGEMENT function is on by default.

**ON:**
COLOUR MANAGEMENT function is turned on.

**OFF:**
COLOUR MANAGEMENT function is turned off.

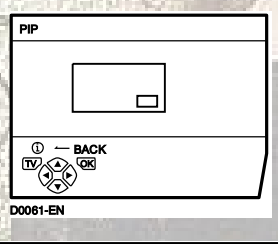
- Set this function to ON under normal conditions.

## PIP (picture-in-picture)

You can choose one of four positions for the sub-picture.

**1 Press the ▼/▲ buttons to choose PIP. Then press the OK button**

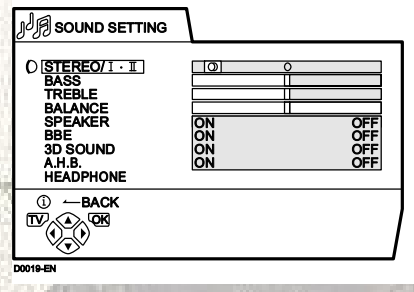
The PIP menu appears.




**2 Press the ◀/▶ buttons to choose the position. Then press the OK button**

# SOUND SETTING

Refer to “Using the TV’s menu” (see page 20) for details of displaying the menu.




## STEREO / I • II

When you are viewing a bilingual broadcast programme, you can choose the sound from Bilingual I (Sub I) or Bilingual II (Sub II). If you have poor reception on a stereo broadcast, you can change from stereo to mono sound so that you can hear the broadcast more clearly and easily.

: Stereo sound

: mono sound

I : Bilingual I (sub I)

II : Bilingual II (sub II)

- The sound mode you can choose differs depending on the TV programme.
- This function does not work in the EXT modes. And this function does not appear in the SOUND SETTING menu.

## Sound Adjustment

You can adjust the sound to your liking.

**BASS:**
You can adjust the low tone of the sound.
◄ : weaker
► : strong

**TREBLE:**
You can adjust the high tone of the sound.
◄ : weaker
► : strong

**BALANCE:**
You can adjust the volume balance between the left and right speaker.
◄ : turn the left speaker’s volume level up.
► : turn the right speaker’s volume level up.

## SPEAKER

You can turn off the sound from the TV speakers; but you should only do this if an audio system is connected to the TV as a substitute for the TV speakers.

**ON:**
The TV speakers issue sound.

**OFF:**
The TV speakers does not issue sound.

## BBE

You can use the BBE function to enjoy easy-to-listen sound that is faithful to the original sound recorded.

**ON:**
This function is turned on.

**OFF:**
This function is turned off.

- Licensed by BBE Sound, Inc. BBE is a registered trademark of BBE Sound, Inc.

## 3D SOUND

You can enjoy Surround sound with a “live” effect by using the 3D SOUND function.

**ON:**
3D SOUND function is turned on.

**OFF:**
3D SOUND function is turned off.

## A.H.B. (Active Hyper Bass)

Used when you want to emphasize the bass sound.

**ON:**
This function is turned on.

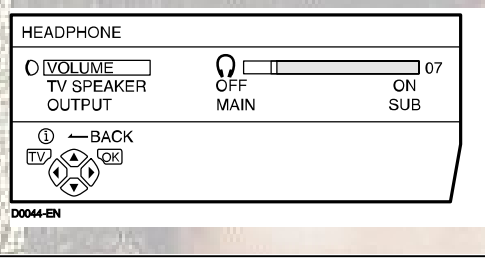
**OFF:**
This function is turned off.

# HEADPHONE

You need to use the HEADPHONE menu to adjust the volume of the headphones.
The HEADPHONE menu can also be used to set whether or not sound comes from the TV speakers when the headphones are being used and to perform the settings for the sound coming from the headphones.

**1 Press the ▼/▲ buttons to choose HEADPHONE. Then press the OK button**

The sub-menu of the HEADPHONE function appears.




**2 Press the ▼/▲ buttons to choose a function. Then press the ◄/► buttons to change the setting**

**VOLUME:**
You can change the volume of the headphones.

**TV SPEAKER:**
You can turn the TV's speakers on or off.

**ON:**
The sound comes from the TV's speakers when using the headphones.

**OFF:**
The sound does not come from the TV's speakers when using the headphones.

**OUTPUT:**
You can choose the sound output to the headphones.

**MAIN:**
You can listen to the sound of the main-picture with your headphones.

**SUB:**
You can listen to the sound of the sub-picture with your headphones.

- When the sub-picture is a television programme, the sound becomes monaural.

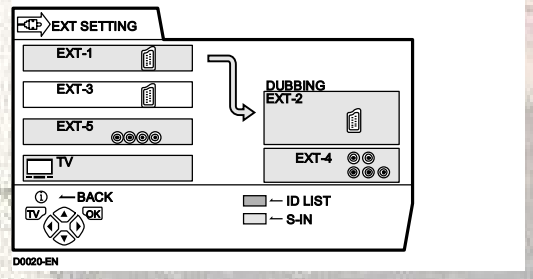
**3 Press the OK button**

**Hint:**
When a sub-picture is displayed, the sound of the sub-picture can be listened to with the headphones while listening to the sound of the main-picture with the TV speakers. To do this, set TV SPEAKER to ON and OUTPUT to SUB.

- Headphones do not work with sound adjusted for BASS and TREBLE, BBE effect sound, A.H.B. effect sound, and 3D SOUND effect sound.

# EXT SETTING

Refer to “Using the TV’s menu” (see page 20) for details of displaying the menu.




## S-IN (S-VIDEO input)

You can connect a device (such as an S-VHS VCR) to enjoy the high-quality picture of the S-VIDEO signal (Y/C signal).

**Preparation:**

- First read the device’s instruction manual and “Additional preparation” on page 37 to connect the device to the TV properly. Second, follow the device’s instruction manual to set the device so that it sends an S-VIDEO signal (Y/C signal) to the TV.
- Do not set S-IN (S-VIDEO input) to the EXT terminal connected to a device which cannot output an S-VIDEO (Y/C signal). If it is set wrongly, a picture cannot appear.

**1 Choose an EXT terminal**

**2 Press the yellow button and set the S-IN (S-VIDEO input).**
**Then press the OK button**

An S-IN (S-VIDEO input) mark is displayed. You can view an S-VIDEO signal (Y/C signal) instead of the regular video signal (composite signal).

**To cancel the S-IN (S-VIDEO input) setting:**
Press the yellow button and turn off S-IN (S-VIDEO input) mark. The regular video signal (composite signal) pictures are resumed.

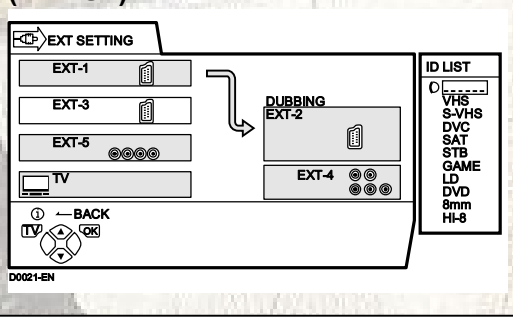
- The EXT-1 terminal does not support S-VIDEO signal (Y/C signal) and you cannot set S-IN (S-VIDEO input) in the EXT-1 terminal.
- Setting S-IN (S-VIDEO input) changes the head character from “E” to “S”. When an EXT terminal receives a normal video signal, “E2”, “E3” or “E5” appears on the display. This changes to “S2”, “S3” or “S5” when it receives an S-VIDEO signal.
- Even a device which can output an S-VIDEO signal (Y/C signal) may output a regular video signal (composite signal) depending on the device setting. If a picture cannot appear because the S-IN (S-VIDEO input) setting has been made, read the device instruction manual carefully again to check for the device settings.

## ID LIST

You can have a name corresponding to the devices connected for each EXT terminal. Giving a name to an EXT terminal makes the EXT terminal number appear on the screen, together with the name.

**1 Choose an EXT terminal**

**2 Press the blue button to display the name list (ID LIST)**




**3 Press the ▼/▲ buttons to choose a name. Then press the OK button**

The ID LIST disappears and the name is assigned to the EXT terminal.

- You cannot assign an EXT terminal name not found in the name list (ID LIST).

**To erase a name assigned to the EXT terminal:**
Choose a blank space.

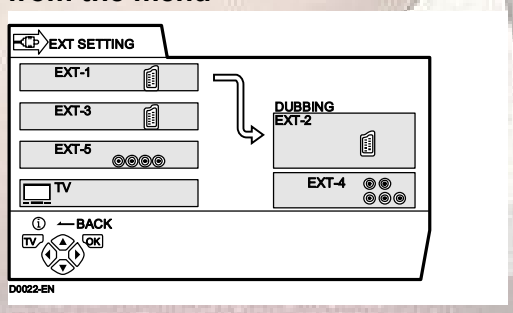
**4 Press the OK button to complete the setting**

## DUBBING

You can choose a signal source to be output from the EXT-2 terminal.

You can do this with the output signals of the devices connected to other EXT terminals, or with the picture and sound from a TV channel you are currently viewing.

**1 Press the ◀/▶ buttons to choose the arrow from the menu**



**2 Press the ▼/▲ buttons to choose an EXT terminal or TV.**
**Then press the OK button**

The arrow in the menu represents a signal flow. The left side of the arrow shows a signal source output from the EXT-2 terminal.

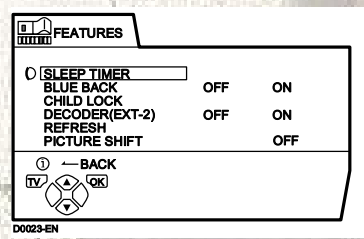
**EXT-1/EXT-3/EXT-5:**
The output signal of the device connected to an EXT terminal passes through the TV and is output from the EXT-2 terminal.

**TV:**
The picture and sound of the TV channel you are currently viewing are output from the EXT-2 terminal.

- During dubbing, you cannot turn off the TV. Turning off the TV also turns off the output from the EXT-2 terminal.
- When you choose an EXT terminal as an output, you can view a TV programme or a picture from the other EXT terminal while dubbing the picture from a device connected to the EXT terminal onto a VCR connected to the EXT-2 terminal.
- The RGB signals from the TV games cannot be output. Teletext programmes cannot be output.

# FEATURES

Refer to “Using the TV’s menu” (see page 20) for details of displaying the menu.

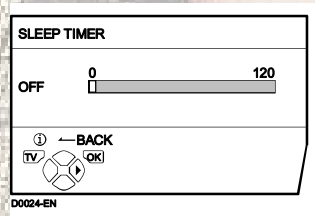



## SLEEP TIMER

You can set the TV to automatically turn off after a specified period of time.

**1 Choose SLEEP TIMER, then press the OK button**

A Sub-menu of the SLEEP TIMER function appears.




**2 Press the ◀/▶ buttons to set the period of time. Then press the OK button**

You can set the period of time up to a maximum of 120 minutes (2 hours) in 10 minute steps.

- One minute before the SLEEP TIMER function turns off the TV, “GOOD NIGHT!” appears.
- The SLEEP TIMER function cannot be used to turn off the TV’s main power.
- When the SLEEP TIMER function is on, you can display the sub-menu of the SLEEP TIMER function again to confirm or change the remaining period of time of the SLEEP TIMER function. Press the **OK** button to leave the menu after confirming or changing the remaining time.

**To cancel the SLEEP TIMER function:**
Press the ◀ button to set a period of time to “OFF”.

## BLUE BACK

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an external device.

**ON:**
This function is turned on.

**OFF:**
This function is turned off.

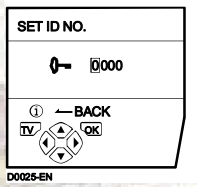
## CHILD LOCK

When there is a TV channel you do not want your children to watch, you can use the CHILD LOCK function to lock out the TV channel. Even when a child chooses a programme number (PR) for a locked TV channel the screen will change to blue and display 🔒 (CHILD LOCK) so the TV channel cannot be viewed. Unless you enter a pre-set ID number by a special operation, the lock cannot be released and the child cannot view the TV channel.

### ■ To set the CHILD LOCK function

**1 Choose CHILD LOCK, then press the 0 (AV) button**

“SET ID NO.” (ID number setting screen) appears.



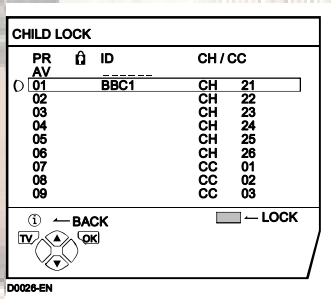

**2 Set the ID number to your liking**

**1 Press the ▼/▲ buttons to choose a number.**

**2 Press the ◀/▶ buttons to move the cursor.**

**3 Press the OK button**

The Sub-menu of CHILD LOCK appears.




**4 Press the ▼/▲ buttons to choose a TV channel**

Every time you press the ▼/▲ buttons, the Programme number (PR) changes, and the picture of the TV channel registered in the Programme number (PR) is displayed on the screen.

**5 Press the blue button and set the CHILD LOCK function.**
**Then press the OK button**

🔒 (CHILD LOCK) appears and the TV channel is locked.

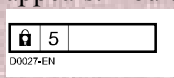
**To reset the CHILD LOCK function:**
Press the blue button again.
🔒 (CHILD LOCK) disappears.

To disable easy resetting of the CHILD LOCK function, the menu disappears if you choose the CHILD LOCK function and press the **OK** button.

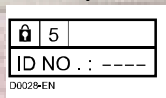
### ■ To view a locked TV channel

**1 Choose a programme number (PR) of a locked TV channel with the number buttons or PR LIST**

The screen changes to blue and the 🔒 (CHILD LOCK) appears. You cannot view the TV channel.




**2 Press the ⓘ (information) button to display “ID NO.” (ID No. input screen)**



**3 Press the Number buttons to enter the ID number**

The lock is temporarily released so you can view the TV channel.

**If you have forgotten the ID number:**
Perform step 1 of "To set the CHILD LOCK function". After confirming the ID number, press the **TV** button to exit the menu.

- Even if you reset the lock temporarily, it does not mean that the CHILD LOCK function set for the TV channel is cancelled. The next time anyone tries to view the TV channel, it will be locked again.
- When you want to cancel the CHILD LOCK function, you must perform the operation "To set the CHILD LOCK function" again.
- To stop it being easy to choose the programme number (PR) of a locked TV channel, the programme number (PR) has been set so that it cannot be chosen with the ▼/▲ buttons or the buttons of the TV.
- To stop it being easy to reset the lock, "ID NO." (ID No. input screen) is set so that it cannot appear unless you press the ⓘ (information) button.

## DECODER (EXT-2)

You can only use this function if you have a decoder connected to a T-V LINK compatible VCR, which in turn is connected to the EXT-2 terminal. To use this function, see "Using the DECODER (EXT-2) function" on page 36.

**Caution**

- If you have not connected a decoder with a T-V LINK compatible VCR to the EXT-2 terminal, setting this function to "ON" by mistake causes the picture/sound of a TV channel you are currently viewing to disappear.

## REFRESH

When burn-in is minimal, burn-in and residual images may be softened with the REFRESH function.

**1 Choose REFRESH**

**2 Press the OK button**

Snow appears on the screen. Leave the TV in this condition for a few hours.

**3 After a few hours, press the TV, number buttons, or ⏻/I button**

Press the ⏻ button for the TV.

The REFRESH function has no effect if used only for a short time.

## PICTURE SHIFT

The picture displayed on the screen is shifted up, down and to the left and right at regular intervals. In order to prevent burn-in, set this function to FAST or SLOW.

**1 Choose PICTURE SHIFT**

**2 Press the ◀/▶ buttons to choose a mode**

**OFF:**
PICTURE SHIFT is turned off.

**SLOW:**
The picture is shifted every 30 minutes.

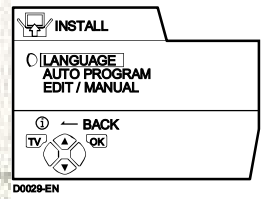
**FAST:**
The picture is shifted every 10 minutes.

**3 Press the OK button**

The menu disappears

# INSTALL

Refer to “Using the TV’s menu” (see page 20) for details of displaying the menu.




## LANGUAGE

You can choose the language you want to use for the on-screen display from the language list in a menu.

**1 Choose LANGUAGE, then press the OK button**

A sub-menu of the LANGUAGE function appears.

**2 Press the ◄/► and ▼/▲ buttons to choose a language. Then press the OK button**

## AUTO PROGRAM

You can automatically store the TV channels for which you have the best reception. Store them in the TV’s programme numbers (PR) list by doing the following.

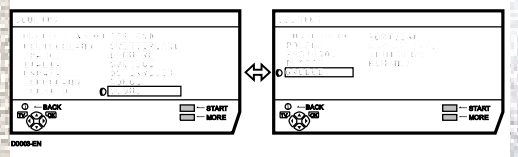
**For users in the UK:**

To receive SKY 1 you need a satellite tuner. You must have the satellite tuner set to SKY 1 before starting the AUTO PROGRAM function.

**1 Choose AUTO PROGRAM. Then press the OK button**

The COUNTRY menu appears as a sub-menu of the AUTO PROGRAM function.

There are two COUNTRY menus. Pressing the yellow button changes the COUNTRY menu as follows:

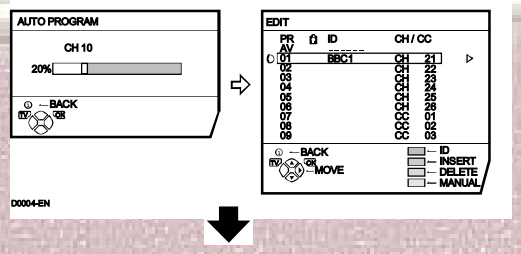



**2 Press the ◄/► and ▼/▲ buttons to choose the country where you are now located**

**3 Press the blue button to start the AUTO PROGRAM function**

The AUTO PROGRAM menu appears and the TV channels you receive are automatically registered in the programme numbers (PR) list.

- To cancel the AUTO PROGRAM function, press the ***TV*** button.




**After the TV channels have been registered in the programme numbers (PR), the EDIT menu appears.**

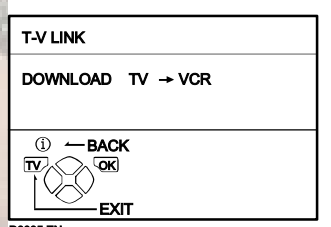
- You can now edit the programme numbers (PR) using the EDIT/MANUAL function. For details, see “EDIT/MANUAL” on page 32.
- If you do not need to use the EDIT/MANUAL function, go to the next step.

**If “ACI START/ACI SKIP” appears in the AUTO PROGRAM menu:**

You can use the ACI (Automatic Channel Installation) function to decode the ACI data and complete the registration of all the TV channels quickly. For details of the ACI function and how to use it, refer to “Using the ACI function” on page 35.

If you don’t want to use the ACI function, press the ▼/▲ buttons to choose ACI SKIP and then press **OK**.

**4 Press the OK button to display the T-V LINK menu**




**5 If you do not have a T-V LINK compatible VCR connected:**

Press the ***TV*** button to leave the T-V LINK menu. The T-V LINK menu disappears and all the settings are completed.

**If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:**

See “Downloading data to a VCR” on page 35 to transmit the programme number (PR) data to the VCR.

- If a TV channel you want to view is not set to a programme number (PR), set it manually using the MANUAL function. For details, see “EDIT/MANUAL” on page 32.
- The AUTO PROGRAM function does not set the programme number PR 0 (AV) for your video cassette recorder. You will need to set this using the manual function.
- In some areas you may get TV reception from more than one transmitter, for example, different ITV regions. In this case each TV channel could be set twice. If this happens, the first set of channels will have the stronger signal. If you want to delete the second set of channels, you will have to do it manually (see page 34).

# EDIT/MANUAL

The EDIT/MANUAL functions are divided into two types:

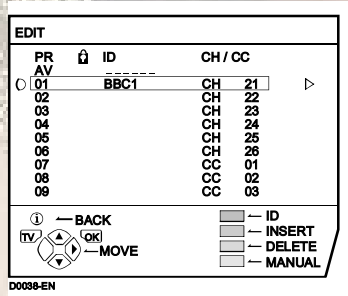
- editing the current programme numbers (PR) (EDIT functions); and
- manually storing a TV channel you want to view on a particular programme number (PR) (MANUAL function).

Here are the details about these functions:

## Caution

- Using the MOVE, DELETE or INSERT functions rewrites the current programme numbers (PR) list. Therefore, the programme numbers (PR) of some of the TV channels will change.
- Using the MANUAL function for a TV channel for which the CHILD LOCK function has been set cancels the CHILD LOCK function for that channel.
- Using the MANUAL function for a TV channel for which the DECODER (EXT-2) function has been set to ON returns the setting of the DECODER (EXT-2) function for that channel to OFF.
- When a TV channel has already been registered in PR 99, using the INSERT function deletes that TV channel.

### 1 Choose EDIT/MANUAL, then press the OK button




- For programme number PR 0, “AV” appears in the programme numbers (PR) list.
- An EXT terminal number does not appear in the programme numbers (PR) list.
- The CH/CC number is a number unique to the TV and corresponds to the channel number of a TV channel. For the relationship between a channel number and a CH/CC number, see “CH/CC numbers” on page 39.

### 2 Follow the operation description of a function you want to use and operate the function

**MOVE:**
This function changes a programme number (PR) of a TV channel.

**ID:**
This function registers a channel name (ID) to a TV channel.

**INSERT:**
This function adds a new TV channel in the current programme numbers (PR) list by using the CH/CC number.

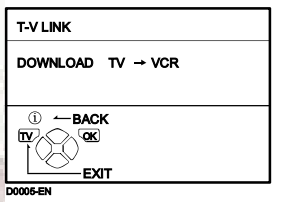
- You cannot use the INSERT function if you do not know a channel number of a TV channel. Use the MANUAL function to register a TV channel in the programme number (PR).

**DELETE:**
This function deletes a TV channel you do not want to list.

**MANUAL:**
This function manually stores a new TV channel in a programme number (PR).

### 3 Press the OK button to complete the settings

The T-V LINK menu appears.




### 4 If you do not have a T-V LINK compatible VCR connected:

Press the **TV** button to exit the T-V LINK menu.
The T-V LINK menu disappears and all the settings are completed.

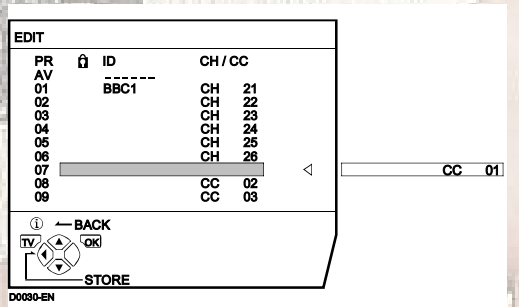
**If you have a T-V LINK compatible VCR connected to the EXT-2 terminal:**
Follow the operating procedure “Downloading data to a VCR” on page 35 to transmit the Programme number (PR) data to the VCR.

## ■ MOVE

### 1 Press the ▼/▲ buttons to choose a TV channel

Every time you press the ▼/▲ buttons, the programme number (PR) changes and the picture of the TV channel stored in the programme number (PR) appears on the screen.

### 2 Press the ▶ button to start the MOVE function




### 3 Press the ▼/▲ buttons to choose a new programme number (PR)

**To cancel the MOVE function:**
Press the ⓘ (information) button.

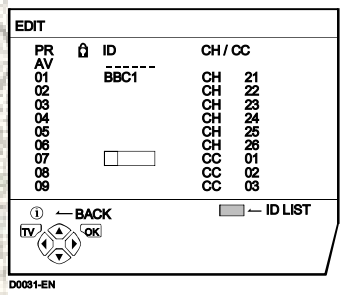
### 4 Press the ◀ button to change the programme number (PR) of a TV channel to a new programme number (PR)

## ■ ID

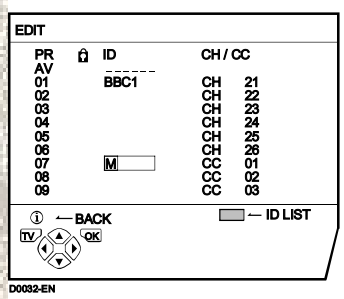
### 1 Press the ▼/▲ buttons to choose a TV channel

Every time you press the ▼/▲ buttons, the programme number (PR) changes and the picture of the TV channel stored in the programme number (PR) appears on the screen.

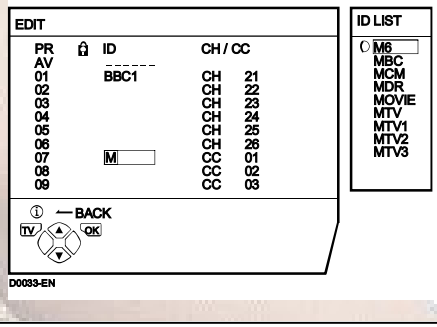
### 2 Press the red button to start the ID function




### 3 Press the ▼/▲ buttons to choose the first character of a channel name (ID) you want to give to the TV channel




### 4 Press the blue button to display the ID LIST (channel name list)




### 5 Press the ▼/▲ buttons to choose the channel name (ID)

**To cancel the ID function:**
Press the ⓘ (information) button.

### 6 Press the OK button to give a channel name (ID) to a TV channel

- You can give your own unique channel name (ID) to the TV channel. When you have finished step 3, do not go to step 4. Press the ◄/► buttons to move the cursor, and press the ▼/▲ buttons to choose each character of the channel name (ID). Then press the **OK** button to register the channel name (ID) to the TV channel.

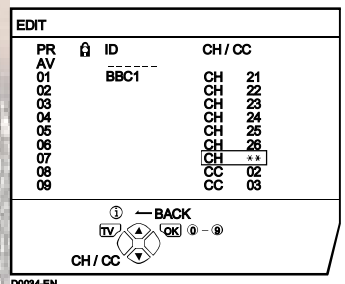
## ■ INSERT

**Preparation:**

- A CH/CC number unique to this TV and corresponding to the Channel number of a TV channel is required. Find the corresponding CH/CC number from a table “CH/CC numbers” on page 39 based on the Channel number of the TV channel.
- When the COUNTRY setting is not FRANCE, use a two-digit CH/CC number. When the COUNTRY setting is FRANCE, use a three-digit CH/CC number.
- Only when you add a TV channel (SECAM-L system) from a French station, be sure to set COUNTRY to FRANCE. If the COUNTRY setting is not FRANCE, follow the description “Changing the COUNTRY setting” on page 36 to change the COUNTRY setting to FRANCE, then start the INSERT function.

### 1 Press the ▼/▲ buttons to choose a programme number (PR) for which you will register a new TV channel

### 2 Press the green button and start the INSERT function




**To cancel the INSERT function:**
Press the ⓘ (information) button.

### 3 When the COUNTRY setting is UNITED KINGDOM:
### Press the number buttons to enter the remaining CH number

- You cannot enter CC numbers.

### When the COUNTRY setting is not UNITED KINGDOM:
### Press the ▼/▲ buttons to choose “CH” or “CC”, then press the number buttons to enter the remaining CH or CC number

**When the COUNTRY setting is FRANCE:**
Choose “CH1”, “CH2”, “CC1” or “CC2”.

The TV shifts to registration mode.
When the registration is completed, the picture of the TV channel appears on the screen.

- The CH/CC number is a number given to each broadcast frequency that carries a TV channel. If the TV cannot detect the TV channel corresponding to the broadcast frequency indicated by the CH/CC number, a “no-signal” picture appears.

## ■ DELETE

**1 Press the ▼/▲ buttons to choose a TV channel**

Every time you press the ▼/▲ buttons, the programme number (PR) changes and the picture of the TV channel stored in the programme number (PR) appears on the screen.

**2 Press the yellow button to delete the TV channel**

The TV channel is deleted from the programme numbers (PR) list.

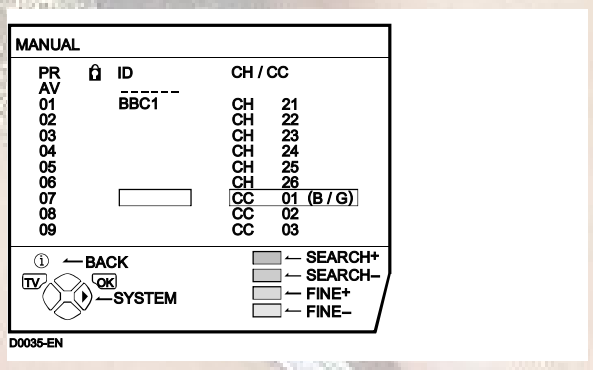
## ■ MANUAL

**Preparation:**

- If you register a TV channel (SECAM-L system) from a French station, be sure to set the COUNTRY setting to FRANCE. If the COUNTRY setting is not FRANCE, follow the description “Changing the COUNTRY setting” on page 36 to change the COUNTRY setting to FRANCE, then start the MANUAL function.

**1 Press the ▼/▲ buttons to choose a Programme number (PR) to which you want to register a new TV channel**

**2 Press the blue button to activate the MANUAL function**




**To cancel the MANUAL function:**

Press the ⓘ (information) button.

**When the COUNTRY setting is not UNITED KINGDOM:**

At the right side following the CH/CC number, the SYSTEM (broadcasting system) of the TV channel appears.

**3 When the COUNTRY setting is UNITED KINGDOM:**
**Continue to step 4**

**When the COUNTRY setting is not UNITED KINGDOM:**
**Press the ▶ button to choose the SYSTEM (broadcasting system) for a TV channel you want to register**

**TV channel (SECAM-L system) from a French station:**

Set the SYSTEM to “L”. If it is set to one other than “L”, you cannot receive the TV channel of the SECAM-L system.

**Other TV channels:**

If you do not know the correct broadcasting system, set the SYSTEM to “B/G”. If “B/G” is not correct, it results in the fact that you will not hear the sound normally when the TV detects a TV channel. In this case, retry to set the SYSTEM again correctly so that no problem arises.

**4 Press the green or red button to search for a TV channel**

Scanning stops when the TV finds a TV channel. Then the TV channel is displayed.

**5 Press the green or red button repeatedly until the TV channel you want appears**

**If the TV channel reception is poor:**

Press the blue or yellow button to fine-tune the TV channel.

**If you cannot hear the normal sound even when the picture of the TV channel appears normally:**

The SYSTEM setting is wrong. Press the ▶ button and choose a SYSTEM that has normal sound.

**6 Press the OK button and register the TV channel to a programme number (PR)**

The normal EDIT menu is resumed.

# Additional menu operations

## Using the ACI function

This TV has an ACI function which decodes the ACI (Automatic Channel Installation) data.
Using the ACI function allows all TV channels transmitted from the cable TV station to be properly registered quickly according to the data from the cable TV station.

### Caution

- If your cable TV station broadcasts ACI data and if "ACI START/ACI SKIP" appears in the AUTO PROGRAM menu, the ACI function is enabled. In all other cases, it is disabled.

**1 Press the ▼/▲ buttons to choose ACI START. Then press the OK button to start the ACI function**

**When you don't want to use the ACI function:**
Press the ▼/▲ buttons to choose ACI SKIP and then press the **OK** button.

**If the AUTO PROGRAM menu changes to another menu:**
Depending on your cable TV station, there may be a broadcast selection menu set up by the cable TV station. Follow the menu and use the ◄/► and ▼/▲ buttons. After you have made the setting, press the **OK** button.

**If "ACI ERROR" is displayed in the AUTO PROGRAM menu:**
"ACI ERROR" means that the ACI function is not working properly. Press the **OK** button to start the ACI function again.
If "ACI ERROR" still appears even after you have tried to start the ACI function several times, press the ► button to start the AUTO PROGRAM function. It does not cause any problem because all the TV channels are registered to the Programme numbers (PR) by the AUTO PROGRAM function.

**2 When the settings are completed, the EDIT menu is displayed. Return to the instructions that you were reading before, and continue the operation**

**When the "Initial settings" have been made:**
Return to step 6 of "Initial settings" on page 11.

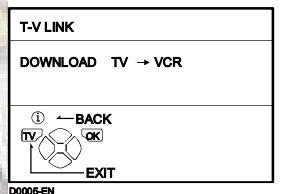
**When the "AUTO PROGRAM" has finished:**
Return to step 4 of "AUTO PROGRAM" on page 31.

- If you have any questions about the items in the Broadcast Selection menu or how to operate the menu, please contact your cable TV station.
- When the cable TV broadcast reception is poor, the ACI function will not work properly.
- If there is an error in the ACI data itself, the TV channel cannot be registered properly. If this happens, turn the ACI function off (ACI SKIP) and use the AUTO PROGRAM function. Or, use the EDIT/MANUAL function to correct the programme number (PR) setting.

## Downloading data to a VCR

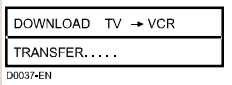
You can send the latest programme numbers (PR) data to a VCR with the T-V LINK function.

- You can only do this when a T-V LINK compatible VCR is connected to the EXT-2 terminal.
- This only works when the T-V LINK menu is being displayed.




**1 Turn on the VCR**

**2 Press the OK button**
The data transmission begins.




The T-V LINK menu disappears once the data transmission ends.

**When the T-V LINK menu changes over to another menu:**
The TV has finished its menu. This new menu is operated from the VCR. See the VCR instruction manual for what to do next.

If "FEATURE NOT AVAILABLE" appears at the T-V LINK menu, check the following three items.

- Has a T-V LINK compatible VCR been connected to the EXT-2 terminal?
- Has the VCR power been turned on?
- Does the SCART cable that connects the EXT-2 terminal to the T-V LINK compatible VCR have all its proper connections?

Then press the **OK** button to retry data transmission.

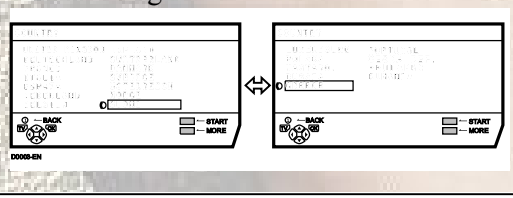
## Changing the COUNTRY setting

After the AUTO PROGRAM function is completed, you can change the country you have already set by using the AUTO PROGRAM function.
When registering the TV channels for French broadcast stations (SECAM-L system), perform this operation to change the country.

**1 Display the INSTALL menu**

**When the EDIT menu is currently being displayed:**
Press the ⓘ (information) to return to the INSTALL menu.

**2 Press the ▼/▲ buttons to choose AUTO PROGRAM. Then press the OK button**
A COUNTRY menu appears as a sub-menu of the AUTO PROGRAM function.
There are two COUNTRY menus. Pressing the yellow button changes the COUNTRY as follows:




**3 Press the ◄/► and the ▼/▲ buttons to choose a country**

**4 Press the OK button to complete the setting**
The menu disappears.

**To return to the INSTALL menu from the COUNTRY menu:**
Press the ⓘ (information) button instead of the **OK** button.

## Using the DECODER (EXT-2) function

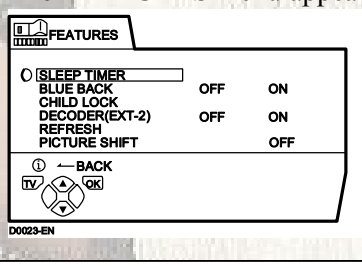
If you have a decoder connected to a T-V LINK compatible VCR, which in turn is connected to the EXT-2 terminal, use the DECODER (EXT-2) function to unscramble the scrambled TV channels.

**1 Turn on the decoder power**

**2 Display the scrambled TV channel on the TV**
Even if the decoder is working, a scrambled picture appears.

**3 Press the OK button to display the MENU**
The MENU (main menu) appears.

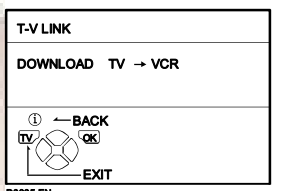
**4 Press the ▼/▲ buttons to choose FEATURES. Then press the OK button**
The FEATURES menu appears.




**5 Press the ▼/▲ buttons to choose DECODER (EXT-2). Then press the ◄/► buttons to choose ON**
An unscrambled picture appears.

**To cancel the DECODER (EXT-2) function:**
Press the ◄/► buttons to choose OFF.

**6 Press the OK button to complete the setting**
The T-V LINK menu appears.




**7 Follow “Downloading data to a VCR” on page 35 to transmit the programme number (PR) data to the VCR**

**8 If you have another TV channel you want to unscramble using a decoder, repeat steps 2 to 7**

If the DECODER (EXT-2) function has been set to “ON” but the TV channel cannot be unscrambled, check the following:

- Has the decoder been connected to the VCR properly according to the VCR and decoder instruction manuals?
- Has the decoder power been turned on?
- Can the TV channel be unscrambled with a decoder?
- Do you need to change the VCR settings in order to connect the decoder? Confirm that the VCR is set properly by rechecking the VCR Instruction manual.

# Additional preparation

## Connecting external equipment

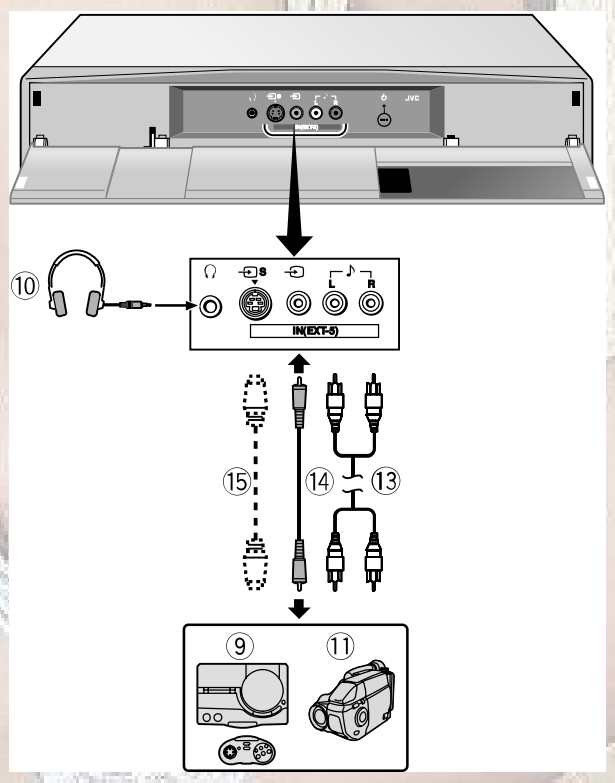
Connect the equipment to the TV, making the correct rear panel and front panel connections.

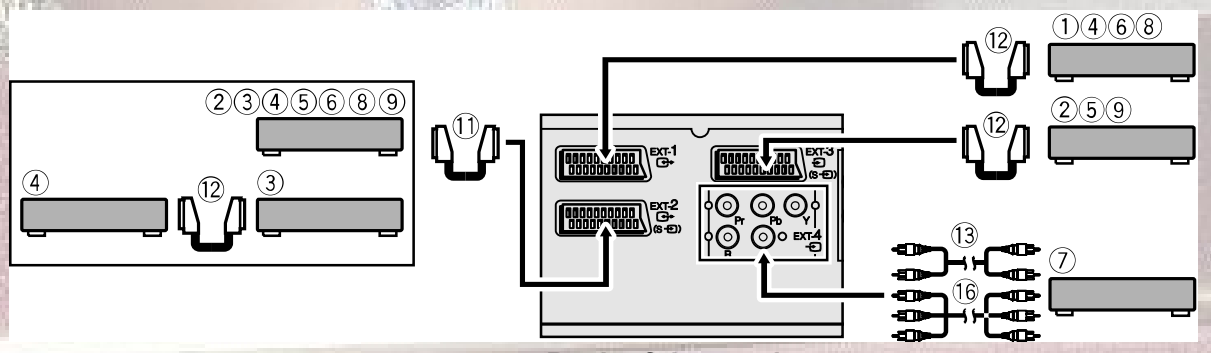
**Before connecting anything:**

- Read the manuals that came with the equipment. Depending on the equipment, the connection method may be different from the diagram. Also, the equipment settings may need to change depending on the connection method.
- Turn off all the equipment including the TV.
- The “Specifications” on page 42 give the details of the EXT terminals. If you are connecting equipment not listed in the following connection diagram, see the table to choose the best EXT terminal.
- Connecting cables are not supplied.

① VCR (composite signal)
② VCR (composite signal/S-VIDEO signal)
③ T-V LINK compatible VCR (composite signal/S-VIDEO signal)
④ Decoder
⑤ DVD player (composite signal/S-VIDEO signal)
⑥ DVD player (composite signal/RGB signal)
⑦ DVD player (component video signals; Pr/Pb/Y)
⑧ TV game (composite signal/RGB signal)
⑨ TV game (composite signal/S-VIDEO signal)
⑩ Headphones
⑪ Camcorder (composite signal/S-VIDEO signal)
⑫ SCART cable
⑬ Audio cable
⑭ Video cable
⑮ S-VIDEO cable
⑯ Component cable

**Front of the receiver**




**Back of the receiver**

## ■ Equipment which can output the S-VIDEO signal (Y/C signal) such as an S-VHS VCR

Connect the equipment to an EXT terminal (but not the EXT-1 terminal).

You can choose between an S-VIDEO signal (Y/C signal) and a regular video signal (composite signal). For details of how to operate the equipment, see “S-IN (S-VIDEO input)” on page 27.

## ■ T-V LINK compatible VCR

Be sure to connect the T-V LINK compatible VCR to the EXT-2 terminal. If not, the T-V LINK function will not work properly.

- When connecting a T-V LINK compatible VCR to the EXT-2 terminal, be sure to connect the decoder to the VCR. If not, the T-V LINK function may not work properly. After you have stored TV channels in the programme numbers (PR) list, set the DECODER (EXT-2) function for the programme number (PR) to ON to unscramble a scrambled TV channel. For details, see “Using the DECODER (EXT-2) function” on page 36.

## ■ Connecting headphones

Connect the headphones with a stereo mini-jack (3.5 mm diameter) to the headphone socket at the receiver.

- The headphone volume is adjusted with the “HEADPHONE” menu (see page 26).

## ■ Video or sound signal output from the EXT-2 terminal

You can change over the output of the video/sound signal from the EXT-2 terminal. This is useful when you want to dub the video/sound from another device onto the VCR connected to the EXT-2 terminal. For details on how to do this, see “DUBBING” on page 27.

## ■ TV output from the EXT-1 terminal

The video/sound signal of a TV channel you are viewing is always output from the EXT-1 terminal.

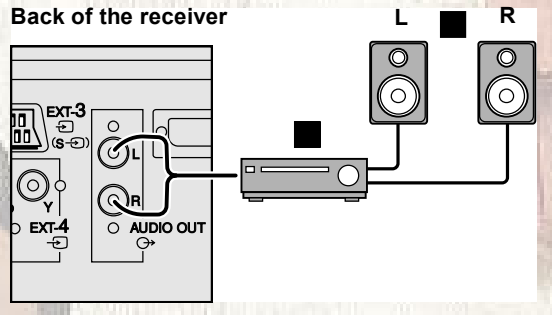
- Changing over a programme number (PR) also changes over the TV output from the EXT-1 terminal.
- The video/sound signal from an EXT terminal cannot be output.
- Teletext programmes cannot be output.

## ■ Connecting Speakers/Amplifier

See the Audio equipment connection diagram, then connect the audio equipment you desire to the TV.
You can use external front speakers to listen to the TV sound instead of the TV speakers.

**Before connecting anything:**

- Read the manuals provided with the amplifier and speakers.
- Turn the TV and amplifier off.
- To prevent magnetism from the speakers adversely affecting the TV screen, use magnetically-shielded speakers for the front speakers.
- Note that connecting cables are not supplied.




1 Amplifier
2 External speakers (Magnetic-shielded type)

- The output from the AUDIO OUT terminal is not interrupted by headphone connection to the TV. You cannot cut the sound from the front speaker even if you connect a headphone to the TV.
- Adjust the volume of the external speakers with the amplifier.

# CH/CC numbers

When you want to use the INSERT function on page 33, find the CH/CC number corresponding to the Channel number of the TV channel from this table.

| CH | Channel |
|---|---|
| CH 02 / CH 202 | E2, R1 |
| CH 03 / CH 203 | E3, ITALY A |
| CH 04 / CH 204 | E4, ITALY B, R2 |
| CH 05 / CH 205 | E5, ITALY D, R6 |
| CH 06 / CH 206 | E6, ITALY E, R7 |
| CH 07 / CH 207 | E7, ITALY F, R8 |
| CH 08 / CH 208 | E8, R9 |
| CH 09 / CH 209 | E9, ITALY G |
| CH 10 / CH 210 | E10, ITALY H, R10 |
| CH 11 / CH 211 | E11, ITALY H+1, R11 |
| CH 12 / CH 212 | E12, ITALY H+2, R12 |
| CH 21 / CH 221 | E21, R21 |
| CH 22 / CH 222 | E22, R22 |
| CH 23 / CH 223 | E23, R23 |
| CH 24 / CH 224 | E24, R24 |
| CH 25 / CH 225 | E25, R25 |
| CH 26 / CH 226 | E26, R26 |
| CH 27 / CH 227 | E27, R27 |
| CH 28 / CH 228 | E28, R28 |
| CH 29 / CH 229 | E29, R29 |
| CH 30 / CH 230 | E30, R30 |
| CH 31 / CH 231 | E31, R31 |
| CH 32 / CH 232 | E32, R32 |
| CH 33 / CH 233 | E33, R33 |
| CH 34 / CH 234 | E34, R34 |
| CH 35 / CH 235 | E35, R35 |
| CH 36 / CH 236 | E36, R36 |
| CH 37 / CH 237 | E37, R37 |
| CH 38 / CH 238 | E38, R38 |
| CH 39 / CH 239 | E39, R39 |

| CH | Channel |
|---|---|
| CH 40 / CH 240 | E40, R40 |
| CH 41 / CH 241 | E41, R41 |
| CH 42 / CH 242 | E42, R42 |
| CH 43 / CH 243 | E43, R43 |
| CH 44 / CH 244 | E44, R44 |
| CH 45 / CH 245 | E45, R45 |
| CH 46 / CH 246 | E46, R46 |
| CH 47 / CH 247 | E47, R47 |
| CH 48 / CH 248 | E48, R48 |
| CH 49 / CH 249 | E49, R49 |
| CH 50 / CH 250 | E50, R50 |
| CH 51 / CH 251 | E51, R51 |
| CH 52 / CH 252 | E52, R52 |
| CH 53 / CH 253 | E53, R53 |
| CH 54 / CH 254 | E54, R54 |
| CH 55 / CH 255 | E55, R55 |
| CH 56 / CH 256 | E56, R56 |
| CH 57 / CH 257 | E57, R57 |
| CH 58 / CH 258 | E58, R58 |
| CH 59 / CH 259 | E59, R59 |
| CH 60 / CH 260 | E60, R60 |
| CH 61 / CH 261 | E61, R61 |
| CH 62 / CH 262 | E62, R62 |
| CH 63 / CH 263 | E63, R63 |
| CH 64 / CH 264 | E64, R64 |
| CH 65 / CH 265 | E65, R65 |
| CH 66 / CH 266 | E66, R66 |
| CH 67 / CH 267 | E67, R67 |
| CH 68 / CH 268 | E68, R68 |
| CH 69 / CH 269 | E69, R69 |

| CC | Channel |
|---|---|
| CC 01 / CC 201 | S1 |
| CC 02 / CC 202 | S2 |
| CC 03 / CC 203 | S3 |
| CC 04 / CC 204 | S4 |
| CC 05 / CC 205 | S5 |
| CC 06 / CC 206 | S6 |
| CC 07 / CC 207 | S7 |
| CC 08 / CC 208 | S8 |
| CC 09 / CC 209 | S9 |
| CC 10 / CC 210 | S10 |
| CC 11 / CC 211 | S11 |
| CC 12 / CC 212 | S12 |
| CC 13 / CC 213 | S13 |
| CC 14 / CC 214 | S14 |
| CC 15 / CC 215 | S15 |
| CC 16 / CC 216 | S16 |
| CC 17 / CC 217 | S17 |
| CC 18 / CC 218 | S18 |
| CC 19 / CC 219 | S19 |
| CC 20 / CC 220 | S20 |
| CC 21 / CC 221 | S21 |
| CC 22 / CC 222 | S22 |
| CC 23 / CC 223 | S23 |
| CC 24 / CC 224 | S24 |
| CC 25 / CC 225 | S25 |
| CC 26 / CC 226 | S26 |
| CC 27 / CC 227 | S27 |
| CC 28 / CC 228 | S28 |
| CC 29 / CC 229 | S29 |
| CC 30 / CC 230 | S30 |

| CC | Channel |
|---|---|
| CC 31 / CC 231 | S31 |
| CC 32 / CC 232 | S32 |
| CC 33 / CC 233 | S33 |
| CC 34 / CC 234 | S34 |
| CC 35 / CC 235 | S35 |
| CC 36 / CC 236 | S36 |
| CC 37 / CC 237 | S37 |
| CC 38 / CC 238 | S38 |
| CC 39 / CC 239 | S39 |
| CC 40 / CC 240 | S40 |
| CC 41 / CC 241 | S41 |
| CC 75 / CC 275 | X |
| CC 76 / CC 276 | Y, R3 |
| CC 77 / CC 277 | Z, ITALY C, R4 |
| CC 78 / CC 278 | Z+1, R5 |
| CC 79 / CC 279 | Z+2 |

| CH | Channel |
|---|---|
| CH 102 | F2 |
| CH 103 | F3 |
| CH 104 | F4 |
| CH 105 | F5 |
| CH 106 | F6 |
| CH 107 | F7 |
| CH 108 | F8 |
| CH 109 | F9 |
| CH 110 | F10 |
| CH 121 | F21 |
| CH 122 | F22 |
| CH 123 | F23 |
| CH 124 | F24 |
| CH 125 | F25 |
| CH 126 | F26 |
| CH 127 | F27 |
| CH 128 | F28 |
| CH 129 | F29 |
| CH 130 | F30 |
| CH 131 | F31 |
| CH 132 | F32 |
| CH 133 | F33 |
| CH 134 | F34 |
| CH 135 | F35 |
| CH 136 | F36 |
| CH 137 | F37 |
| CH 138 | F38 |
| CH 139 | F39 |
| CH 140 | F40 |

| CH | Channel |
|---|---|
| CH 141 | F41 |
| CH 142 | F42 |
| CH 143 | F43 |
| CH 144 | F44 |
| CH 145 | F45 |
| CH 146 | F46 |
| CH 147 | F47 |
| CH 148 | F48 |
| CH 149 | F49 |
| CH 150 | F50 |
| CH 151 | F51 |
| CH 152 | F52 |
| CH 153 | F53 |
| CH 154 | F54 |
| CH 155 | F55 |
| CH 156 | F56 |
| CH 157 | F57 |
| CH 158 | F58 |
| CH 159 | F59 |
| CH 160 | F60 |
| CH 161 | F61 |
| CH 162 | F62 |
| CH 163 | F63 |
| CH 164 | F64 |
| CH 165 | F65 |
| CH 166 | F66 |
| CH 167 | F67 |
| CH 168 | F68 |
| CH 169 | F69 |

| CC | Frequency (MHz) |
|---|---|
| CC 110 | 116 - 124 |
| CC 111 | 124 - 132 |
| CC 112 | 132 - 140 |
| CC 113 | 140 - 148 |
| CC 114 | 148 - 156 |
| CC 115 | 156 - 164 |
| CC 116 | 164 - 172 |
| CC 123 | 220 - 228 |
| CC 124 | 228 - 236 |
| CC 125 | 236 - 244 |
| CC 126 | 244 - 252 |
| CC 127 | 252 - 260 |
| CC 128 | 260 - 268 |
| CC 129 | 268 - 276 |
| CC 130 | 276 - 284 |
| CC 131 | 284 - 292 |
| CC 132 | 292 - 300 |
| CC 133 | 300 - 306 |
| CC 141 | 306 - 311 |
| CC 142 | 311 - 319 |
| CC 143 | 319 - 327 |
| CC 144 | 327 - 335 |
| CC 145 | 335 - 343 |
| CC 146 | 343 - 351 |
| CC 147 | 351 - 359 |
| CC 148 | 359 - 367 |
| CC 149 | 367 - 375 |
| CC 150 | 375 - 383 |
| CC 151 | 383 - 391 |

| CC | Frequency (MHz) |
|---|---|
| CC 152 | 391 - 399 |
| CC 153 | 399 - 407 |
| CC 154 | 407 - 415 |
| CC 155 | 415 - 423 |
| CC 156 | 423 - 431 |
| CC 157 | 431 - 439 |
| CC 158 | 439 - 447 |
| CC 159 | 447 - 455 |
| CC 160 | 455 - 463 |
| CC 161 | 463 - 469 |

- When two CH/CC numbers correspond to one Channel number, choose either one according to the current COUNTRY setting. When the COUNTRY setting is other than FRANCE, choose a two-digit CH/CC number. When the COUNTRY setting is FRANCE, choose a three-digit CH/CC number.
- Find the CH/CC number (CC110 to CC161) corresponding to the TV channel (SECAM-L system) from a French cable TV station, based on the broadcast frequency of the TV channel. When you do not know the broadcast frequency, please contact the cable TV station.
- The CH/CC numbers of CH102-CH169 and CC110-CC161 correspond to the TV channels being broadcast by a SECAM-L system. The other CH/CC numbers correspond to the TV channels being broadcast by a method other than a SECAM-L system.
- When the COUNTRY setting is UNITED KINGDOM, the TV can receive only channels CH21 to CH69.

# Troubleshooting

If a problem arises while you are using the TV, please read this troubleshooting guide carefully before you ask to have the TV repaired. You may be able to fix it easily by yourself. For example, if the mains plug is disconnected from the mains outlet, or the TV aerial has problems, you may think there is a problem with the TV itself.

**Important:**

- This troubleshooting guide only covers problems whose causes are not easy to decide. If you have a question when you are operating a function, read the page(s) for that function carefully, not this troubleshooting guide.
- If you follow the advice in this troubleshooting guide without any success, unplug the mains plug and ask for your TV to be repaired. Do not attempt to repair the TV by yourself or to remove the rear cover of the TV.

## ■ If you cannot turn on the TV

- Are the mains plugs on the power cords from the TV and receiver connected to mains outlets?
- Make sure to set the VCR/TV/DVD switch to the TV position. You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

## ■ If you cannot turn off the TV

- Make sure to set the VCR/TV/DVD switch to the TV position. You cannot turn the TV off when the VCR/TV/DVD switch is set to the VCR or DVD position.

## ■ No picture or no sound

- Have you chosen a TV channel with very poor reception? If so, the BLUE BACK function will be activated: the entire screen becomes blue, and the sound is muted. If you still want to view the TV channel, follow the description “BLUE BACK” on page 29 to change the BLUE BACK function setting to OFF.
- Have you set the SPEAKER function to OFF? Follow the description “SPEAKER” on page 25 to check the SPEAKER function setting.
- If the SYSTEM setting for a TV channel is incorrect, it may prevent the sound from being issued. Follow the description “EDIT/MANUAL” on page 32 to use the MANUAL function to try to change the SYSTEM setting.

## ■ Poor picture

- If noise (snow) totally blocks out the picture, there may be a problem with the aerial or aerial cable. Check the following to try to solve the problem:
  –Have the TV and aerial been connected properly?
  –Has the aerial cable been damaged?
  –Is the aerial pointing in the right direction?
  –Is the aerial itself faulty?
- If the TV or aerial suffers interference from other equipment, stripes or noise may appear in the picture. Move any equipment such as an amplifier, personal computer, or a hair drier, that can cause interference away from your TV. Or try moving the TV. If the aerial suffers interference from a radio tower or high-voltage wire, please contact your local dealer.
- If the TV suffers interference from signals reflecting from mountains or buildings, double-pictures (ghosting) will occur. Try to change the aerial’s direction or replace it with one with better directionality.
- Are your COLOUR SYSTEM settings correct? Follow the description “COLOUR SYSTEM” on page 23 to try to solve the trouble.
- Have the COLOUR and BRIGHT settings been adjusted properly? Follow the description “Picture Adjustment” on page 21 to try to adjust them properly.
- Videotaping teletext is not recommended because it may not record correctly.
- When viewing images from commercially available video software products, or videos from videotapes which have been recorded improperly, the top of the image may be distorted. This is due to the condition of the video signal. There is nothing wrong with the TV.

## ■ Poor sound

- Have you adjusted BASS or TREBLE properly? If not, follow the description “Sound Adjustment” on page 25.
- When TV channel reception is poor, it can be hard to hear stereo or bilingual sound. In this case, follow the description “STEREO / I • II” on page 25 to hear the sound more easily by changing it to a mono sound.

## ■ If the TV does not respond to the remote control

- Have the batteries of the remote control worn out? Follow the description “Putting the batteries into the Remote control” on page 6 and replace them with new batteries.
- Have you attempted to use the remote control from the sides or rear of the TV or from more than seven metres away from the TV? Use the remote control in the front of your TV or from less than seven metres away.
- When you are viewing a teletext programme, you cannot operate the menus. Press the ***TV*** button to return to the ordinary TV programme, and then try operating the menus.
- If the TV suddenly stops responding, disconnect the power cords of the TV and receiver from the AC outlets. Connect them to the AC outlets again to turn on the TV. If the TV returns to a normal state, it is not a failure.

## ■ Other concerns

- When the SLEEP TIMER function operates, the TV is automatically turned off. If the TV suddenly turns off, try to press the ⏻/I (standby) button to turn on the TV once again. If the TV goes back to normal, there is no problem.
- When the TV is receiving a wide-screen signal (WSS) or a signal from an external device affecting the screen size, the ZOOM mode automatically changes. When you want to resume the previous ZOOM mode, press the **ZOOM** button again.
- It takes a short period of time from the time an operation such as changing channels is performed until an image is displayed. This is not a malfunction. This is the time required for the image to stabilize before it can be displayed.
- The TV may make a crackling sound due to a sudden change in temperature. The picture or sound may be normal. If you hear crackling sounds frequently while you are viewing the TV, there may be other causes. As a precaution, ask your service technician to inspect it.
- In the twin pictures mode the sub-picture may disappear when the external device is operated. If this happens, press the ◑ button and display the sub-picture again.
- The headphone volume is adjusted with the "HEADPHONE" menu. It cannot be adjusted with the ◿ (volume) −/+ buttons.
- When TV SPEAKER in the "HEADPHONE" menu is ON, even if the headphones are connected, sound is emitted from the TV speaker. When you do not want to emit sound from the TV speaker, turn the setting OFF.
- Even if the PICTURE SHIFT function is turned off, the picture may shift to the left or right when the channel or input is changed. This is to prevent burn-in and is not a fault.

# Specifications

| Item \ Model | PD-42V31BUE/PD-42V31BJE/PD-42V31BSE | |
|---|---|---|
| Broadcasting systems | CCIR B/G, I, D/K, L | |
| Colour systems | PAL, SECAM<br>• The EXT terminals also support the NTSC 3.58/4.43 MHz system. | |
| Channels and frequencies | • E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2, ITALY A-H, ITALY H+1, ITALY H+2, F2-F10, F21-F69, R1-R12, R21-R69, IR A-J<br>• French cable TV channel of broadcast frequencies 116 - 172 MHz and 220 - 469 MHz | |
| Sound-multiplex systems | A2 (B/G, D/K), NICAM (B/G, I, D/K, L) system | |
| Teletext systems | FLOF (Fastext), TOP, WST (World Standard System) | |
| Power requirements | 110 - 240 V AC, 50/60 Hz | |
| Power consumption | TV:<br>338 W, Standby: 1.5 W | |
| | Receiver:<br>30 W, Standby: 2.4 W | |
| Screen size | Viewable area 107.5 cm (measured diagonally) | |
| Audio output | Rated Power output: 18 W + 18 W | |
| Speakers | (3 cm × 10 cm) oval × 2<br>(6.5 cm × 13 cm) oval × 2 | |
| EXT-1 terminal | Euroconnector (21-pin, SCART)<br>• Video input, Audio L/R inputs and RGB inputs are available.<br>• TV broadcast outputs (Video and Audio L/R) are available. | |
| EXT-2 terminal | Euroconnector (21-pin, SCART)<br>• Video input, S-VIDEO (Y/C) input, Audio L/R inputs and RGB inputs are available.<br>• Video and Audio L/R outputs are available.<br>• T-V LINK functions are available. | |
| EXT-3 terminal | Euroconnector (21-pin, SCART)<br>• Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available. | |
| EXT-4 terminal | RCA connectors × 5<br>• Component video (Pr, Pb, Y) inputs and Audio L/R inputs are available.<br>• progressive-scanning signals (625p or 525p) are available. | |
| EXT-5 terminal | RCA connectors × 3<br>S-VIDEO connector × 1<br>• Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available. | |
| AUDIO OUT terminal | RCA connectors × 2<br>• Audio L/R outputs are available. | |
| Headphone jack | Stereo mini-jack (3.5 mm in diameter) | |
| Dimensions (W × H × D) | TV: | 1160 mm × 731 mm × 98 mm (TV only) |
| | Receiver: | 435 mm × 99 mm × 382 mm |
| Weight | TV: | 38 kg (TV only) |
| | Receiver: | 5.3 kg |
| Accessories | Refer to “Checking contents of packages” on page 5. | |

**Design and specifications subject to change without notice.**

Pictures displayed on the screen using this TV’s ZOOM functions should not be shown for any commercial or demonstration purpose in public places (cafes, hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.

VICTOR COMPANY OF JAPAN, LIMITED

Vielen Dank für den Erwerb dieses Farbfernsehers von JVC.
Um sicherzustellen, dass Sie Ihr neues Fernsehgerät richtig bedienen können, lesen Sie diese Anleitung sorgfältig, bevor Sie beginnen.

**ACHTUNG: ZUR VERMEIDUNG VON FEUER ODER ELEKTRISCHEM SCHLAG SETZEN SIE DIESES GERÄT KEINEM REGEN ODER FEUCHTIGKEIT AUS.**

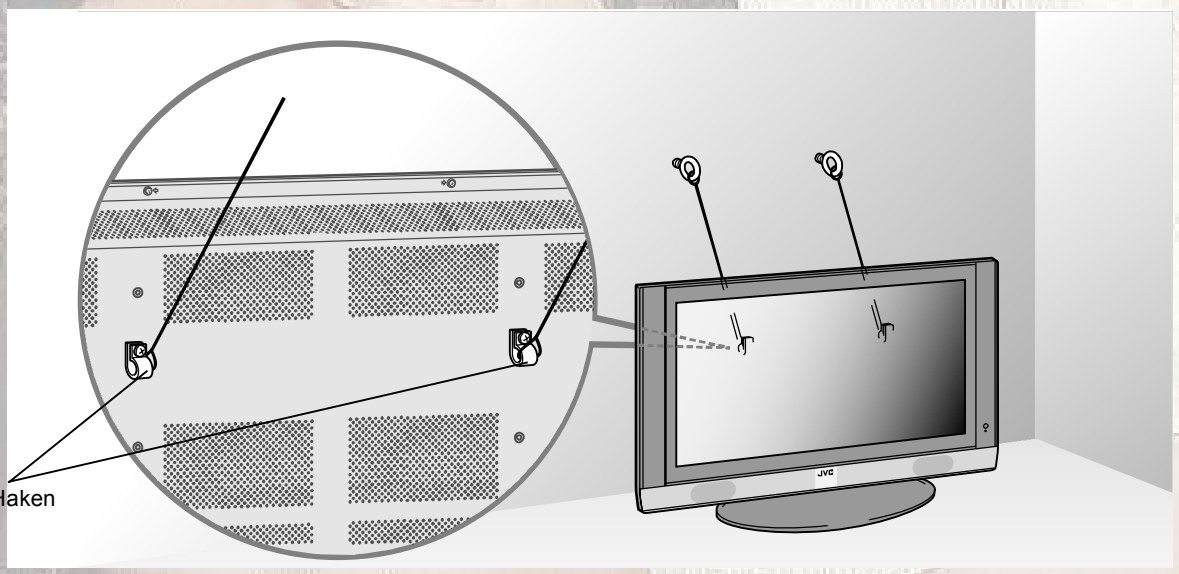
## ACHTUNG:

Benutzen Sie immer die Netzkabel, die mit Fernsehgerät und Empfänger geliefert wurden.
Mit diesem Fernsehgerät werden verschiedene Netzkabel geliefert. Benutzen Sie das Netzkabel mit dem Steckersystem, das in Ihrem Land normalerweise verwendet wird, und stecken Sie es in eine ordnungsgemäß geerdete Steckdose.
Wenn Sie das mitgelieferte Netzkabel in eine gar nicht oder schlecht geerdete Netzsteckdose stecken, kann dies einen elektrischen Schlag verursachen.

## WARNHINWEISE FÜR DIE TISCHAUFSTELLUNG:

Um die Sicherheit in Notfällen wie Erdbeben zu gewährleisten und um Unfälle zu vermeiden, ergreifen Sie die notwendigen Maßnahmen, so dass der Fernseher nicht umkippen oder herunterfallen kann.

- Benutzen Sie die mitgelieferten Schrauben, um die beiliegenden Haken an der Rückseite des Fernsehers anzubringen, und benutzen Sie im Handel erhältliche, stabile Seile, um das Gerät an festen Gegenständen wie Wänden und Säulen festzubinden.



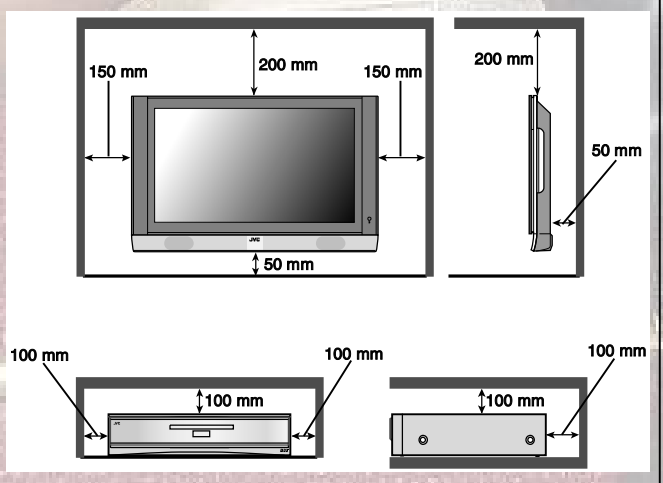



## VORSICHT:

- Betreiben Sie das Gerät nur an einem Netz mit der am Gerät angegebenen Spannung (110 – 240 V Wechselspannung, 50/60 Hz).
- Vermeiden Sie Beschädigungen des Netzkabels oder des Netzsteckers.
- Für den Fall, dass Sie dieses Gerät für längere Zeit nicht benutzen, empfehlen wir Ihnen, den Netzstecker aus der Netzsteckdose zu ziehen.
- Die Umgebungstemperatur für den Betrieb des Gerätes beträgt 0° bis 40°C. Betreiben des Geräts außerhalb dieses Temperaturbereiches kann dazu führen, dass es nicht richtig funktioniert oder sogar zerbricht.

## Empfohlene Abstände

Vermeiden Sie fehlerhafte Installation, und stellen Sie das Gerät niemals so auf, dass keine ausreichende Belüftung gewährleistet ist.
Bei der Aufstellung dieses Fernsehgerätes müssen bestimmte Abstände zu Wand und Boden eingehalten werden, besonders bei der Aufstellung auf engem Raum oder in einem Möbelstück.
Beachten Sie für den sicheren Betrieb als Richtlinie die gezeigten Minimalabstände.



## Eingebranntes Bild

Eine besondere Eigenschaft von Plasma Display Panels (PDPs) ist die, dass die Anzeige ein und desselben Bildes für längere Zeit dazu führt, dass Teile davon niemals mehr verschwinden (Einbrennen in die Phosphorschicht).

### Vermeiden Sie ein Einbrennen wie folgt.

■ **Benutzen Sie die PIXEL-ROTATION-Funktion. Um Einbrennen zu verhindern, wird das am Bildschirm angezeigte Bild in regelmäßigen Abständen nach oben, unten, links und rechts verschoben. Weitere Informationen dazu finden Sie auf Seite Seite 30.**

- Auch bei deaktivierter PIXEL-ROTATION-Funktion kann sich das Bild beim Wechseln des Eingangs oder Kanals nach links oder rechts verschieben.

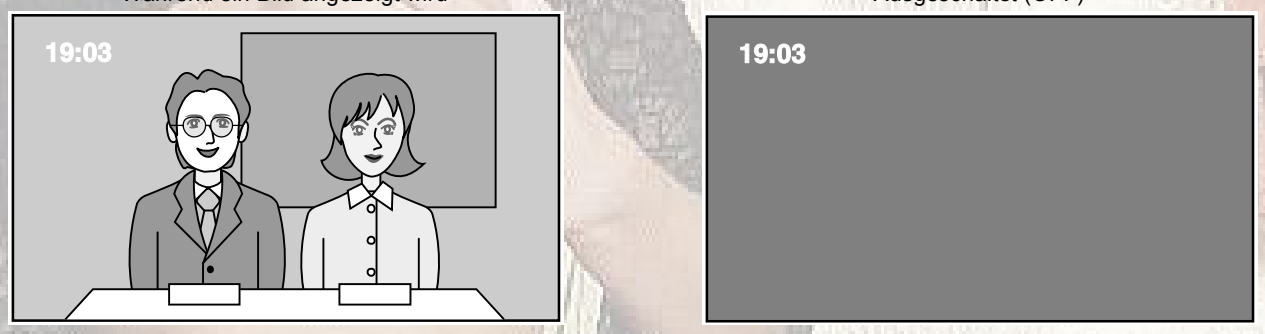
■ **Die BILDEINST.-Funktion ist anfangs auf HELLIGKEIT eingestellt. Wenn das Fernsehgerät nicht in einem extrem hellen Raum verwendet wird, empfehlen wir die BILDEINST.-Einstellung auf NORMAL oder WEICH zu ändern. Das verringert die Gefahr von PDP-Einbrennen und verlängert die Lebensdauer des PDP. Siehe “BILDEINST.” auf Seite 21.**

■ **Lassen Sie keine Standbilder oder Textzeilen für längere Zeit anzeigen.**

Während ein Bild angezeigt wird

Ausgeschaltet (OFF)

Eingebranntes Bild (Beispiel)




- Reduzieren Sie beim Fernsehen KONTRAST und HELLIGKEIT im Menü BILD EINSTELLUNG (Seite 21).

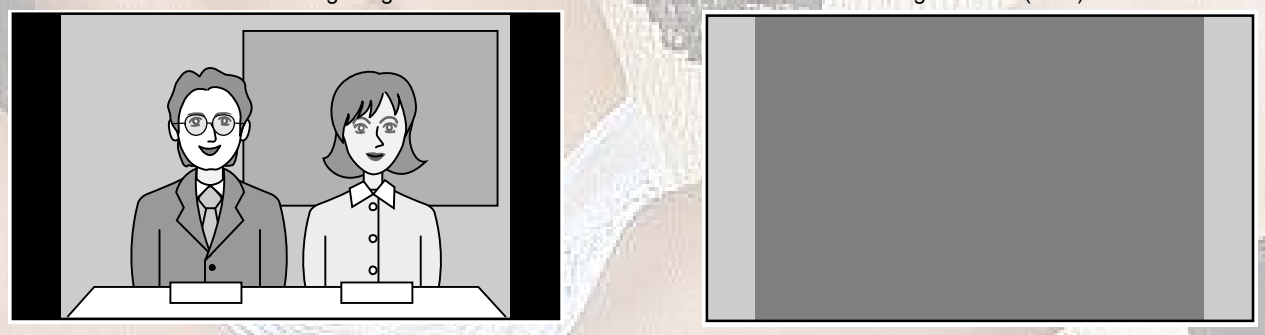
■ **Sehen Sie nicht zu lange im Modus NORMAL fern (Seite 15).**

Normalerweise wird die Bildgröße so gewählt, dass das Bild den ganzen Bildschirm ausfüllt. Nachdem Sie im NORMAL-Modus ferngesehen haben, bei dem links und rechts schwarze Streifen eingeblendet sind, wird empfohlen, auf den PANORAMIC-Modus umzuschalten, der das Bild bildschirmfüllend darstellt.

Während ein Bild angezeigt wird

Ausgeschaltet (OFF)

Eingebranntes Bild (Beispiel)



■ **Sehen Sie nicht zu lange im Modus PIP (Seite 16) oder MULTI-BILD (Seite 17) fern.**

### Wenn sich ein Bild eingebrannt hat

Wenn sich ein Bild eingebrannt hat, probieren Sie die Funktion REFRESH-SCHNEE aus (Seite 30). Wenn das Bild nur wenig eingebrannt ist, kann es nach einiger Zeit wieder schwächer werden.

**Note:Sobald jedoch ein Bild eingebrannt ist, verschwindet es niemals mehr vollständig.**

### Pixelfehler

PDPs benutzen zur Darstellung der Bilder Gruppen von kleinen Pixeln (Picture Elements). Mehr als 99.99% all dieser Pixel funktionieren fehlerfrei, aber haben Sie bitte dafür Verständnis, dass eine kleine Zahl von Pixeln nicht oder nicht immer leuchten.

### Stellen Sie den Fernseher nicht in der Nähe von elektronischen Geräten auf, die empfindlich auf elektromagnetische Wellen reagieren.

Dadurch können Bild- und Tonstörungen usw. auftreten. Stellen Sie vor allem Video-Geräte in ausreichender Entfernung von diesem Gerät auf.

### Auswirkung auf Infrarot-Geräte

Es kann zu Störungen kommen, wenn Sie Infrarot-Geräte wie kabellose Kopfhörer verwenden.

### Die Nichtbeachtung der folgenden Vorsichtsmaßnahmen kann Schäden am Gerät oder an der Fernbedienung zur Folge haben.

**Blockieren Sie NICHT die Belüftungsöffnungen des Gerätes.**
(Wenn die Belüftungsöffnungen durch Papier, Stoff usw. verschlossen werden, kann die im Gerät entstehende Hitze nicht entweichen.)

**Stellen Sie NICHTS auf das Fernsehgerät.**
(z.B. Kosmetikartikel oder Medikamente, Blumenvasen, Topfpflanzen, Tassen usw.)

**Achten Sie darauf, dass keine Gegenstände oder Flüssigkeiten durch die Gehäuseöffnungen in das Gerät gelangen können.**
(Wenn Wasser oder andere Flüssigkeiten in dieses Gerät gelangen, kann ein Brand oder ein elektrischer Schlag entstehen.)

**Stellen Sie kein offenes Feuer, beispielsweise Kerzen, auf oder neben das Fernsehgerät.**

Die Oberfläche der Bildröhre kann leicht beschädigt werden. Seien Sie vorsichtig im Umgang mit dem Fernsehgerät.
Sollte der Fernsehbildschirm verschmutzt sein, wischen Sie ihn mit einem weichen, trockenen Tuch ab. Reiben Sie niemals mit größerem Kraftaufwand auf dem Bildschirm.
Benutzen Sie hierfür niemals Reinigungs- oder Lösungsmittel.

Bei Auftreten von Fehlfunktionen ziehen Sie den Stecker und wenden Sie sich an einen Fernsehtechniker. Versuchen Sie nicht, das Gerät selbst zu reparieren oder die hintere Abdeckung abzunehmen.

### D.I.S.T.-Demonstration

Starten der D.I.S.T.-Demonstration:
Drücken Sie die Taste **OK**, so dass MENUE (das Hauptmenü) angezeigt wird. Drücken Sie dann die gelbe Taste.
Es erscheint ein zweigeteiltes Bild ( D.I.S.T. eingeschaltet und D.I.S.T. ausgeschaltet) auf der Anzeige.

Beenden der D.I.S.T.-Demonstration:
Drücken Sie die gelbe Taste, die Tasten ***TV***, P ∨/∧ oder eine der Zifferntasten.

# INHALT


**Paketinhalt prüfen .....5**

**Aufbau und Anschluss Ihres Fernsehgerätes .....6**

Aufstellung .....6
Einsetzen der Batterien in die Fernbedienung ...6

**Anschlüsse .....7**

Anschlussbeispiel .....7
Anschließen von Fernseher und Empfänger .....8
Anschließen von Antenne und Videorekorder ...8
Anschließen des Netzkabels an der Netzsteckdose .....9

**Grundeinstellungen.....10**

T-V LINK FUNKTIONEN.....11

**Die Tasten am Fernsehgerät und deren Funktionen .....12**

Einschalten des Fernsehers aus dem Standby-Modus .....12
Programmnummer wählen.....12
Bildsignale von externen Geräten betrachten ..12
Lautstärke einstellen .....12
Benutzung des Kopfhörers .....12
Benutzung des Menüs .....12

**Tasten und Funktionen der Fernbedienung .....13**

Ein- und Ausschalten des Fernsehers aus dem Bereitschaftsmodus .....13
Fernsehsender wählen .....13
Lautstärke einstellen .....14
Bildsignale von externen Geräten betrachten ..14
ZOOM-Funktion .....15
3D SOUND-Funktion .....15
Anzeige der aktuellen Uhrzeit .....16
Sofortige Rückkehr zum Fernsehkanal .....16
Verwendung der STANDBILD-Funktion .....16
Verwendung der PIP-Funktion.....16
Verwendung der MULTI-BILD-Funktion.....17
Bedienung eines Videorekorders (VCR) oder DVD-Spielers von JVC .....17

**Videotext-Funktion .....18**

Allgemeine Bedienung .....18
Verwendung des Listenmodus.....18
Halten.....18
Unter-Seiten.....19
Aufdecken .....19
Größe.....19
Inhalt .....19
Abbrechen.....19

**Bedienung des Menüs des Fernsehers.....20**

Allgemeine Bedienung .....20

**BILD EINSTELLUNG ..... 21**

BILDEINST..... 21
Bildeinstellung ..... 21
FARBTEMP..... 21

**BILD VARIANTEN..... 22**

DIGITAL VNR..... 22
Super DigiPure..... 22
EMPFANGSSYSTEM ..... 23
KINO-EFFEKT ..... 23
4:3 AUTO ZOOM ..... 23
COLOUR MANAGEMENT ..... 23
PIP ..... 24

**SOUND EINSTELLUNG..... 25**

STEREO / I • II ..... 25
Toneinstellungen..... 25
LAUTSPRECHER..... 25
BBE ..... 25
3D SOUND..... 25
A.H.B. (Active Hyper Bass) ..... 25
KOPFHÖRER ..... 26

**EXT EINSTELLUNG..... 27**

S-IN (S-VIDEO-Eingang) ..... 27
ID LISTE..... 27
ÜBERSPIELEN..... 27

**FUNKTIONEN ..... 29**

SLEEP TIMER ..... 29
BLAU-BILD..... 29
KINDERSICHERUNG ..... 29
DECODER (EXT-2) ..... 30
REFRESH-SCHNEE..... 30
PIXEL-ROTATION ..... 30

**PROGRAMMIERUNG ..... 31**

SPRACHE..... 31
AUTO ..... 31
SENDER ORDNEN/MANUELL..... 32

**Zusätzliche Menüfunktionen..... 35**

Verwendung der ACI-Funktion..... 35
Herunterladen (Download) der Daten zum Videorekorder ..... 35
Ändern der LAND-Einstellung ..... 36
Verwendung der DECODER (EXT-2) -Funktion ..... 36

**Zusätzliche Vorbereitungen ..... 37**

Anschluss externer Geräte..... 37

**CH/CC-Nummern..... 39**

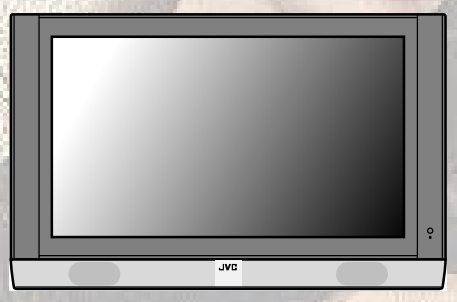
**Problemlösungen..... 40**

**Technische Daten ..... 42**

# Paketinhalt prüfen

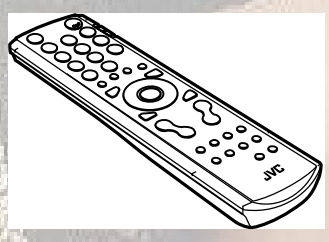
Prüfen Sie, ob alle Komponenten vorhanden sind. Wenden Sie sich bitte sofort an Ihren Händler, falls Teile fehlen sollten.



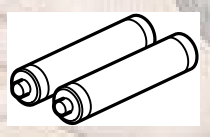


Fernsehgerät

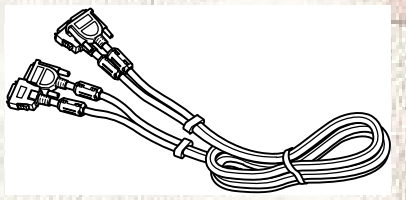
Empfänger



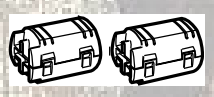
Fernbedienung

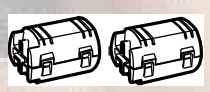


AA/R6-Batterien
(nur zur Funktionsprüfung)



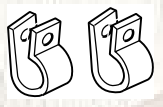
Systemkabel





Ferritkern × 4

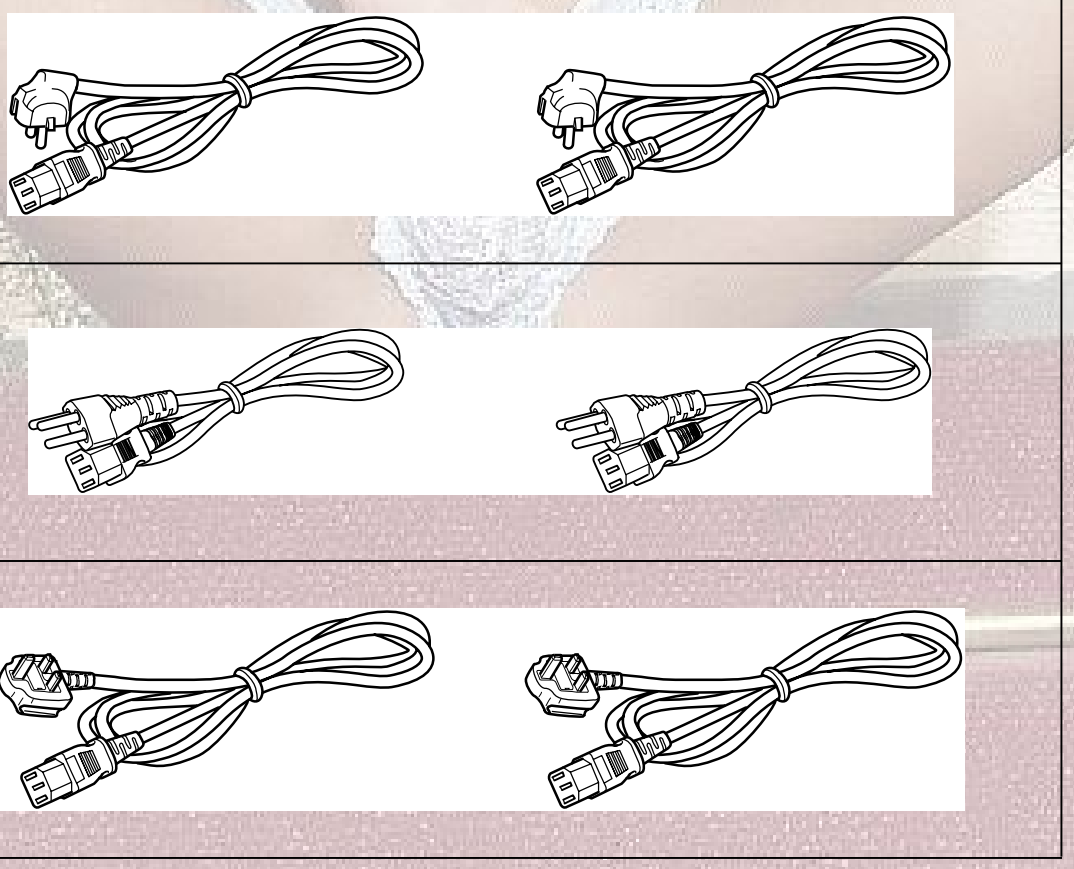
Befestigungsschraube × 2



Haken × 2

**Netzkabel**

- Eines der unten abgebildeten und für die Gegend, in der Sie dieses Fernsehgerät gekauft haben, geeignete Netzkabel wird mit dem Fernsehgerät mitgeliefert.



- Manche Modelle werden mit Ständer oder Wandbefestigung geliefert.

# Aufbau und Anschluss Ihres Fernsehgerätes

**Heben Sie das Fernsehgerät nur mit mehr als 2 Personen hoch. Das Gerät ist für eine Person zu schwer und wenn es herunterfällt, können Verletzungen und Schäden die Folge sein.**

## Aufstellung

■ **Je nach Modell wird das Gerät möglicherweise mit einer Wandbefestigungseinheit oder einem Standfuß geliefert. In diesen Fällen ist im Lieferumfang eine zusätzliche Anleitung enthalten. Lesen Sie diese Anleitung und achten Sie auf eine einwandfreie Installation des Fernsehgeräts.**

- Bei Geräten, die ohne Wandbefestigungseinheit oder Standfuß geliefert werden oder wenn das Fernsehgerät anderweitig aufgestellt werden soll, verwenden Sie dazu ausschließlich für dieses Fernsehgerät entwickelte JVC-Komponenten.

### WARNHINWEISE FÜR DIE WANDBEFESTIGUNGSEINHEIT:

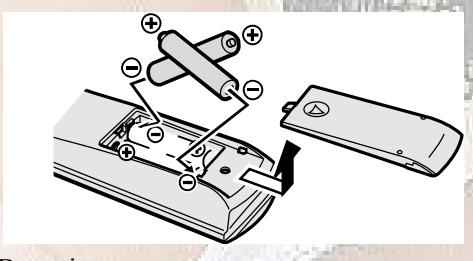
- Um Unfälle zu vermeiden, wenden Sie sich zur Aufstellung des Fernsehgerätes bitte an autorisierte Fachkräfte. Versuchen Sie nicht, das Fernsehgerät selbst aufzustellen.
- Wir verkaufen dieses Produkt unter der Voraussetzung, dass es von qualifiziertem Fachpersonal montiert und installiert wird.
- Bitte lesen Sie vor Beginn der Installation die Anleitung für die Wandbefestigungseinheit, um Unfälle zu verhindern.
- Wir übernehmen keinerlei Haftung für Schäden, die durch eine fehlerhafte Montage, fehlerhafte Anbringung an der Wand, den unsachgemäßen Einsatz, eine unsichere Anbringung an der Wand oder Naturkatastrophen verursacht werden.

**Vorsichtsmaßnahmen vor der Aufstellung**

- Kippen Sie das Gerät nicht nach links oder rechts, oder nach hinten.
- Installieren Sie das Fernsehgerät in einer Raumecke oder auf dem Boden, damit später keine Kabel im Weg liegen können.
- Der Fernseher erzeugt eine geringe Wärme im Betrieb. Achten Sie darauf, dass für den Betrieb des Gerätes genügend Luft um das Gerät herum zirkulieren kann, um eine einwandfreie Kühlung zu gewährleisten. Siehe “Empfohlene Abstände” auf Seite 1.

## Einsetzen der Batterien in die Fernbedienung

Verwenden Sie zwei AA/R6 Trockenzellen-Batterien.
Legen Sie die Batterien am Ende ⊖ ein, und achten Sie darauf, dass die Polarität (⊕ und ⊖) richtig ist.



- Beachten Sie die Warnhinweise auf den Batterien.
- Die Batterielebensdauer beträgt etwa sechs Monate bis über 1 Jahr, je nachdem, wie oft Sie das Gerät benutzen.
- Die mitgelieferten Batterien dienen nur zum Aufbau und Testen Ihres Fernsehers; bitte ersetzen Sie diese so bald wie möglich.
- Wenn die Fernbedienung nicht zufrieden stellend funktioniert, ersetzen Sie die Batterien.

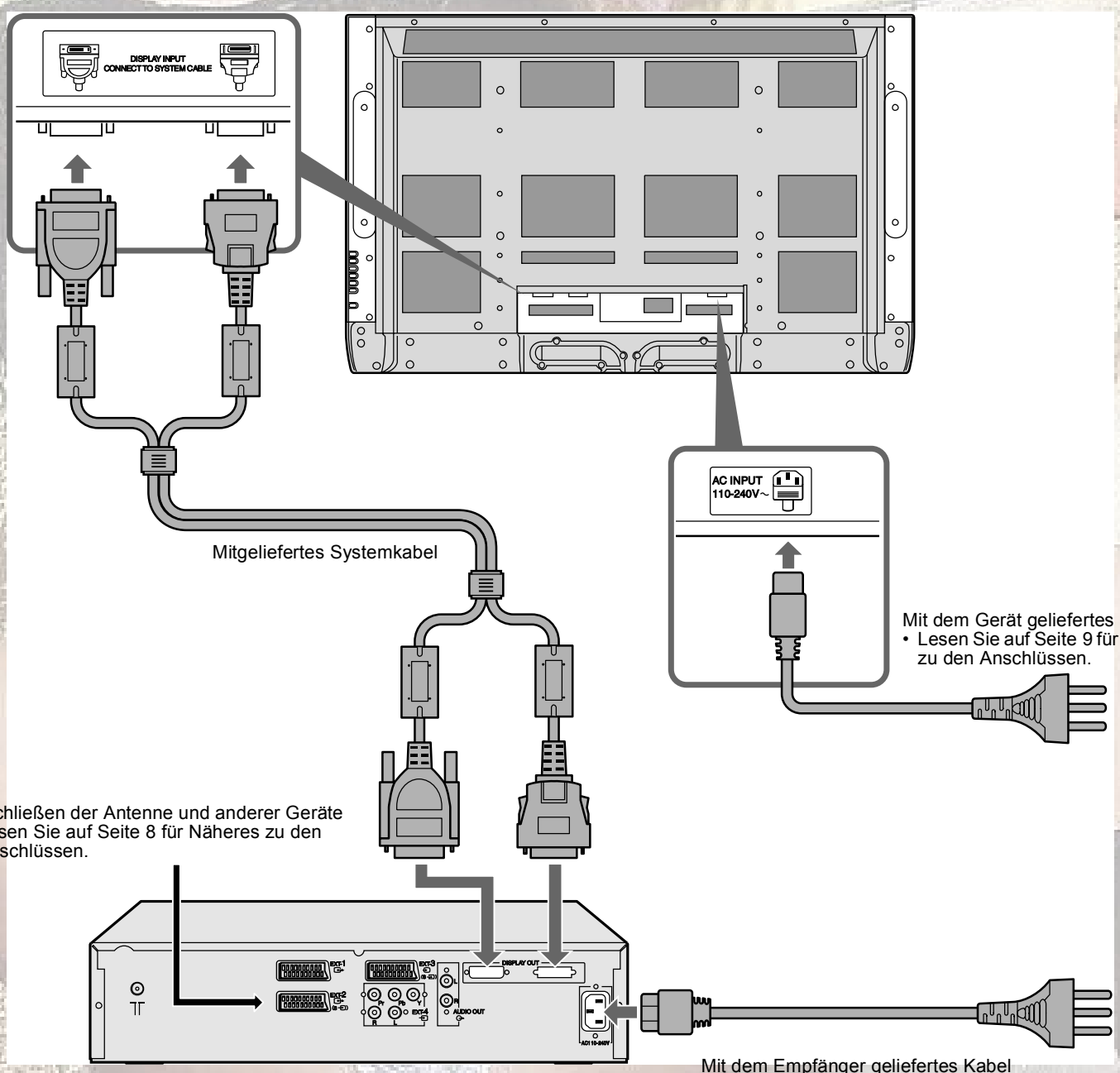
# Anschlüsse

**Vorsicht**

- Schalten Sie alle beteiligten Geräte einschließlich des Fernsehers aus, bevor Sie irgendwelche Verbindungen herstellen.

## Anschlussbeispiel

**Fernsehgerät (Rückseite)**




Mitgeliefertes Systemkabel

Mit dem Gerät geliefertes Kabel
- Lesen Sie auf Seite 9 für Näheres zu den Anschlüssen.

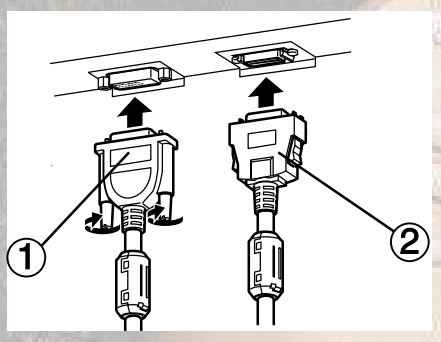
Anschließen der Antenne und anderer Geräte
- Lesen Sie auf Seite 8 für Näheres zu den Anschlüssen.

**Empfänger (Rückseite)**

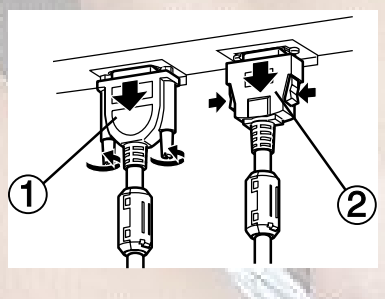
Mit dem Empfänger geliefertes Kabel
- Lesen Sie auf Seite 9 für Näheres zu den Anschlüssen.

## Anschließen von Fernseher und Empfänger

Benutzen Sie das beiliegende Systemkabel, um den Fernseher mit dem Empfänger zu verbinden.
Die beiden Anschlüsse haben verschiedene Form.
Achten Sie darauf, dass die Pins am Stecker ① richtig ausgerichtet sind, stecken Sie den Stecker in die Buchse, und ziehen Sie die Schrauben links und rechts fest, um den Anschluss zu fixieren.
Stecken Sie den Stecker ② fest auf, bis er einrastet.




**Abziehen des Systemkabels**
Ziehen Sie den Stecker ① ab, indem Sie die Schrauben links und rechts lösen und ihn aus der Buchse herausziehen.
Ziehen Sie den Stecker ② ab, indem Sie ihn aus der Buchse herausziehen, während Sie die beiden Riegel zu beiden Seiten eindrücken.




## Anschließen von Antenne und Videorekorder

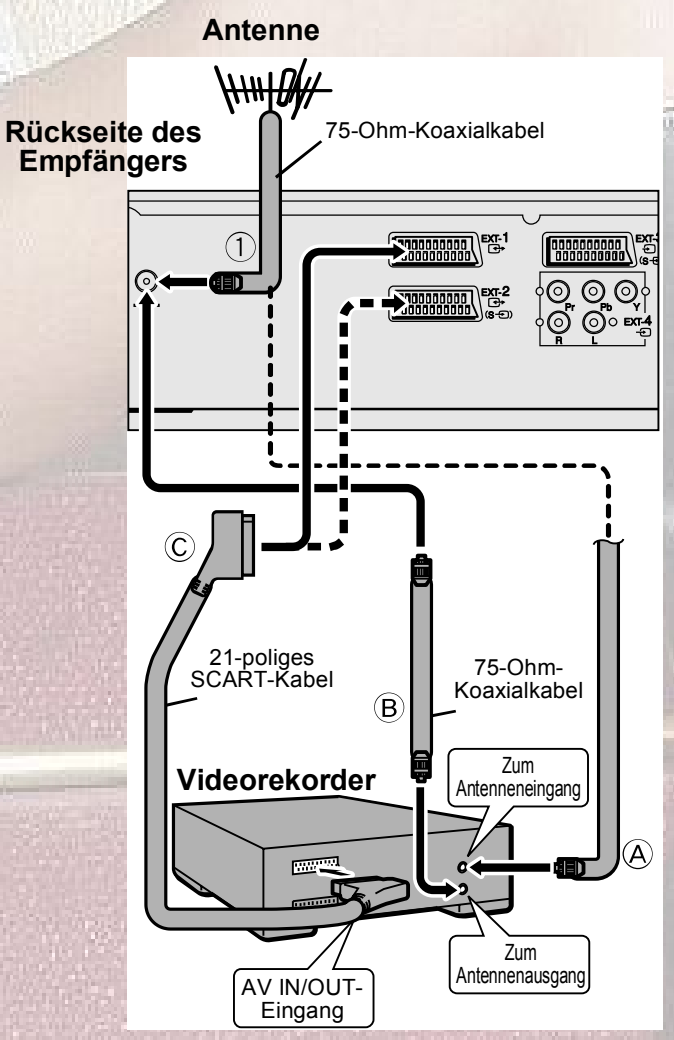
- Die Anschlusskabel werden nicht mitgeliefert.
- Für weitere Einzelheiten lesen Sie auch die Anleitungen der anzuschließenden Geräte.

### ■ Wenn Sie einen Videorekorder anschließen möchten, folgen Sie Ⓐ → Ⓑ → Ⓒ.

### ■ Wenn Sie keinen Videorekorder anschließen, folgen Sie ①.

Um die T-V LINK-Funktionen zu bedienen, muss ein T-V LINK-kompatibler Videorekorder am EXT-2-Anschluss des Fernsehers angeschlossen werden. Für Einzelheiten zu den T-V LINK Funktionen lesen Sie den Abschnitt “T-V LINK FUNKTIONEN” auf Seite 11.

- Sie können ein Video auf dem Videorekorder abspielen, ohne Ⓒ durchzuführen. Näheres erfahren Sie in der Anleitung Ihres Videorekorders.
- Für den Anschluss weiterer externer Geräte lesen Sie bitte den Abschnitt “Anschluss externer Geräte” auf Seite 37.
- Für den Anschluss zusätzlicher Audio-Geräte lesen Sie bitte “Anschließen von Lautsprechern/Verstärker” auf Seite 38.
- Wenn an einem T-V LINK-kompatiblen Videorekorder ein Decoder angeschlossen werden soll, stellen Sie die DECODER (EXT-2) -Funktion auf EIN. Für Einzelheiten lesen Sie bitte “Verwendung der DECODER (EXT-2) -Funktion” auf Seite 36. Anderenfalls können Sie verschlüsselte Kanäle nicht betrachten.



## Anschließen des Netzkabels an der Netzsteckdose

Stecken Sie die Netzstecker der Netzkabel von Fernseher und Empfänger in zwei geeignete Netzsteckdosen.

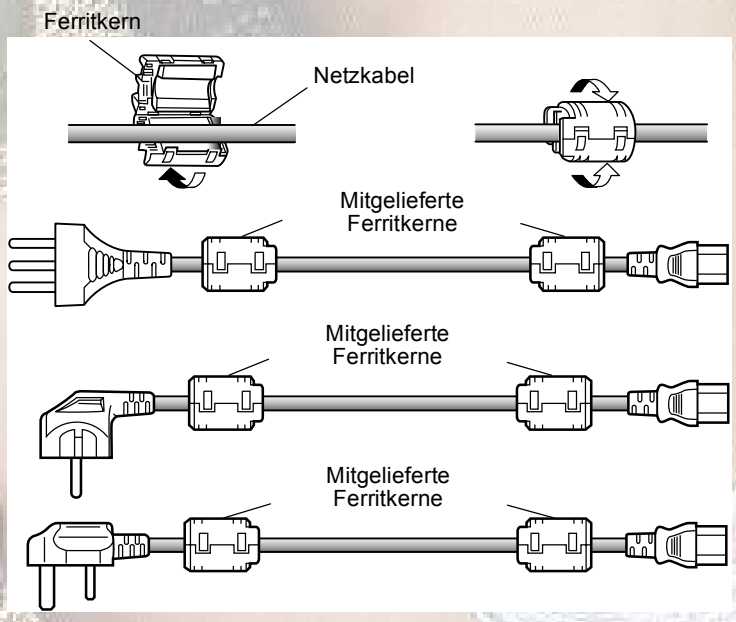
### Vorsicht

- Betreiben Sie das Gerät nur an einem Netz mit der am Gerät angegebenen Spannung (110 – 240 V Wechselspannung, 50/60 Hz).
- Wenn Sie das mitgelieferte Netzkabel in eine gar nicht oder schlecht geerdete Netzsteckdose stecken, kann dies einen elektrischen Schlag verursachen.

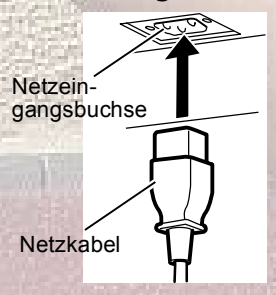
Benutzen Sie das Netzkabel mit dem Steckersystem, das in Ihrem Land normalerweise verwendet wird.

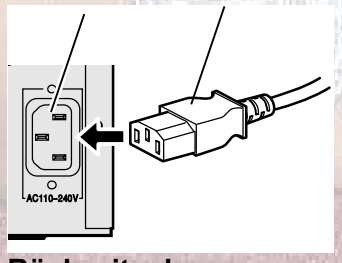
**Montage der Ferritkerne**

Bringen Sie die Ferritkerne am Netzkabel an.
Wenn Sie das Netzkabel ohne angebrachte Ferritkerne betreiben, kann dies Störungen (Interferenzen) verursachen.
Öffnen Sie den Ferritkern, legen Sie das Netzkabel ein, und schließen Sie den Ferritkern.
Bringen Sie an jedem Ende des Netzkabels jeweils einen Ferritkern an.



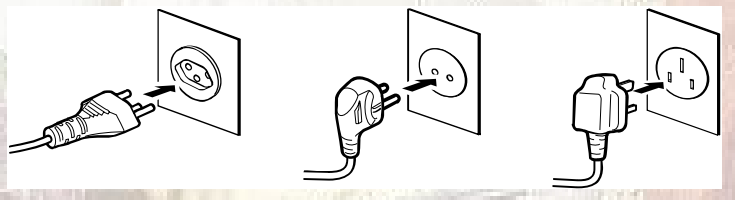

**Rückseite des Fernsehgeräts**




**Rückseite des Empfängers**

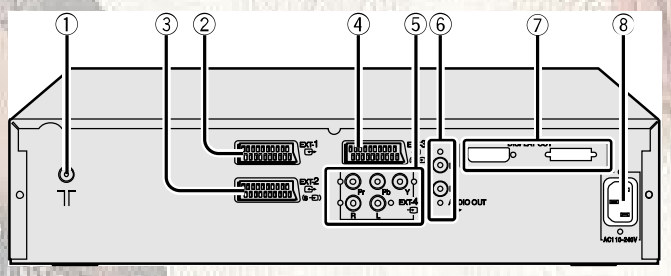
Stecken Sie den Netzstecker in eine ordnungsgemäß geerdete Steckdose.



Die Netz-LED des Empfängers leuchtet rot, und der Empfänger ist in Betriebsbereitschaft, sobald der Netzstecker an eine Netzsteckdose angeschlossen wird.

- Ziehen Sie den Netzstecker aus der Steckdose, um den Fernseher vollständig vom Netz zu trennen.

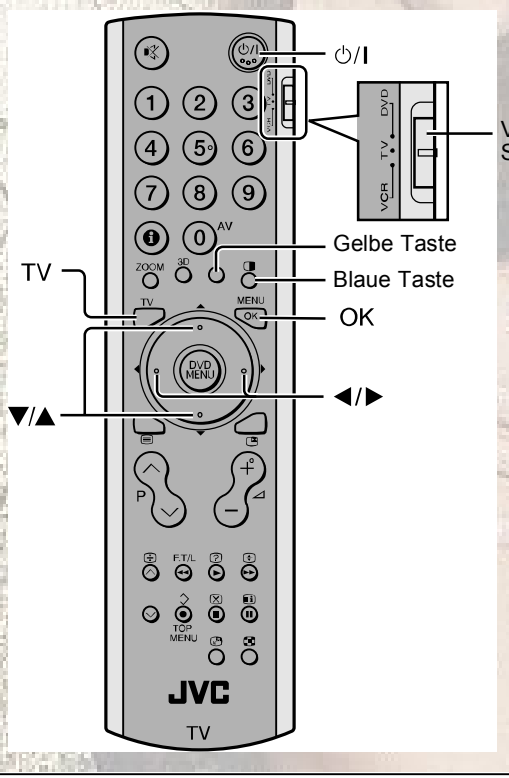
### ■ Empfänger (Rückseite)




① Antennenbuchse (Seite 8)
② EXT-1-Anschluss (Seiten 8, 27, 37)
③ EXT-2-Anschluss (Seiten 8, 11, 27, 37)
④ EXT-3-Anschluss (Seiten 27, 37)
⑤ EXT-4-Anschluss (Seiten 27, 37)
⑥ AUDIO OUT-Anschluss (Seite 38)
⑦ DISPLAY OUT-Anschluss (Seite 8)
⑧ AC INLET (Seite 9)

# Grundeinstellungen

Wenn der Fernseher zum ersten Mal eingeschaltet wird, schaltet er in den Modus für die Grundeinstellungen, und das JVC-Logo wird angezeigt. Befolgen Sie die Anweisungen auf dem Bildschirm, um die Grundeinstellungen vorzunehmen.




**1 Achten Sie darauf, den VCR/TV/DVD-Schalter in die Position TV zu stellen.**

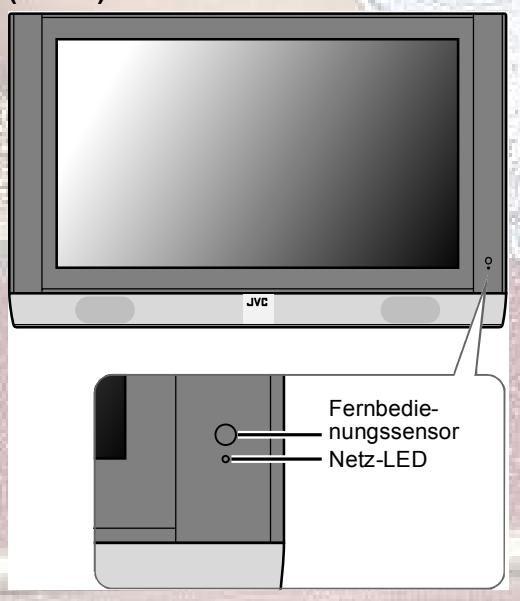
- Sie können das Fernsehgerät nicht einschalten, wenn der VCR/TV/DVD-Schalter in Position VCR oder DVD steht.

**2 Drücken Sie die Taste ⏻/I auf der Fernbedienung**

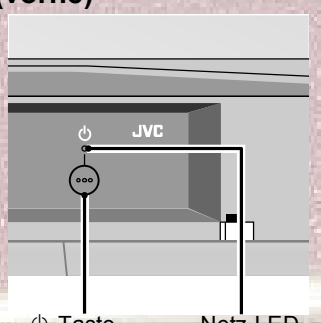
Die Netz-LED am Empfänger wechselt von rot nach grün. Nach kurzer Zeit leuchtet auch die Netz-LED des Fernsehers grün, und das JVC-Logo wird angezeigt.

- Prüfen Sie, ob die Netzstecker der Netzkabel von Fernseher und Empfänger in zwei geeignete Netzsteckdosen eingesteckt sind.

**TV (vorne)**



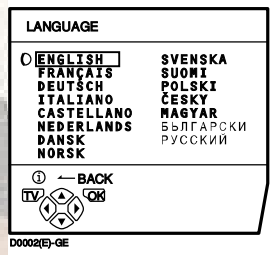

**Empfänger (vorne)**




- Wenn die Netz-LED weiterhin rot leuchtet und nicht zu grün wechselt:
  Ihr Fernseher befindet sich in Betriebsbereitschaft („Standby“). Drücken Sie die Taste ⏻/I (Standby) auf der Fernbedienung, um das Gerät einzuschalten.
- Das JVC-Logo erscheint nicht mehr, wenn das Gerät bereits einmal eingeschaltet wurde. Benutzen Sie in diesem Fall die Funktionen “SPRACHE” und “AUTO”, um die Grundeinstellungen vorzunehmen. Für Einzelheiten lesen Sie bitte “PROGRAMMIERUNG” auf Seite 31.

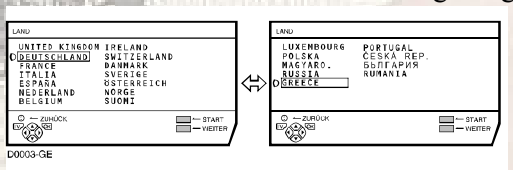
**3 Drücken Sie die Taste OK**

Das Menü LANGUAGE erscheint.




**4 Drücken Sie die Tasten ◄/► und ▼/▲, um DEUTSCH zu wählen. Drücken Sie dann die Taste OK**

Als Sprache für die Bildschirm-Menüs ist “Deutsch” voreingestellt. Das Menü LAND erscheint als Untermenü der Funktion AUTO.
Es gibt zwei LAND-Menüs. Durch Drücken der gelben Taste wird das LAND-Menü wie folgt umgeschaltet:

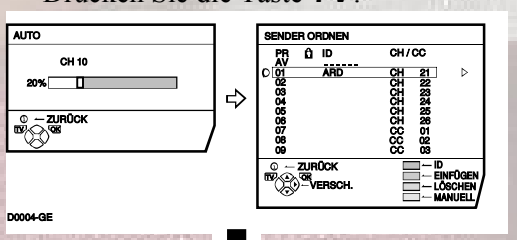



**5 Drücken Sie die Tasten ◄/► und ▼/▲, um das Land zu wählen, in dem Sie sich momentan befinden**

**6 Starten Sie die Funktion AUTO mit der blauen Taste**

Das Menü AUTO erscheint, und die empfangenen Fernsehkanäle werden automatisch auf die Programmnummern verteilt und gespeichert (PR).

- Für Abbruch der AUTO-Funktion:
  Drücken Sie die Taste ***TV***.

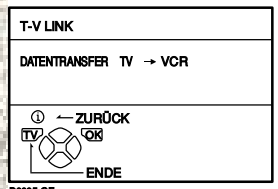



**Sobald die Fernsehkanäle auf den Programmnummern gespeichert sind (PR), erscheint das Menü SENDER ORDNEN**

- Sie können jetzt mit der Bearbeitung der Programmnummern (PR) in der Funktion SENDER ORDNEN/MANUELL fortfahren. Für Einzelheiten lesen Sie bitte “SENDER ORDNEN/MANUELL” auf Seite 32.
- Wenn Sie die Funktion SENDER ORDNEN/ MANUELL nicht benutzen möchten, fahren Sie mit den nächsten Schritten fort.

**Wenn "ACI START/ACI WEITER" im Menü AUTO erscheint:**
Sie können die Funktion ACI (Automatische Programmierung) verwenden, um die ACI-Daten zu dekodieren und die Registrierung aller Fernsehkanäle in kurzer Zeit zu beenden. Einzelheiten über die ACI-Funktion und ihre Verwendung siehe "Verwendung der ACI-Funktion" auf Seite 35.
Wenn Sie die ACI-Funktion nicht verwenden möchten, drücken Sie die Tasten ▼/▲ zum Wählen von ACI WEITER und drücken dann die Taste **OK**.

**7 Drücken Sie die Taste OK zur Anzeige des Menüs T-V LINK**




**8 Wenn Sie keinen T-V LINK-kompatiblen Videorekorder angeschlossen haben:**
Drücken Sie die Taste ***TV***, um das Menü T-V LINK zu verlassen.
Das Menü T-V LINK verschwindet.

**Wenn Sie einen T-V LINK-kompatiblen Videorekorder an der Buchse EXT-2 angeschlossen haben:**
Befolgen Sie die Bedienungsschritte unter "Herunterladen (Download) der Daten zum Videorekorder" auf Seite 35, um die Programmnummer-Daten zu übertragen (PR).

**Jetzt sind die Grundeinstellungen abgeschlossen, und Sie können fernsehen**
- Wenn Ihr Fernseher aus dem Sendesignal den Namen des Fernsehsenders lesen kann, speichert er diesen automatisch (ID) unter der Programmnummer (PR), auf der der Kanal gespeichert wurde.
- Wenn der gewünschte Fernsehkanal auf keiner Programmnummer (PR) gespeichert wurde, stellen Sie diesen mit der Funktion MANUELL von Hand ein. Für Einzelheiten lesen Sie bitte "SENDER ORDNEN/ MANUELL" auf Seite 32.
- Der Fernsehkanal ist nicht unter einer Programmnummer gespeichert PR 0 (AV). Wenn Sie einen Fernsehkanal unter PR 0 (AV) einstellen möchten, stellen Sie diesen mit der Funktion MANUELL von Hand ein. Für Einzelheiten lesen Sie bitte "SENDER ORDNEN/MANUELL" auf Seite 32.

## T-V LINK FUNKTIONEN

Wenn ein T-V LINK-kompatibler Videorekorder an der Buchse EXT-2 des Fernsehers angeschlossen wird, ist es einfacher, den Rekorder einzustellen und Videos zu betrachten. T-V LINK besitzt die folgenden Funktionen:

**Verwendung der T-V LINK-Funktionen:**
Ein T-V LINK-kompatibler Videorekorder ist Voraussetzung. Der Videorekorder muss mit einem voll belegten SCART-Kabel an der Buchse EXT-2 am Fernseher angeschlossen sein.

"T-V LINK-kompatible Videorekorder" sind z. B. JVC-Videorekorder mit dem Logo T-V LINK, oder ein Rekorder mit einem der folgenden Logos. Diese Rekorder können einige oder alle der folgend beschriebenen Funktionen besitzen. Näheres erfahren Sie in der Anleitung Ihres Videorekorders.
"Q-LINK" (ein Warenzeichen der Firma Panasonic)
"Data Logic" (ein Warenzeichen der Firma Metz)
"Easy Link" (ein Warenzeichen der Firma Phillips)
"Megalogic" (ein Warenzeichen der Firma Grundig)
"SMARTLINK" (ein Warenzeichen der Firma Sony)

### ■ Herunterladen (Download) der Voreinstellungen
Hiermit können Sie die Daten der Programmnummern vom Fernsehgerät zum Videorekorder übertragen.
Diese "Preset Download "-Funktion beginnt automatisch, wenn die Grundeinstellungen abgeschlossen sind, oder wenn die Funktionen AUTO oder SENDER ORDNEN/ MANUELL durchgeführt werden.
- Diese Funktion kann auch am Videorekorder ausgeführt werden.

**Wenn "FUNKTION NICHT VERFÜGBAR" angezeigt wird:**
Wenn "FUNKTION NICHT VERFÜGBAR" angezeigt wird, war der Download nicht erfolgreich. Bevor Sie den Download nochmals auslösen, vergewissern Sie sich folgender Dinge:
- Der Videorekorder ist eingeschaltet.
- Der Viderekorder ist T-V LINK-kompatibel.
- Der Videorekorder ist an der Buchse EXT-2 angeschlossen.
- Alle Pins des SCART-Kabels sind durchverbunden (fragen Sie Ihren Händler).

### ■ Direktaufnahme
"Was Sie sehen, nehmen Sie auf"
Sie können mit einer einfachen Bedienung das Bildsignal auf dem Videorekorder aufnehmen, das Sie momentan sehen. Näheres erfahren Sie in der Anleitung Ihres Videorekorders. Bedienung am Videorekorder.
"RECORDER IN AUFNAHME" wird angezeigt.

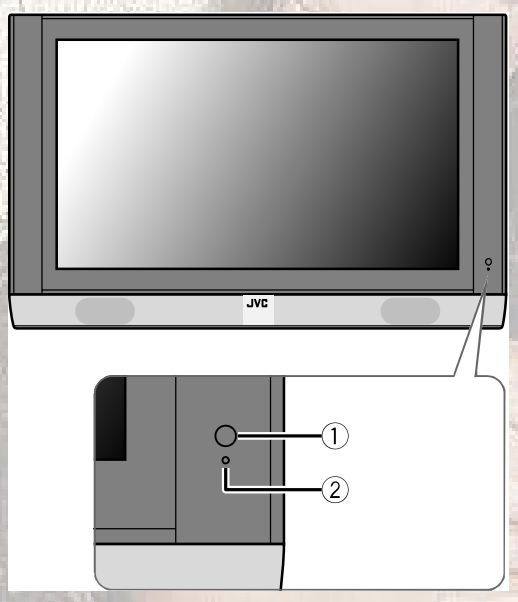
**Unter folgenden Bedingungen wird der Rekorder die Aufnahme abbrechen, wenn der Fernseher ausgeschaltet wird, wenn das Programm oder der Eingang umgeschaltet werden, oder, wenn das Menü auf dem Bildschirm angezeigt wird:**
- Bei der Aufnahme von Bildsignalen von externen Geräten, die am Fernseher angeschlossen sind.
- Bei der Aufnahme eines Fernsehsenders, nachdem er von einem Decoder dekodiert wurde.
- Bei der Aufnahme vom Ausgang des Fernsehers aufgrund schlechten Empfangs des Senders am Videorekorder.
- Wenn der Videorekorder nicht bereit ist (wenn zum Beispiel keine Kassette eingelegt wurde), wird "KEINE AUFNAHME" angezeigt.

- Die Bedienung über das Fernsehgerät ist nicht möglich.
- Generell kann der Videorekorder einen Sender, der von dessen Empfangsteil nicht richtig empfangen wird, nicht aufnehmen, auch dann, wenn Sie den Sender mit Ihrem Fernseher einwandfrei empfangen können. Einige Rekorder können solche Sender über den Ausgang des Fernsehers aufnehmen, wenn der Sender am Fernseher zu empfangen ist. Näheres erfahren Sie in der Anleitung Ihres Videorekorders.

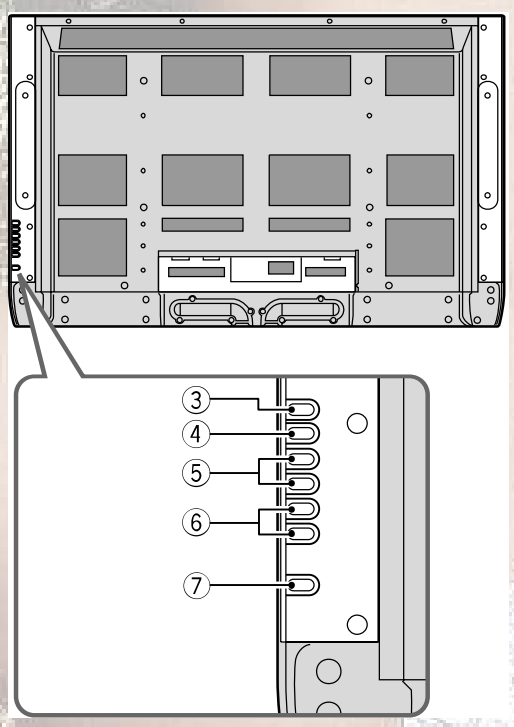
### ■ Automatisches Einschalten per Videorekorder Bilddarstellung
Wenn die Wiedergabe am Videorekorder beginnt, schaltet sich der Fernseher automatisch ein, und das Bildsignal an der Buchse EXT-2 wird angezeigt.
Wenn das Menü des Videorekorders bedient wird, schaltet sich der Fernseher automatisch ein, und das Bildsignal an der Buchse EXT-2 wird angezeigt.
- Prüfen Sie, ob die Netzstecker der Netzkabel von Fernseher und Empfänger in zwei geeignete Netzsteckdosen eingesteckt sind.

# Die Tasten am Fernsehgerät und deren Funktionen

**TV (vorne)**



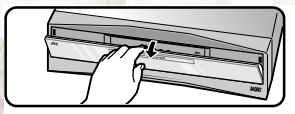

**Fernsehgerät (Rückseite)**



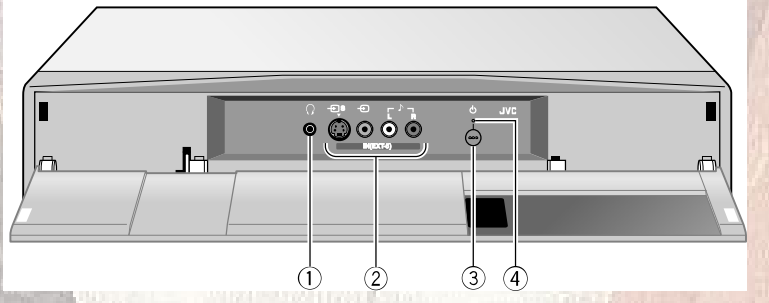

Näheres erfahren Sie auf den in Klammern angegebenen Seiten.

① Fernbedienungssensor
② Netz-LED (Seite 10)
③ MENU/OK-Taste (Seiten 12, 20)
④ TV/AV-Taste (Seite 12 )
⑤ ◿ −/+ Lautstärketasten (Volume) (Seite 12)
⑥ P ∨/∧-Tasten ( Seite 12)
⑦ ⏻ (Stand by)-Taste (Seite 12)

**Empfänger (vorne)**



**Öffnen der Abdeckung**




Näheres erfahren Sie auf den in Klammern angegebenen Seiten.

① Kopfhörerbuchse (Miniklinkenbuchse) (Seite 37)
② EXT-5-Anschluss (Seiten 27, 37)
③ ⏻ (Stand by)-Taste (Seite 12)
④ Netz-LED (Seite 10)

## Einschalten des Fernsehers aus dem Standby-Modus

**Drücken Sie die Taste ⏻ oder P ∨/∧, um den Fernseher aus der Bereitschaft einzuschalten.**

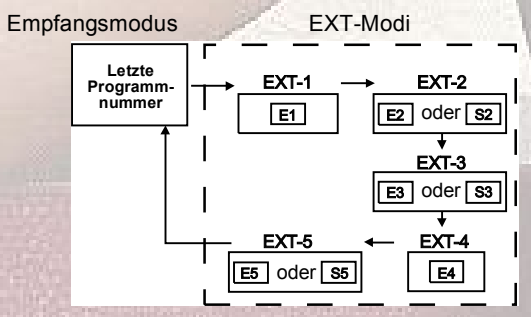
- Prüfen Sie, ob die Netzstecker der Netzkabel von Fernseher und Empfänger in zwei geeignete Netzsteckdosen eingesteckt sind.

## Programmnummer wählen

**Drücken Sie die Tasten P∨/∧, um eine Programmnummer (PR) oder einen EXT-Eingang zu wählen**

## Bildsignale von externen Geräten betrachten

**Drücken Sie die Taste TV/AV, um einen TV/AV-Anschluss zu wählen.**




## Lautstärke einstellen

**Drücken Sie die −/+-Tasten**
Es erscheint die Lautstärkeanzeige.

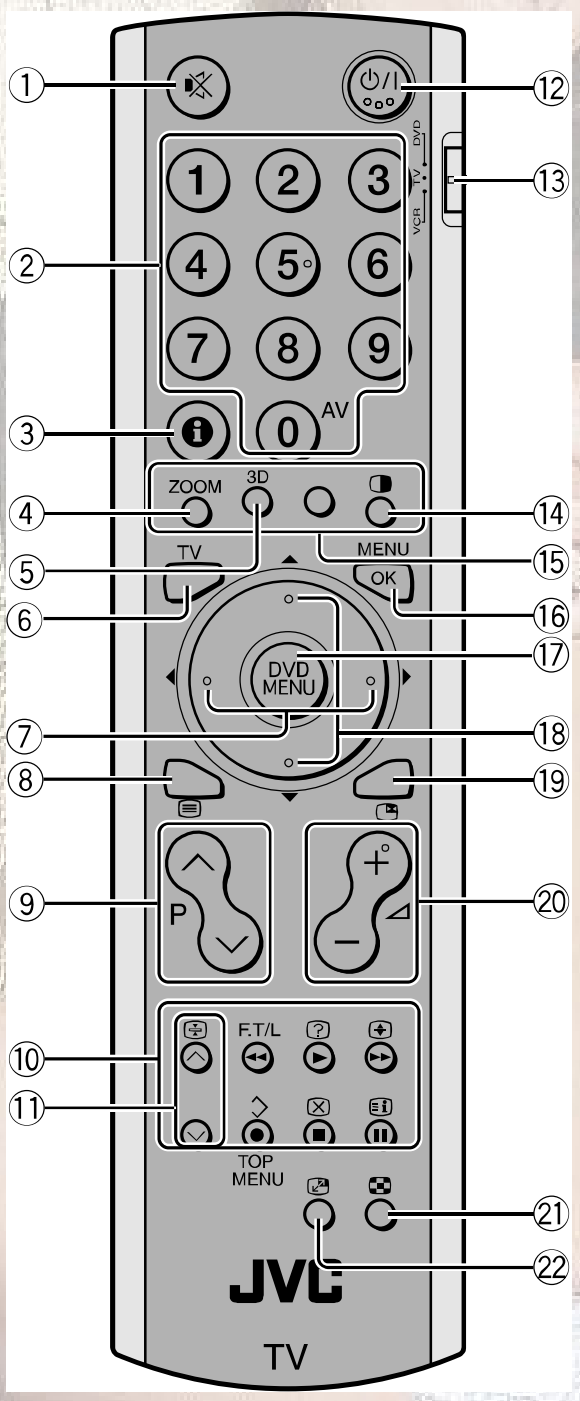
## Benutzung des Kopfhörers

- Die Kopfhörerlautstärke wird im Menü “KOPFHÖRER” eingestellt (siehe Seite 26).

## Benutzung des Menüs

**Benutzen Sie die Taste MENU/OK.**
Lesen Sie “Bedienung des Menüs des Fernsehers” (siehe Seite 20) für genauere Anweisungen zur Menübedienung.

# Tasten und Funktionen der Fernbedienung




① Stummschaltungstaste (Mute)
② Ziffern-Tasten
③ Informationstaste
④ **ZOOM**-Taste
⑤ **3D** Ton-Taste
⑥ ***TV***-Taste
⑦ ◀/▶-Tasten
⑧ ☰ (Text)-Taste
⑨ **P**∨/∧-Tasten
⑩ Bedienungstasten für VCR/DVD/Videotext
⑪ ∨/∧-Tasten
⑫ Bereitschaftstaste (Standby)
⑬ VCR/TV/DVD-Schalter
⑭ ◑ -Taste
⑮ Farbentasten
⑯ **OK**-Taste
⑰ **DVD MENU**-Taste
⑱ ▼/▲-Tasten
⑲ 🖵-Taste
⑳ ◿ −/+-Tasten
㉑ ⛶-Taste
㉒ 🖵-Taste

## Ein- und Ausschalten des Fernsehers aus dem Bereitschaftsmodus

**1 Achten Sie darauf, den VCR/TV/DVD-Schalter in die Position TV zu stellen.**

- Sie können das Fernsehgerät nicht ein- oder ausschalten, wenn der VCR/TV/DVD-Schalter in Position VCR oder DVD steht.

**2 Drücken Sie die Taste ⏻/I (Standby), um den Fernseher ein- oder auszuschalten.**

Wenn das Gerät eingeschaltet ist, wechselt die Farbe der Netz-LED von rot zu grün.

- Das Gerät kann durch Drücken der ***TV***-Taste, der **P** ∨/∧-Tasten oder mit den Zifferntasten eingeschaltet werden.
- Prüfen Sie, ob die Netzstecker der Netzkabel von Fernseher und Empfänger in zwei geeignete Netzsteckdosen eingesteckt sind.

## Fernsehsender wählen

■ **Mit den Zifferntasten:**
**Geben Sie die Programmnummer (PR) des Kanals mit den Zifferntasten ein.**

Beispiel:

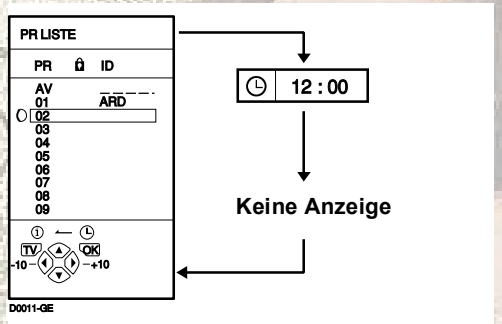
- PR 6 →Drücken Sie ***6***.
- PR 12 → Drücken Sie ***1*** und ***2***.

■ **Verwenden Sie die P ∨/∧-Tasten:**
**Drücken Sie zur Ausahl der Programmnummer (PR) die P ∨/∧-Tasten.**

## ■ Benutzen Sie PR LISTE:

**1 Drücken Sie die Taste ⓘ (Information) zur Anzeige der PR LISTE**

Wenn Sie die Taste ⓘ (Information) drücken, ändert sich die Anzeige wie folgt:




**2 Drücken Sie die Tasten ◀/▶ und ▼/▲, um die gewünschte Programmnummer (PR) zu wählen. Drücken Sie dann die Taste OK**

- Bei Programmnummern (PR) mit aktivierter Funktion KINDERSICHERUNG wird das Symbol 🔒 (KINDERSICHERUNG) neben der Programmnummer (PR) in der PR LISTE dargestellt.
- Sie können die Tasten ▼/▲ nicht zur Anwahl einer Programmnummer (PR) benutzen, wenn die Funktion KINDERSICHERUNG aktiv ist.
- Wenn Sie versuchen, eine Programmnummer (PR) bei aktiver KINDERSICHERUNG zu wählen, erscheint das Symbol 🔒 (KINDERSICHERUNG), und Sie können den Sender nicht sehen. Wenn Sie die Kindersicherung ausschalten möchten, lesen Sie bitte "KINDERSICHERUNG" auf Seite 29.

## Lautstärke einstellen

**Stellen Sie mit den Tasten 🔊 −/+ die Lautstärke ein.**

Die Lautstärkeanzeige erscheint und die Lautstärke andert sich beim Drücken der Tasten 🔊 −/+.

- Die Kopfhörerlautstärke wird im Menü "KOPFHÖRER" eingestellt (siehe Seite 26).

### ■ Ton stumm schalten

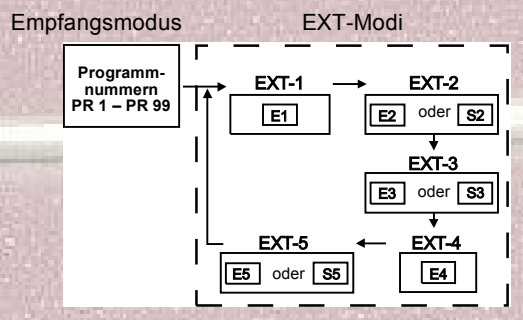
**Drücken Sie die Taste 🔇 (Muting), um den Ton auszuschalten.**

Wenn Sie die Taste 🔇 (Muting) nochmals drücken, wird wieder die vorherige Lautstärke eingestellt.

## Bildsignale von externen Geräten betrachten

### ■ Mit Taste 0 (AV):

**Drücken Sie die Taste 0 (AV), um eine EXT-Buchse zu wählen.**




### ■ Mit den Tasten ▼/▲:

**Drücken Sie die ▼/▲-Tasten, um eine EXT-Buchse zu wählen.**

### ■ Mit der PR LISTE:

**1 Drücken Sie die Taste ⓘ (Information) zur Anzeige der PR LISTE**

**2 Drücken Sie die Tasten ◀/▶ und ▼/▲, um eine EXT-Buchse zu wählen. Drücken Sie dann die Taste OK**

- Die EXT-Buchsen finden Sie hinter der Programmnummer PR 99.
- Sie können ein Video-Eingangssignal im Format S-VIDEO (Y/C-Signal) oder dem normalen Videosignal (Composite-Signal) wählen. Für Einzelheiten lesen Sie bitte "S-IN (S-VIDEO-Eingang)" auf Seite 27.
- Wenn Sie kein klares bzw. kein Farbbild erhalten, müssen Sie die Fernsehnorm von Hand umstellen. Siehe "EMPFANGSSYSTEM" auf Seite 23.
- Dieses Gerät besitzt eine Funktion, die auf ein bestimmtes Signal von einem externen Gerät automatisch den Eingang umschaltet. (Die Anschlüsse EXT-4 und EXT-5 unterstützen diese Funktion nicht.)

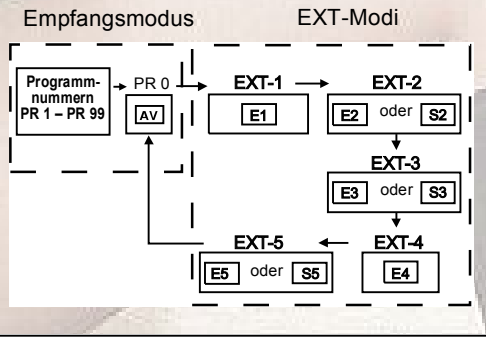
**Rückkehr zu einem Fernsehkanal:**

Drücken Sie die **TV**-Taste, die **P** ∨/∧-Tasten oder die Zifferntasten.

**Verwendung der Programmnummern PR 0 (AV):**

Wenn Fernseher und Videorekorder nur per Antennenkabel verbunden sind, können Sie durch Auswahl der Programmnummer PR 0 (AV) die Bildsignale Ihres Videorekorders empfangen. Stellen Sie den RF-Kanal des Videorekorders manuell auf die Programmnummer PR 0 (AV) ein. Für Einzelheiten lesen Sie bitte "SENDER ORDNEN/MANUELL" auf Seite 32.

Durch Drücken der Taste **0 (AV)** wird die Auswahl wie folgt umgeschaltet:




- Der RF-Kanal des Videorekorders wird als RF-Signal vom Rekorder gesendet.
- Näheres erfahren Sie in der Anleitung Ihres Videorekorders.

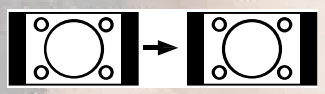
## ZOOM-Funktion

Sie können die Bildgröße entsprechend dem Bildseitenverhältnis einstellen. Wählen Sie aus den folgenden ZOOM Modi die Beste aus.

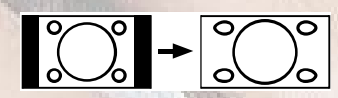
**AUTO:**
Wenn im Sendesignal oder im Signal eines externen Gerätes ein WSS-Signal enthalten ist, das das Seitenverhältnis des Bildes angibt (Wide Screen Signalling), schaltet das Fernsehgerät den ZOOM-Modus je nach WSS-Signal automatisch auf 16:9 ZOOM-Betriebsart oder VOLLBILD-Betriebsart um.
Wenn kein WSS-Signal empfangen wird, wird das Bild entsprechend der ZOOM-Betriebsart empfangen, die in der 4:3 AUTO ZOOM-Funktion eingestellt ist.

- Näheres über die Funktion 4:3 AUTO ZOOM erfahren Sie im Abschnitt “4:3 AUTO ZOOM” auf Seite 23.
- Wenn die Betriebsart AUTO (WSS) auf Grund schlechten Empfangs des WSS-Signals nicht funktioniert, oder wenn Sie den ZOOM-Modus aus anderen Gründen umschalten möchten, drücken Sie die Taste **ZOOM** und schalten Sie auf einen anderen ZOOM-Modus um.

**NORMAL:**
Hiermit sehen Sie das Normalbild (Verhältnis 4:3) in Originalgröße.

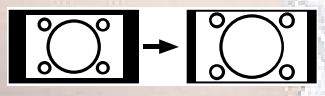


**PANORAMIC:**
Dieser Modus erweitert die linken und rechten Ränder des Normalbildes (4:3) so, daß der Bildschirm ausgefüllt wird, ohne daß das Bild unnatürlich wirkt.

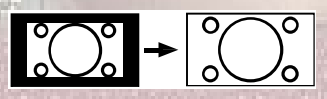


- Der obere und untere Bildrand wird dabei leicht abgeschnitten.

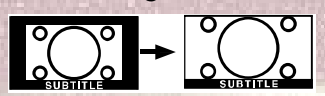
**14:9 ZOOM:**
Dieser Modus vergrößert das Breitbild (Seitenverhältnis 14:9) so, daß die oberen und unteren Ränder des Bildes die des Bildschirms erreichen.



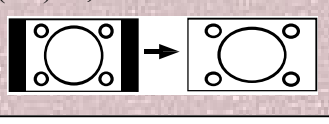
**16:9 ZOOM:**
Dieser Modus vergrößert das Breitbild (Seitenverhältnis 16:9) so, daß der ganze Bildschirm ausgefüllt wird.



**16:9 ZOOM UNTERTITEL:**
Dieser Modus vergrößert  das Breitbild (Seitenverhältnis 16:9) samt Untertiteln so, daß der ganze Bildschirm ausgefüllt wird.



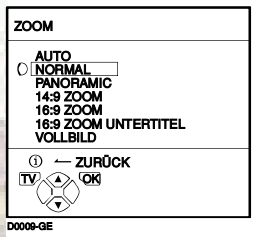

**VOLLBILD:**
Dieser Modus erweitert die linken und rechten Ränder des Normalbildes (4:3) so, daß der Bildschirm ausgefüllt wird.



Benutzen Sie dies, um Bilder im 16:9-Verhältnis, die auf ein Normalbild (4:3) komprimiert wurden, auf deren Originalverhältnis zurückzubringen.

### ■ Wählen Sie den ZOOM-Modus

**1 Drücken Sie die Taste ZOOM zur Anzeige des Menüs ZOOM**




- Die Taste **ZOOM** funktioniert nicht im Zwillingsbild-Modus.

**2 Drücken Sie die Tasten ▼/▲, um einen ZOOM-Modus zu wählen. Drücken Sie dann die Taste OK**

Das Bild wird vergrößert oder komprimiert, und der ZOOM-Modus wird etwa 5 Sekunden lang angezeigt.

- Der ZOOM-Modus kann automatisch aufgrund eines Steuersignals von einem externen Gerät geändert werden. Wenn Sie zum vorherigen ZOOM-Modus zurückschalten wollen, wählen Sie den ZOOM-Modus erneut.

### ■ Einstellen des sichtbaren Bildbereichs

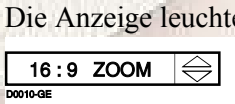
Wenn Untertitel oder der obere (oder untere) Bildrand abgeschnitten werden, stellen Sie den sichtbaren Bildbereich von Hand ein.

**1 Drücken Sie die Taste ZOOM**

Das Menü ZOOM erscheint.

**2 Drücken Sie die Taste OK zur Anzeige des Menüs ZOOM**

Die Anzeige leuchtet auf.




**3 Drücken Sie, während die Anzeige leuchtet, die Tasten ▼/▲, um den vertikal sichtbaren Bereich einzustellen**

- In den Betriebsarten NORMAL oder VOLLBILD können Sie den sichtbaren Bereich nicht einstellen.

## 3D SOUND-Funktion

Sie können den Ton mit einem noch stärkeren Raumgefühl genießen.

**Drücken Sie die Taste 3D, um die 3D SOUND Funktion ein- oder auszuschalten**

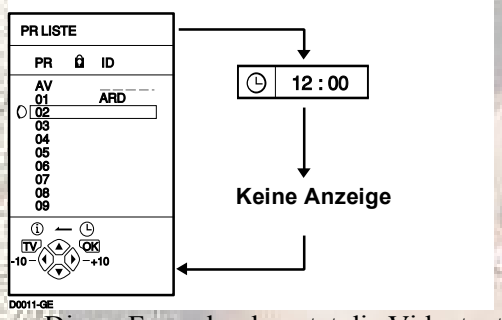
- Die 3D SOUND Funktion arbeitet nicht korrekt in mono.
- Die 3D SOUND Funktion kann ebenfalls im SOUND EINSTELLUNG Menü ein- oder ausgeschaltet werden. Für Einzelheiten lesen Sie bitte “3D SOUND” auf Seite 25.

## Anzeige der aktuellen Uhrzeit

Sie können die aktuelle Uhrzeit auf dem Bildschirm darstellen lassen.

**Drücken Sie zur Anzeige der aktuellen Uhrzeit die Taste ⓘ (Information)**

Wenn Sie die Taste ⓘ (Information) drücken, ändert sich die Anzeige wie folgt:




- Dieser Fernseher benutzt die Videotext-Daten zur Einstellung der aktuellen Uhrzeit. So lange der Fernseher nach dem Einschalten noch nicht auf einen Kanal gestellt war, der Videotext sendet, bleibt die Zeitanzeige leer. Um die aktuelle Zeit zu erfahren, wählen Sie einen Sender mit Videotext.
- Beim Betrachten von Videos ist die angezeigte aktuelle Uhrzeit gelegentlich nicht korrekt.

## Sofortige Rückkehr zum Fernsehkanal

Sie können immer auf einen TV-Kanal umschalten.

**Drücken Sie die Taste *TV***

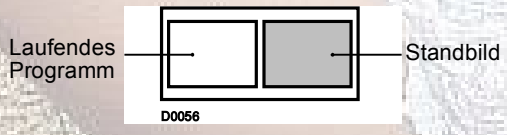
Das Gerät schaltet in den Empfangsmodus, und es erscheint der eingestellte Sender.

## Verwendung der STANDBILD-Funktion

Sie können Standbilder des laufenden Programms betrachten.

**1 Drücken Sie die Taste ⧉**

Das aktuelle Bild wird eingefroren.




**Für Abbruch der STANDBILD-Funktion:**

Drücken Sie die ⧉-Taste, die **P** ∨/∧-Tasten oder die Zifferntasten.

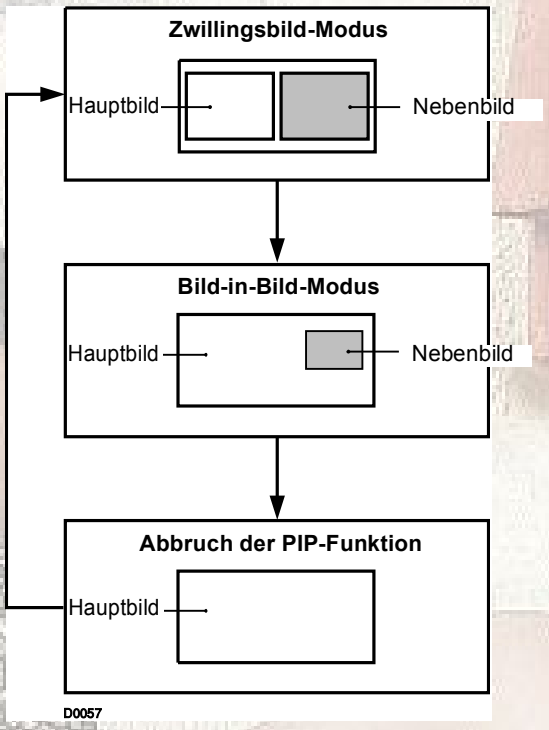
- Die STANDBILD-Funktion arbeitet nicht, wenn ein Bild im Bild angezeigt wird.
- Das Standbild kann nicht ausgegeben werden.
- Das STANDBILD-Menü verschwindet, wenn etwa eine Minute lang keine Funktion bedient wird.

## Verwendung der PIP-Funktion

Sie können zwei Bildsignale gleichzeitig betrachten (Hauptbild und Bild im Bild).
Ein TV-Programm und ein Video von einem externen Gerät können gleichzeitig berachtet werden.

**1 Drücken Sie die Taste ◨**

Durch Drücken der Taste ◨ wird der PIP-Modus wie folgt umgeschaltet:




**2 Drücken Sie die Tasten ∨/∧, um als Signalquelle für das Nebenbild eine andere EXT-Buchse auszuwählen.**

**Tonsignal des Nebenbildes hören:**

Sie können den Ton des Nebenbildes in den Kopfhörern hören, während der Ton des Hauptbildes über die Fernsehlautsprecher ausgegeben wird.
Für Einzelheiten lesen Sie bitte “KOPFHÖRER” auf Seite 26.

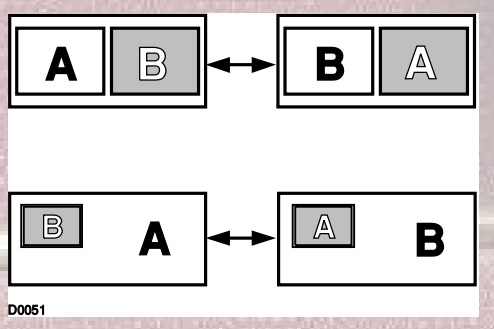
- Der Ton des Nebenbildes ist monaural.

**Bildposition des Nebenbildes ändern:**

Sie können eine von vier Positionen wählen.
Für Einzelheiten lesen Sie bitte “PIP” auf Seite 24.

**Hauptbild und Nebenbild vertauschen:**

Drücken Sie die Taste ⧉.
Haupt- und Nebenbild werden vertauscht.



**Abbrechen der PIP-Funktion:**
Drücken Sie die ◑- oder **TV**-Taste.

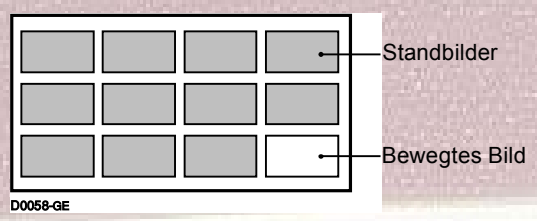
- Wenn das Bildsignal des Hauptbildes schlecht ist, ist die Bildqualität des Nebenbildes u.U. ebenfalls schlecht.
- Wenn die Bilder verschiedene Standards besitzen, kann es passieren, dass der obere oder untere Rand fehlt.
- Wenn ein externes Gerät bedient wird, kann es passieren, dass das Nebenbild verschwindet. Drücken Sie in diesem Fall erneut die Taste ◑, damit das Nebenbild wieder angezeigt wird.
- Sie können keine verschlüsselten Signale als Nebenbild anzeigen lassen. Wenn die Taste ⧉ gedrückt wird, während Sie über einen externen Decoder im Hauptbild ein verschlüsseltes Signal betrachten, erscheint das Signal des Nebenbildes sowohl als Nebenbild wie auch als Hauptbild.
- Die ZOOM-Funktion arbeitet nicht im Zwillingsbild-Modus.
- Drücken Sie nicht die Taste ⧉ während Sie das Ausgangssignal des Fernsehgerätes auf einem Videorekorder aufnehmen. Falls Sie dies tun, wird das Ausgangssignal umgeschaltet.
- Die Funktion BLAU-BILD arbeitet nicht im Zwillingsbild- oder Bild-in-Bild-Modus.
- Ein progressive-scanning-Bild kann nicht als Bild im Bild angezeigt werden.
  Bitte achten Sie auf die folgenden Dinge.
  - Wenn das EXT-4-Bild ein progressive-scanning-Bild ist, können Sie EXT-4 nicht mit den Tasten ∨/∧ auswählen.
  - Wenn das EXT-4-Bildsignal auf ein progressive-scanning-Bild umgeschaltet wird, während ein EXT-4-Bild als Bild im Bild angezeigt wird, schaltet sich die Funktion PIP ab.
  - Die Bilder können nicht vertauscht werden, wenn ein progressive-scanning-Bild vom Eingang EXT-4 als Hauptbild angezeigt wird.
- Das Nebenbild kann nicht ausgegeben werden.

## Verwendung der MULTI-BILD-Funktion

Sie können ein so genanntes Multibild anzeigen lassen, mit dem Sie den gewünschten Sender schnell auffinden können.

**1 Drücken Sie die Taste ⊞, um die Multibild-Funktion aufzurufen**
Die Kanäle werden in der Reihenfolge der Kanalnummern dargestellt.
Multibilder werden im Multibild-Modus angezeigt.

**12-Bild-Multi:**




**2 Drücken Sie die Tasten ∨/∧, um das gewünschte Bild auszusuchen**
Das gewählte Standbild wird als bewegtes Bild angezeigt.

**3 Drücken Sie die Taste OK**
Das Multibild verschwindet, und das Signal des ausgewählten Senders erscheint.

**Abbrechen der Multibild-Funktion:**
Drücken Sie die Taste **TV**, die Zifferntasten oder die Taste **OK**.

- Bilder von externen Geräten können im 12-Bild-Multi-.Modus nicht dargestellt werden.

## Bedienung eines Videorekorders (VCR) oder DVD-Spielers von JVC

Sie können einen Videorekorder oder DVD-Spieler von JVC fernbedienen. Wenn Sie eine Taste mit dem gleichen Symbol wie auf der geräteeigenen Fernbedienung drücken, wird die entsprechende Funktion ausgelöst.

**1 Stellen Sie den Schalter VCR/TV/DVD auf eine der Positionen VCR oder DVD**

**VCR:**
Wenn Sie den Videorekorder bedienen, stellen Sie den Schalter auf die Position VCR. Mit der (Standby)-Taste ⏻/I können Sie den Videorekorder ein- und ausschalten.

**DVD:**
Wenn Sie den DVD-Spieler bedienen, stellen Sie den Schalter auf die Position DVD. Mit der (Standby)-Taste ⏻/I können Sie den DVD-Spieler ein- und ausschalten.

**2 Drücken Sie die Steuertaste VCR/DVD, um Ihren VCR (Videorekorder) oder DVD-Spieler zu bedienen**

- Bei Geräten anderer Hersteller als JVC kann diese Funktion nicht benutzt werden.
- Auch dann, wenn Ihr Gerät von JVC hergestellt wurde, kann es je nach Gerät sein, dass einige oder gar keine der Tasten funktionieren.
- Sie können mit den Tasten ∨/∧ einen Sender auswählen; der Videorekorder empfängt oder wählt den Abschnitt aus, den der -Player wiedergibt.
- Bei einigen DVD-Spielern werden die Tasten ∨/∧ sowohl für schnellen Vor-/Rücklauf als auch zur Wahl des Kapitels verwendet. In diesem Fall funktionieren die Tasten ◀◀/▶▶ nicht.
- Stellen Sie den VCR/TV/DVD-Schalter in die Position TV, wenn Sie das Fernsehgerät ein- oder ausschalten.

### ■ Verwenden der DVD MENU-Taste

Manche DVDs ermöglichen die Auswahl des Inhalts über ein Menü. Bei der Wiedergabe solcher DVDs können Sie mit dem DVD-Menü die Sprache für den Untertitel und die Tonspur usw. auswählen.

**1 Drücken Sie während der Wiedergabe die Taste DVD MENU**
Das DVD-Menü wird angezeigt.

- Drücken Sie die **DVD MENU**-Taste erneut, um mit der Wiedergabe an der Stelle fortzufahren, an der Sie die Taste zum erstenmal gedrückt haben.

**2 Drücken Sie ▼/▲ oder ◀/▶ zur Auswahl des gewünschten Menüpunkts**

**3 Drücken Sie die Taste OK**
Das Menü wird in einem anderen Bildschirm fortgesetzt. Wiederholen Sie die Schritte 2 und 3 zur Einstellung weiterer Punkte (falls vorhanden).

# Videotext-Funktion

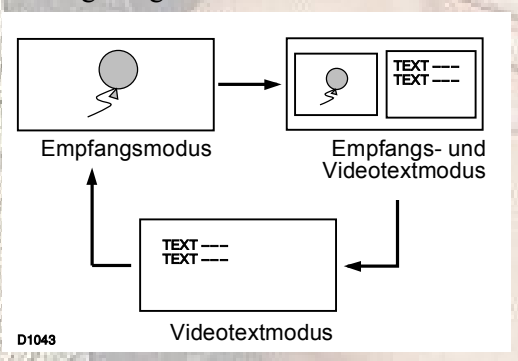
## Allgemeine Bedienung

**1 Wählen Sie einen Sender, der Videotext sendet**

**2 Achten Sie darauf, den VCR/TV/DVD-Schalter in die Position TV zu stellen.**

**3 Drücken Sie die Taste ☰ (Text), um den Videotext anzuzeigen**

Wenn Sie die Taste ☰ (Text) drücken, wird der Modus wie folgt umgeschaltet:




**4 Wählen Sie eine Videotext-Seite, indem Sie die Tasten P ∨/∧, die Ziffern- oder die Farbtasten drücken.**

**Zurückschalten auf Fernsehempfang:**
Drücken Sie die Taste ***TV*** oder ☰ (Text).

- Wenn Sie beim Empfang von Videotext auf Probleme stoßen, wenden Sie sich an Ihren Händler oder an den betreffenden Sender.
- Die ZOOM-Funktion funktioniert im TV-und-Text- oder im Text-Modus nicht.
- Die Menübedienung ist nicht möglich, wenn Sie Videotext sehen.
- Die Anzeige der Sprache hängt von dem im LAND-Menü eingestellten Land ab. Wenn Zeichen auf einer Videotext-Seite nicht richtig dargestellt werden, wählen Sie für die LAND-Einstellung ein anderes Land aus. Ausführliche Informationen siehe “Ändern der LAND-Einstellung” auf Seite 36.

Wenn Sie einen Sender mit Videotext betrachten, bewegt sich der Text auf dem Bildschirm fortwährend in kleinen Schritten nach oben oder unten. Dies ist keine Fehlfunktion, sondern dadurch wird ein Einbrennen des Textes verhindert.

## Verwendung des Listenmodus

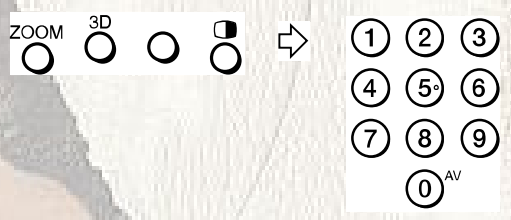
Sie können die Nummern Ihrer bevorzugten Videotext-Seiten abspeichern und sie mit den Farbtasten abrufen.

### ■ Seitennummern speichern:

**1 Drücken Sie die Taste *F.T/L*, um den Listenmodus zu aktivieren**

Die gespeicherten Seitennummern erscheinen unten auf dem Bildschirm.

**2 Drücken Sie eine Farbtaste, um eine Position zu wählen. Drücken Sie dann die Zifferntasten, um die Seitennummer einzugeben**




**3 Drücken und halten Sie die Taste ❯ (Speichern)**

Die vier Seitennummern blinken weiß, um anzuzeigen, dass diese gespeichert wurden.

### ■ Aufrufen einer gespeicherten Seite:

**1 Drücken Sie die Taste *F.T/L*, um den Listenmodus zu aktivieren**

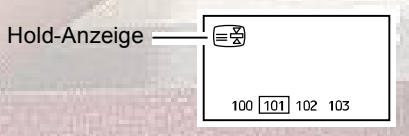
**2 Drücken Sie eine der Farbtasten, der eine Seite zugeordnet wurde**

**Listenmodus verlassen:**
Drücken Sie die Taste ***F.T/L*** erneut.

## Halten

Sie können eine Videotext-Seite beliebig lange auf dem Bildschirm halten, auch dann, wenn weitere Videotext-Seiten empfangen werden.

**Drücken Sie die Taste ⊟ (Halten)**




**Halten abbrechen:**
Drücken Sie die Taste ⊟ (Halten) erneut.

- Die Hold-Funktion wird abgebrochen, wenn etwa eine Minute lang keine Funktion bedient wird.

## Unter-Seiten

Einige Videotext-Seiten haben Unter-Seiten, die automatisch angezeigt werden.
Sie können Unter-Seiten beliebig halten bzw. jederzeit betrachten.

**1 Wählen Sie eine Videotextseite, die Unter-Seiten enthält**

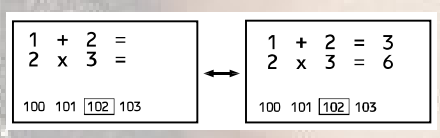
Die Seitenzahlen von anzeigbaren Unter-Seiten werden automatisch am Bildschirm oben angezeigt.

**2 Drücken Sie die Tasten ◀/▶, um eine Unter-Seiten-Nummer zu wählen**

## Aufdecken

Einige Videotext-Seiten enthalten versteckten Text (zum Beispiel die Antworten in einem Quiz).
Sie können den versteckten Text aufdecken.

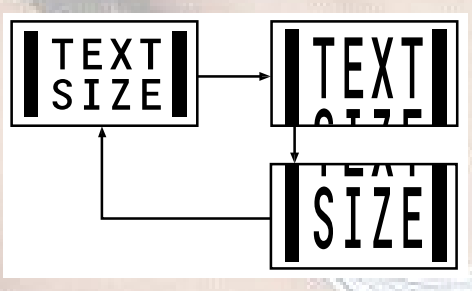
**Mit jedem Druck auf die Taste ? (Aufdecken) wird der Text verborgen oder aufgedeckt**




## Größe

Sie können die Höhe der Videotext-Anzeige verdoppeln.

**Drücken Sie die Taste ⇕ (Größe).**




## Inhalt

Sie können immer zur Inhalts-Seite wechseln.

**Drücken Sie die Taste ▤ (Inhalt)**

Schaltet zurück auf Seite 100 oder eine zuvor angegebene Seite.

## Abbrechen

Sie können nach einer Videotext-Seite suchen lassen, während Sie fernsehen.

**1 Drücken Sie die Zifferntasten zur Eingabe der Seitennummer, oder drücken Sie eine der Farbtasten**

Das Gerät sucht nach der Videotext-Seite.

**2 Drücken Sie die Taste ⊠ (Abbrechen)**

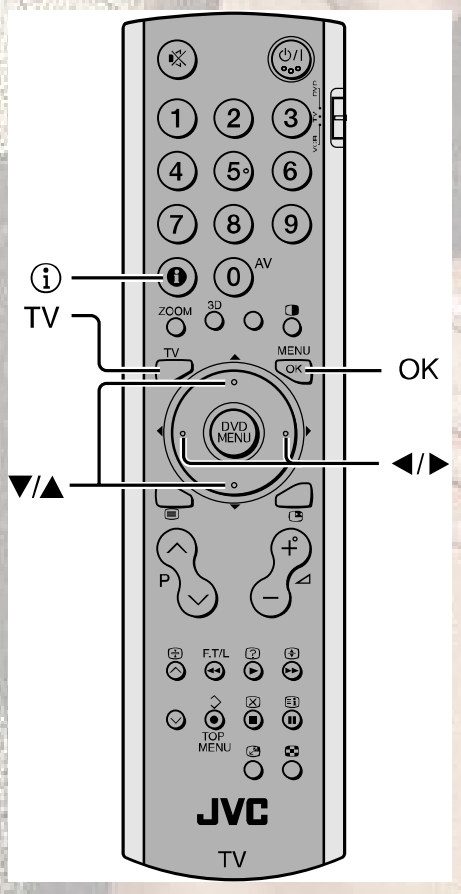
Das Fernsehprogramm erscheint. Sobald das Gerät die gewünschte Seite gefunden hat, erscheint die Seitennummer oben links im Bildschirm.

**3 Drücken Sie ⊠ (Abbrechen), um zum Videotext zu schalten, sobald die Seitennummer angezeigt wird**

- Mit der Taste ⊠ (Abbrechen) können Sie nicht zurück in den Empfangsmodus schalten. Anstelle des Videotextes wird vorübergehend ein Fernsehsender angezeigt.

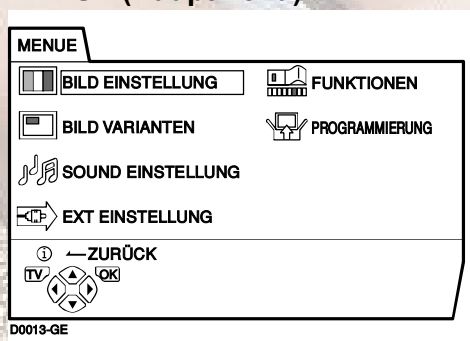
# Bedienung des Menüs des Fernsehers

Dieses Gerät hat viele Funktionen, die per Menü bedient werden. Um alle Funktionen Ihres Fernsehers nutzen zu können, sollten Sie die grundsätzliche Menübedienung sicher beherrschen.



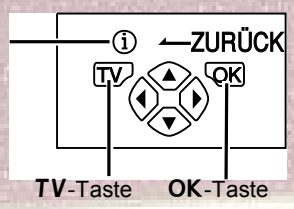

## Allgemeine Bedienung

**1 Drücken Sie die Taste OK zur Anzeige von MENUE (Hauptmenü)**




- Drücken Sie zweimal die Taste **OK**, während Sie ein MULTI-BILD betrachten.
- Die Anzeige unten in jedem Menü stellt eine Taste auf der Fernbedienung dar, die Sie zur Bedienung der ausgewählten Funktion benutzen können.

Taste ⓘ (Information)




**2 Wählen Sie mit den Tasten ◀/▶ und ▼/▲ einen Menüpunkt und drücken Sie anschließend die Taste OK**

Das Menü erscheint.

**Rückkehr zum jeweils zuletzt gewählten Menü:**
Drücken Sie die Taste ⓘ (Information).

**Sofortiges Verlassen eines Menüs:**
Drücken Sie die Taste **TV**.

**3 Wählen Sie mit den Tasten ▼/▲ eine Funktion aus**

- Näheres über die Funktionen in den Menüs erfahren Sie auf den folgenden Seiten.

**4 Drücken Sie die Tasten ◀/▶, um die Parameter dieser Funktion zu erreichen**

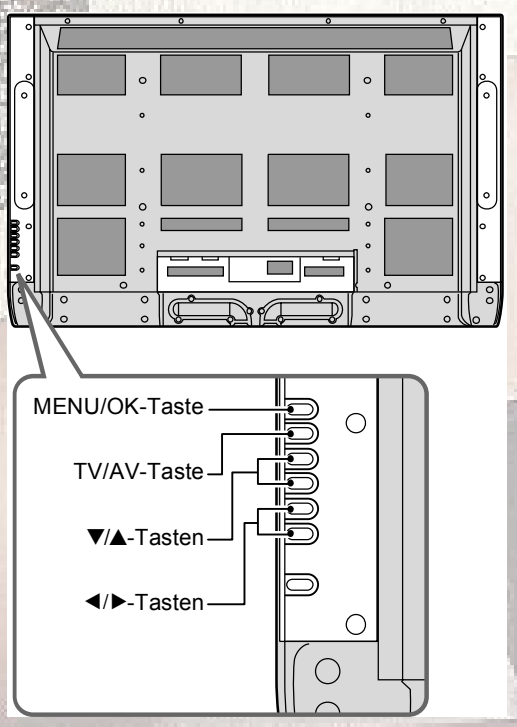
- Wenn Sie eine Funktion bedienen möchten, bei der nur der Name erscheint, befolgen Sie die Anweisungen auf den folgenden Seiten.
- Diem Anzeige unten in jedem Menü stellt eine Taste auf der Fernbedienung dar, die Sie zur Bedienung der ausgewählten Funktion benutzen können.

**5 Drücken Sie die Taste OK, um die Einstellung abzuschließen**

Das Menü verschwindet.

- Beim Fernsehen im NTSC-System erscheinen die Menüs in etwa der Hälfte ihrer normalen vertikalen Größe.
- Wenn Sie während der Menüanzeige die Tasten **P** ∨//∧ drücken, wird das Menü ausgeblendet.

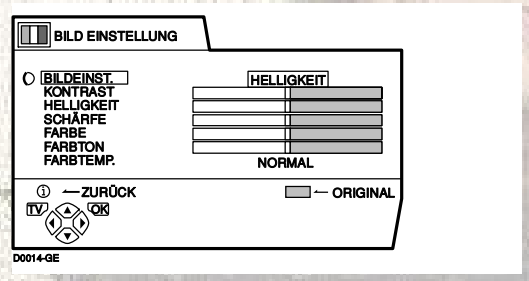
**Bedienung mit den Tasten am Fernsehgerät**
Sie können die Menüs auch mit den Tasten vorne am Fernseher bedienen.




Das Menü verschwindet, wenn etwa eine Minute lang keine Funktion bedient wird.

# BILD EINSTELLUNG

Lesen Sie “Bedienung des Menüs des Fernsehers” (siehe Seite 20) für Näheres zur Anzeige der Menüs.




## BILDEINST.

Sie können einen von drei Bildmodi (BILDEINST.) auswählen, um die Bildeinstellungen automatisch einzustellen.

**HELLIGKEIT:**
Erhöht den Kontrast und die Schärfe.

**NORMAL:**
Standardisiert die Bildeinstellungen.

**WEICH:**
Erhöht den Kontrast und die Schärfe.

## Bildeinstellung

Sie können die Bildeinstellungen jedes der BILDEINST.-Modi beliebig einstellen.

**KONTRAST:**
Hier können Sie den Bildkontrast einstellen.
◄ : geringer
► : höher

**HELLIGKEIT:**
Hier können Sie die Bildhelligkeit einstellen.
◄ : dunkler
► : heller

**SCHÄRFE:**
Hier können Sie die Bildschärfe einstellen.
◄ : weicher
► : schärfer

**FARBE:**
Hier können Sie den Farbkontrast einstellen.
◄ : geringer
► : stärker

**FARBTON:**
Hier können Sie die Farbbalance einstellen.
◄ : rötlich
► : grünlich

- Sie können die Einstellung bei FARBTON nur dann ändern, wenn die Bildnorm auf NTSC 3.58 oder NTSC 4.43 eingestellt ist, oder wenn ein Signal vom Eingang EXT-4 empfangen wird.
  Die Bedienung ist jedoch nicht möglich, wenn das Hauptbild der PIP-Funktion auf EXT-4 gestellt ist.

**Aufrufen der Voreinstellungen jedes BILDEINST.:**
Drücken Sie die blaue Taste.

- Die Bildeinstellungen des momentan gewählten BILDEINST.-Modus (die Farbtemperatur) werden auf die Standardwerte zurückgesetzt und im BILDEINST.-Modus wieder gespeichert.

## FARBTEMP.

Sie können einen von drei FARBTEMP.-Modi (verschiedene Weißtöne) auswählen, um den Weißabgleich für das Bild einzustellen. Da die Farbe Weiß als Referenz für alle anderen Farben benutzt wird, beeinflusst der FARBTEMP.-Modus das Aussehen aller Farben auf dem Bildschirm.

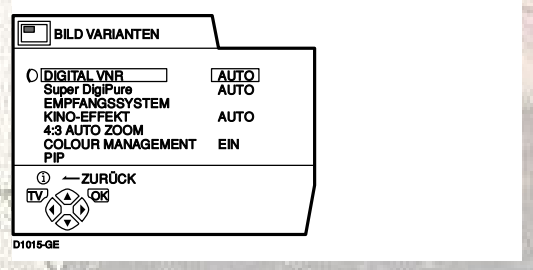
**KÜHL:**
Ein bläuliches Weiß. Benutzen Sie diesen Modus, wenn Sie helle, kontrastreiche Bilder betrachten, um eine lebendigere und hellere Bilddarstellung zu erhalten.

**NORMAL:**
Dies ist der normale Weißton.

**WARM:**
Ein rötliches Weiß. Benutzen Sie diesen Modus, wenn Sie Filme in ihren charakteristischen Farben betrachten möchten.

# BILD VARIANTEN

Lesen Sie “Bedienung des Menüs des Fernsehers” (siehe Seite 20) für Näheres zur Anzeige der Menüs.




## DIGITAL VNR

Die Funktion DIGITAL VNR ist eine Funktion zum Verringern des Rauschens im Bild.
Sie können zwischen drei verschiedenen Einstellungen für die Funktion DIGITAL VNR wählen, nämlich AUTO, MIN und MAX.

**AUTO:**
Das Fernsehgerät stellt automatisch den Grad des DIGITAL VNR Effekts ein, der dem Bildrauschen am besten entspricht und sorgt so für das bestmögliche Bild.

- Wenn Sie den DIGITAL VNR Effekt zu hoch einstellen, kann die Bildschärfe abnehmen. Normalerweise empfehlen wir, die Einstellung AUTO zu verwenden.
- AUTO kann nicht ausgewählt werden, wenn Sie ein Bild vom Eingang EXT-4 betrachten.

**MIN:**
Der Effekt der Funktion DIGITAL VNR ist minimal. Wenn Sie die Funktion DIGITAL VNR auf AUTO stellen, aber finden, dass die Schärfe des Originalbildes nicht optimal wiedergegeben wird, schalten Sie von AUTO auf MIN um.

- Die Einstellung MIN ist nicht für Bilder mit schlechter Qualität und hohem Rauschgrad geeignet.

**MAX:**
Der Effekt der Funktion DIGITAL VNR wird auf Maximum gehalten. Wenn Sie die Funktion DIGITAL VNR auf AUTO stellen, aber trotzdem noch Bildrauschen vorhanden ist, schalten Sie von AUTO auf MAX um.

- Die Einstellung auf MAX ist nicht für Bilder mit sehr hoher Qualität und niedrigem Rauschgrad geeignet.

---

- Wenn ein Bild des Typs progressive-scanning angezeigt wird, kann “DIGITAL VNR” nicht ausgewählt werden.
- Die Funktion DIGITAL VNR arbeitet nicht bei progressive-scanning-Bildern.

---

## Super DigiPure

Die Funktion Super DigiPure verwendet neueste digitale Technologien, um ein natürlich wirkendes Bild zu erzeugen. Die Funktion Super DigiPure enthält die folgenden beiden Funktionen.

**DigiPure-Funktion:**
Diese Funktion hilft bei der Erzeugung eines möglichst natürlich wirkenden Bildes, indem unnötige Kanten kontrastreicher Bilder entfernt bzw. geglättet werden. Bei Bildern mit niedrigem Kontrast werden Kanten hinzugefügt, so dass das Bild schärfer und deutlicher wird. Sie können zwischen drei verschiedenen Einstellungen für die Funktion DigiPure wählen, nämlich AUTO, MIN und MAX.

- Wenn Sie den DigiPure-Effekt bei einem Bild mit schlechter Qualität mit hohem Rauschanteil zu hoch einstellen, kann der Rauschanteil dadurch noch erhöht werden. Wir empfehlen Ihnen, wenn möglich die Einstellung AUTO zu wählen.

**Bildbewegungs-Kompensation:**
Diese Funktion stellt Bildteile, die sich schnell verändern (z. B. der Ball oder die Spieler eines Fußballspiels) weicher und natürlicher dar.

- Der Anteil der Bildbewegungs-Kompensation ist fest eingestellt und lässt sich nicht ändern. Der Effektanteil ist immer gleich, unabhängig davon, ob AUTO, MIN oder MAX gewählt wurde.

**1 Wählen Sie Super DigiPure**

**2 Wählen Sie mit den Tasten ◄/► einen Einstellung aus. Drücken Sie dann die Taste OK**

**AUTO:**
Das Fernsehgerät stellt automatisch den Grad des DigiPure Effekts ein, der dem Bildrauschen am besten entspricht und sorgt so für das bestmögliche Bild.

- AUTO kann nicht ausgewählt werden, wenn Sie ein Bild vom Eingang EXT-4 betrachten.

**MIN:**
Der Effektanteil der Funktion DigiPure ist auf Minimum gestellt. Wenn Sie die Funktion Super DigiPure auf AUTO stellen, aber trotzdem noch Bildrauschen vorhanden ist, schalten Sie von AUTO auf MIN um.

- Die Einstellung auf MIN ist nicht für Bilder mit sehr hoher Qualität und niedrigem Rauschgrad geeignet.

**MAX:**
Der Effektanteil der Funktion DigiPure ist auf Minimum gestellt. Wenn Sie die Funktion Super DigiPure auf AUTO stellen, jedoch der Meinung sind, dass die Schärfe des Originalbildes nicht optimal wiedergegeben wird, schalten Sie von AUTO auf MAX um.

- Die Einstellung MAX ist nicht für Bilder mit schlechter Qualität und hohem Rauschanteil geeignet.

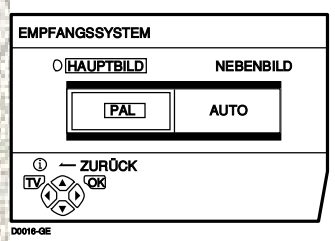
**AUS:**
Die Funktion Super DigiPure ist ausgeschaltet.

## EMPFANGSSYSTEM

Die Fernsehnorm (bzw. das Farbsystem) wird automatisch gewählt. Wenn das Bild jedoch nicht klar ist, oder keine Farbe erscheint, wählen Sie die Fernsehnorm von Hand.

**1 Wählen Sie EMPFANGSSYSTEM. Drücken Sie dann die Taste OK**

Das Untermenü der Funktion EMPFANGSSYSTEM erscheint.




**2 Drücken Sie die Tasten ◀/▶, um HAUPTBILD oder NEBENBILD zu wählen.**

**HAUPTBILD:**
Sie können das Farbsystem des Hauptbildes ändern.

**NEBENBILD:**
Sie können das Farbsystem des Nebenbildes ändern.

- Wählen Sie HAUPTBILD, wenn kein Nebenbild angezeigt wird.

**3 Wählen Sie mit den Tasten ▼/▲ die richtige Fernsehnorm. Drücken Sie dann die Taste OK**

**PAL:**
PAL-System

**SECAM:**
SECAM-System

**NTSC 3.58:**
NTSC 3.58-MHz-System

**NTSC 4.43:**
NTSC 4.43-MHz-System

**AUTO:**
Diese Funktion erkennt die Fernsehnorm anhand des Eingangssignals. Diese Funktion können Sie nur dann benutzen, wenn Sie ein Bildsignal der Programmnummer PR 0 (AV) oder einer EXT-Buchse betrachten.

- Bei schlechter Signalqualität funktioniert AUTO eventuell nicht richtig. Wenn das Bild im Modus AUTO nicht in Ordnung ist, wählen Sie ein anderes Farbsystem von Hand.
- In den Programmnummern PR 0 (AV) bis PR 99 können Sie NTSC 3.58 oder NTSC 4.43 nicht wählen.

## KINO-EFFEKT

Die Funktion KINO-EFFEKT stellt einen Kinofilm weicher und natürlicher auf dem Bildschirm dar.

**AUTO:**
Das Fernsehgerät erkennt automatisch den Signaltyp und schaltet die Funktion ein oder aus.

**EIN:**
Diese Funktion ist eingeschaltet.

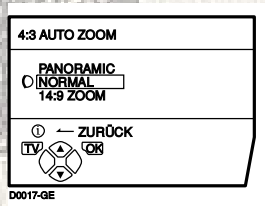
**AUS:**
Diese Funktion ist ausgeschaltet.

- Bewegungen können unnatürlich aussehen, wenn Sie Bilder im NTSC-Farbsystem betrachten. Wenn die Funktion KINO-EFFEKT auf AUTO oder EIN gestellt ist, können Bewegungen unnatürlich erscheinen, wenn Sie Bilder im NTSC-Farbsystem betrachten.
- Diese Funktion können Sie im Zwillingsbild- oder Bild-in-Bild-Modus nicht auswählen.

## 4:3 AUTO ZOOM

Sie können einen von drei ZOOM Modi, NORMAL, PANORAMIC oder 14:9 ZOOM, als ZOOM-Modus für das Normalbild (Bildseitenverhältnis 4:3) wählen.

**1 Wählen Sie 4:3 AUTO ZOOM und drücken Sie dann die Taste OK**




**2 Drücken Sie die Tasten ▼/▲, um einen ZOOM-Modus zu wählen. Drücken Sie dann die Taste OK**

## COLOUR MANAGEMENT

Dieser Fernseher unterstützt die Funktion COLOUR MANAGEMENT um matte Farben so auszugleichen, dass natürliche Farbtöne dargestellt werden.
Die Funktion COLOUR MANAGEMENT ist ab Werk eingeschaltet.

**EIN:**
Die COLOUR MANAGEMENT-Funktion ist eingeschaltet.

**AUS:**
Die COLOUR MANAGEMENT-Funktion ist ausgeschaltet.

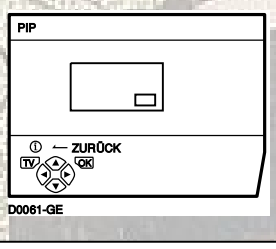
- Schalten Sie diese Funktion unter normalen Bedingungen auf EIN.

## PIP

Sie können eine von vier Positionen für das Nebenbild wählen.

**1 Drücken Sie die Tasten ▼/▲, um PIP zu wählen. Drücken Sie dann die Taste OK**

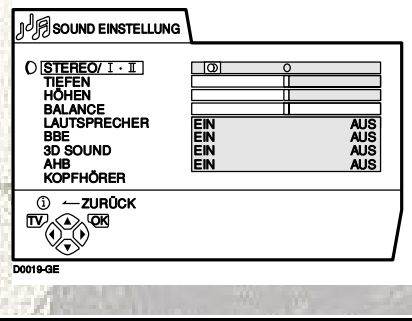
Das Menü PIP erscheint.




**2 Wählen Sie mit den Tasten ◀/▶ einen Position aus. Drücken Sie dann die Taste OK**

# SOUND EINSTELLUNG

Lesen Sie “Bedienung des Menüs des Fernsehers” (siehe Seite 20) für Näheres zur Anzeige der Menüs.




## STEREO / I • II

Wenn Sie eine zweisprachige Sendung (Zweikanalton) sehen, können Sie den Ton von Kanal I (Sub I) oder Kanal II (Sub II) auswählen. Wenn die Stereosendung einen schlechten Tonempfang aufweist, können Sie von Stereo auf Mono umschalten, so dass der Ton monaural, aber in besserer Qualität empfangen wird.

∞ : Stereoton

O : Mono-Ton

I : Zweisprachig I (sub I)

II : Zweisprachig II (sub II)

- Der wählbare Tonmodus hängt vom Fernsehprogramm ab.
- Diese Funktion arbeitet nicht in den Modi EXT. Die Funktion erscheint nicht im Menü SOUND EINSTELLUNG.

## Toneinstellungen

Sie können den Ton nach Ihrem Wunsch einstellen.

**TIEFEN:**
Hier können Sie die Bässe einstellen.
◄ : schwächer
► : stärker

**HÖHEN:**
Hier können Sie die Höhen einstellen.
◄ : schwächer
► : stärker

**BALANCE:**
Sie können das Lautstärkeverhältnis zwischen linkem und rechtem Lautsprecher einstellen.
◄ : Erhöht die Lautstärke des linken Lautsprechers.
► : Erhöht die Lautstärke des rechten Lautsprechers.

## LAUTSPRECHER

Sie können die Tonausgabe der TV-Lautsprecher abschalten. Dies ist beispielsweise sinnvoll, wenn ein Audiosystem als Ersatz für die TV-Lautsprecher angeschlossen ist.

**EIN:**
Die Lautsprecher des Fernsehers sind eingeschaltet.

**AUS:**
Die Lautsprecher des Fernsehers sind ausgeschaltet.

## BBE

Mit der Funktion BBE können Sie einen besonders originalgetreuen Klang genießen.

**EIN:**
Diese Funktion ist eingeschaltet.

**AUS:**
Diese Funktion ist ausgeschaltet.

- Lizensiert durch BBE Sound, Inc. BBE ist ein eingetragenes Warenzeichen der BBE Sound, Inc.

## 3D SOUND

Sie können Surround Sound mit einem “Live”-Effekt hören, indem Sie die Funktion 3D SOUND benutzen.

**EIN:**
Die 3D SOUND-Funktion ist eingeschaltet.

**AUS:**
Die 3D SOUND-Funktion ist ausgeschaltet.

## A.H.B. (Active Hyper Bass)

Zur Hervorhebung der Bässe.

**EIN:**
Diese Funktion ist eingeschaltet.

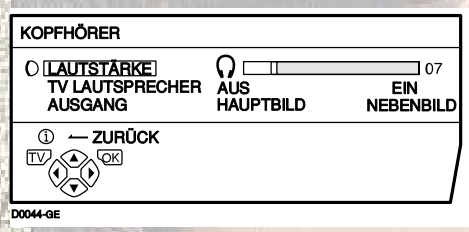
**AUS:**
Diese Funktion ist ausgeschaltet.

# KOPFHÖRER

Sie müssen das Menü KOPFHÖRER aufrufen, um die Kopfhörerlautstärke einstellen zu können.
Im Menü KOPFHÖRER können Sie auch einstellen, ob der Ton aus den Lautsprechern kommen soll, wenn Kopfhörer angeschlossen werden, und Sie können weitere Einstellungen für das Signal vornehmen, das die Kopfhörer wiedergeben sollen.

**1 Drücken Sie die Tasten ▼/▲, um KOPFHÖRER zu wählen. Drücken Sie dann die Taste OK**

Das Untermenü der Funktion KOPFHÖRER erscheint.




**2 Wählen Sie mit den Tasten ▼/▲ eine Funktion aus. Drücken Sie dann die Tasten ◄/►, um die Einstellung zu ändern**

**LAUTSTÄRKE:**
Sie können die Lautstärke der Kopfhörer ändern.

**TV LAUTSPRECHER:**
Sie können die Lautsprecher des Fernsehers ein- oder ausschalten.

**EIN:**
Der Ton kommt weiterhin aus den Fernsehlautsprechern, wenn Kopfhörer angeschlossen werden.

**AUS:**
Der Ton kommt nicht aus den Fernsehlautsprechern, wenn Kopfhörer angeschlossen werden.

**AUSGANG:**
Sie können das für die Kopfhörer bestimmte Tonsignal auswählen.

**HAUPTBILD:**
Sie können den Ton des Hauptbildes im Kopfhörer hören.

**NEBENBILD:**
Sie können den Ton des Nebenbildes im Kopfhörer hören.

- Wenn das Nebenbild ein Fernsehprogramm ist, wird der Ton monaural.

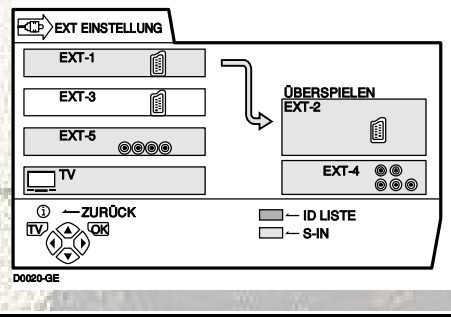
**3 Drücken Sie die Taste OK**

**Tipp:**
Wenn ein Nebenbild angezeigt wird, kann über die Kopfhörer der Ton des Nebenbildes gehört werden, während die Fernsehlautsprecher das Signal des Hauptbildes ausgeben. Um dies zu tun, stellen Sie TV LAUTSPRECHER auf EIN und AUSGANG auf NEBENBILD.

- Die Einstellungen für TIEFEN und HÖHEN, den BBE-Effekt, den A.H.B.-Effekt und den 3D SOUND-Effekt funktionieren nicht für die Kopfhörer.

# EXT EINSTELLUNG

Lesen Sie “Bedienung des Menüs des Fernsehers” (siehe Seite 20) für Näheres zur Anzeige der Menüs.




## S-IN (S-VIDEO-Eingang)

Wenn Sie ein Gerät anschließen (z. B. einen S-VHS-Videorekorder), der ein S-VIDEO-Signal (Y/C-Signal) ausgeben kann, können Sie die hochwertige Bildqualität des S-VIDEO-Signals (Y/C-Signal) genießen.

**Vorbereitung:**

- Lesen Sie zuerst die Anleitung des Gerätes und den Abschnitt “Zusätzliche Vorbereitungen” auf Seite 37, so dass Sie in der Lage sind, das Gerät richtig an Ihren Fernseher anschließen zu können. Lesen Sie dann in der Anleitung des anderen Gerätes nach, um dieses so einzustellen, dass ein S-VIDEO-Signal (Y/C-Signal) ausgegeben wird.
- Stellen Sie nicht den S-IN (S-VIDEO-Eingang) bei einem EXT-Eingang ein, an dem ein Gerät angeschlossen ist, das kein S-VIDEO-Signal (Y/C-Signal) ausgeben kann. Wenn dies falsch eingestellt ist, erscheint kein Bild.

**1 Wählen Sie eine der EXT-Buchsen aus**

**2 Drücken Sie die gelbe Taste und wählen Sie einen S-IN (S-VIDEO-Eingang). Drücken Sie dann die Taste OK**

Das Symbol S-IN (S-VIDEO-Eingang) wird angezeigt. Sie können jetzt ein S-VIDEO-Signal (Y/C-Signal) anstelle des normalen Videosignals (Composite) betrachten.

**Für Abbruch der Funktion S-IN (S-VIDEO-Eingang):**

Drücken Sie die gelbe Taste, so dass das Symbol S-IN (S-VIDEO-Eingang) verschwindet. Der Eingang ist jetzt wieder auf das normale Videosignal (Composite) eingestellt.

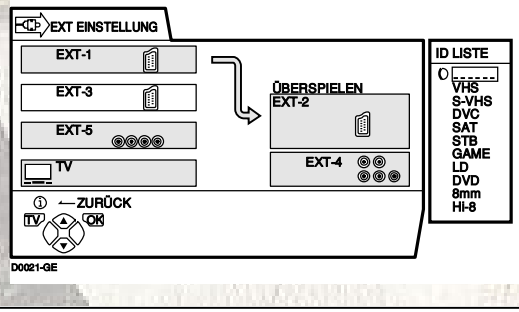
- Der Eingang EXT-1unterstützt kein S-VIDEO-Signal (Y/C-Signal), und Sie können nicht S-IN (S-VIDEO-Eingang) für EXT-1 einstellen.
- Wenn Sie den S-IN (S-VIDEO-Eingang) umschalten, schaltet der Anfangsbuchstabe von “E” auf “S” um. “E2” wird zum Beispiel zu “S2”.
- Auch ein Gerät, das ein S-VIDEO-Signal (Y/C-Signal) senden kann, gibt eventuell ein gewöhnliches Videosignal (Composite) aus, je nachdem, wie es eingestellt ist. Wenn kein Bild erscheint, da die Einstellung S-IN (S-VIDEO-Eingang) gewählt wurde, lesen Sie in der Anleitung des betreffenden Geräts, wie Sie die Einstellung ändern können.

## ID LISTE

Sie können die EXT-Eingänge je nach angeschlossenem Gerät benennen. Bei der Vergabe eines Namens für einen EXT-Anschluss erscheinen die EXT-Anschlussnummer und der Name am Bildschirm.

**1 Wählen Sie eine der EXT-Buchsen aus**

**2 Drücken Sie die blaue Taste, so dass die Namensliste angezeigt wird (ID LISTE)**




**3 Wählen Sie mit den Tasten ▼/▲ einen Namen aus. Drücken Sie dann die Taste OK**

Die ID LISTE verschwindet, und der Name wird dem EXT-Eingang zugeordnet.

- Sie können keinen Namen für einen EXT-Eingang vergeben, der nicht in der Liste auftaucht (ID LISTE).

**Löschen eines gespeicherten EXT-Eingangsnamens:**

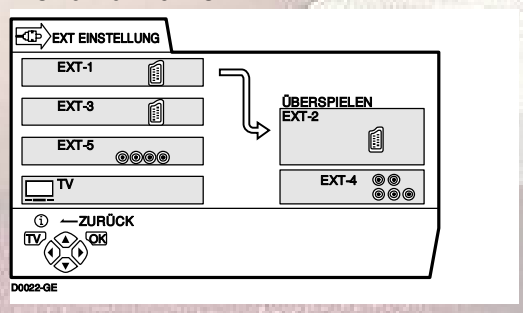
Wählen Sie ein Leerzeichen.

**4 Drücken Sie die Taste OK, um die Einstellung abzuschließen**

## ÜBERSPIELEN

Sie können eine Signalquelle an der Buchse EXT-2 ausgeben.
Sie können ein beliebiges Ausgangssignal eines der Geräte an den EXT-Eingängen auswählen, oder Bild und Ton eines Fernsehkanals, und diese Signale an der Buchse EXT-2 ausgeben.

**1 Drücken Sie die Tasten ◀/▶, um den Pfeil im Menü zu wählen**



**2 Drücken Sie die Tasten ▼/▲, um eine EXT-Buchse oder TV zu wählen.**
**Drücken Sie dann die Taste OK**

Der Pfeil im Menü stellt den Signalfluss dar. Das linke Ende des Pfeils gibt einen Signalquellenausgang der Buchse EXT-2 an.

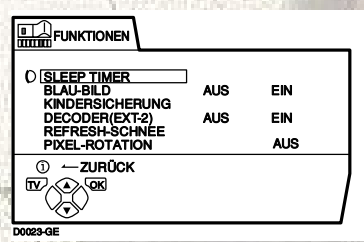
**EXT-1/EXT-3/EXT-5:**
Das Ausgangssignal eines Gerätes, das an der EXT-Buchse angeschlossen ist, durchläuft den Fernseher und wird an der Buchse EXT-2 ausgegeben.

**TV:**
Bild und Ton des momentan gewählten Fernsehkanals werden an der Buchse EXT-2 ausgegeben.

- Während der Überspielung lässt sich das Gerät nicht ausschalten. Wenn Sie das Gerät auf andere Weise ausschalten, wird auch die Signalverbindung zur Buchse EXT-2 ausgeschaltet.
- Wenn Sie eine EXT-Buchse als Ausgang wählen, können Sie eine Sendung oder ein Signal von einem EXT-Eingang anschauen, während Sie die Signale des EXT-Eingangs auf einem Videorekorder aufnehmen, der am Ausgang EXT-2 angeschlossen ist.
- Die RGB-Signale von Spielkonsolen können nicht ausgegeben werden. Videotext kann nicht ausgegeben werden.

# FUNKTIONEN

Lesen Sie “Bedienung des Menüs des Fernsehers” (siehe Seite 20) für Näheres zur Anzeige der Menüs.

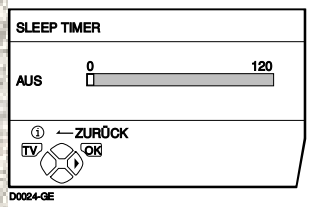



## SLEEP TIMER

Sie können den Fernseher so einstellen, dass er sich nach einer bestimmten Zeit automatisch ausschaltet.

**1 Wählen Sie SLEEP TIMER und drücken Sie dann die Taste OK**

Das Untermenü der Funktion SLEEP TIMER erscheint.




**2 Stellen Sie mit den Tasten ◄/► die Zeitdauer ein. Drücken Sie dann die Taste OK**

Sie können maximal 120 Minuten (2 Stunden) einstellen, in Schritten von 10 Minuten.

- Eine Minute, bevor die Funktion SLEEP TIMER das Gerät ausschaltet, erscheint “GUTE NACHT!”.
- Mit der Funktion SLEEP TIMER kann nicht der Hauptschalter des Gerätes ausgeschaltet werden.
- Bei aktivierter SLEEP TIMER-Funktion können Sie das Untermenü der SLEEP TIMER-Funktion zur Bestätigung/Änderung der Restzeit für den SLEEP TIMER erneut anzeigen. Drücken Sie die Taste **OK**, um das Menü nach Ablesen und/oder Ändern der Restzeit zu verlassen.

**Für Abbruch der SLEEP TIMER-Funktion:**
Stellen Sie mit der Taste ◄ die Zeitdauer auf “AUS”.

## BLAU-BILD

Sie können das Gerät so einstellen, dass es automatisch auf einen blauen Hintergrund umschaltet und den Ton stummschaltet, wenn nur ein schwaches oder überhaupt kein Signal vorhanden ist, oder wenn kein Signal vom externen Gerät ausgegeben wird.

**EIN:**
Diese Funktion ist eingeschaltet.

**AUS:**
Diese Funktion ist ausgeschaltet.

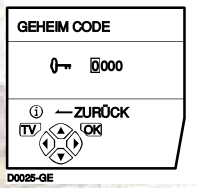
## KINDERSICHERUNG

Für Sender, die Ihre Kinder nicht sehen sollen, können Sie die Funktion KINDERSICHERUNG benutzen, um den Kanal zu sperren. Wählt ein Kind einen Programmplatz (PR) aus, auf dem ein gesperrter Kanal gespeichert ist, wird der Bildschirm blau, zeigt 🔒 (KINDERSICHERUNG) an, und es ist kein TV-Signal zu sehen. Wenn nicht mit einer besonderen Bedienung eine voreingestellte ID-Nummer eingegeben wird, lässt sich die Sicherung nicht umgehen, so dass Ihre Kinder das Programm nicht zu sehen bekommen.

### ■ Einstellen der Funktion KINDERSICHERUNG

**1 Wählen Sie KINDERSICHERUNG und drücken Sie dann die Taste 0 (AV)**

“GEHEIM CODE” (ID -Nummer einstellen) erscheint.



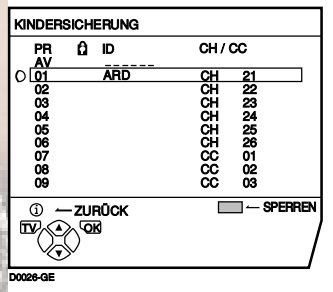

**2 Geben Sie eine beliebige ID-Nummer ein**

**1 Drücken Sie die Tasten ▼/▲, um eine Nummer auszuwählen.**

**2 Bewegen Sie den Cursor mit den Tasten ◄/►.**

**3 Drücken Sie die Taste OK**

Das Untermenü der Funktion KINDERSICHERUNG erscheint.




**4 Wählen Sie mit den Tasten ▼/▲ einen Fernsehkanal**

Mit jedem Druck auf die Tasten ▼/▲ ändert sich die Programmnummer (PR) und das Bild des Senders mit dieser Programmnummer (PR) wird angezeigt.

**5 Drücken Sie die blaue Taste und stellen Sie die KINDERSICHERUNG-Funktion ein. Drücken Sie dann die Taste OK**

🔒 (KINDERSICHERUNG) erscheint und der Kanal ist gesperrt.

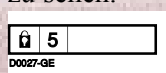
**Rücksetzen der KINDERSICHERUNG-Funktion:**
Drücken Sie die blaue Taste nochmals.
🔒 (KINDERSICHERUNG) verschwindet.

Um das einfache Zurücksetzen der KINDERSICHERUNG-Funktion zu verhindern, verschwindet das Menü nach Anwahl der KINDERSICHERUNG-Funktion und Drücken der Taste **OK** wie bei der normalen Menübedienung.

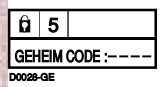
### ■ Betrachten eines gesperrten Fernsehkanals

**1 Wählen Sie mit den Zifferntasten oder (PR LISTE) eine Programmnummer (PR), deren Kanal gesperrt ist**

Der Bildschirm wird blau und 🔒 (KINDERSICHERUNG) angezeigt. Der Sender ist nicht zu sehen.




**2 Drücken Sie die Taste ⓘ (Information) zur Anzeige von “GEHEIM CODE” (GEHEIM CODE-Eingabebildschirm)**



**3 Geben Sie Ihre ID-Nummer mit den Zifferntasten ein**

Die Sperrung wird vorübergehend aufgehoben, und Bild und Ton sind freigeschaltet.

**Wenn Sie die ID-Nummer vergessen haben:**
Führen Sie Schritt 1 von “Einstellen der Funktion KINDERSICHERUNG” aus. Nachdem Sie die ID-Nummer bestätigt haben, drücken Sie die Taste **TV** zum Verlassen des Menüs.

- Wenn Sie die Sperrung vorübergehend aufheben, bedeutet dies nicht, dass die KINDERSICHERUNG-Funktion ausgeschaltet wird. Beim nächsten Versuch, diesen Kanal zu sehen, ist die Sperrung wieder aktiv.
- Um die KINDERSICHERUNG-Funktion auszuschalten, müssen Sie die Bedienung unter “Einstellen der Funktion KINDERSICHERUNG” wiederholen.
- Um den einfachen Aufruf von Programmnummern (PR) mit gesperrten Kanälen zu verhindern, wurde die Programmnummer (PR) so eingestellt, dass sie nicht über die Tasten ▼/▲ oder die Bedienungstasten am Fernseher aufgerufen werden kann.
- Um das einfache Zurücksetzen der Sperre zu verhindern, ist “GEHEIM CODE” (der GEHEIM CODE-Eingabebildschirm) so eingestellt, dass er nur durch Drücken der Taste ⓘ (Information) aufgerufen werden kann.

## DECODER (EXT-2)

Nur bei Anschluss eines Decoders und einem am Eingang T-V LINK angeschlossenen Videorekorder, der EXT-2-kompatibel ist, können Sie diese Funktion benutzen. Für die Bedienung dieser Funktion lesen Sie bitte “Verwendung der DECODER (EXT-2) -Funktion” auf Seite 36.

### Vorsicht

- Wenn Sie keinen Decoder mit einem T-V LINK-kompatiblen Videorekorder an der Buchse EXT-2 angeschlossen haben, kann die versehentliche Einstellung dieser Funktion auf “EIN” dazu führen, dass Bild und Ton des gewählten Senders nicht mehr ausgegeben werden.

## REFRESH-SCHNEE

Wenn die Einbrennung minimal ist, kann das eingebrannte Bild mit der REFRESH-SCHNEE-Funktion weichgezeichnet werden.

**1 Wählen Sie REFRESH-SCHNEE**

**2 Drücken Sie die Taste OK**

Es erscheint Rauschen (Schnee) auf dem Bildschirm. Lassen Sie den Fernseher für einige Stunden in diesem Zustand eingeschaltet.

**3 Drücken Sie nach einigen Stunden die Zifferntasten am Fernseher, oder drücken Sie die Taste ⏻/I.**

Drücken Sie die Taste ⏻ am Fernsehgerät.

Die REFRESH-SCHNEE-Funktion hat keine Wirkung, wenn sie nur für kurze Zeit angewendet wird.

## PIXEL-ROTATION

Das am Bildschirm angezeigte Bild wird in regelmäßigen Abständen nach oben, unten, links und rechts verschoben. Um Einbrennen zu verhindern, stellen Sie diese Funktion auf SCHNELL oder LANGSAM.

**1 Wählen Sie PIXEL-ROTATION**

**2 Drücken Sie die Tasten ◀/▶, um einen Modus zu wählen**

**AUS:**
PIXEL-ROTATION ist ausgeschaltet.

**LANGSAM:**
Das Bild wird alle 30 Minuten verschoben.

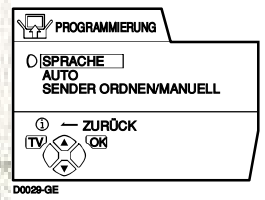
**SCHNELL:**
Das Bild wird alle 10 Minuten verschoben.

**3 Drücken Sie die Taste OK**

Das Menü verschwindet

# PROGRAMMIERUNG

Lesen Sie “Bedienung des Menüs des Fernsehers” (siehe Seite 20) für Näheres zur Anzeige der Menüs.

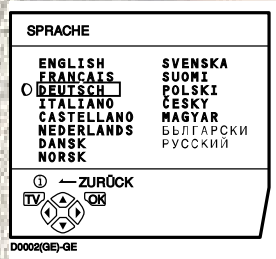



## SPRACHE

Aus der Liste der Sprachen im Menü können Sie die Sprache wählen, in denen die Menüs und Dialoge auf dem Bildschirm erscheinen.

**1 Wählen Sie SPRACHE und drücken Sie dann die Taste OK**

Das Untermenü der Funktion SPRACHE erscheint.




**2 Drücken Sie die Tasten ◄/► und ▼/▲, um eine Sprache zu wählen. Drücken Sie dann die Taste OK**

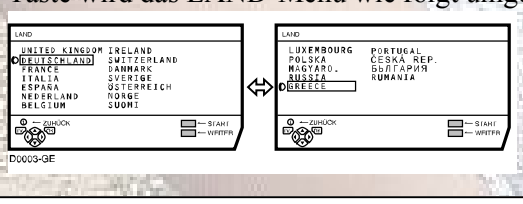
## AUTO

Mit folgenden Schritten können Sie die Sender, die bei Ihnen einwandfrei zu empfangen sind, automatisch auf den Programmnummern (PR) speichern.

**1 Wählen Sie AUTO. Drücken Sie dann die Taste OK**

Das Menü LAND erscheint als Untermenü der Funktion AUTO.

Es gibt zwei LAND-Menüs. Durch Drücken der gelben Taste wird das LAND-Menü wie folgt umgeschaltet:

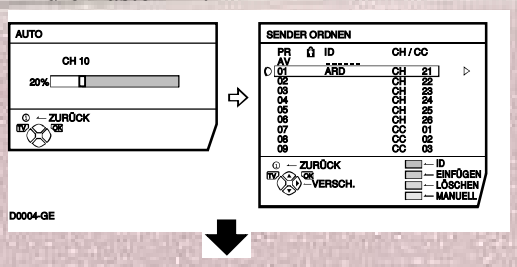



**2 Drücken Sie die Tasten ◄/► und ▼/▲, um das Land zu wählen, in dem Sie sich momentan befinden**

**3 Starten Sie die Funktion AUTO mit der blauen Taste.**

Das Menü AUTO erscheint, und die empfangenen Fernsehkanäle werden automatisch auf die Programmnummern verteilt und gespeichert (PR).

- Um die AUTO-Funktion abzubrechen, drücken Sie die Taste ***TV***.




**Sobald die Fernsehkanäle auf den Programmnummern gespeichert sind, (PR), erscheint das Menü SENDER ORDNEN.**

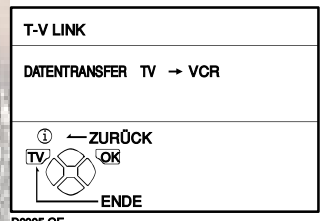
- Sie können jetzt mit der Bearbeitung der Programmnummern (PR) in der Funktion SENDER ORDNEN/MANUELL fortfahren. Für Einzelheiten lesen Sie bitte “SENDER ORDNEN/MANUELL” auf Seite 32.
- Wenn Sie die Funktion SENDER ORDNEN/MANUELL nicht benutzen möchten, fahren Sie mit den nächsten Schritten fort.

**Wenn “ACI START/ACI WEITER” im Menü AUTO erscheint:**

Sie können die Funktion ACI (Automatische Programmierung) verwenden, um die ACI-Daten zu dekodieren und die Registrierung aller Fernsehkanäle in kurzer Zeit zu beenden. Einzelheiten über die ACI-Funktion und ihre Verwendung siehe “Verwendung der ACI-Funktion” auf Seite 35.

Wenn Sie die ACI-Funktion nicht verwenden möchten, drücken Sie die Tasten ▼/▲ zum Wählen von ACI WEITER und drücken dann die Taste **OK**.

**4 Drücken Sie die Taste OK zur Anzeige des Menüs T-V LINK**




**5 Wenn Sie keinen T-V LINK-kompatiblen Videorekorder angeschlossen haben:**

Drücken Sie die Taste ***TV***, um das Menü T-V LINK zu verlassen.

**Wenn Sie einen T-V LINK-kompatiblen Videorekorder an der Buchse EXT-2 angeschlossen haben:**

Befolgen Sie die Bedienungsschritte unter “Herunterladen (Download) der Daten zum Videorekorder” auf Seite 35, um die Programmnummer-Daten zu übertragen (PR).

- Wenn Ihr Fernseher aus dem Sendesignal den Namen des Fernsehsenders lesen kann, speichert er diesen automatisch (ID) unter der Programmnummer (PR), auf der der Kanal gespeichert wurde.
- Wenn der gewünschte Fernsehkanal auf keiner Programmnummer (PR) gespeichert wurde, stellen Sie diesen mit der Funktion MANUELL von Hand ein. Für Einzelheiten lesen Sie bitte “SENDER ORDNEN/MANUELL” auf Seite 32.
- Der Fernsehkanal ist nicht unter einer Programmnummer gespeichert PR 0 (AV). Wenn Sie einen Fernsehkanal unter PR 0 (AV) einstellen möchten, stellen Sie diesen mit der Funktion MANUELL von Hand ein. Für Einzelheiten lesen Sie bitte “SENDER ORDNEN/MANUELL” auf Seite 32.

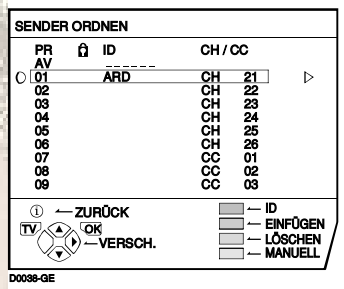
# SENDER ORDNEN/MANUELL

Die Funktionen SENDER ORDNEN/MANUELL sind in zwei Gruppen eingeteilt: Bearbeitung der aktuellen Programmnummern (PR) (SENDER ORDNEN-Funktionen) und manuelle Speicherung von Fernsehkanälen unter einer Programmnummer (PR) (MANUELL-Funktion). Zu den Funktionen im Einzelnen:

## Vorsicht

- Mit den Funktionen VERSCH., LÖSCHEN oder EINFÜGEN überschreiben Sie die momentane Programmnummer-Liste (PR). Dadurch ändern sich auch die Programmnummern (PR) anderer Fernsehkanäle.
- Wenn Sie die Funktion MANUELL bei einem Sender benutzen, der mit der Funktion KINDERSICHERUNG gesperrt wurde, wird die Kindersicherung (KINDERSICHERUNG) für diesen Kanal aufgehoben.
- Wenn Sie die Funktion MANUELL bei einem Sender benutzen, bei dem DECODER (EXT-2) auf EIN gestellt ist, wird die DECODER (EXT-2) -Einstellung für diesen Sender auf AUS eingestellt.
- Wenn ein Sender bereits in PR 99 gespeichert wurde, wird der Fernsehkanal durch die Funktion EINFÜGEN gelöscht.

### 1 Wählen Sie SENDER ORDNEN/MANUELL und drücken Sie dann die Taste OK




- Als Programmnummer erscheint PR 0, “AV” in der Liste der Programmnummern (PR).
- Die Nummer eines EXT-Anschlusses erscheint nicht in der Liste der Programmnummern (PR).
- Die CH/CC-Nummer gibt es ausschließlich in diesem Fernsehgerät, und sie enspricht der Kanalnummer eines Fernsehkanals. Für die Beziehung zwischen der Kanalnummer und der CH/CC-Nummer lesen Sie bitte “CH/CC-Nummern” auf Seite 39.

### 2 Lesen Sie die Bedienungsschritte der Funktion, die Sie bedienen möchten, und führen Sie die Schritte aus

**VERSCH.:**
Diese Funktion ändert die Programnummer (PR) eines Fernsehkanals.

**ID:**
Diese Funktion speichert einen Sendernamen (ID) für einen Fernsehkanal.

**EINFÜGEN:**
Diese Funktion fügt der aktuellen Liste der Programmnummern (PR) anhand der CH/CC-Nummer einen neuen Fernsehkanal hinzu.

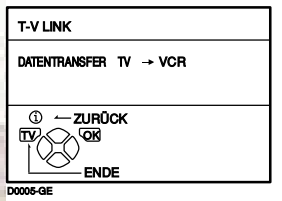
- Die EINFÜGEN-Funktion können Sie nicht benutzen, wenn Sie die Kanalnummer eines Fernsehsenders nicht kennen. Benutzen Sie die MANUELL-Funktion, um einen Fernsehkanal unter einer Programmnummer zu speichern (PR).

**LÖSCHEN:**
Diese Funktion löscht einen nicht benötigten Sender.

**MANUELL:**
Mit dieser Funktion speichern Sie einen neuen Fernsehsender von Hand unter einer Programmnummer (PR).

### 3 Drücken Sie die Taste OK, um die Einstellung abzuschließen

Das Menü T-V LINK erscheint.




### 4 Wenn Sie keinen T-V LINK-kompatiblen Videorekorder angeschlossen haben:

Drücken Sie die Taste ***TV***, um das Menü T-V LINK zu verlassen.
Das Menü T-V LINK verschwindet, und alle Einstellungen sind abgeschlossen.

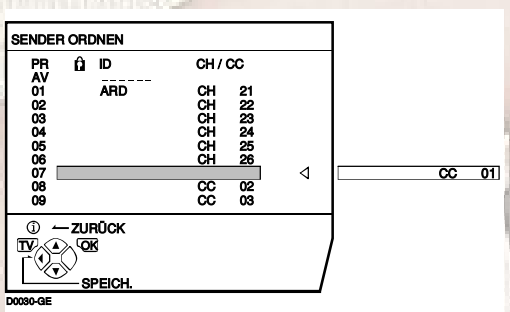
**Wenn Sie einen T-V LINK-kompatiblen Videorekorder an der Buchse EXT-2 angeschlossen haben:**
Befolgen Sie die Bedienungsschritte unter “Herunterladen (Download) der Daten zum Videorekorder” auf Seite 35, um die Programmnummer-Daten an den Videorekorder zu übertragen (PR).

## ■ VERSCH.

### 1 Wählen Sie mit den Tasten ▼/▲ einen Fernsehkanal

Mit jedem Druck auf die Tasten ▼/▲ ändert sich die Programmnummer (PR) und das Bild des Senders mit dieser Programmnummer (PR) wird angezeigt.

### 2 Drücken Sie die Taste ▶, um die Funktion VERSCH. auszulösen




### 3 Drücken Sie die Tasten ▼/▲, um eine neue Programmnummer (PR) zu wählen

**Für Abbruch der VERSCH.-Funktion:**
Drücken Sie die Taste ⓘ (Information).

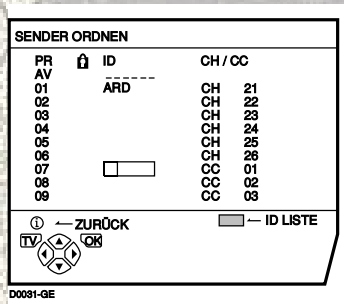
### 4 Drücken Sie die Taste ◀, um die Programmnummer (PR) eines Fernsehkanals auf eine neue Programmnummer (PR) zu ändern

## ■ ID

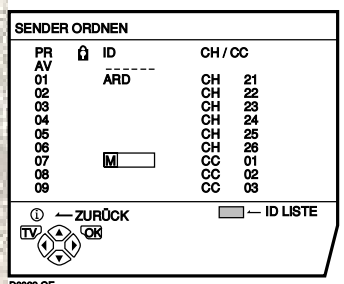
### 1 Wählen Sie mit den Tasten ▼/▲ einen Fernsehkanal

Mit jedem Druck auf die Tasten ▼/▲ ändert sich die Programmnummer (PR) und das Bild des Senders mit dieser Programmnummer (PR) wird angezeigt.

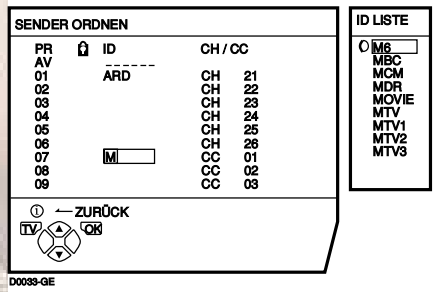
### 2 Drücken Sie die rote Taste, um die ID-Funktion zu starten




### 3 Wählen Sie mit den Tasten ▼/▲ das erste Zeichen des Kanalnamens (ID), den Sie dem Sender geben möchten




### 4 Drücken Sie die blaue Taste, so dass die Liste der Kanalnamen (ID LISTE) angezeigt wird




### 5 Wählen Sie mit den Tasten ▼/▲ den Kanalnamen (ID)

**Für Abbruch der ID-Funktion:**
Drücken Sie die Taste ⓘ (Information).

### 6 Drücken Sie die Taste OK, um den Kanalnamen (ID) für den Fernsehkanal zu speichern

- Sie können Ihren eigenen Sendernamen (ID) für einen Fernsehkanal speichern. Wenn Schritt 3 abgeschlossen ist, fahren Sie nicht mit Schritt 4 fort, sondern bewegen mit den Tasten ◄/► den Cursor und wählen mit den Tasten ▼/▲ ein Zeichen aus, bis der Name des Senders vollständig eingegeben ist (ID). Drücken Sie dann die Taste **OK**, um den Sendernamen (ID) für den Fernsehkanal zu speichern.

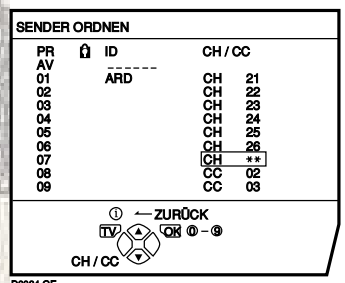
## ■ EINFÜGEN

**Vorbereitung:**

- Es wird die CH/CC-Nummer benötigt, die ausschließlich in diesem Fernsehgerät existiert und der Kanalnummer eines Fernsehkanals enspricht. Suchen Sie die entsprechende CH/CC-Nummer in einer Tabelle “CH/CC-Nummern” auf Seite 39 mit den Nummern aller Fernsehkanäle.
- Wenn die Einstellung LAND nicht FRANCE ist, benutzen Sie eine zweistellige CH/CC-Nummer. Wenn LAND auf FRANCE steht, benutzen Sie eine dreistellige CH/CC-Nummer.
- Nur dann, wenn Sie einen Fernsehkanal (SECAM-L-System) eines französischen Senders hinzufügen, achten Sie darauf, dass LAND auf FRANCE Funktion steht. Wenn LAND nicht auf FRANCE steht, befolgen Sie die Erklärungen unter “Ändern der LAND-Einstellung” auf Seite 36 zur Änderung der LAND-Einstellung auf FRANCE, und starten Sie dann die Funktion EINFÜGEN.

### 1 Drücken Sie die Tasten ▼/▲, um eine Programmnummer (PR) zu wählen, unter der Sie einen neuen Fernsehkanal speichern möchten

### 2 Drücken Sie die grüne Taste, und starten Sie die Funktion EINFÜGEN




### 3 Drücken Sie die Tasten ▼/▲ zur Auswahl von “CC” oder “CH” entsprechend der CH/CC-Nummer des Fernsehkanals

**Wenn LAND auf FRANCE eingestellt ist:**
Wählen Sie “CH1”, “CH2”, “CC1” oder “CC2”.

**Für Abbruch der EINFÜGEN-Funktion:**
Drücken Sie die Taste ⓘ (Information).

### 4 Drücken Sie die Zifferntasten, um die verbleibende CH/CC-Nummer einzugeben

Das Fernsehgerät schaltet in den Aufzeichnungsmodus. Wenn die Aufzeichnung beendet ist, erscheint das Bild des Fernsehkanals auf dem Bildschirm.

- Die CH/CC-Nummer gibt die Sendefrequenz des Fernsehsenders an. Wenn das Gerät den Fernsehsender bei der durch die CH/CC-Nummer angezeigten Frequenz nicht erkennen kann, erscheint das Bild für “kein Signal”.

## ■ LÖSCHEN

**1 Wählen Sie mit den Tasten ▼/▲ einen Fernsehkanal**

Mit jedem Druck auf die Tasten ▼/▲ ändert sich die Programmnummer (PR) und das Bild des Senders mit dieser Programmnummer (PR) wird angezeigt.

**2 Löschen Sie den Fernsehkanal mit der gelben Taste**

Der Fernsehkanal wird aus der Liste der Programmnummern (PR) gelöscht.

## ■ MANUELL

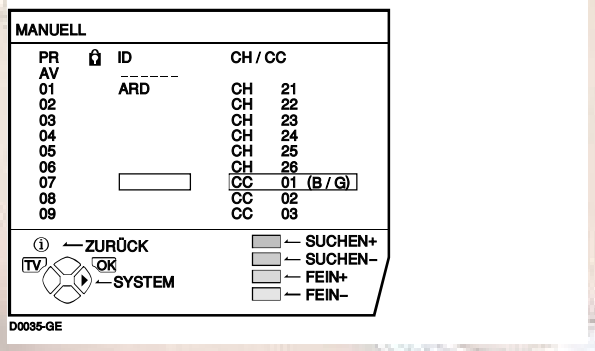
**Vorbereitung:**

- Nur dann, wenn Sie einen Fernsehkanal (SECAM-L-System) eines französischen Senders hinzufügen, achten Sie darauf, dass LAND auf FRANCEsteht. Wenn LAND nicht auf FRANCE steht, befolgen Sie die Erklärungen unter “Ändern der LAND-Einstellung” auf Seite 36 zur Änderung der LAND-Einstellung auf FRANCE, und starten Sie dann die Funktion MANUELL.

**1 Drücken Sie die Tasten ▼/▲, um eine Programmnummer (PR) zu wählen, unter der Sie einen neuen Fernsehkanal speichern möchten**

**2 Starten Sie die Funktion MANUELL mit der blauen Taste**

Rechts neben der CH/CC-Nummer erscheint SYSTEM (die Fernsehnorm) des Fernsehkanals.




**Für Abbruch der MANUELL-Funktion:**
Drücken Sie die Taste ⓘ (Information).

**3 Drücken Sie die Taste ▶, um das SYSTEM (die Fernsehnorm) des zu speichernden Fernsehkanals zu wählen**

**Fernsehkanal (SECAM-L-System) eines französischen Senders:**
Stellen Sie die Funktion SYSTEM auf “L”. Wenn diese Funktion nicht auf “L” gestellt ist, können Sie den Fernsehkanal des SECAM-L-Systems nicht empfangen.

**Andere Fernsehkanäle:**
Wenn Sie die Fernsehnorm eines Kanals nicht genau kennen, stellen Sie SYSTEM auf “B/G” ein. Wenn “B/G” nicht richtig ist, führt dies zu falscher Tonwiedergabe, wenn das Gerät einen Fernsehkanal erkennt. Stellen Sie in diesem Fall SYSTEM erneut ein, so dass das Problem nicht fortbesteht.

**4 Suchen Sie mit der grünen oder der roten Taste einen Fernsehkanal**

Die Suche stoppt, sobald das Gerät einen Kanal gefunden hat. Daraufhin wird der Fernsehkanal angezeigt.

**5 Drücken Sie so oft die grüne oder die rote Taste, bis Sie den gewünschten Sender gefunden haben**

**Bei schlechtem Empfang:**
Drücken Sie die blaue oder die gelbe Taste, um den Kanal feinabzustimmen.

**Wenn bei normalem Fernsehbild der Ton verzerrt klingt:**
Die Einstellung SYSTEM ist vermutlich falsch. Drücken Sie die Taste ▶ und wählen Sie ein SYSTEM, bei dem der Ton normal klingt.

**6 Drücken Sie die Taste OK und speichern Sie den Fernsehkanal unter einer Programmnummer (PR)**

Es erscheint wieder das normale SENDER ORDNEN-Menü.

# Zusätzliche Menüfunktionen

## Verwendung der ACI-Funktion

Dieses Fernsehgerät hat eine ACI-Funktion, die ACI-(automatische Programmierung) Daten dekodiert.
Mit der ACI-Funktion können alle Fernsehkanäle, die von Kabelfernsehsendern übertragen werden, schnell und richtig entsprechend den Daten des Kabelfernsehsenders gespeichert werden.

### Vorsicht

- Wenn der Kabelfernsehsender ACI-Daten sendet und “ACI START/ACI WEITER” im Menü AUTO erscheint, ist die ACI-Funktion aktiviert. In allen anderen Fällen ist sie deaktiviert.

**1 Drücken Sie die Tasten ▼/▲, um ACI START zu wählen. Drücken Sie dann die Taste OK zum Starten der ACI-Funktion**

**Wenn Sie die ACI-Funktion nicht verwenden wollen:**
Drücken Sie die Taste ▼/▲, um ACI WEITER zu wählen, und drücken Sie dann die Taste **OK**.

**Wenn das Menü AUTO auf ein anderes Menü umwechselt:**
Je nach Kabelfernsehsender kann ein Menü zur Auswahl eines Senders vorhanden sein, das vom Kabelfernsehsender eingerichtet ist.
Folgen Sie den Menüanzeigen and verwenden Sie die ◄/► und ▼/▲ Tasten zum Bedienen des Menüs. Nach der Einstellung drücken Sie die Taste **OK**.

**Wenn “ACI FEHLER” im Menü AUTO gezeigt wird:**
“ACI FEHLER” weist darauf hin, dass die ACI-Funktion nicht richtig arbeitet. Drücken Sie **OK**, um die ACI-Funktion erneut zu starten.
Wenn “ACI FEHLER” weiterhin erscheint, nachdem Sie mehrmals versucht haben, die ACI-Funktion zu starten, drücken Sie die ► Taste zum Starten der AUTO-Funktion. Es verursacht kein Problem, weil alle Fernsehkanäle unter den Programmnummern (PR) von der AUTO funktion registriert sind.

**2 Wenn die Einstellungen beendet sind, erscheint das SENDER ORDNEN-Menü. Kehren Sie zu den Anweisungen zurück, die Sie vorher lasen, und setzen Sie die Bedienung fort**

**Wenn die “Grundeinstellungen” vorgenommen wurden:**
Kehren Sie zurück zu Schritt 6 von “Grundeinstellungen” auf Seite 11.

**Wenn die “AUTO” vorgenommen wurden:**
Kehren Sie zurück zu Schritt 4 von “AUTO” auf Seite 31.

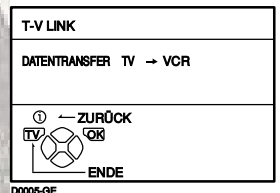
- Wenn Sie Fragen über Gegenstände im Senderwahlmenü oder zur Bedienung der Menüs haben, wenden Sie sich an Ihren Kabelfernsehsender.
- Wenn der Kabelempfang schlecht ist, arbeitet die ACI-Funktion nicht richtig.
- Wenn die ACI-Daten selbst fehlerhaft sind, kannn der Fernsehkanal nicht richtig registriert werden. Schalten Sie in diesem Fall die ACI-Funktion aus (ACI WEITER) und verwenden die AUTO-Funktion. Alternativ können Sie die Funktion SENDER ORDNEN/MANUELL zum Korrigieren der Programmnummern (PR) verwenden.

## Herunterladen (Download) der Daten zum Videorekorder

Sie können die aktuellen Daten aller Programmnummern (PR) mit der Funktion T-V LINK an den Videorekorder senden.

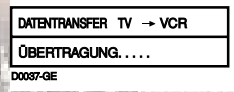
### Vorsicht

- Nur wenn ein T-V LINK-kompatibler Videorekorder an der Buchse EXT-2 angeschlossen ist, ist diese Funktion möglich.
- Nur wenn das Menü T-V LINK angezeigt wird, ist diese Funktion eingeschaltet.




**1 Schalten Sie den Videorekorder ein**

**2 Drücken Sie die Taste OK**
Die Datenübertragung beginnt.




Das T-V LINK-Menü verschwindet, sobald die Übertragung beendet ist.

**Wenn vom Menü T-V LINK auf ein anderes Menü gewechselt wird:**
Die Menübedienung am Fernseher ist nun abgeschlossen, und es erfolgt die rekorderseitige Menübedienung. Lesen Sie die Anleitung Ihres Videorekorders und fahren Sie mit dessen Bedienung fort.

Wenn “FUNKTION NICHT VERFÜGBAR” im T-V LINK-Menü erscheint, achten Sie darauf, dass die folgenden drei Einträge richtig sind, und drücken die Taste **OK**, um die Datenübertragung erneut zu beginnen.

- Wurde ein T-V LINK-kompatibler Videorekorder an der Buchse EXT-2 angeschlossen?
- Ist der Videorekorder eingeschaltet?
- Weist das SCART-Kabel, das den Anschluss EXT-2 mit dem T-V LINK-kompatiblen Videorekorder verbindet, alle richtigen Verbindungen auf?

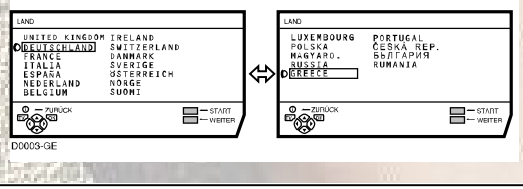
## Ändern der LAND-Einstellung

Nachdem die Funktion AUTO abgeschlossen ist, können Sie mit der Funktion AUTO das bereits eingestellte Land ändern.
Beim Speichern von Fernsehkanälen für französische Sender (SECAM-L-System) führen Sie folgende Schritte aus, um das Land zu ändern.

**1 Anzeigen des Menüs PROGRAMMIERUNG**

**Wenn das Menü SENDER ORDNEN gerade angezeigt wird:**
Drücken Sie die Taste ⓘ (Information), um zum Menü PROGRAMMIERUNG zurückzukehren.

**2 Drücken Sie die Tasten ▼/▲, um AUTO zu wählen. Drücken Sie dann die Taste OK**
Das Menü LAND erscheint als Untermenü der Funktion AUTO.
Es gibt zwei LAND-Menüs. Durch Drücken der gelben Taste wird das LAND-Menü wie folgt umgeschaltet:




**3 Wählen Sie mit den Tasten ◄/► und ▼/▲ ein Land aus**

**4 Drücken Sie die Taste OK, um die Einstellung abzuschließen**
Das Menü verschwindet.

**Für die Rückkehr zum PROGRAMMIERUNG-Menü vom LAND-Menü aus:**
Drücken Sie die Taste ⓘ (Information) anstelle der Taste **OK**.

## Verwendung der DECODER (EXT-2) -Funktion

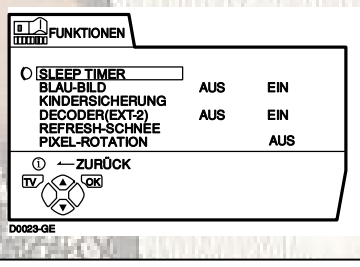
Wenn Sie einen Decoder anschließen, während am Eingang T-V LINK ein EXT-2-kompatibler Videorekorder angeschlossen ist, müssen Sie die Funktion DECODER (EXT-2) nutzen, um die verschlüsselten Videosignale zu dekodieren.

**1 Schalten Sie den Decoder ein**

**2 Rufen Sie einen Fernsehkanal auf, den Ihr Decoder dekodieren kann**
Auch dann, wenn der Decoder funktioniert, erscheint zu diesem Zeitpunkt noch ein verschlüsseltes Bild.

**3 Drücken Sie die Taste OK zur Anzeige des Menüs MENUE**
Das Menü MENUE (Hauptmenü) erscheint.

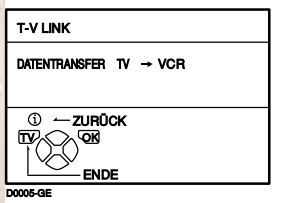
**4 Drücken Sie die Tasten ▼/▲, um FUNKTIONEN zu wählen. Drücken Sie dann die Taste OK**
Das Menü FUNKTIONEN erscheint.




**5 Drücken Sie die Tasten ▼/▲, um DECODER (EXT-2) zu wählen. Drücken Sie dann die Tasten ◄/►, um EIN zu wählen**
Das dekodierte Bild erscheint.

**Für Abbruch der DECODER (EXT-2) -Funktion:**
Drücken Sie die Tasten ◄/►, um AUS zu wählen.

**6 Drücken Sie die Taste OK, um die Einstellung abzuschließen**
Das Menü T-V LINK erscheint.




**7 Befolgen Sie die Bedienungsschritte unter "Herunterladen (Download) der Daten zum Videorekorder" auf Seite 35, um die Programmnummer-Daten an den Videorekorder zu übertragen (PR)**

**8 Wenn es noch weitere Fernsehkanäle gibt, die Ihr Decoder dekodieren kann, wiederholen Sie Schritte 2 bis 7**

Wenn aus irgend einem Grund die DECODER (EXT-2) -Funktion auf "EIN" eingestellt wurde, der Kanal jedoch nicht dekodiert werden kann, prüfen Sie Folgendes:

- Wurde der Decoder nach den Anleitungen des Rekorders und des Decoders richtig an den Videorekorder angeschlossen?
- Ist der Decoder eingeschaltet?
- Kann der betreffende Fernsehkanal von Ihrem Decoder entschlüsselt werden?
- Müssen eventuell noch Einstellungen am Videorekorder vorgenommen werden, damit der Decoder richtig verbunden ist? Lesen Sie nochmals in der Anleitung des Videorekorders, ob dieser richtig angeschlossen ist.

# Zusätzliche Vorbereitungen

## Anschluss externer Geräte

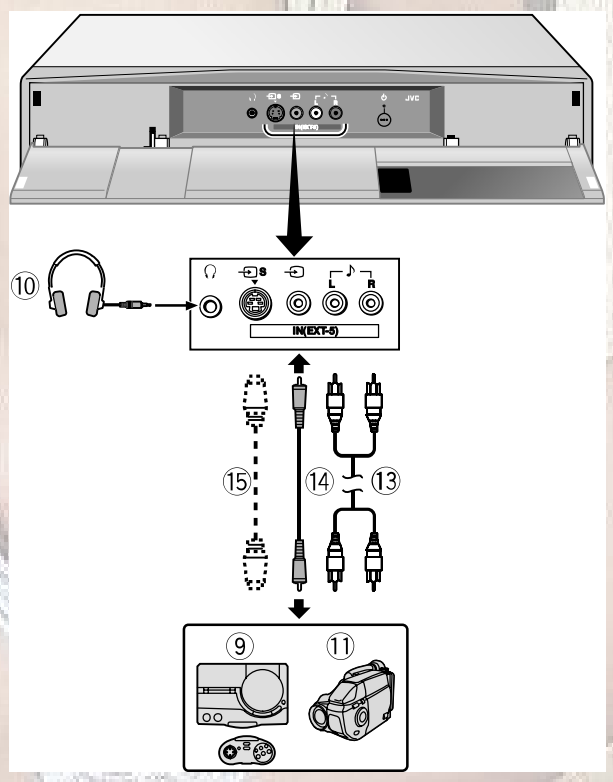
Schließen Sie die Geräte unter Beachtung der folgenden Anschlussdiagramme an Ihrem Fernseher an.

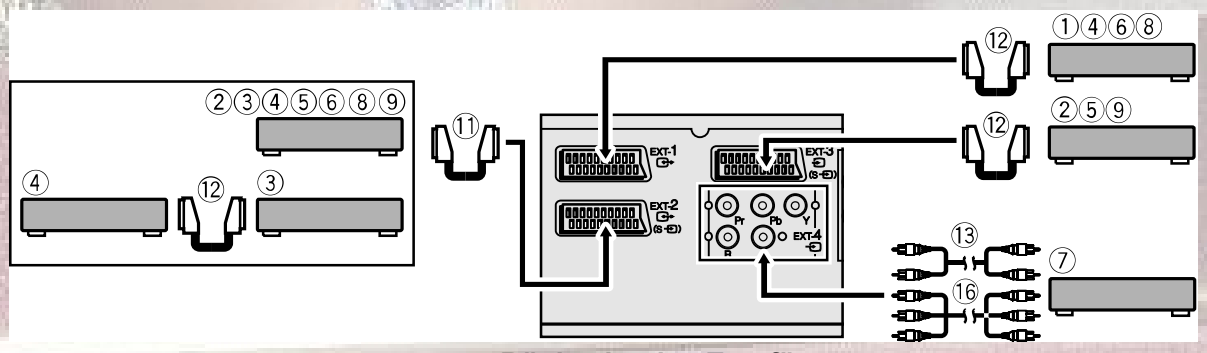
**Bevor Sie Verbindungen herstellen:**

- Lesen Sie die Anleitungen aller beteiligten Geräte. Abhängig von den Geräten unterscheidet sich die Anschlussmethode von den gezeigten Lösungen. Zusätzlich ist es eventuell nötig, Einstellungen an den Geräten zu ändern, um eine einwandfreie Funktion zu gewährleisten.
- Schalten Sie alle Geräte einschließlich des Fernsehers aus.
- Im Abschnitt “Technische Daten” auf Seite 42 erfahren Sie Einzelheiten zu den EXT-Anschlüssen. Wenn Sie ein Gerät anschließen, das im folgenden Anschlussdiagramm nicht aufgeführt ist, schauen Sie in der Tabelle nach, um den am besten geeigneten EXT-Anschluss zu ermitteln.
- Beachten Sie, dass die Anschlusskabel nicht mitgeliefert werden.

① Videorekorder (Composite-Signal)
② Videorekorder (Composite/S-VIDEO-Signal)
③ T-V LINK-kompatibler Videorekorder (Composite-/S-VIDEO-Signal)
④ Decoder
⑤ DVD-Spieler (Composite-/S-VIDEO-Signal)
⑥ DVD-Spieler (Composite-/RGB-Signal)
⑦ DVD-Spieler (Composite-Videosignale; Pr/Pb/Y)
⑧ Spielekonsole (Composite/RGB-Signal)
⑨ Spielekonsole (Composite/S-VIDEO-Signal)
⑩ Kopfhörer
⑪ Camcorder (Composite/S-VIDEO-Signal)
⑫ SCART-Kabel
⑬ Audiokabel
⑭ Videokabel
⑮ S-VIDEO-Kabel
⑯ Komponenten-Anschlusskabel

**Vorderseite des Empfängers**




**Rückseite des Empfängers**

## ■ Geräte, die das S-VIDEO-Signal (Y/C-Signal) z.B. von einem Videorekorder S-VHS ausgeben können

Schließen Sie das Gerät an einen EXT-Anschluss (mit Ausnahme des EXT-1-Anschlusses) an.
Sie können ein Video-Eingangssignal aus dem S-VIDEO-Signal (Y/C-Signal) und dem normalen Videosignal (Composite Video) auswählen. Für Einzelheiten zum Betrieb des Gerätes lesen Sie bitte “S-IN (S-VIDEO-Eingang)” auf Seite 27.

## ■ T-V LINK-kompatibler Videorekorder

Achten Sie darauf, den T-V LINK-kompatiblen Videorekorder an der Buchse EXT-2 anzuschließen. Wenn Sie dies nicht tun, T-V LINK funktioniert der Rekorder nicht richtig.

- Achten Sie beim Anschluss eines T-V LINK-kompatiblen Videorekorders an der Buchse EXT-2 darauf, dass der Decoder an den Rekorder angeschlossen wird. Wenn nicht, arbeitet die T-V LINK-Funktion nicht richtig. Nachdem Sie die Fernsehkanäle auf Programmnummern (PR) gespeichert haben, stellen Sie die Funktion DECODER (EXT-2) bei der Programmnummer (PR) auf EIN, so dass ein verschlüsselter Kanal entschlüsselt wird. Näheres zur Bedienung erfahren Sie unter “Verwendung der DECODER (EXT-2) -Funktion” auf Seite 36.

## ■ Anschluss von Kopfhörern

Schließen Sie einen Kopfhörer mit Stereo-Miniklinkenstecker (3,5 mm Durchmesser) an der Kopfhörerbuchse an der Empfängerrückseite an.

- Die Kopfhörerlautstärke wird im Menü “KOPFHÖRER” eingestellt (siehe Seite 26).

## ■ Video-/Tonsignalausgabe an der BuchseEXT-2

Sie können beliebig auf die Ausgabe des Video-/Tonsignal an der Buchse EXT-2 umschalten. Dies ist sinnvoll, wenn Sie das Video-/Audiosignal von einem anderen Gerät auf dem Videorekorder aufnehmen möchten, der am Anschluss EXT-2 angeschlossen ist. Näheres zur Bedienung erfahren Sie unter “ÜBERSPIELEN” auf Seite 27.

## ■ Ausgabe des Fernsehsignals an der Buchse EXT-1

Bild und Ton des momentan gewählten Fernsehkanals werden ständig an der Buchse EXT-1 ausgegeben.

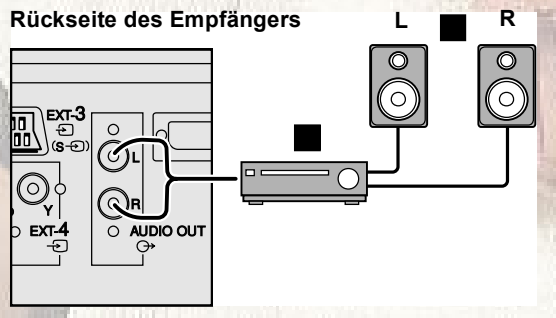
- Wenn Sie die Programmnummer (PR) umschalten, ändert sich auch die Ausgabe an der Buchse EXT-1.
- Das Video-/Tonsignal von einem EXT-Anschluss kann nicht ausgegeben werden.
- Videotext kann nicht ausgegeben werden.

## ■ Anschließen von Lautsprechern/Verstärker

Schließen Sie unter Beachtung der Anschlußzeichnung für Audiogeräte die gewünschten Audiogeräte am Fernsehgerät an.
Zur Tonwiedergabe können Sie anstelle der TV-Lautsprecher externe Frontlautsprecher verwenden.

**Bevor Sie Verbindungen herstellen:**

- Lesen Sie die mit dem Verstärker und den Lautsprechern mitgelieferten Anleitungen.
- Schalten Sie das Fernsehgerät und den Verstärker aus.
- Um magnetische Einflüsse der Lautsprecher auf den Bildschirm zu vermeiden, sollten Sie magnetisch abgeschirmte Frontlautsprecher verwenden.
- Beachten Sie, dass die Anschlusskabel nicht mitgeliefert werden.




1 Verstärker
2 Externe Lautsprecher (magnetisch abgeschirmt)

- Die Wiedergabe an der AUDIO OUT-Buchse wird beim Anschluß eines Kopfhörers an den Fernseher nicht unterbrochen. Die Tonwiedergabe über die Frontlautsprecher kann auch durch den Anschluß eines Kopfhörers am Fernseher nicht abgeschaltet werden.
- Stellen Sie die Lautstärke des externen Verstärker-/Lautsprechersystems dort ein.

# CH/CC-Nummern

Wenn Sie die EINFÜGEN-Funktion (beschrieben unter Seite 33) benutzen möchten, finden Sie mit Hilfe dieser Tabelle die CH/CC-Nummer heraus, die der Kanalnummer des Fernsehkanals entspricht.

| CH | Kanal |
|---|---|
| CH 02 / CH 202 | E2, R1 |
| CH 03 / CH 203 | E3, ITALIE A |
| CH 04 / CH 204 | E4, ITALIE B, R2 |
| CH 05 / CH 205 | E5, ITALIE D, R6 |
| CH 06 / CH 206 | E6, ITALIE E, R7 |
| CH 07 / CH 207 | E7, ITALIE F, R8 |
| CH 08 / CH 208 | E8, R9 |
| CH 09 / CH 209 | E9, ITALIE G |
| CH 10 / CH 210 | E10, ITALIEN H, R10 |
| CH 11 / CH 211 | E11, ITALIEN H+1, R11 |
| CH 12 / CH 212 | E12, ITALIEN H+2, R12 |
| CH 21 / CH 221 | E21, R21 |
| CH 22 / CH 222 | E22, R22 |
| CH 23 / CH 223 | E23, R23 |
| CH 24 / CH 224 | E24, R24 |
| CH 25 / CH 225 | E25, R25 |
| CH 26 / CH 226 | E26, R26 |
| CH 27 / CH 227 | E27, R27 |
| CH 28 / CH 228 | E28, R28 |
| CH 29 / CH 229 | E29, R29 |
| CH 30 / CH 230 | E30, R30 |
| CH 31 / CH 231 | E31, R31 |
| CH 32 / CH 232 | E32, R32 |
| CH 33 / CH 233 | E33, R33 |
| CH 34 / CH 234 | E34, R34 |
| CH 35 / CH 235 | E35, R35 |
| CH 36 / CH 236 | E36, R36 |
| CH 37 / CH 237 | E37, R37 |
| CH 38 / CH 238 | E38, R38 |
| CH 39 / CH 239 | E39, R39 |

| CH | Kanal |
|---|---|
| CH 40 / CH 240 | E40, R40 |
| CH 41 / CH 241 | E41, R41 |
| CH 42 / CH 242 | E42, R42 |
| CH 43 / CH 243 | E43, R43 |
| CH 44 / CH 244 | E44, R44 |
| CH 45 / CH 245 | E45, R45 |
| CH 46 / CH 246 | E46, R46 |
| CH 47 / CH 247 | E47, R47 |
| CH 48 / CH 248 | E48, R48 |
| CH 49 / CH 249 | E49, R49 |
| CH 50 / CH 250 | E50, R50 |
| CH 51 / CH 251 | E51, R51 |
| CH 52 / CH 252 | E52, R52 |
| CH 53 / CH 253 | E53, R53 |
| CH 54 / CH 254 | E54, R54 |
| CH 55 / CH 255 | E55, R55 |
| CH 56 / CH 256 | E56, R56 |
| CH 57 / CH 257 | E57, R57 |
| CH 58 / CH 258 | E58, R58 |
| CH 59 / CH 259 | E59, R59 |
| CH 60 / CH 260 | E60, R60 |
| CH 61 / CH 261 | E61, R61 |
| CH 62 / CH 262 | E62, R62 |
| CH 63 / CH 263 | E63, R63 |
| CH 64 / CH 264 | E64, R64 |
| CH 65 / CH 265 | E65, R65 |
| CH 66 / CH 266 | E66, R66 |
| CH 67 / CH 267 | E67, R67 |
| CH 68 / CH 268 | E68, R68 |
| CH 69 / CH 269 | E69, R69 |

| CC | Kanal |
|---|---|
| CC 01 / CC 201 | S1 |
| CC 02 / CC 202 | S2 |
| CC 03 / CC 203 | S3 |
| CC 04 / CC 204 | S4 |
| CC 05 / CC 205 | S5 |
| CC 06 / CC 206 | S6 |
| CC 07 / CC 207 | S7 |
| CC 08 / CC 208 | S8 |
| CC 09 / CC 209 | S9 |
| CC 10 / CC 210 | S10 |
| CC 11 / CC 211 | S11 |
| CC 12 / CC 212 | S12 |
| CC 13 / CC 213 | S13 |
| CC 14 / CC 214 | S14 |
| CC 15 / CC 215 | S15 |
| CC 16 / CC 216 | S16 |
| CC 17 / CC 217 | S17 |
| CC 18 / CC 218 | S18 |
| CC 19 / CC 219 | S19 |
| CC 20 / CC 220 | S20 |
| CC 21 / CC 221 | S21 |
| CC 22 / CC 222 | S22 |
| CC 23 / CC 223 | S23 |
| CC 24 / CC 224 | S24 |
| CC 25 / CC 225 | S25 |
| CC 26 / CC 226 | S26 |
| CC 27 / CC 227 | S27 |
| CC 28 / CC 228 | S28 |
| CC 29 / CC 229 | S29 |
| CC 30 / CC 230 | S30 |

| CC | Kanal |
|---|---|
| CC 31 / CC 231 | S31 |
| CC 32 / CC 232 | S32 |
| CC 33 / CC 233 | S33 |
| CC 34 / CC 234 | S34 |
| CC 35 / CC 235 | S35 |
| CC 36 / CC 236 | S36 |
| CC 37 / CC 237 | S37 |
| CC 38 / CC 238 | S38 |
| CC 39 / CC 239 | S39 |
| CC 40 / CC 240 | S40 |
| CC 41 / CC 241 | S41 |
| CC 75 / CC 275 | X |
| CC 76 / CC 276 | Y, R3 |
| CC 77 / CC 277 | Z, ITALIEN C, R4 |
| CC 78 / CC 278 | Z+1, R5 |
| CC 79 / CC 279 | Z+2 |

| CH | Kanal |
|---|---|
| CH 102 | F2 |
| CH 103 | F3 |
| CH 104 | F4 |
| CH 105 | F5 |
| CH 106 | F6 |
| CH 107 | F7 |
| CH 108 | F8 |
| CH 109 | F9 |
| CH 110 | F10 |
| CH 121 | F21 |
| CH 122 | F22 |
| CH 123 | F23 |
| CH 124 | F24 |
| CH 125 | F25 |
| CH 126 | F26 |
| CH 127 | F27 |
| CH 128 | F28 |
| CH 129 | F29 |
| CH 130 | F30 |
| CH 131 | F31 |
| CH 132 | F32 |
| CH 133 | F33 |
| CH 134 | F34 |
| CH 135 | F35 |
| CH 136 | F36 |
| CH 137 | F37 |
| CH 138 | F38 |
| CH 139 | F39 |
| CH 140 | F40 |

| CH | Kanal |
|---|---|
| CH 141 | F41 |
| CH 142 | F42 |
| CH 143 | F43 |
| CH 144 | F44 |
| CH 145 | F45 |
| CH 146 | F46 |
| CH 147 | F47 |
| CH 148 | F48 |
| CH 149 | F49 |
| CH 150 | F50 |
| CH 151 | F51 |
| CH 152 | F52 |
| CH 153 | F53 |
| CH 154 | F54 |
| CH 155 | F55 |
| CH 156 | F56 |
| CH 157 | F57 |
| CH 158 | F58 |
| CH 159 | F59 |
| CH 160 | F60 |
| CH 161 | F61 |
| CH 162 | F62 |
| CH 163 | F63 |
| CH 164 | F64 |
| CH 165 | F65 |
| CH 166 | F66 |
| CH 167 | F67 |
| CH 168 | F68 |
| CH 169 | F69 |

| CC | Frequenz (MHz) |
|---|---|
| CC 110 | 116 - 124 |
| CC 111 | 124 - 132 |
| CC 112 | 132 - 140 |
| CC 113 | 140 - 148 |
| CC 114 | 148 - 156 |
| CC 115 | 156 - 164 |
| CC 116 | 164 - 172 |
| CC 123 | 220 - 228 |
| CC 124 | 228 - 236 |
| CC 125 | 236 - 244 |
| CC 126 | 244 - 252 |
| CC 127 | 252 - 260 |
| CC 128 | 260 - 268 |
| CC 129 | 268 - 276 |
| CC 130 | 276 - 284 |
| CC 131 | 284 - 292 |
| CC 132 | 292 - 300 |
| CC 133 | 300 - 306 |
| CC 141 | 306 - 311 |
| CC 142 | 311 - 319 |
| CC 143 | 319 - 327 |
| CC 144 | 327 - 335 |
| CC 145 | 335 - 343 |
| CC 146 | 343 - 351 |
| CC 147 | 351 - 359 |
| CC 148 | 359 - 367 |
| CC 149 | 367 - 375 |
| CC 150 | 375 - 383 |
| CC 151 | 383 - 391 |

| CC | Frequenz (MHz) |
|---|---|
| CC 152 | 391 - 399 |
| CC 153 | 399 - 407 |
| CC 154 | 407 - 415 |
| CC 155 | 415 - 423 |
| CC 156 | 423 - 431 |
| CC 157 | 431 - 439 |
| CC 158 | 439 - 447 |
| CC 159 | 447 - 455 |
| CC 160 | 455 - 463 |
| CC 161 | 463 - 469 |

- Wenn zwei CH/CC-Nummern ein und derselben Kanalnummer entsprechen, wählen Sie in Übereinstimmung mit der aktuellen Einstellung unter LAND eine der beiden Nummern. Wenn die Einstellung LAND nicht FRANCE ist, benutzen Sie eine dreistellige CH/CC-Nummer. Wenn LAND auf FRANCE steht, benutzen Sie eine dreistellige CH/CC-Nummer.
- Finden Sie die CH/CC-Nummer (CC110 bis CC161), die dem Fernsehkanal (SECAM-L-System) eines französischen Kabelsenders entspricht, auf Grundlage der Sendefrequenz des Fernsehkanals. Wenn Sie die Sendefrequenz nicht kennen, wenden Sie sich bitte an den Kabelsender.
- Die CH/CC-Nummern von CH102-CH169 und CC110-CC161 entsprechen den Fernsehkanälen, die im SECAM-L-System gesendet werden. Die anderen CH/CC-Nummern entsprechen den Fernsehkanälen, die im SECAM-L-System gesendet werden.

# Problemlösungen

Wenn bei der Benutzung Ihres Fernsehgerätes ein Problem auftreten sollte, lesen Sie bitte sorgfältig diese “Problemlösungen” durch, bevor Sie das Gerät in Reparatur geben. Eventuell können Sie das Problem leicht selbst beheben. Wenn z. B. der Netzstecker nicht in der Steckdose steckt, oder, wenn es Probleme mit der Empfangsantenne gibt, könnten Sie irrtümlicherweise annehmen, dass der Fernseher defekt ist.

**Wichtig:**

- Diese Hinweise zu Problemlösungen gelten nur für Probleme, deren Gründe nicht leicht zu bestimmen sind. Wenn bei der Bedienung einer Funktion eine Frage auftaucht, lesen Sie die entsprechenden Seiten mit den Bedienungsschritten sorgfältig nach; diese Beschreibungen finden Sie nicht hier unter den Problemlösungen.
- Wenn Sie die hier und bei den Funktionsbeschreibungen gegebenen Abschnitte ohne Erfolg durchgelesen und nachvollzogen haben, ziehen Sie den Netzstecker aus der Steckdose und lassen Sie Ihr Gerät reparieren. Versuchen Sie nicht, das Gerät selbst zu reparieren, und entfernen Sie keinesfalls die hintere Abdeckung.

## ■ Wenn Sie Ihr Fernsehgerät nicht einschalten können

- Sind die Netzstecker der Netzkabel von Fernseher und Empfänger in zwei geeignete Netzsteckdosen gesteckt?
- Achten Sie darauf, den VCR/TV/DVD-Schalter in die Position TV zu stellen. Sie können das Fernsehgerät nicht einschalten, wenn der VCR/TV/DVD-Schalter in Position VCR oder DVD steht.

## ■ Wenn Sie Ihr Fernsehgerät nicht ausschalten können

- Achten Sie darauf, den VCR/TV/DVD-Schalter in die Position TV zu stellen. Sie können das Fernsehgerät nicht ausschalten, wenn der VCR/TV/DVD-Schalter in Position VCR oder DVD steht.

## ■ Kein Bild/kein Ton

- Haben Sie einen Fernsehkanal gewählt, für den der Empfang extrem schlecht ist? In diesem Fall schaltet sich die Funktion BLAU-BILD ein, der Bildschirm wird blau, und der Ton wird stummgeschaltet. Wenn Sie den Kanal trotz des schlechten Empfangs sehen möchten, folgen Sie den Schritten unter “BLAU-BILD” auf Seite 29, um die Einstellung der Funktion BLAU-BILD zu AUS zu ändern.
- Haben Sie die Funktion LAUTSPRECHER auf AUS gestellt? Befolgen Sie die Beschreibungen unter “LAUTSPRECHER” auf Seite 25, um die Einstellung der LAUTSPRECHER-Funktion abzulesen und das Problem ggf. lösen zu können.
- Wenn die Einstellung SYSTEM bei einem Fernsehkanal nicht richtig ist, kann es passieren, dass der Ton für diesen Kanal nicht ausgegeben wird. Folgen Sie den Beschreibungen unter “SENDER ORDNEN/ MANUELL” auf Seite 32 zum Aufruf der MANUELL-Funktion, um die Einstellung SYSTEM zu ändern.

## ■ Schlechtes Bild

- Wenn Bildrauschen (Schnee) das Bild stark beeinträchtigt, gibt es ein Problem mit der Antenne oder dem Zuleitungskabel. Prüfen Sie folgende Dinge, um dieses Problem zu beseitigen:
  Sind Fernsehgerät und Antenne richtig miteinander verbunden?
  Wurde das Antennenkabel beschädigt?
  Ist die Antenne richtig ausgerichtet?
  Ist die Antenne selbst eventuell defekt?
- Wenn der Fernseher bzw. die Antenne Störungen von anderen Geräten empfängt, können Streifen oder Bildrauschen im Fernsehbild auftreten. Benutzen Sie Geräte wie Verstärker, Computer, Geräte mit Elektromotoren (Föhn) in größerem Abstand zu Ihrem Fernseher oder an anderen Aufstellorten. Wenn die Antenne Störungen von einem Sendeturm oder einer Hochspannungsleitung empfängt, wenden Sie sich bitte an Ihren örtlichen Händler.
- Wenn die Antenne Reflektionen von Signalen an Berg- oder Hauswänden empfängt, können Doppelbilder (Geisterbild) entstehen. Ändern Sie in diesem Fall die Ausrichtung der Antenne, ooder ersetzen Sie die Antenne gegen eine andere mit besserer Richtwirkung.
- Sind die Einstellungen der Fernsehkanäle bei EMPFANGSSYSTEM korrekt? Folgen Sie den Beschreibungen unter “EMPFANGSSYSTEM” auf Seite 23, um das Problem zu beseitigen.
- Wurde FARBE oder HELLIGKEIT richtig eingestellt? Folgen Sie den Beschreibungen unter “Bildeinstellung” auf Seite 21, um das Problem zu beseitigen.
- Die Aufnahme von Videotext auf Videoband wird nicht empfohlen, da dieses Signal eventuell nicht richtig aufgezeichnet wird.
- Beim Ansehen von Bildern von kommerziell erhältlicher Videosoftware oder von nicht korrekt aufgenommenen Videobändern kann der obere Teil des Bildes verzerrt sein. Dies ist durch den Zustand des Videosignals bedingt und ist keine Fehlfunktion.

## ■ Schlechter Klang

- Haben Sie die Werte für TIEFEN oder HÖHEN richtig eingestellt? Wenn nicht, folgen Sie den Beschreibungen unter “Toneinstellungen” auf Seite 25, um das Problem zu beseitigen.
- Bei schlechtem Fernsehempfang leidet auch die Übertragung stereophoner oder zweikanaliger Tonsignale. Folgen Sie in diesem Fall den unter “STEREO / I • II” auf Seite 25 angegebenen Schritten, um de Tonwiedergabe durch Umschaltung auf Mono zu verbessern.

## ■ Keine Bedienung möglich

- Sind die Batterien der Fernbedienung eventuell erschöpft? Folgen Sie den Schritten unter “Einsetzen der Batterien in die Fernbedienung” auf Seite 6 und ersetzen Sie die Batterien durch neue oder aufgeladene, um das Problem zu beseitigen.
- Haben Sie versucht, den Fernseher mit der Fernbedienung aus seitlicher Richtung oder von hinten zu bedienen, oder waren Sie weiter als sieben Meter vom Gerät entfernt? Bedienen Sie Ihr Fernsehgerät von der Vorderseite aus, und achten Sie dabei darauf, dass Sie sich nicht weiter als sieben Meter vom Gerät entfernt befinden.
- Wenn Sie Videotext sehen, können Sie die Menüs nicht bedienen. Drücken Sie die Taste ***TV***, um zurück auf normalen Fernsehbetrieb zu schalten, so dass Sie die Menüs wieder bedienen können.
- Wenn der Fernseher plötzlich nicht mehr reagiert, ziehen Sie das Fernseher- und Empfänger-Netzkabel aus der Netzsteckdose. Stecken Sie die Netzkabel wieder ein und schalten Sie das Fernsehgerät ein. Wenn sich das Gerät nun wieder normal verhält, liegt keine Fehlfunktion vor.

## ■ Verschiedenes

- Wenn die Funktion SLEEP TIMER aktiv ist, schaltet sich das Gerät automatisch aus. Wenn dies passiert, drücken Sie die Taste ⏻/I (Standby), um den Fernseher wieder einzuschalten. Wenn sich das Gerät nun wieder normal verhält, liegt keine Fehlfunktion vor.
- Wenn ein WSS-Signal im Sendesignal oder ein Signal vom externen Gerät enthalten ist, oder wenn das Fernsehgerät ein Steuersignal von einem externen Gerät erhält, wird der ZOOM-Modus automatisch umgestellt. Wenn Sie in den vorherigen ZOOM-Modus zurückschalten möchten, drücken Sie die Taste **ZOOM** zum erneuten Anwählen des ZOOM-Modus.
- Es dauert eine kurze Zeit von der Durchführung einer Bedienung, z.B. ein Kanalwechsel, bis zur Bildanzeige. Dies ist keine Fehlfunktion. Diese Zeit ist zur Stabilisierung des Bildes erforderlich, bevor das Bild angezeigt werden kann.
- Durch Temperaturänderungen kann es sein, dass Ihr Fernsehgerät ein Knacken erzeugt. Wenn Bild und Ton nach einem lauten Knacken weiterhin normal sind, ist dies kein Grund zur Beunruhigung. Wenn Sie bei der Benutzung Ihres Fernsehers des öfteren Knackgeräusche hören, können auch andere Gründe angenommen werden. Als Vorsichtsmaßnahme sollten Sie sich an einen Techniker wenden, der dieses Phänomen begutachtet.
- Im Zwillingsbild-Modus kann das Nebenbild verschwinden, wenn das externe Gerät bedient wird. Drücken Sie in diesem Fall erneut die Taste ◑, so dass das Nebenbild wieder angezeigt wird.
- Die Kopfhörerlautstärke wird im Menü “KOPFHÖRER” eingestellt. Sie kann nicht mit den Tasten ◿ (Lautstärke) −/+ eingestellt werden.
- Wenn TV LAUTSPRECHER im Menü “KOPFHÖRER” EIN steht (eingeschaltet), wird der Ton von den Fernsehlautsprechern ausgegeben, auch wenn Kopfhörer angeschlossen werden. Wenn die Fernsehlautsprecher kein Tonsignal ausgeben sollen, schalten Sie diese Einstellung AUS.
- Auch bei deaktivierter PIXEL-ROTATION-Funktion kann sich das Bild beim Wechseln des Eingangs oder Kanals nach links oder rechts verschieben. Dies ist keine Fehlfunktion, sondern dadurch wird ein Einbrennen des Textes verhindert.

# Technische Daten

| Eintrag \ Modell | PD-42V31BUE/PD-42V31BJE/PD-42V31BSE | |
|---|---|---|
| Sendesysteme | CCIR B/G, I, D/K, L | |
| Fernsehnormen | PAL, SECAM<br>• Die Anschlüsse EXT unterstützen auch das NTSC 3.58/4.43 MHz-System. | |
| Kanäle und Frequenzen | • E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2, ITALIEN A-H, ITALIEN H+1, ITALIEN H+2, F2-F10, F21-F69, R1-R12, R21-R69<br>• Französischer Kabelkanal der Sendefrequenzen 116 - 172 MHz und 220 - 469 MHz | |
| Tonsysteme im Multiplex-Verfahren | A2 (B/G, D/K), NICAM (B/G, I, D/K, L)-System | |
| Videotextsysteme | FLOF (Fastext), TOP, WST (Welt-Standardsystem) | |
| Netzstromdaten | 110 - 240 V Wechselstrom, 50/60 Hz | |
| Leistungsaufnahme | Fernsehgerät:<br>338 W, Standby: 1,5 W | |
| | Empfänger:<br>30 W, Standby: 2,4 W | |
| Bildschirmgröße | Sichtbarer Bereich 107,5 cm (Bildschirmdiagonale) | |
| Tonausgabe | Nominelle Ausgangsleistung: 18 W + 18 W | |
| Lautsprecher | (3 cm × 10 cm) oval × 2<br>(6,5 cm × 13 cm) oval × 2 | |
| EXT-1-Anschluss | Eurobuchse (21-Pol-SCART-Buchse)<br>• Video-Eingang, Audioeingänge L/R und RGB-Eingänge sind vorhanden.<br>• Ausgänge für das Fernsehsignal (Video und Audio L/R) sind vorhanden. | |
| EXT-2-Anschluss | Eurobuchse (21-Pol-SCART-Buchse)<br>• Video-Eingang, S-VIDEO (Y/C) -Eingang, Audioeingänge L/R und RGB-Eingänge sind vorhanden.<br>• Video- und Audioausgänge (L/R) sind vorhanden.<br>• T-V LINK-Funktionen sind vorhanden. | |
| EXT-3-Anschluss | Eurobuchse (21-Pol-SCART-Buchse)<br>• Video-Eingang, S-VIDEO (Y/C) -Eingang und Audioeingänge L/R sind vorhanden. | |
| EXT-4-Anschluss | Cinch-Buchsen × 5<br>• Eingänge für Composite Video (Pr, Pb, Y) und Audio L/R sind vorhanden.<br>• progressive-scanning-Signale (625p oder 525p) sind verfügbar. | |
| EXT-5-Anschluss | Cinch-Buchsen × 3<br>S-VIDEO Anschluss × 1<br>• Video-Eingang, S-VIDEO (Y/C) -Eingang und Audioeingänge L/R sind vorhanden. | |
| AUDIO OUT-Anschluss | Cinch-Buchsen × 2<br>• Audio-Ausgänge L/R sind vorhanden. | |
| Kopfhörerbuchse | Stereo-Miniklinke (3,5 mm Durchmesser) | |
| Abmessungen (B × H × T) | TV: | 1160 mm × 731 mm × 98 mm (nur TV) |
| | Empfänger: | 435 mm × 99 mm × 382 mm |
| Gewicht | TV: | 38 kg (nur TV) |
| | Empfänger: | 5,3 kg |
| Zubehör | Lesen Sie “Paketinhalt prüfen” auf Seite 5. | |

**Das Design und die Technischen Daten können sich ohne Ankündigung ändern.**

Die Bilder, die mit Hilfe der Funktionen ZOOM auf diesem Fernsehgerät dargestellt werden, dürfen ohne Erlaubnis der Urheber des Originalbildmaterials nicht für gewerbliche oder Demonstrationszwecke an öffentlichen Orten (Cafes, Hotels usw.) gezeigt werden, da dies eine Verletzung des Urheberrechts darstellt.

JVC
VICTOR COMPANY OF JAPAN, LIMITED

Merci d'avoir fait l'acquisition de ce téléviseur couleurs JVC.
Pour être certain que vous comprenez comment utiliser votre nouveau téléviseur, nous vous conseillons de lire attentivement le présent manuel avant de commencer.

**AVERTISSEMENT: POUR EVITER TOUT RISQUE D'INCENDIE OU DE CHOC ELECTRIQUE, N'EXPOSEZ JAMAIS CET APPAREIL A LA PLUIE OU A L'HUMIDITE.**

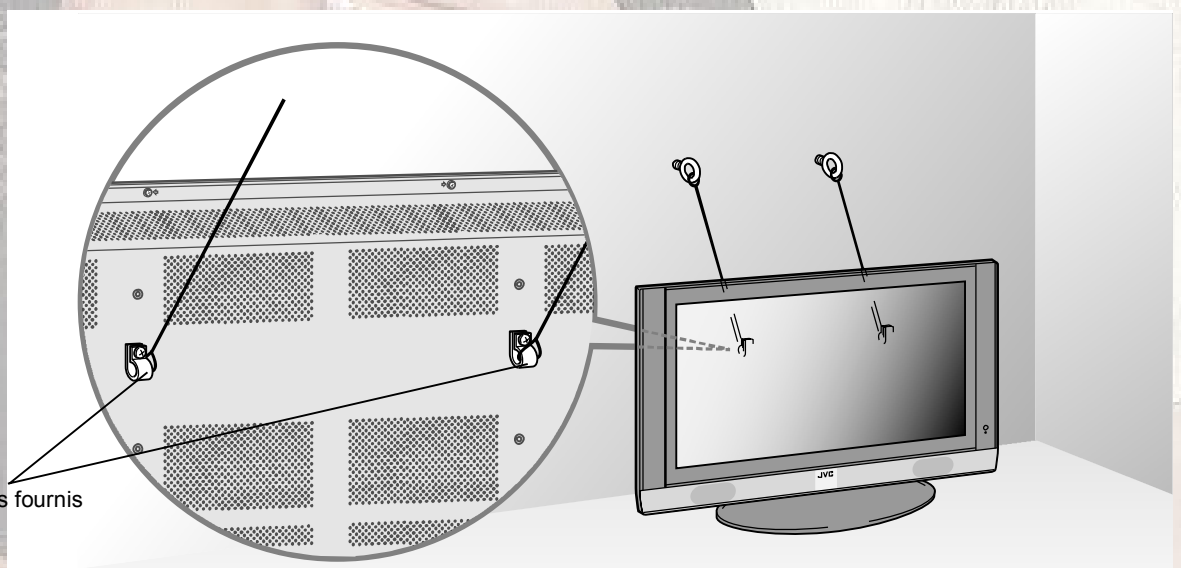
## AVERTISSEMENT

Utilisez toujours les cordons d'alimentation livrés avec le téléviseur et le récepteur.
Le présent téléviseur est livré avec plusieurs cordons d'alimentation. Utilisez celui qui convient le mieux pour votre région et insérez correctement la fiche dans une prise avec de terre.
L'utilisation d'un autre cordon que celui fourni ou le raccordement à une prise incorrectement reliée à la terre peuvent être à l'origine de chocs électriques.

## AVERTISSEMENT POUR SUPPORT DE TABLE:

Pour assurer la sécurité en cas d'urgence, par exemple pendant un tremblement de terre, et pour éviter tout risque d'accident, veillez à ce que le téléviseur ne puisse tomber ou se renverser.

- Utilisez les vis fournies pour fixer solidement les crochets situés à l'arrière du téléviseur et utilisez une corde du commerce pour fixer le téléviseur à des éléments de support rigides tels que murs et colonnes.

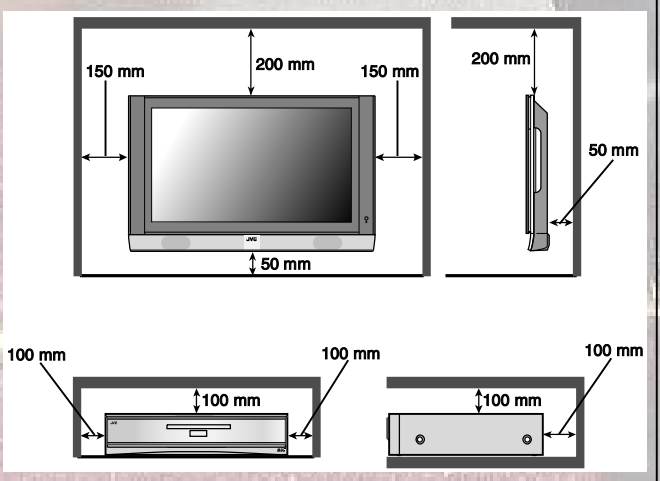



## ATTENTION:

- Ne raccordez les appareils qu'à la source d'alimentation spécifiée (CA 110 – 240 V, 50/60 Hz) sur chacun d'eux.
- Evitez d'endommager la fiche secteur et le cordon d'alimentation.
- Si vous ne comptez pas utiliser l'appareil pendant un certain temps, il est recommandé de débrancher le cordon d'alimentation de la prise secteur.
- La température ambiante pour l'utilisation de cet appareil doit être comprise entre 0° et 40°C (32° et 104°F). L'utilisation de l'appareil en dehors de cette plage peut provoquer de mauvais fonctionnements, voire des pannes.

## Distances recommandées

Evitez toute installation inadéquate de l'appareil et ne le placez jamais dans des endroits où la ventilation est insuffisante.
Lors de l'installation de ce téléviseur, respectez toujours les distances recommandées entre l'appareil et le mur ainsi que les distances conseillées en cas d'installation dans une petite pièce ou dans un meuble.
Respectez les indications de distances minimales pour assurer un fonctionnement en toute sécurité de l'appareil.




FRANÇAIS

## Rémanence

Une des caractéristique des écrans plasma (PDP) est que l'affichage prolongé d'une même image grave une partie de cette image à l'écran (c'est ce que l'on appelle la rémanence).

## Pour éviter la rémanence:

■ **Utilisez la fonction DECALAGE D'IMAGE. Afin d'éviter la rémanence, l'image affichée à l'écran se déplace vers le haut, le bas, la gauche et la droite à intervalles réguliers. Reportez-vous à la page page 30 pour plus de détails à ce sujet.**

- Même si la fonction DECALAGE D'IMAGE est désactivée, il se peut que l'image se déplace vers la gauche ou la droite lors d'un changement d'entrée ou de canal.

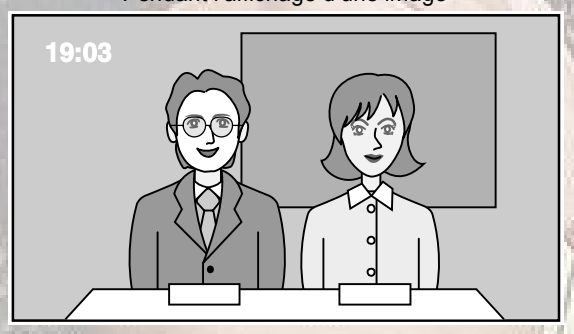
■ **La fonction MODE IMAGE est initialement définie sur LUMIERE. A moins que vous ne regardiez la télévision dans une pièce extrêmement éclairée, il est recommandé de modifier le réglage MODE IMAGE sur NORMAL ou DOUX. Cette modification réduit le risque de rémanence des écrans plats et augmente la durée de vie de cet écran. Voir "MODE IMAGE" à la page 21**

■ **N'affichez pas d'images ou de caractères statiques pour des périodes prolongées.**

Pendant l'affichage d'une image

Avec alimentation coupée

Exemple de rémanence



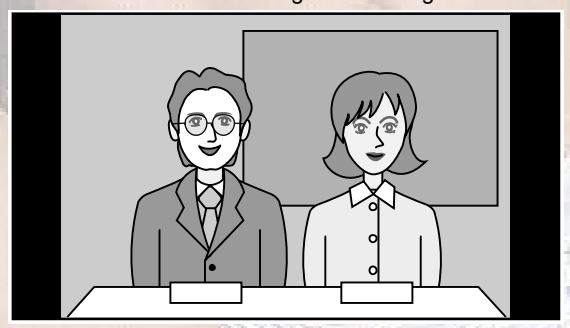
- Réduisez le CONTRASTE et la LUMIERE dans le menu REGLAGE IMAGE menu (page 21) pendant la visualisation.

■ **N'utilisez pas le mode NORMAL (page 15) pour des périodes prolongées.**
La taille de l'écran se choisit normalement de manière à afficher l'image sur la totalité de l'écran. Après avoir utilisé le mode NORMAL, dans lequel des bandes noires peuvent se présenter à gauche et à droite de l'écran, il est recommandé de passer en mode PANORAMIC pour afficher l'image sur la totalité de l'écran.

Pendant l'affichage d'une image

Avec alimentation coupée

Exemple de rémanence



■ **N'utilisez pas les fonctions PIP (page 16) ou IMAGES MULTIPLES (page 17) pour des périodes prolongées.**

## En cas de rémanence

S'il y a rémanence, essayez la fonction CREATEUR DE PIXELS (page 30). Si la rémanence est minime, elle peut s'atténuer progressivement.
**Note:Mais elle ne disparaîtra jamais entièrement.**

### Points défectueux

Les écrans au plasma font appel à des ensembles de points (pixels) fins pour afficher les images. Si plus de 99,99% de ces pixels ne présentent aucun problème, il faut savoir qu'il est possible qu'un nombre infime de pixels puisse ne pas s'allumer ou rester allumé en permanence.

### N'installez pas le téléviseur à proximité d'un équipement électronique susceptible de produire des ondes électromagnétiques

Il pourrait générer des interférences dans les images, le son, etc. En particulier, éloignez tout matériel vidéo du téléviseur.

### Effet sur les appareils à infrarouge

L'utilisation d'appareils à infrarouge tels qu'un casque d'écoute sans fil risque de produire des interférences.

### Le non-respect des précautions suivantes peut être source d'endommagement du téléviseur ou de la télécommande.

**N'obstruez JAMAIS les ouvertures ou orifices d'aération du téléviseur.**
(Si ces ouvertures ou orifices de ventilation sont obstrués par des journaux ou des vêtements, etc., la chaleur risque de ne pas pouvoir s'échapper.)
**NE placez JAMAIS rien sur le téléviseur.**
(par ex. des produits cosmétiques, des médicaments, des vases, des pots de fleurs, des tasses, etc.)
**NE laissez JAMAIS pénétrer de corps étrangers ou de liquides par les ouvertures du boîtier.**
(La pénétration d'eau ou de liquides dans l'appareil risquer de provoquer un incendie ou un choc électrique.)
**NE placez JAMAIS aucune source de flamme vive, par exemple des bougies allumées, sur le téléviseur.**

La surface de l'écran du téléviseur s'abîme facilement. Faites très attention en manipulant le téléviseur.
Si l'écran est sale, essuyez-le à l'aide d'un chiffon doux et sec. Ne le frottez jamais avec force.
N'utilisez jamais de produit de nettoyage ou de détergent.

En cas de panne, débranchez l'appareil et appelez un technicien qualifié. N'essayez jamais de réparer vous-même ni de retirer la protection arrière.

---

**Démonstration D.I.S.T.**

Pour démarrer la démonstration D.I.S.T.:
Appuyez sur la touche **OK** pour afficher le MENU (menu principal). Appuyez ensuite sur la touche jaune.
Une image divisée en deux (D.I.S.T. activé et D.I.S.T. désactivé) s'affiche à l'écran.

Pour quitter la démonstration D.I.S.T.:
Appuyez sur la touche jaune, sur la touche ***TV***, sur les touches P ∨/∧ ou sur n'importe quelle touche numérique.

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# TABLE DES MATIERES


**Vérification du contenu des conditionnements ..... 5**

**Installation du téléviseur ..... 6**

Installation ..... 6
Mise en place des piles dans la télécommande ..... 6

**Raccordements ..... 7**

Schéma de raccordement ..... 7
Raccordement du téléviseur et du récepteur ..... 8
Raccordement de l'antenne et du magnétoscope ..... 8
Raccordement des cordons d'alimentation aux prises secteur ..... 9

**Réglages initiaux ..... 10**

FONCTIONS T-V LINK ..... 11

**Touches et fonctions du téléviseur .... 12**

Mise en fonction de l'appareil à partir du mode de veille ..... 12
Sélection d'un canal TV ..... 12
Visualisation d'images provenant d'appareils externes ..... 12
Réglage du volume ..... 12
Utilisation du casque d'écoute ..... 12
Utilisation du menu ..... 12

**Touches de la télécommande et leurs fonctions ..... 13**

Mise en et hors service de l'appareil à partir du mode de veille ..... 13
Sélection d'un canal TV ..... 13
Réglage du volume ..... 14
Visualisation d'images provenant d'appareils externes ..... 14
Fonction ZOOM ..... 15
Fonction SON 3D ..... 15
Affichage de l'heure ..... 16
Retour instantané à un canal TV ..... 16
Utilisation de la fonction ARRET IMAGE ..... 16
Utilisation de la fonction PIP ..... 16
Utilisation de la fonction IMAGES MULTIPLES ..... 17
Utilisation d'un VCR ou d'un lecteur DVD de marque JVC ..... 17

**Fonction télétexte ..... 18**

Fonctionnement de base ..... 18
Utilisation du mode Liste ..... 18
Conserver l'affichage ..... 18
Page secondaire ..... 19
Révéler ..... 19
Taille ..... 19
Index ..... 19
Annulation ..... 19

**Utilisation du menu du téléviseur ..... 20**

Fonctionnement de base ..... 20

**REGLAGE IMAGE ..... 21**

MODE IMAGE ..... 21
Réglage de l'image ..... 21
TEINTE ..... 21

**OPTIONS IMAGE ..... 22**

REDUC. BRUIT NUM. ..... 22
Super DigiPure ..... 22
SYSTEME COULEUR ..... 23
EFFET CINEMA ..... 23
ZOOM AUTO 4:3 ..... 23
COLOUR MANAGEMENT ..... 23
PIP ..... 24

**REGLAGE AUDIO ..... 25**

STEREO / I • II ..... 25
Réglage du son ..... 25
HAUT PARLEUR ..... 25
BBE ..... 25
SON 3D ..... 25
A.H.B. (Accentuation des basses) ..... 25
CASQUE ..... 26

**EXT REGLAGES ..... 27**

S-IN (entrée S-VIDEO) ..... 27
LISTE NOMS ..... 27
COPIE ..... 27

**OPTIONS ..... 29**

SLEEP TIMER ..... 29
FOND BLEU ..... 29
VERROUILLAGE ..... 29
DECODEUR (EXT-2) ..... 30
CREATEUR DE PIXELS ..... 30
DECALAGE D'IMAGE ..... 30

**INSTALLATION ..... 31**

LANGAGE ..... 31
AUTO ..... 31
EDITER/MANUEL ..... 32

**Fonctions supplémentaires des menus ..... 35**

Utilisation de la fonction ACI ..... 35
Téléchargement de données vers un magnétoscope ..... 35
Modification du réglage PAYS ..... 36
Utilisation de la fonction DECODEUR (EXT-2) ..... 36

**Autres préparatifs ..... 37**

Raccordement des appareils externes ..... 37

**Numéros CH/CC ..... 39**

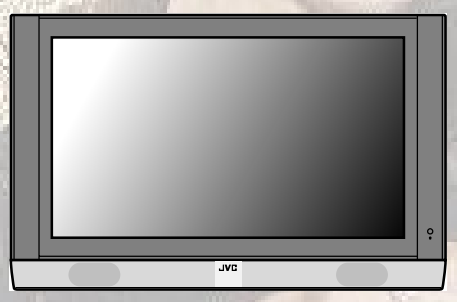
**Guide de dépannage ..... 40**

**Spécifications techniques ..... 42**

# Vérification du contenu des conditionnements

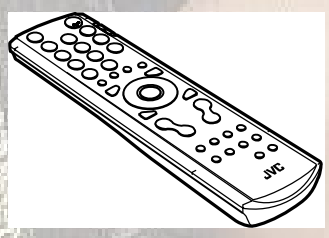
Vérifiez que tous les éléments sont bien présents. En cas d'absence d'un élément, veuillez prendre immédiatement contact avec votre distributeur.



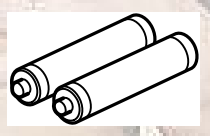


Téléviseur

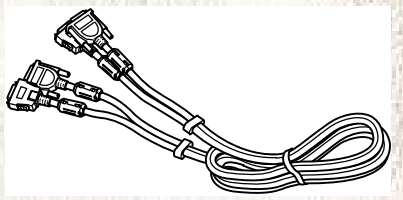
Récepteur



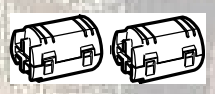
Télécommande



Piles AA/R6 (utilisées pour le contrôle du fonctionnement)

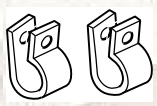


Câble système



Noyau en ferrite × 4

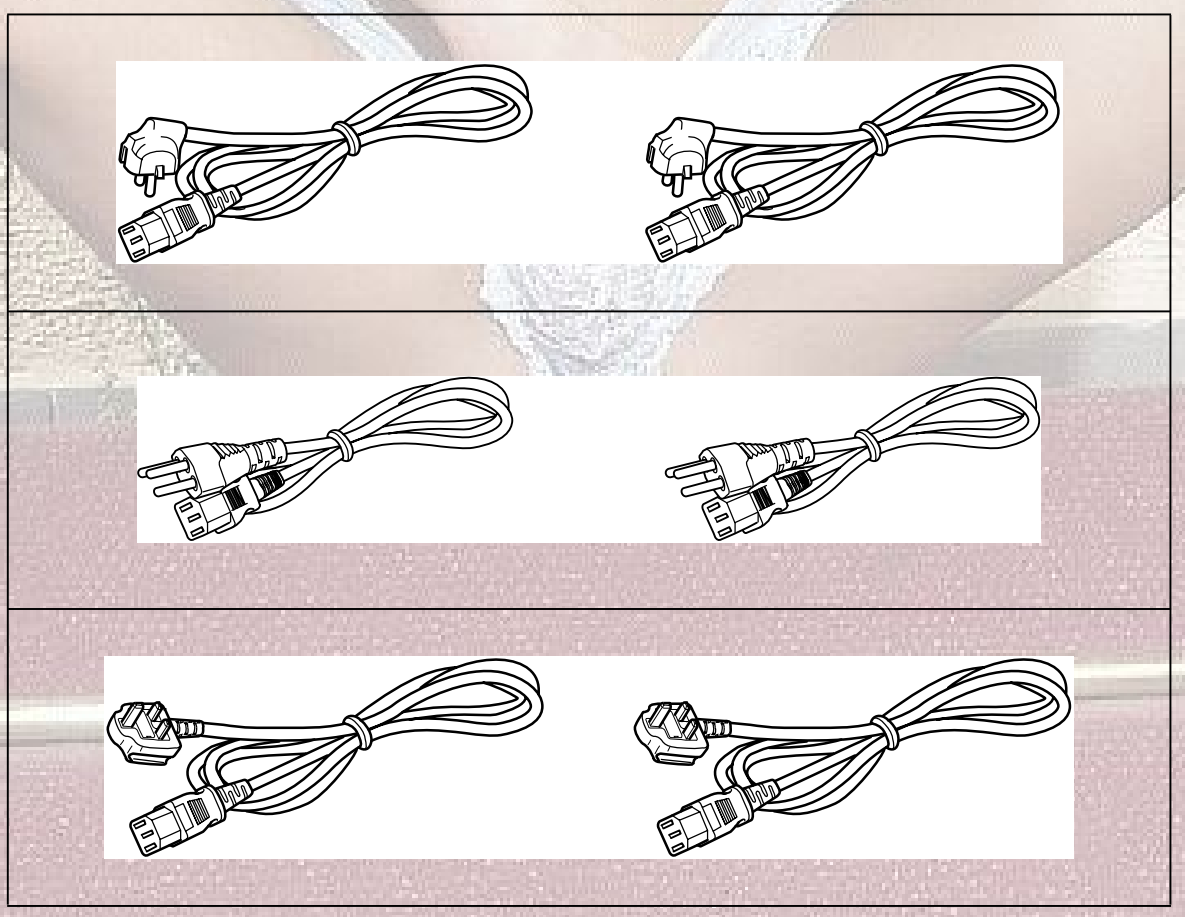
Vis de montage × 2



Crochet × 2

**Cordon d'alimentation**

- Le cordon d'alimentation le mieux adapté à votre région parmi ceux repris ci-dessous est fourni avec votre téléviseur.



- Certains modèles sont fournis avec des supports ou des dispositifs d'installation murale.

# Installation du téléviseur

**Prévoyez toujours plus de deux personnes pour soulever le téléviseur. Ne le soulevez pas tout seul ; le téléviseur est trop lourd et sa chute risque de provoquer des blessures et dommages.**

## Installation

■ **Selon le modèle, le téléviseur peut être fourni avec un dispositif d'installation murale ou un support de table. Dans ces cas, un manuel d'utilisation séparé est fourni en complément à ce manuel. Lisez ce manuel d'utilisation et installez le téléviseur correctement.**

- Pour les modèles fournis sans dispositif d'installation murale ou sans support de table, et lors de l'utilisation d'un autre dispositif pour installer votre téléviseur, n'utilisez que des dispositifs JVC conçus pour ce téléviseur.

### AVERTISSEMENT POUR LES DISPOSITIFS D'INSTALLATION MURALE:

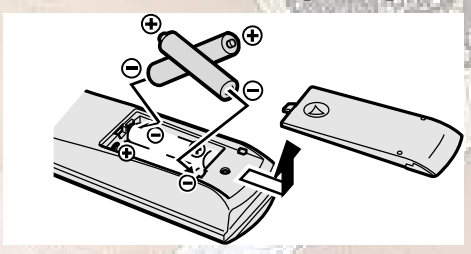
- Pour installer votre téléviseur sans risque, veuillez contacter des installateurs agréés. N'essayez pas d'installer votre téléviseur par vous-même.
- Nous vendons ce produit en partant du principe qu'il sera monté et installé par des installateurs spécialement formés et qualifiés pour ce type de travail.
- Lisez le manuel d'utilisation du dispositif d'installation murale avant de commencer l'installation afin d'éviter tout risque d'accident.
- Nous n'acceptons aucune responsabilité pour tout dommage causé par un assemblage incorrect, une fixation murale incorrecte, une fixation murale instable, une utilisation incorrecte, des modifications ou des désastres naturels.

**Précautions pour l'installation**

- Ne basculez pas le téléviseur vers la droite ou la gauche ni vers l'arrière.
- Installez le téléviseur dans un coin, sur le mur, ou sur le sol, de manière à ne pas laisser de câbles dans le passage.
- Le téléviseur dégage une faible quantité de chaleur pendant son fonctionnement. Veillez à laisser assez d'espace autour du téléviseur pour permettre un refroidissement suffisant. Voir "Distances recommandées" à la page 1.

## Mise en place des piles dans la télécommande

Utilisez deux piles sèches AA/R6.
Insérez les piles en commençant par l'extrémité ⊖ et en veillant à ce que les polarités ⊕ et ⊖ soient respectées.



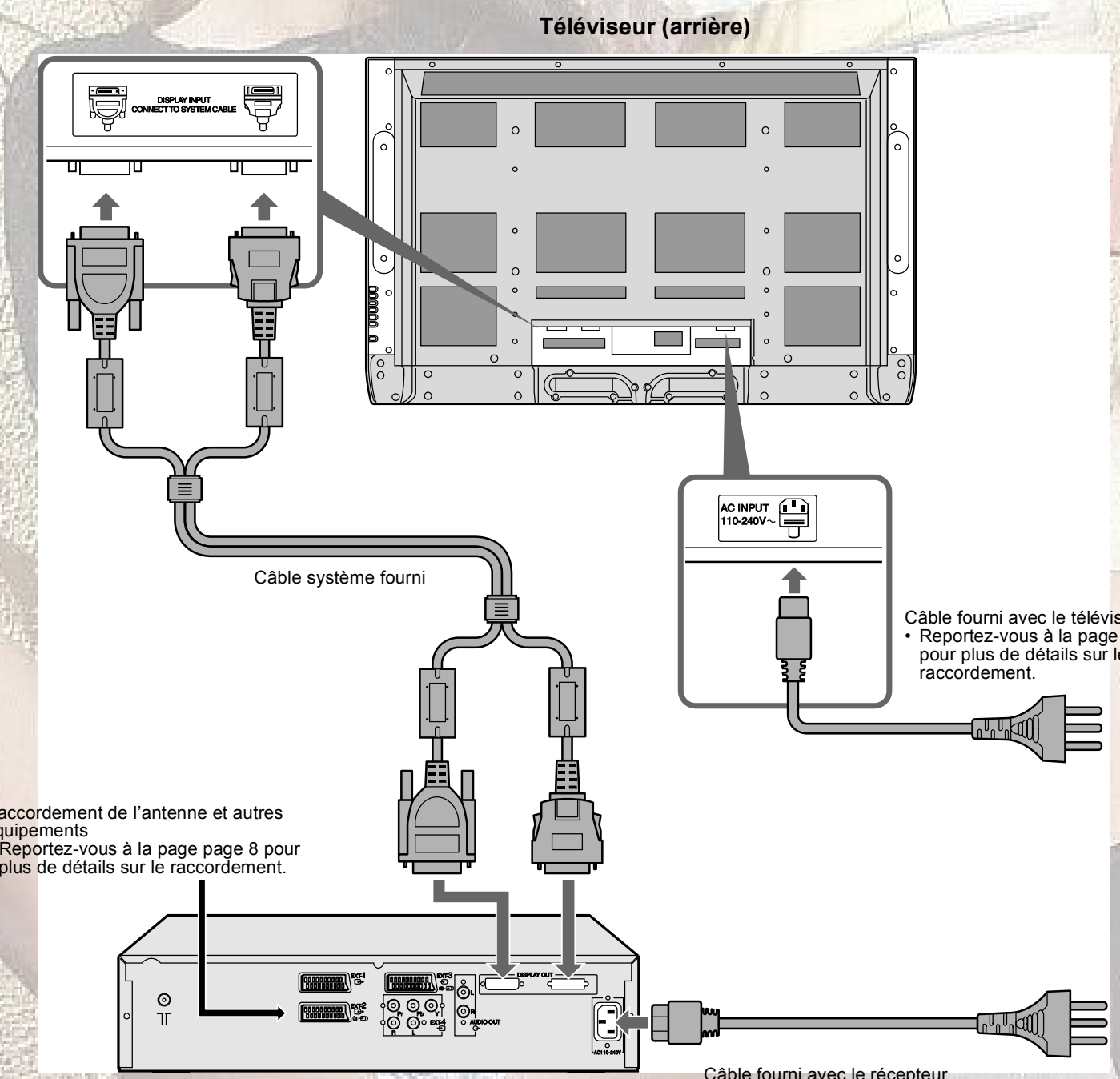
- Respectez les avertissements figurant sur les piles.
- La durée de vie des piles varie de six mois à un an, selon la fréquence d'utilisation.
- Les piles livrées servent uniquement à l'installation et au test de votre téléviseur. Elles doivent être remplacées dès que cela s'avère nécessaire.
- Si la télécommande ne fonctionne pas correctement, remplacez les piles.

# Raccordements

**Attention**

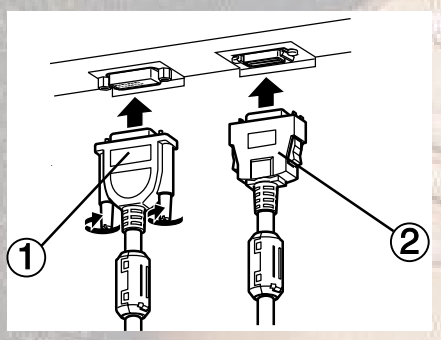
- Avant d'effectuer tout raccordement, mettez tous les équipements hors tension, y compris le téléviseur.

## Schéma de raccordement

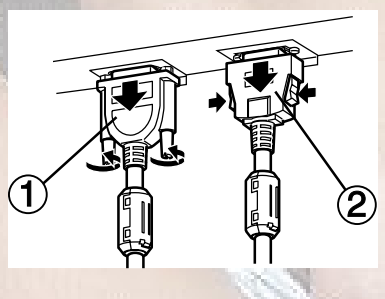


## Raccordement du téléviseur et du récepteur

Utilisez le câble système fourni pour raccorder le téléviseur au récepteur.
Les deux connecteurs ont une forme différente.
Vérifiez que les broches du connecteur ① sont correctement orientées, enfoncez le connecteur dans la prise et serrez les vis gauche et droite pour le fixer.
Enfoncez fermement le connecteur ② jusqu'à ce qu'il se verrouille.




**Débranchement du câble système**
Libérez le connecteur ① en dévissant les vis gauche et droite et en l'extrayant de la prise.
Libérez le connecteur ② en l'extrayant de la prise en appuyant sur les boutons de dégagement situés de chaque côté.




## Raccordement de l'antenne et du magnétoscope

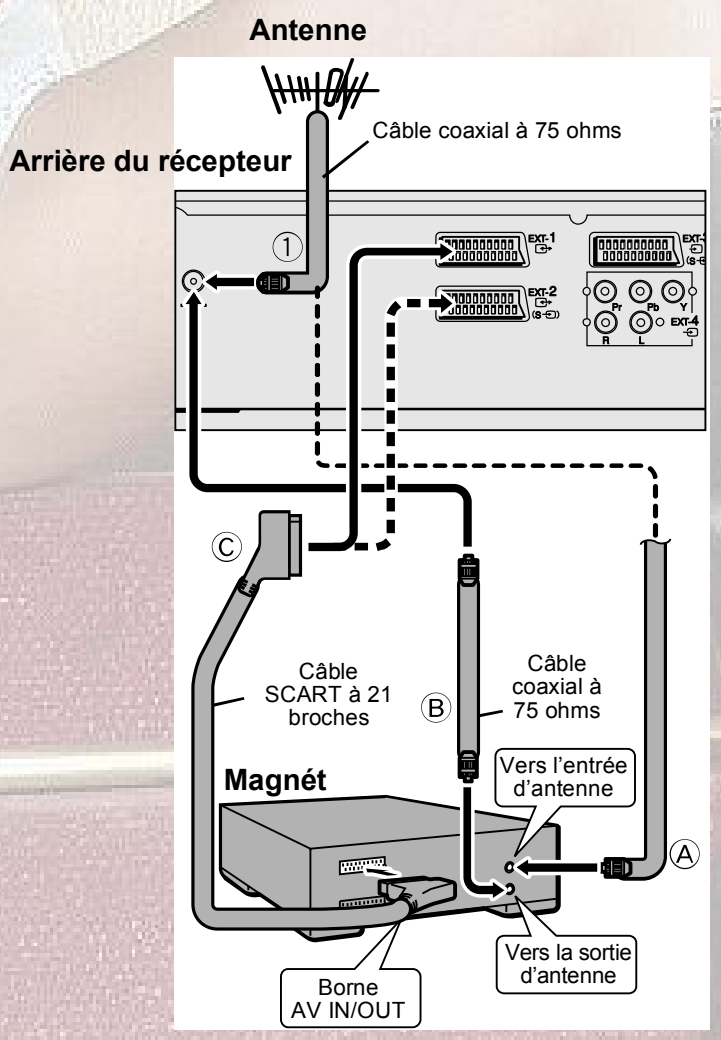
- Les câbles de connexion ne sont pas fournis.
- Pour plus de détails, consultez les manuels livrés avec les appareils à raccorder.

■ **En cas de raccordement d'un magnétoscope, suivez les points Ⓐ → Ⓑ → Ⓒ.**

■ **Si vous ne raccordez pas de magnétoscope, suivez l'exemple ①.**

Pour l'utilisation des fonctions T-V LINK, il faut qu'un magnétoscope compatible T-V LINK soit connecté à l'entrée EXT-2 du téléviseur. Pour plus de détails concernant ces fonctions T-V LINK voir "FONCTIONS T-V LINK" à la page 11.

- Vous pouvez regarder une cassette vidéo à partir du magnétoscope sans effectuer l'opération Ⓒ. Pour plus de détails, consultez le manuel d'utilisation de votre magnétoscope.
- Pour le raccordement d'appareils externes supplémentaires, voir "Raccordement des appareils externes" à la page 37.
- Pour le raccordement d'appareils audio supplémentaires, voir "Raccordement de haut-parleurs/d'un amplificateur" à la page 38.
- En cas de raccordement d'un décodeur à un magnétoscope compatible T-V LINK, réglez la fonction DECODEUR (EXT-2) sur OUI. Pour plus de détails, voir "Utilisation de la fonction DECODEUR (EXT-2)" à la page 36. Sinon, vous ne pourrez pas regarder les chaînes cryptées.



## Raccordement des cordons d’alimentation aux prises secteur

Insérez les fiches des cordons d’alimentation du téléviseur et du récepteur dans les prises secteur.

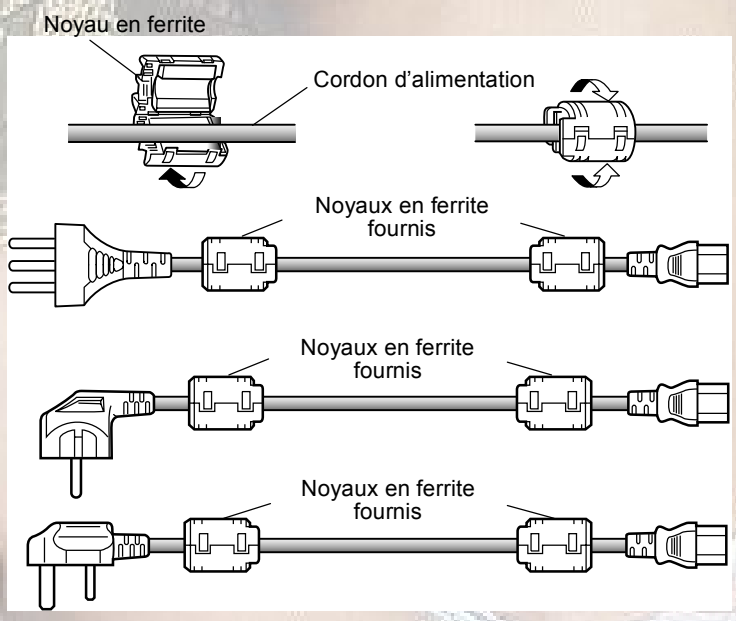
### Attention

- Ne raccordez les appareils qu’à la source d’alimentation spécifiée (CA 110 – 240 V, 50/60 Hz) sur chacun d’eux.
- L’utilisation d’un autre cordon que celui fourni ou le raccordement à une prise incorrectement reliée à la terre peuvent être à l’origine de chocs électriques.

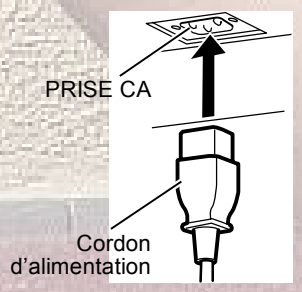
Utilisez le cordon d’alimentation fourni le mieux adapté à la zone où se trouve l’appareil.

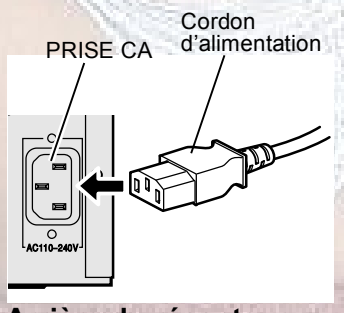
**Fixation des noyaux en ferrite**

Fixez les noyaux en ferrite au cordon d’alimentation.
L’utilisation du cordon d’alimentation sans noyaux en ferrite risque de provoquer des interférences.
Ouvrez le noyau en ferrite, insérez le cordon d’alimentation puis refermez le noyau en ferrite.
Fixez un noyau en ferrite à chaque extrémité du cordon d ’alimentation.



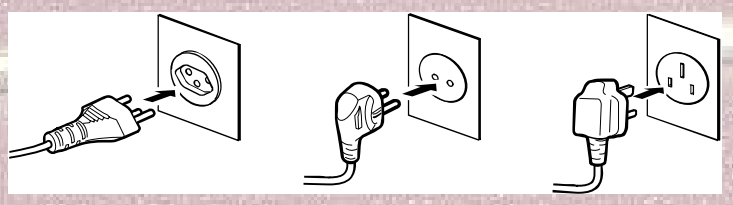

**Arrière du téléviseur**




**Arrière du récepteur**

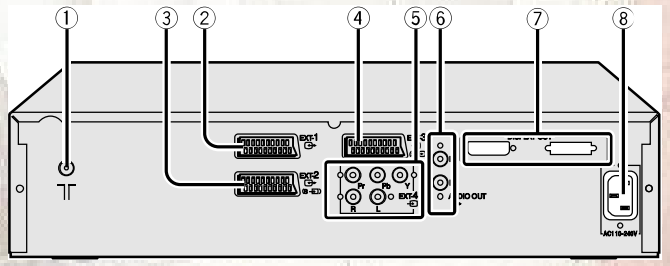
Insérez la fiche CA dans une prise correctement reliée à la terre.



Le témoin rouge de mise sous tension du récepteur s’allume – et le récepteur est en mode de veille - lorsque la fiche du cordon d’alimentation est raccordée à une prise secteur.

- Retirez la fiche CA de la prise pour couper totalement l’alimentation du téléviseur.

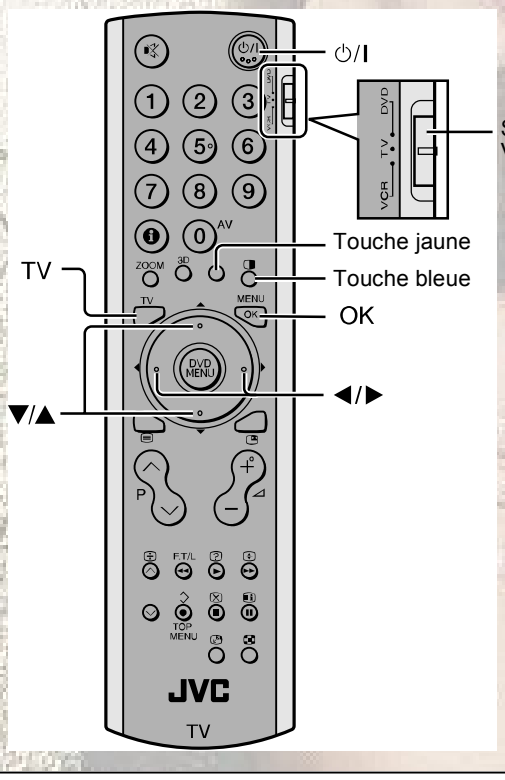
### ■ Récepteur (arrière)




① Prise d’antenne (page 8)
② Borne EXT-1 (pages 8, 27, 37)
③ Borne EXT-2 (pages 8, 11, 27, 37)
④ Borne EXT-3 (pages 27, 37)
⑤ Borne EXT-4 (pages 27, 37)
⑥ Borne AUDIO OUT (page 38)
⑦ Borne DISPLAY OUT (page 8)
⑧ AC INLET (page 9)

# Réglages initiaux

A sa première mise sous tension, le téléviseur entre en mode de réglage initial et le logo JVC s'affiche. Suivez les instructions qui apparaissent à l'écran pour effectuer les réglages initiaux.




**1 Veillez à régler le sélecteur VCR/TV/DVD sur la position TV.**

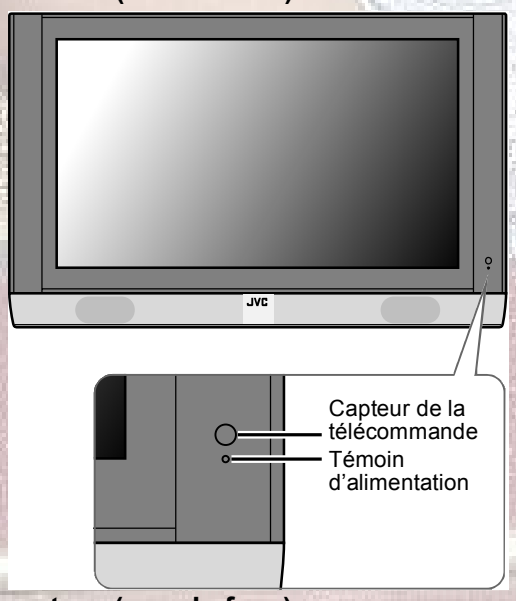
- Vous ne pouvez pas mettre le téléviseur sous tension si le sélecteur VCR/TV/DVD est réglé sur la position VCR ou DVD.

**2 Appuyez sur le bouton ⏻/I de la télécommande**

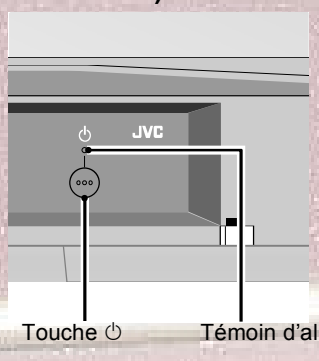
Le témoin de mise sous tension du récepteur passe du rouge au vert.
Après un court instant, le témoin de mise sous tension du téléviseur passe au vert et le logo JVC s'affiche.

- Contrôlez que les fiches des cordons d'alimentation du téléviseur et du récepteur sont raccordées aux prises secteur.

**Téléviseur (vue de face)**



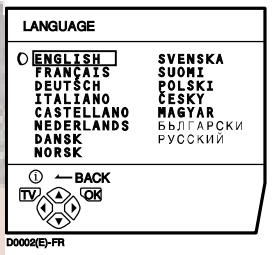

**Récepteur (vue de face)**




- Si le témoin d'alimentation reste rouge et ne passe pas au vert:
  Votre téléviseur se trouve en mode de veille.
  Appuyez une nouvelle fois sur la touche ⏻/I (Standby) de la télécommande pour allumer le téléviseur.
- Le logo JVC n'apparaît pas lorsque votre téléviseur a déjà été allumé une première fois. Dans ce cas, utilisez les fonctions "LANGAGE" et "AUTO" pour effectuer les réglages initiaux. Pour plus de détails, voir "INSTALLATION" à la page 31.

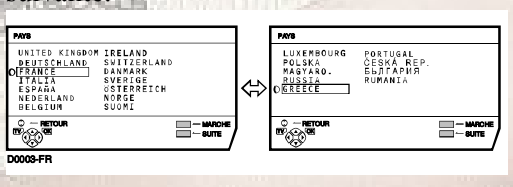
**3 Appuyez sur la touche OK**

Le menu LANGUAGE apparaît.




**4 Appuyez sur les touches ◄/► et ▼/▲ pour sélectionner FRANÇAIS. Appuyez ensuite sur la touche OK**

La langue d'affichage des messages à l'écran est définie.
Le menu PAYS apparaît en tant que sous-menu de la fonction AUTO.
Il existe deux menus PAYS. Si vous appuyez sur la touche jaune, le menu PAYS change de la façon suivante:

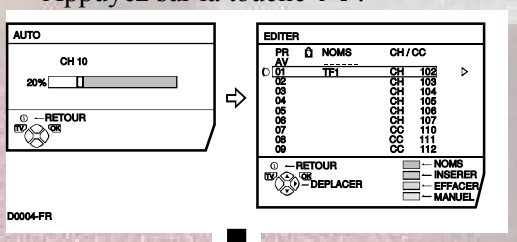



**5 Appuyez sur les touches ◄/► et ▼/▲ pour choisir le pays où vous vous trouvez**

**6 Appuyez sur la touche bleue pour démarrer la fonction AUTO**

Le menu AUTO s'affiche et les canaux TV captés sont automatiquement enregistrés sous les numéros de programmes (PR).

- Pour annuler la fonction AUTO:
  Appuyez sur la touche **TV**.

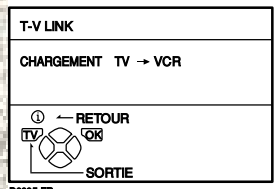



**Lorsque les canaux TV ont été enregistrés sous les numéros de programmes (PR), le menu EDITER s'affiche**

- Vous pouvez alors commencer à éditer les numéros de programmes (PR) à l'aide de la fonction EDITER/MANUEL. Pour plus de détails, voir "EDITER/MANUEL" à la page 32.
- Si vous n'avez pas besoin de la fonction EDITER/MANUEL, passez à l'étape suivante.

**Si “ACI DEPART/ACI SAUT” s’affiche dans le menu AUTO:**
Vous pouvez utiliser la fonction ACI (Installation automatique des canaux) pour décoder les données ACI et effectuer rapidement l’enregistrement de tous les canaux de télévision. Pour plus de détails concernant la fonction ACI et la façon de l’utiliser, voir “Utilisation de la fonction ACI” à la page 35.
Si vous ne souhaitez pas utiliser la fonction ACI, appuyez sur ▼/▲ pour sélectionner ACI SAUT et appuyez ensuite sur **OK**.

**7 Appuyez sur la touche OK pour afficher le menu T-V LINK**




**8 Si le magnétoscope raccordé n’est pas compatible T-V LINK:**
Appuyez sur la touche **TV** pour quitter le menu T-V LINK. Le menu T-V LINK disparaît.

**Si le magnétoscope raccordé à la borne EXT-2 est compatible T-V LINK:**
Suivez la procédure “Téléchargement de données vers un magnétoscope” à la page 35 pour transmettre les données de numéros de programme (PR).

**Les réglages initiaux sont à présent terminés et vous pouvez regarder la télévision**

- Lorsque votre téléviseur parvient à détecter le nom du canal TV à partir du signal d’émission, il enregistre automatiquement ce nom (NOMS) dans le numéro de programme (PR) sous lequel le canal est enregistré.
- Si un canal TV que vous souhaitez regarder n’est pas repris sous un numéro de programme (PR), vous devez le programmer manuellement à l’aide de la fonction MANUEL. Pour plus de détails, voir “EDITER/MANUEL” à la page 32.
- Le canal TV n’est pas enregistré sous un numéro de programme PR 0 (AV). Pour enregistrer un canal TV dans PR 0 (AV), programmez-le manuellement à l’aide de la fonction MANUEL. Pour plus de détails, voir “EDITER/MANUEL” à la page 32.

## FONCTIONS T-V LINK

Lorsqu’un magnétoscope compatible avec les fonctions T-V LINK est raccordé à la borne EXT-2 du téléviseur, les procédures d’installation du magnétoscope et de visualisation de cassettes sont simplifiées. T-V LINK utilise les fonctions suivantes:

**Pour utiliser les fonctions T-V LINK:**
Vous devez avoir un magnétoscope compatible T-V LINK. Le magnétoscope doit être raccordé à la borne EXT-2 du téléviseur par le biais d’un câble SCART où tous les fils sont utilisés.

Un magnétoscope compatible “T-V LINK” est un magnétoscope JVC possédant le logo T-V LINK ou un magnétoscope muni d’un des logos suivants. Ces magnétoscopes peuvent supporter certaines ou toutes les fonctions décrites plus haut. Pour plus de détails, consultez le manuel d’utilisation de votre magnétoscope.
“Q-LINK” (une marque commerciale de Panasonic Corporation)
“Data Logic” (une marque commerciale de Metz Corporation)
“Easy Link” (une marque commerciale de Phillips Corporation)
“Megalogic” (une marque commerciale de Grundig Corporation)
“SMARTLINK” (une marque commerciale de Sony Corporation)

### ■ Téléchargement des présélections

Téléchargez les données enregistrées des canaux TV du téléviseur au magnétoscope.
La fonction de téléchargement des présélections démarre automatiquement lorsque les réglages initiaux sont terminés ou que vous effectuez les opérations AUTO ou EDITER/MANUEL.

- Cette fonction peut être activée par l’intermédiaire du magnétoscope.

**Lorsque l’indication “FONCTION NON DISPONIBLE” s’affiche:**
Si l’indication “FONCTION NON DISPONIBLE” s’affiche, le téléchargement ne s’est pas effectué correctement. Avant de réessayer le téléchargement, vérifiez les points suivants:

- Le magnétoscope est-il sous tension?
- Le magnétoscope est-il compatible T-V LINK?
- Le magnétoscope est-il raccordé à la borne EXT-2?
- Tous les fils du câble SCART sont-ils utilisés?

### ■ Enregistrement direct

“Tel écran- tel enregistrement”
Vous pouvez très facilement enregistrer sur le magnétoscope les images que vous voyez sur le téléviseur. Pour plus de détails à ce sujet, veuillez lire le manuel de votre magnétoscope. Opérez à partir du magnétoscope.
“VCR EN ENREGISTREMENT” s’affiche.

**Dans les circonstances suivantes, le magnétoscope s’arrêtera d’enregistrer si le téléviseur est mis hors tension, si vous changez de canal ou d’entrée ou si le menu s’affiche sur le téléviseur:**

- Lors de l’enregistrement d’images provenant d’un appareil externe raccordé au téléviseur.
- Lors de l’enregistrement d’un canal après décryptage par un décodeur.
- Lors de l’enregistrement d’un canal via la sortie du téléviseur, car le tuner du magnétoscope ne peut correctement recevoir les signaux de ce canal.
- Lorsque le magnétoscope n’est pas prêt (par exemple, lorsqu’il n’y a pas de cassette insérée), l’indication “N’ENREGISTRE PAS” s’affiche.

- Il n’est pas possible de travailler à partir du téléviseur.
- En règle générale, le magnétoscope ne peut pas enregistrer un canal que son tuner ne peut pas recevoir correctement, même si vous pouvez voir les images de ce canal sur le téléviseur. Certains magnétoscopes permettent cependant d’enregistrer un canal par le biais de la sortie du téléviseur si la réception en est correcte à l’écran, même si le magnétoscope ne parvient pas à le recevoir clairement. Pour plus de détails, consultez le manuel d’utilisation de votre magnétoscope.

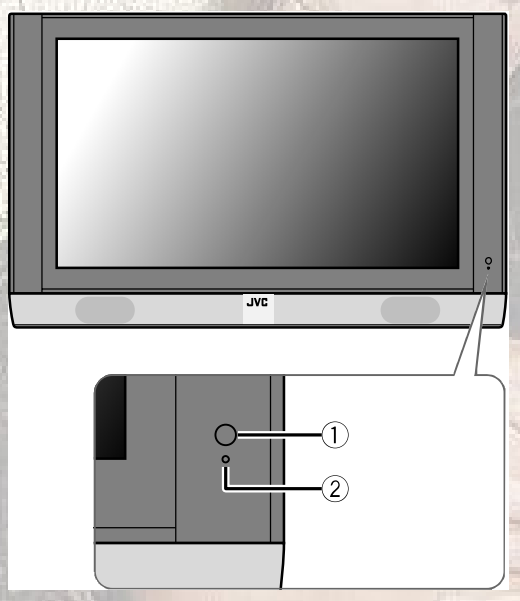
### ■ Mise sous tension automatique du téléviseur/ Visualisation des images du magnétoscope

Lorsque le magnétoscope se met en marche, le téléviseur se met automatiquement sous tension et les images provenant de la borne EXT-2 apparaissent à l’écran.
Lorsque le menu du magnétoscope est activé, le téléviseur se met automatiquement sous tension et les images provenant de la borne EXT-2 apparaissent à l’écran.

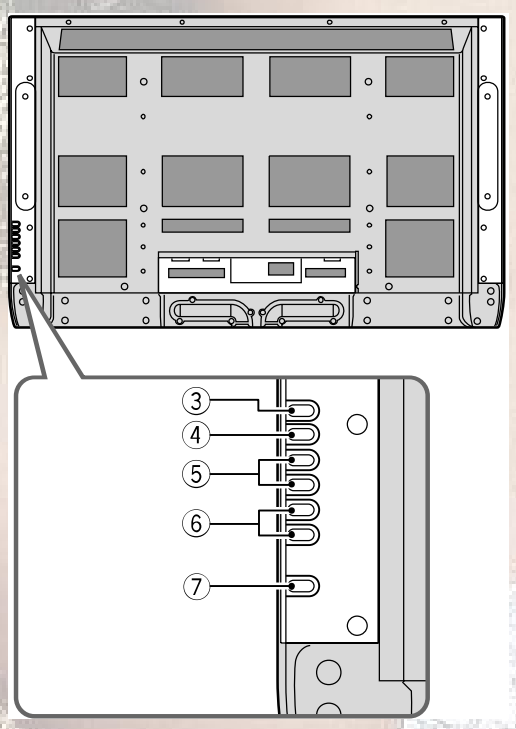
- Contrôlez que les fiches des cordons d’alimentation du téléviseur et du récepteur sont raccordées aux prises secteur.

# Touches et fonctions du téléviseur

**Téléviseur (vue de face)**



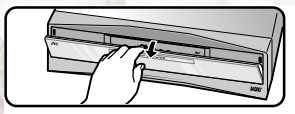

**Téléviseur (arrière)**



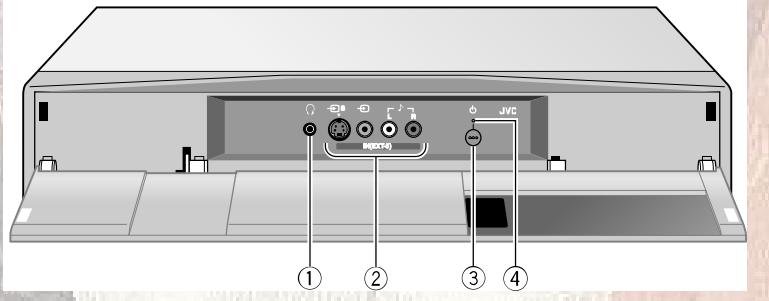

Reportez-vous aux pages entre parenthèses pour plus d'informations.

① Capteur de la télécommande
② Témoin d'alimentation (page 10)
③ Touche MENU/OK (pages 12, 20)
④ Touche TV/AV (page 12)
⑤ Touches ◿ (volume) −/+ (page 12)
⑥ Touches P ∨/∧ (page 12)
⑦ Touche ⏻ (veille) (page 12)

**Récepteur (vue de face)**



**Pour ouvrir le couvercle**




Reportez-vous aux pages entre parenthèses pour plus d'informations.

① Prise pour casque d'écoute (mini prise jack) (page 37)
② Borne EXT-5 (pages 27, 37)
③ Touche ⏻ (veille) (page 12)
④ Témoin d'alimentation (page 10)

## Mise en fonction de l'appareil à partir du mode de veille

**Appuyez sur la touche ⏻ ou sur la touche P ∨/∧ pour mettre le téléviseur en fonction à partir du mode de veille**

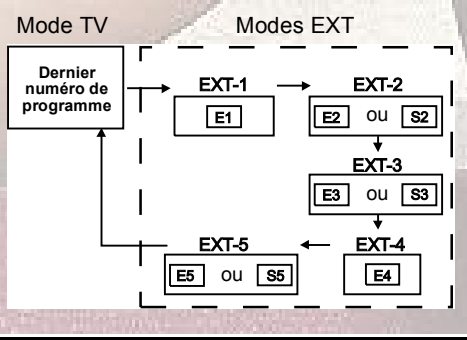
- Contrôlez que les fiches des cordons d'alimentation du téléviseur et du récepteur sont correctement raccordées aux prises secteur.

## Sélection d'un canal TV

**Appuyez sur les touches P ∨/∧ pour sélectionner un numéro de programme (PR) ou une borne EXT**

## Visualisation d'images provenant d'appareils externes

**Appuyez sur la touche TV/AV pour sélectionner une entrée TV/AV**




## Réglage du volume

**Appuyez sur les touches −/+**
Le témoin de niveau de volume apparaît.

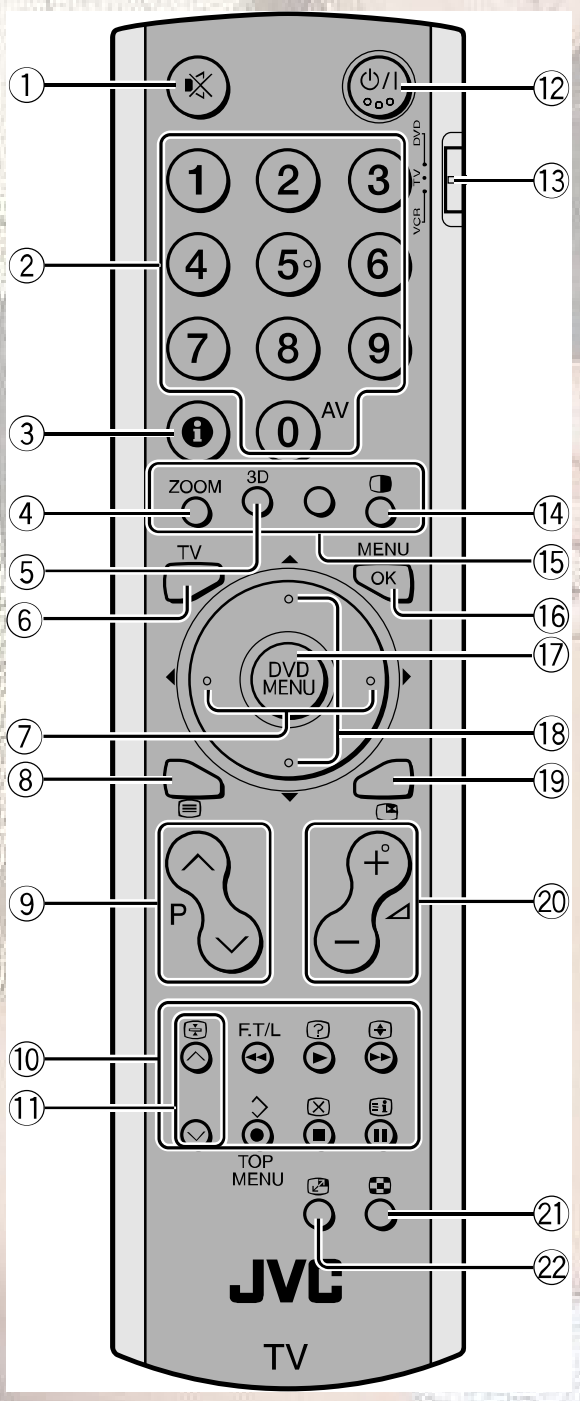
## Utilisation du casque d'écoute

- Le réglage du volume du casque d'écoute s'effectue à l'aide du menu "CASQUE" (voir page 26).

## Utilisation du menu

**Utilisez la touche MENU/OK.**
Reportez-vous à la section "Utilisation du menu du téléviseur" (voir page 20) pour plus de détails sur l'utilisation du menu.

# Touches de la télécommande et leurs fonctions




① Touche de coupure du son
② Touches numériques
③ Touche d'informations
④ Touche **ZOOM**
⑤ Touche son **3D**
⑥ Touche ***TV***
⑦ Touches ◀/▶
⑧ Touche ☰ (Texte)
⑨ Touches **P** ∨/∧
⑩ Touches de commande du VCR/DVD/télétexte
⑪ Touches ∨/∧
⑫ Touche de veille (Standby)
⑬ Sélecteur VCR/TV/DVD
⑭ Touche ◑
⑮ Touches de couleur
⑯ Touche **OK**
⑰ Touche **DVD MENU**
⑱ Touches▼/▲
⑲ Touche 📺
⑳ Touches ◿ −/+
㉑ Touche ❖
㉒ Touche ⛶

## Mise en et hors service de l'appareil à partir du mode de veille

**1 Veillez à régler le sélecteur VCR/TV/DVD sur la position TV.**

- Vous ne pouvez pas mettre le téléviseur sous tension si le sélecteur VCR/TV/DVD est réglé sur la position VCR ou DVD.

**2 Appuyez sur la touche ⏻/I (veille) pour mettre le téléviseur en ou hors service.**

A la mise en service du téléviseur, le témoin d'alimentation passe du rouge au vert.

- L'appareil peut être mis sous tension à l'aide de la touche ***TV***, les touches **P** ∨/∧ ou des touches numériques.
- Contrôlez que les fiches des cordons d'alimentation du téléviseur et du récepteur sont raccordées aux prises secteur.

## Sélection d'un canal TV

■ **Utilisation des touches numériques: Entrez le numéro de programme (PR) du canal à l'aide des touches numériques.**

Exemple:

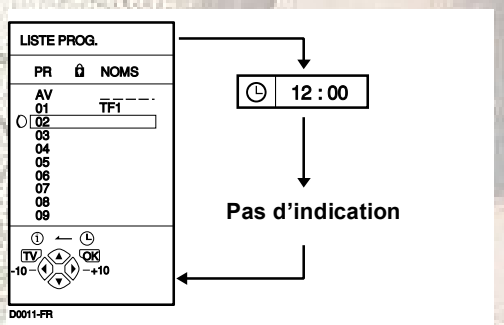
- PR 6 → appuyez sur ***6***
- PR 12 → appuyez sur ***1*** et ***2***

■ **Utilisation des touches P ∨/∧: Appuyez sur les touches P ∨/∧ pour sélectionner le numéro de programme (PR) souhaité.**

## ■ Utilisation de la LISTE PROG.:

**1 Appuyez sur la touche ⓘ (Informations) pour afficher la LISTE PROG.**

L'utilisation de la touche ⓘ (Informations) modifie l'affichage de la manière suivante:




**2 Appuyez sur les touches ◀/▶ et ▼/▲ pour sélectionner un numéro de programme (PR). Appuyez ensuite sur la touche OK**

- Pour les numéros de programme (PR) pour lesquels la fonction VERROUILLAGE est activée, le symbole 🔒 (VERROUILLAGE) s'affiche à côté du numéro de programme (PR) dans la LISTE PROG..
- Vous ne pouvez pas utiliser les touches ▼/▲ pour sélectionner un numéro de programme (PR) pour lequel la fonction VERROUILLAGE est verrouillée.
- Si vous essayez de sélectionner un numéro de programme (PR) pour lequel la fonction VERROUILLAGE est activée, le symbole 🔒 (VERROUILLAGE) s'affiche et l'accès à ce canal vous est refusé. Pour accéder à ce canal, reportez-vous aux explications concernant le "VERROUILLAGE" à la page 29.

## Réglage du volume

**Appuyez sur les touches 🔊 −/+ pour régler le volume.**

Le témoin de volume apparaît et le volume change à mesure que vous appuyez sur les touches 🔊 −/+.

- Le réglage du volume du casque d'écoute s'effectue à l'aide du menu "CASQUE" (voir page 26).

## ■ Coupure du son

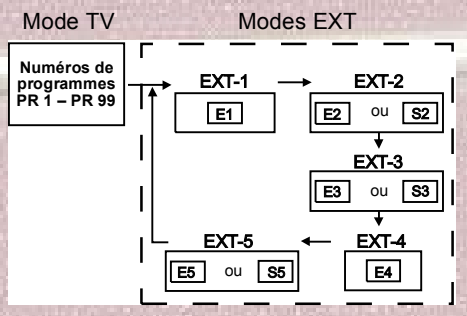
**Appuyez sur la touche 🔇 (coupure du son) pour couper le son.**

Appuyez une nouvelle fois sur la touche 🔇 (coupure du son) pour rétablir le niveau de volume précédent.

## Visualisation d'images provenant d'appareils externes

## ■ Utilisation de la touche 0 (AV):

**Appuyez sur la touche 0 (AV) pour sélectionner une borne EXT.**




## ■ Utilisation des touches▼/▲:

**Appuyez sur les touches ▼/▲ pour sélectionner une borne EXT.**

## ■ Utilisation de la LISTE PROG.:

**1 Appuyez sur la touche ⓘ (Informations) pour afficher la LISTE PROG.**

**2 Appuyez sur les touches ◀/▶ et ▼/▲ pour sélectionner une borne EXT. Appuyez ensuite sur la touche OK**

- Les entrées EXT sont enregistrées après le numéro de programme PR 99.
- Vous pouvez choisir un signal d'entrée vidéo S-VIDEO (signal Y/C) ou un signal vidéo normal (signal composite). Pour plus de détails, voir "S-IN (entrée S-VIDEO)" à la page 27.
- Si l'image n'est pas claire ou si les couleurs sont absentes, changez manuellement le système couleurs. Voir "SYSTEME COULEUR" à la page 23.
- Ce téléviseur est équipé d'une fonction qui permet de changer automatiquement d'entrée en fonction de l'émission d'un signal spécial produit par l'appareil externe. (Les bornes EXT-4 et EXT-5 ne reconnaissent pas cette fonction.)

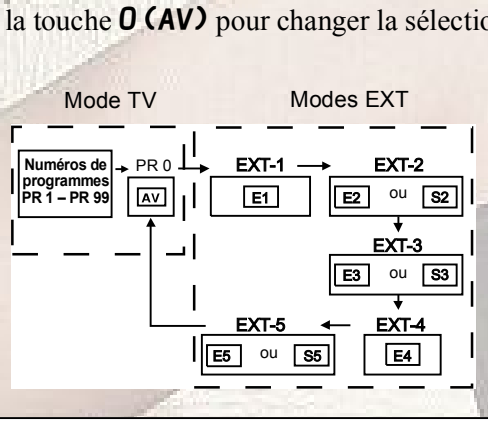
**Pour revenir à un canal TV:**

Appuyez sur la touche **TV**, sur les touches **P** ∨/∧ ou sur les touches numériques.

**Utilisation du numéro de programme PR 0 (AV):**

Lorsque le téléviseur et le magnétoscope ne sont raccordés que par le câble d'antenne, vous pouvez sélectionner le numéro de programme PR 0 (AV) pour visualiser les images du magnétoscope. Réglez manuellement le canal du magnétoscope RF sur le numéro de programme PR 0 (AV). Pour plus de détails, voir "EDITER/MANUEL" à la page 32.

Utilisez la touche **0 (AV)** pour changer la sélection comme suit:




- Le canal du magnétoscope RF est envoyé comme signal RF du magnétoscope.
- Pour plus de détails, consultez également le manuel d'utilisation de votre magnétoscope.

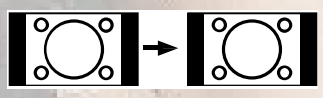
## Fonction ZOOM

Vous pouvez modifier la taille de l'écran en fonction du format de l'image. Choisissez le réglage optimal parmi les modes ZOOM suivants.

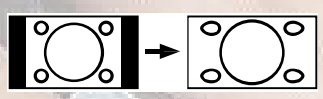
**AUTO:**
Lorsqu'un signal WSS (Signal écran large), qui indique le format de l'image, est inclus dans le signal d'émission ou dans le signal envoyé par un appareil externe, le téléviseur passe automatiquement du mode ZOOM au mode ZOOM 16:9 ou au mode PLEIN ECRAN en fonction du signal WSS reçu.
Si aucun signal WSS n'est inclus, l'image s'affiche dans le mode ZOOM sélectionné à l'aide de la fonction ZOOM AUTO 4:3.

- Pour plus de détails concernant la fonction ZOOM AUTO 4:3, voir "ZOOM AUTO 4:3" à la page 23.
- Lorsque le mode AUTO (WSS) ne fonctionne pas correctement à cause de la mauvaise qualité du signal WSS ou lorsque vous souhaitez changer de mode ZOOM, appuyez sur la touche **ZOOM** et sélectionnez un autre mode ZOOM.

**NORMAL:**
Sert à visualiser une image normale (avec un rapport zoom 4:3) non modifiée.

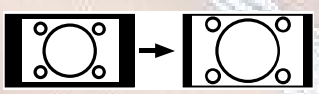


**PANORAMIC:**
Ce mode étire les côtés gauche et droit d'une image normale (avec un rapport zoom 4:3) pour qu'elle remplisse l'écran sans paraître bizarre.

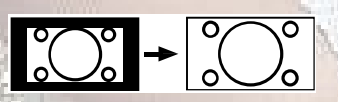


- Le haut et le bas de l'image sont légèrement coupés.

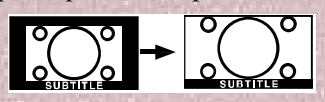
**ZOOM 14:9:**
Ce mode agrandit l'image élargie (rapport zoom 14:9) jusqu'aux limites supérieures et inférieures de l'écran.



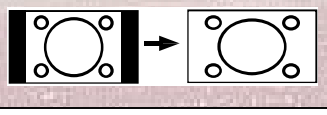
**ZOOM 16:9:**
Ce mode agrandit l'image élargie (rapport zoom 16:9) pour qu'elle remplisse l'écran.



**ZOOM 16:9 SOUS TITRES:**
Ce mode agrandit l'image élargie (rapport zoom 16:9) avec les sous-titres pour qu'elle remplisse l'écran.



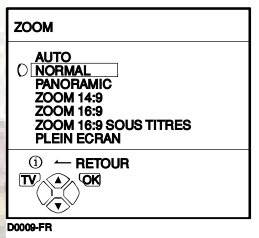

**PLEIN ECRAN:**
Ce mode étire uniformément les côtés gauche et droit d'une image normale (rapport zoom 4:3) pour qu'elle remplisse l'écran large du téléviseur.



Dans le cas des images avec un rapport zoom 16:9 qui ont été réduites à une image de taille normale (rapport zoom 4:3), permet de rétablir les dimensions d'origine.

### ■ Sélection du mode ZOOM

**1 Appuyez sur la touche ZOOM pour afficher le menu ZOOM**



D0009-FR

- Cette touche **ZOOM** n'est pas utilisable en mode à deux images.

**2 Appuyez sur les touches ▼/▲ pour sélectionner un mode ZOOM. Appuyez ensuite sur la touche OK**

L'image s'étend et le mode ZOOM sélectionné s'affiche environ cinq secondes plus tard.

- Il est possible que le mode ZOOM change automatiquement sous l'effet du signal de commande d'un appareil externe. Si vous voulez revenir au mode ZOOM précédent, choisissez à nouveau le mode ZOOM.

### ■ Réglage de la zone visible de l'image

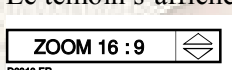
Si les sous-titres ou le haut (ou le bas) de l'image sont coupés, réglez manuellement la zone visible de l'image.

**1 Appuyez sur la touche ZOOM**

Le menu ZOOM apparaît.

**2 Appuyez sur la touche OK pour afficher l'indication de mode ZOOM**

Le témoin s'affiche.



D0010-FR

**3 Alors qu'il est affiché, appuyez sur les touches ▼/▲ pour régler verticalement la zone visible**

- Il n'est pas possible de régler la zone visible en mode NORMAL ou PLEIN ECRAN.

## Fonction SON 3D

Permet d'obtenir une ambiance sonore plus spacieuse.

**Appuyez sur la touche 3D pour activer ou désactiver la fonction SON 3D**

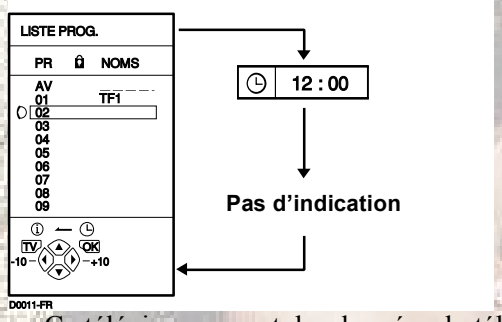
- La fonction SON 3D ne fonctionne pas correctement en mode mono.
- La fonction SON 3D peut également être activée ou désactivée à l'aide du menu REGLAGE AUDIO. Pour plus de détails, voir "SON 3D" à la page 25.

## Affichage de l’heure

Vous pouvez afficher l’heure à l’écran.

**Appuyez sur la touche ⓘ (Informations) pour afficher l’heure**

L’utilisation de la touche ⓘ (Informations) modifie l’affichage de la manière suivante:




- Ce téléviseur se sert des données du télétexte pour définir l’heure exacte. S’il n’a pas capté d’émetteur possédant des données de télétexte depuis sa mise sous tension, l’affichage de l’heure reste vierge. Pour afficher l’heure, sélectionnez un canal TV diffusant des données de télétexte.
- Il peut arriver, lorsque vous regardez des cassettes vidéos, qu’une heure erronée s’affiche.

## Retour instantané à un canal TV

Il est possible de revenir instantanément à un canal TV.

**Appuyez sur la touche *TV***

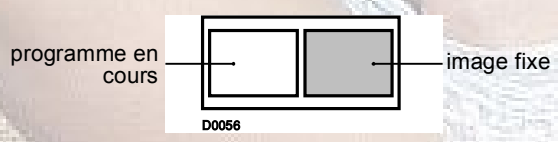
Le téléviseur repasse en mode TV et un canal TV s’affiche.

## Utilisation de la fonction ARRET IMAGE

Il est possible de figer le programme en cours.

**1 Appuyez sur la touche ⧉**

L’image actuelle se fige.




**Pour annuler la fonction ARRET IMAGE:**

Appuyez sur la touche ⧉, sur les touches **P** ∨/∧ ou sur les touches numériques.

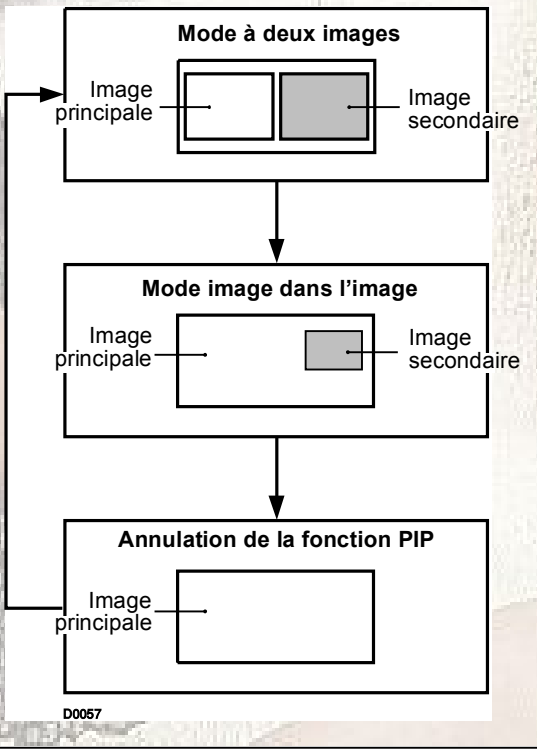
- La fonction ARRET IMAGE ne fonctionne pas lorsqu’une image secondaire est affichée.
- Il n’est pas possible de sortir l’image fixe du téléviseur.
- La fonction ARRET IMAGE s’annule si aucune opération n’est effectuée pendant environ une minute.

## Utilisation de la fonction PIP

Il est possible de visualiser deux images (l’image principale et une image secondaire).
Vous pouvez visualiser simultanément un programme TV et un programme vidéo à partir d’un appareil externe.

**1 Appuyez sur la touche ◑**

La touche ◑ permet de changer de mode PIP de la manière suivante:




**2 Appuyez sur les touches ∨/∧ pour afficher l’image d’une autre borne EXT sous forme d’image secondaire**

**Ecoute du son de l’image secondaire:**

Il est possible d’écouter le son de l’image secondaire à l’aide du casque d’écoute tout en écoutant le son de l’image principale dans les haut-parleurs du téléviseur.
Pour plus de détails, voir “CASQUE” à la page 26.

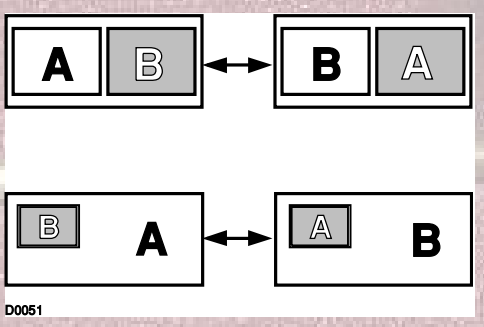
- Le son de l’image secondaire est diffusé en monophonie.

**Modification de la position de l’image secondaire:**

Quatre positions sont possibles.
Pour plus de détails, voir “PIP” à la page 24.

**Permutation entre l’image principale et l’image secondaire:**

Appuyez sur la touche ⧉.
L’image principale et l’image secondaire permutent.



**Annulation de la fonction PIP:**
Appuyez sur la touche ◑ ou **TV**.

- Si le signal de l'image principale est de mauvaise qualité, l'image secondaire risque également d'être mauvaise.
- Si les images ont des normes différentes, le haut et le bas de l'une d'entre elles risquent d'être coupés.
- Si vous mettez en service un appareil externe, il se peut que l'image secondaire disparaisse. Dans ce cas, appuyez à nouveau sur la touche ◑ pour réafficher l'image secondaire.
- Il n'est pas possible d'afficher un canal crypté dans l'image secondaire. Si vous appuyez sur la touche ⧉ alors que vous regardez en image principale un canal crypté à l'aide d'un décodeur externe, le canal que vous regardiez en image secondaire apparaîtra tant dans l'image principale que dans l'image secondaire.
- La fonction ZOOM n'est pas utilisable en mode à deux images.
- N'utilisez jamais la touche ⧉ pendant que vous enregistrez la sortie TV sur le magnétoscope. Si vous le faites, le signal de la sortie TV changera.
- La fonction FOND BLEU n'est pas utilisable en mode à deux images ou en mode d'image dans l'image.
- Il n'est pas possible d'afficher une image progressive-scanning comme image secondaire. Tenez compte des points suivants:
  - Lorsque l'image EXT-4 est une image progressive-scanning, il n'est pas possible de sélectionner EXT-4 à l'aide des touches ∨/∧.
  - Lorsque le signal d'image EXT-4 se transforme en image progressive-scanning pendant que l'image EXT-4 est affichée en image secondaire, la fonction PIP est annulée.
  - Il n'est pas possible de permuter les images lorsqu'une image progressive-scanning provenant de l'entrée EXT-4 est affichée en image principale.
- L'image secondaire ne peut pas être sortie du téléviseur.

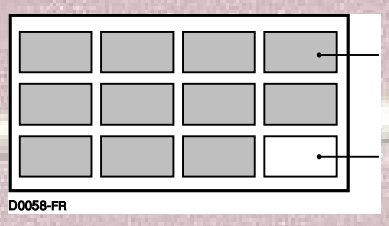
## Utilisation de la fonction IMAGES MULTIPLES

Cette fonction permet de retrouver facilement un programme que l'on souhaite regarder.

**1 Appuyez sur la touche ⊞ pour afficher des images multiples**

Les canaux s'affichent dans leur ordre numérique.
Les images multiples apparaissent en mode à images multiples.

**Mode à 12 images:**




**2 Appuyez sur les touches ∨/∧ pour visualiser l'écran souhaité**

L'image choisie s'anime.

**3 Appuyez sur la touche OK**

Les images multiples disparaissent et l'image choisie s'affiche.

**Annulation des images multiples:**
Appuyez sur la touche **TV**, sur les touches numériques ou sur les touches **OK**.

- Les images provenant d'un appareil externe ne peuvent pas être animées en mode à 12 images.

## Utilisation d'un VCR ou d'un lecteur DVD de marque JVC

Vous pouvez utiliser un magnétoscope ou un lecteur DVD de marque JVC. Les touches de la télécommande du téléviseur qui ont le même aspect que celles de la télécommande d'origine d'un appareil commandent les fonctions de la même manière que la télécommande d'origine.

**1 Réglez le sélecteur VCR/TV/DVD sur la position VCR ou DVD**

**VCR:**
Pour utiliser le magnétoscope, réglez le sélecteur sur la position VCR. Vous pouvez mettre le magnétoscope hors ou sous tension à l'aide du bouton ⏻/I (Standby).

**DVD:**
Pour utiliser le lecteur de DVD, réglez le sélecteur sur la position DVD. Vous pouvez mettre le lecteur de DVD hors ou sous tension à l'aide du bouton ⏻/I (Standby).

**2 Appuyez sur la touche de commande VCR/DVD pour commander le magnétoscope ou le lecteur de DVD**

- Vous ne pouvez pas utiliser ces touches si votre appareil n'est pas de la marque JVC.
- Même si votre appareil est de la marque JVC, il se peut que certaines de ces touches ne fonctionnent pas, selon l'appareil utilisé.
- Vous pouvez utiliser les touches ∨/∧ pour sélectionner un canal TV que le magnétoscope recevra ou pour choisir le chapitre lu par le lecteur de DVD.
- Certains modèles de lecteurs de DVD utilisent les touches ∨/∧ pour les opérations d'avance et de retour rapide, et pour le choix du chapitre. Dans ce cas, les touches ◀◀/▶▶ ne sont pas utilisables.
- Réglez le sélecteur VCR/TV/DVD sur la position TV lorsque vous mettez le téléviseur hors ou sous tension.

### ■ Utilisation du bouton DVD MENU

Ce menu permet de sélectionner le contenu de certains DVD. Lorsque vous lisez de tels DVD, vous pouvez sélectionner la langue des sous-titres et de la bande son, etc. à l'aide de ce menu.

**1 Appuyez sur la touche DVD MENU pendant la lecture**

Le menu DVD apparaît à l'écran.

- Appuyez de nouveau sur la touche **DVD MENU** pour reprendre la lecture à la scène à laquelle vous étiez arrivé lorsque vous avez appuyé sur la touche.

**2 Appuyez sur les touches ▼/▲ ou ◀/▶ pour sélectionner l'élément souhaité**

**3 Appuyez sur la touche OK**

Le menu passe à un autre écran.
Répétez les étapes 2 et 3 pour sélectionner d'autres éléments.

# Fonction télétexte

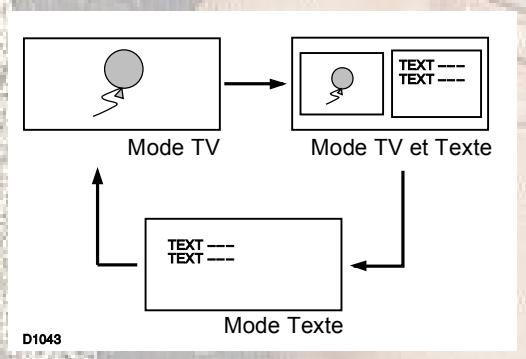
## Fonctionnement de base

**1 Sélection d'un canal avec télétexte**

**2 Veillez à régler le sélecteur VCR/TV/DVD sur la position TV**

**3 Appuyez sur la touche ☰ (Texte) pour afficher le télétexte**

Appuyez sur la touche ☰ (Texte) pour changer de mode dans l'ordre suivant:




**4 Sélectionnez une page de télétexte en appuyant sur les touches P ∨/∧, sur les touches numériques ou sur les touches de couleur**

**Pour revenir au mode TV:**
Appuyez sur la touche ***TV*** ou sur la touche ☰ (Texte).

- Si vous avez des problèmes pour capter les émissions télétexte, consultez votre revendeur local ou l'émetteur du télétexte.
- La fonction ZOOM n'est pas utilisable en mode TV et texte ni en mode Texte.
- Il n'est pas possible d'utiliser les menus tout en regardant un programme télétexte.
- La langue d'affichage dépend du pays sélectionné à l'aide du menu PAYS. Si les caractères d'un programme télétexte ne s'affichent pas correctement, changez la PAYS en sélectionnant un autre pays. Pour plus de détails, voir "Modification du réglage PAYS" à la page 36.

Pendant la visualisation d'un programme télétexte, le texte se déroule lentement vers le haut ou vers le bas de l'écran. Ceci est destiné à prévenir l'effet de rémanence et ne constitue pas un défaut.

## Utilisation du mode Liste

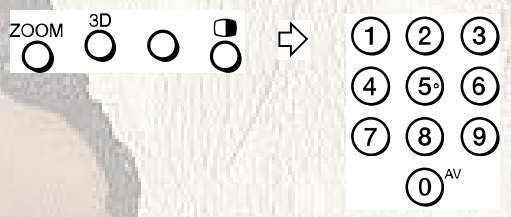
Il est possible de mémoriser les numéros de vos pages de télétexte favorites pour pouvoir les rappeler rapidement à l'aide des touches de couleur.

### ■ Pour mémoriser les numéros des pages:

**1 Appuyez sur la touche *F.T/L* pour activer le mode Liste**

Les numéros de pages mémorisés s'affichent dans le bas de l'écran.

**2 Appuyez sur une touche de couleur pour sélectionner une position. Utilisez ensuite les touches numériques pour entrer le numéro de la page**



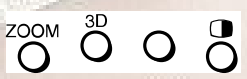

**3 Appuyez sur la touche ◇ (Mémoriser) et maintenez-la enfoncée**

Les quatre numéros de page clignotent en blanc pour indiquer qu'ils sont mémorisés.

### ■ Pour rappeler une page mémorisée:

**1 Appuyez sur la touche *F.T/L* pour activer le mode Liste**

**2 Appuyez sur une touche de couleur à laquelle une page a été affectée**

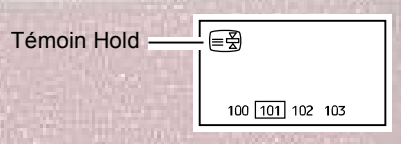



**Pour quitter le mode Liste:**
Appuyez une nouvelle fois sur la touche ***F.T/L***.

## Conserver l'affichage

Vous pouvez garder une page de télétexte affichée aussi longtemps que vous le souhaitez, même pendant la réception d'autres pages de télétexte.

**Appuyez sur la touche ⊟ (Hold)**




**Pour annuler la fonction Hold:**
Appuyez une nouvelle fois sur la touche ⊟ (Hold).

- La fonction Hold s'annule si aucune opération n'est effectuée pendant environ une minute.

## Page secondaire

Certaines pages de télétexte comprennent des pages secondaires qui s'affichent automatiquement.
Vous pouvez garder affichée toute page secondaire ou la visualiser à tout moment.

**1 Sélectionnez une page de télétexte qui comprend des pages secondaires**

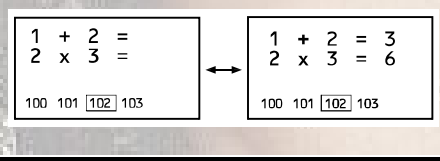
Les numéros des pages secondaires qui peuvent être visualisées sont automatiquement affichés en haut de l'écran.

**2 Appuyez sur les touches ◀/▶ pour choisir un numéro de page secondaire**

## Révéler

Certaines pages de télétexte comprennent du texte masqué (par exemple des réponses à un jeu).
Vous pouvez afficher le texte masqué.

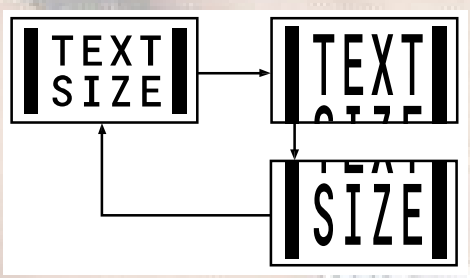
**Chaque fois que vous appuyez sur la touche ? (Révéler), le texte est masqué ou révélé**




## Taille

Vous pouvez doubler la hauteur de l'affichage du télétexte.

**Appuyez sur la touche ⇳ (Taille).**




## Index

Vous pouvez revenir instantanément à la page d'index.

**Appuyez sur la touche ☰ (Index)**

Vous revenez à la page 100 ou à une page précisée précédemment.

## Annulation

Vous pouvez rechercher une page de télétexte tout en regardant la télévision.

**1 Appuyez sur une touche numérique pour entrer un numéro de page, ou appuyez sur une touche de couleur**

Le téléviseur recherche la page de télétexte demandée.

**2 Appuyez sur la touche ⊠ (Annuler)**

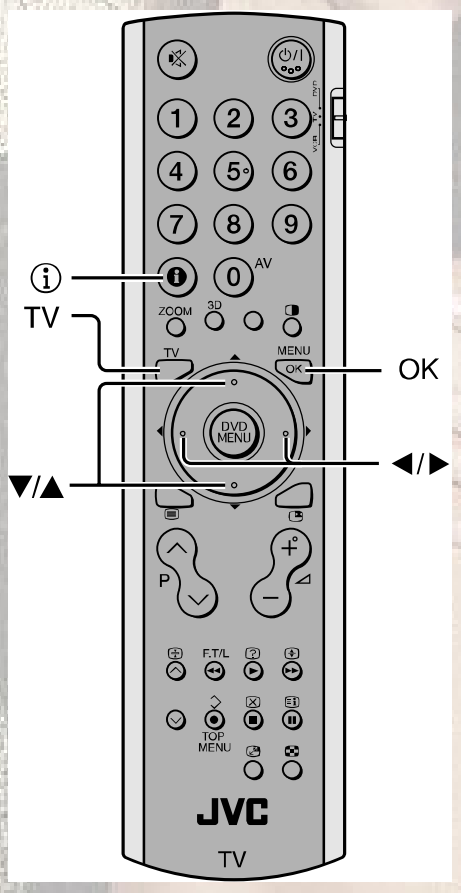
Le programme TV s'affiche. Lorsque le téléviseur a trouvé la page de télétexte, son numéro s'affiche dans le coin supérieur gauche de l'écran.

**3 Appuyez sur la touche ⊠ (Annuler) pour afficher la page de télétexte dont le numéro est affiché à l'écran**

- Il est dès lors impossible de revenir au mode TV, même en appuyant sur la touche ⊠ (Annuler). Le programme TV ne s'est affiché que provisoirement, à la place du programme télétexte.

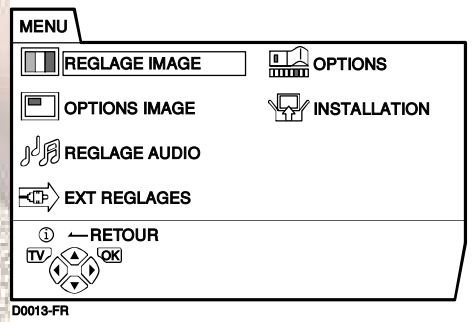
# Utilisation du menu du téléviseur

Ce téléviseur est équipé d'un certain nombre de fonctions que vous pouvez activer ou désactiver à l'aide de menus. Pour tirer le meilleur parti de toutes ses fonctions, il vous faut bien comprendre le fonctionnement de base des menus.

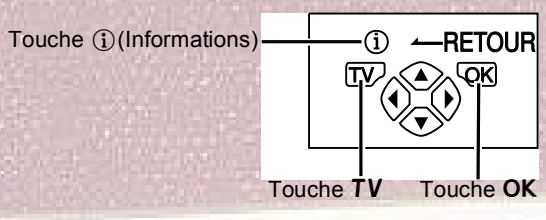



## Fonctionnement de base

### 1 Appuyez sur la touche OK pour afficher le MENU (menu principal)




- Appuyez deux fois sur la touche **OK** lorsque vous vous trouvez en mode IMAGES MULTIPLES.
- L'affichage qui apparaît dans le bas d'un menu indique les touches de la télécommande qui peuvent être utilisées pour effectuer la fonction choisie.




### 2 Appuyez sur les touches ◀/▶ et ▼/▲ pour sélectionner le titre d'un menu, puis appuyez sur la touche OK

Le menu s'affiche.

**Pour revenir au menu précédent:**
Appuyez sur la touche ⓘ (Informations).

**Pour quitter instantanément un menu:**
Appuyez sur la touche ***TV***.

### 3 Appuyez sur les touches ▼/▲ pour sélectionner une fonction

- Pour plus de détails sur les fonctions des menus, voir les pages suivantes.

### 4 Appuyez sur les touches ◀/▶ pour sélectionner le paramétrage de cette fonction

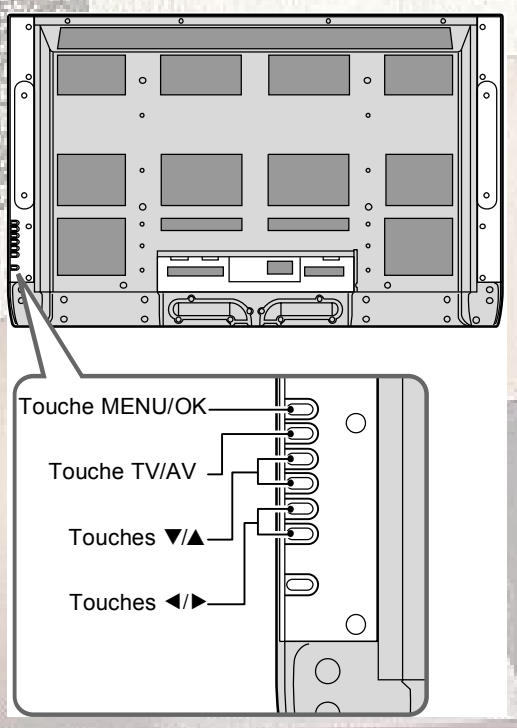
- Pour activer une fonction dont seul le nom s'affiche, reportez-vous à sa description dans les pages suivantes.
- L'affichage qui apparaît dans le bas d'un menu indique la touche de la télécommande que vous pouvez utiliser pour effectuer la fonction choisie.

### 5 Appuyez sur la touche OK pour valider le réglage

Le menu disparaît.

- Lorsque vous regardez la télévision en mode NTSC, les menus s'affichent à environ la moitié de leur taille verticale normale.
- Le menu disparaît si vous appuyez sur les touches **P** ∨/∧ lorsque le menu est affiché.

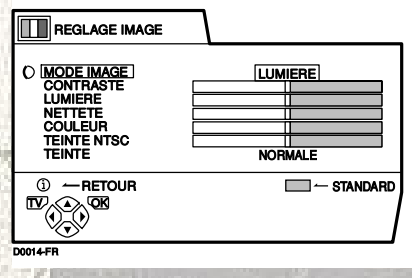
**Utilisation des boutons du téléviseur**
Vous pouvez également appeler les menus à l'aide des boutons situés sur le panneau avant du téléviseur.




Le menu disparaît si aucune opération n'est effectuée pendant une minute environ.

# REGLAGE IMAGE

Reportez-vous à la section “Utilisation du menu du téléviseur” (voir page 20) pour plus de détails sur l’affichage du menu.




## MODE IMAGE

Trois modes MODE IMAGE permettent d’effectuer automatiquement les réglages de l’image.

**LUMIERE:**
Augmente le contraste et la netteté.

**NORMAL:**
Standardise le réglage de l’image.

**DOUX:**
Adoucit le contraste et la netteté.

## Réglage de l’image

Vous pouvez modifier les réglages d’image de chaque mode MODE IMAGE à votre convenance.

**CONTRASTE:**
Permet de régler le contraste de l’image.
◄ : moins de contraste
► : plus de contraste

**LUMIERE:**
Permet de régler la luminosité de l’image.
◄ : plus sombre
► : plus claire

**NETTETE:**
Permet de régler la netteté de l’image.
◄ : moins nette
► : plus nette

**COULEUR:**
Permet de régler la couleur de l’image.
◄ : plus claire
► : plus intense

**TEINTE NTSC:**
Sert à régler la teinte de l’image.
◄ : rougeâtre
► : verdâtre

- Il est possible de modifier le réglage TEINTE NTSC (teinte de l’image) lorsque le système couleurs est NTSC 3.58, NTSC 4.43 ou un signal provenant de l’entrée EXT-4.
  Il n’est cependant pas possible d’effectuer l’opération lorsque l’image principale de la fonction PIP est réglée sur EXT-4.

**Pour revenir aux réglages par défaut dans chaque mode MODE IMAGE:**
Appuyez sur la touche bleue.

- Cette opération rappelle les réglages d’image par défaut dans le mode MODE IMAGE sélectionné et les mémorise dans le mode MODE IMAGE.

## TEINTE

Il existe trois modes TEINTE (trois nuances de blanc) permettant de régler l’équilibre du blanc dans l’image. Etant donné que le blanc est la couleur de référence pour toutes les autres couleurs, le changement de mode TEINTE affecte l’apparence de toutes les autres couleurs à l’écran.

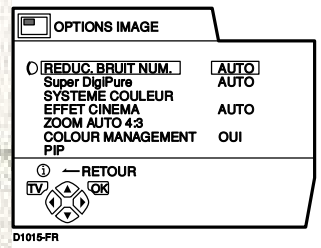
**FROIDE:**
Blanc bleuté. L’utilisation de ce mode sur des images très claires permet d’obtenir une image plus vive et plus brillante.

**NORMALE:**
Couleur blanche normale.

**CHAUDE:**
Blanc rougeâtre. L’utilisation de ce mode lors de la vision de films permet de profiter davantage des couleurs caractéristiques des films.

# OPTIONS IMAGE

Reportez-vous à la section “Utilisation du menu du téléviseur” (voir page 20) pour plus de détails sur l’affichage du menu.




## REDUC. BRUIT NUM.

La fonction REDUC. BRUIT NUM. permet de réduire la quantité d’interférences apparaissant sur l’image originale. La fonction REDUC. BRUIT NUM. propose trois réglages: AUTO, MINI et MAXI.

**AUTO:**
Le téléviseur règle automatiquement le niveau de l’effet REDUC. BRUIT NUM. en fonction de la quantité d’interférences dans l’image, de façon à fournir la meilleure image possible.

- Une trop forte augmentation du niveau de la fonction REDUC. BRUIT NUM. aura un effet néfaste sur la netteté de l’image. Dans toute la mesure du possible, il est recommandé de régler la fonction sur AUTO.
- Il n’est pas possible de sélectionner AUTO pour une image EXT-4.

**MINI:**
Le niveau de l’effet REDUC. BRUIT NUM. est réglé sur le minimum. Si vous réglez la fonction REDUC. BRUIT NUM. sur AUTO mais que vous avez l’impression que l’image n’est pas reproduite avec toute la netteté de l’image originale, repassez de AUTO à MINI.

- Le réglage MINI ne convient pas pour les images de qualité médiocre avec un niveau de bruit important.

**MAXI:**
Le niveau de l’effet REDUC. BRUIT NUM. est réglé sur le maximum. Si vous réglez la fonction REDUC. BRUIT NUM. sur AUTO mais que l’image renferme encore du bruit, repassez de AUTO à MAXI.

- Le réglage MAXI ne convient pas pour les images de haute qualité contenant très peu de bruit.

---

- Lorsqu’une image progressive-scanning est affichée, il n’est pas possible de sélectionner “REDUC. BRUIT NUM.”.
- La fonction REDUC. BRUIT NUM. n’est pas utilisable avec les images progressive-scanning.

---

## Super DigiPure

La fonction Super DigiPure fait appel aux dernières techniques numériques pour vous fournir une image à l’aspect naturel. La fonction Super DigiPure comprend les deux fonctions suivantes.

**Fonction DigiPure:**
Cette fonction permet de créer une image à l’aspect naturel en éliminant les bords inutiles des images très contrastées et très nettes. Pour les images peu contrastées, des bords sont ajoutés pour créer une image plus nette et plus détaillée. La fonction DigiPure propose trois réglages: AUTO, MINI et MAXI.

- Si vous réglez l’effet DigiPure sur une valeur trop élevée pour une image de mauvaise qualité qui contient de nombreuses interférences, cet effet risque d’accentuer les interférences. Dans la mesure du possible, il est recommandé de régler la fonction sur AUTO.

**Fonction de compensation de mouvement de l’image:**
Cette fonction affiche de manière moins saccadée et plus naturelle à l’écran les images présentant des mouvements rapides (par exemple les joueurs ou la balle dans un match de football).

- Le niveau de l’effet de la compensation du mouvement de l’image ne peut pas être modifié. Le niveau de l’effet est identique quels que soient les réglages AUTO, MINI ou MAXI utilisés.

**1 Sélectionnez Super DigiPure**

**2 Appuyez sur les touches ◄/► pour sélectionner un réglage. Appuyez ensuite sur la touche OK**

**AUTO:**
Le téléviseur règle automatiquement le niveau de l’effet DigiPure en fonction de la quantité de bruit de l’image, de façon à fournir la meilleure image possible.

- Il n’est pas possible de sélectionner AUTO pour une image EXT-4.

**MINI:**
Le niveau de l’effet DigiPure est réglé au minimum. Si vous réglez la fonction Super DigiPure sur AUTO mais que l’image renferme encore du bruit, repassez de AUTO à MINI.

- Le réglage MINI ne convient pas pour les images de haute qualité contenant très peu de bruit.

**MAXI:**
Le niveau de l’effet DigiPure est réglé au maximum. Si vous réglez la fonction Super DigiPure sur AUTO mais que vous avez l’impression que l’image n’est pas reproduite avec toute la qualité de l’image originale, repassez de AUTO à MAXI.

- Le réglage MAXI ne convient pas pour les images de qualité médiocre avec un niveau de bruit important.

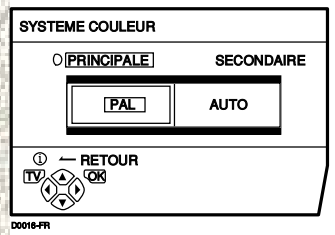
**NON:**
La fonction Super DigiPure est désactivée.

## SYSTEME COULEUR

Le système couleurs est sélectionné automatiquement. Cependant, si l'image n'est pas nette ou si aucune couleur n'apparaît, vous devez sélectionner manuellement le système couleurs.

**1 Sélectionnez SYSTEME COULEUR. Appuyez ensuite sur la touche OK**

Le menu secondaire de la fonction SYSTEME COULEUR apparaît.




**2 Appuyez sur les touches ◀/▶ pour sélectionner PRINCIPALE ou SECONDAIRE**

**PRINCIPALE:**
Permet de modifier le système couleurs de l'image principale.

**SECONDAIRE:**
Permet de modifier le système couleurs de l'image secondaire.

- Sélectionnez PRINCIPALE lorsqu'il n'y a pas d'image secondaire affichée.

**3 Appuyez sur les touches ▼/▲ pour sélectionner le système couleurs approprié. Appuyez ensuite sur la touche OK**

**PAL:**
Système PAL

**SECAM:**
Système SECAM

**NTSC 3.58:**
Système NTSC 3.58 MHz

**NTSC 4.43:**
Système NTSC 4.43 MHz

**AUTO:**
Cette fonction permet de détecter un système couleurs à partir du signal entrant. Vous ne pouvez l'utiliser que lorsque vous regardez une image provenant d'un numéro de programme PR 0 (AV) ou d'une entrée EXT.

- La fonction AUTO peut ne pas fonctionner correctement si le signal est de mauvaise qualité. Si l'image obtenue à l'aide de la fonction AUTO est anormale, sélectionnez manuellement un autre système couleurs.
- Sous les numéros de programme PR 0 (AV) à PR 99, vous ne pouvez pas sélectionner NTSC 3.58 ou NTSC 4.43.

## EFFET CINEMA

La fonction EFFET CINEMA permet d'afficher de manière plus douce et plus naturelle à l'écran les films au format cinéma.

**AUTO:**
Le téléviseur reconnaît automatiquement le type de signal et active ou désactive la fonction.

**OUI:**
La fonction est activée.

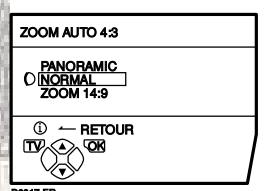
**NON:**
La fonction est désactivée.

- Le mouvement risque de paraître artificiel avec le système couleurs NTSC. Lorsque la fonction EFFET CINEMA est réglée sur AUTO ou sur OUI, le mouvement peut paraître artificiel avec le système couleurs NTSC.
- Cette fonction n'est pas utilisable en mode à deux images ou en mode d'image dans l'image.

## ZOOM AUTO 4:3

Vous pouvez sélectionner un des trois modes ZOOM, NORMAL, PANORAMIC ou ZOOM 14:9, comme mode ZOOM pour l'image normale (rapport zoom 4:3).

**1 Sélectionnez ZOOM AUTO 4:3 puis appuyez sur la touche OK**




**2 Appuyez sur les touches ▼/▲ pour sélectionner un mode ZOOM. Appuyez ensuite sur la touche OK**

## COLOUR MANAGEMENT

Ce téléviseur utilise la fonction COLOUR MANAGEMENT pour assurer une compensation des couleurs ternes afin de produire des tonalités naturelles. La fonction COLOUR MANAGEMENT est activée par défaut.

**OUI:**
La fonction COLOUR MANAGEMENT est activée.

**NON:**
La fonction COLOUR MANAGEMENT est désactivée.

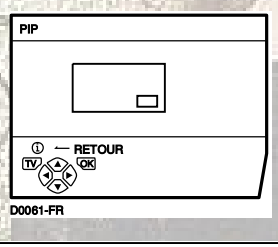
- Dans des conditions normales, réglez cette fonction sur OUI.

## PIP

Quatre positions sont possibles pour l'image secondaire.

**1 Appuyez sur les touches ▼/▲ pour sélectionner PIP. Appuyez ensuite sur la touche OK**

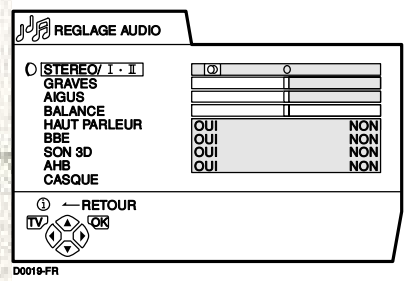
Le menu PIP apparaît.




**2 Appuyez sur les touches ◀/▶ pour sélectionner la position. Appuyez ensuite sur la touche OK**

# REGLAGE AUDIO

Reportez-vous à la section “Utilisation du menu du téléviseur” (voir page 20) pour plus de détails sur l’affichage du menu.




## STEREO / I • II

Lorsque vous regardez une émission bilingue, vous pouvez sélectionner Bilingue I (menu secondaire I) ou Bilingue II (menu secondaire 2). Lorsque la réception d’une émission stéréo est mauvaise, vous pouvez passer en mode mono de manière à pouvoir écouter l’émission plus clairement et plus facilement.

∞ : Son stéréo

○ : son mono

Ⅰ : Bilingue I (menu secondaire I)

Ⅱ : Bilingue II (menu secondaire II)

- Le mode audio sélectionnable varie en fonction du programme.
- Cette fonction n’est pas utilisable dans les modes EXT. Et elle n’apparaît pas non plus dans le menu REGLAGE AUDIO.

## Réglage du son

Vous pouvez régler le son à votre convenance.

**GRAVES:**
Permet de régler la tonalité grave du son.
◄ : plus faible
► : plus forte

**AIGUS:**
Permet de régler la tonalité aiguë du son.
◄ : plus faible
► : plus forte

**BALANCE:**
Permet de régler la balance entre le haut-parleur gauche et le haut-parleur droit.
◄ : augmente le volume du haut-parleur gauche.
► : augmente le volume du haut-parleur droit.

## HAUT PARLEUR

Si un système audio est relié au téléviseur pour remplacer les haut-parleurs du téléviseur, vous pouvez couper le son de ces derniers.

**OUI:**
Les haut-parleurs du téléviseur fonctionnent.

**NON:**
Les haut-parleurs du téléviseur sont coupés.

## BBE

La fonction BBE permet d’obtenir un son agréable et fidèle au son original.

**OUI:**
La fonction est activée.

**NON:**
La fonction est désactivée.

- Sous licence de BBE Sound, Inc. BBE est une marque déposée de BBE Sound, Inc.

## SON 3D

La fonction SON 3D vous permet de profiter d’un son Surround et d’un effet “concert”.

**OUI:**
La fonction SON 3D est activée.

**NON:**
La fonction SON 3D est désactivée.

## A.H.B. (Accentuation des basses)

Utilisée lorsque vous souhaitez accentuer les sons graves

**OUI:**
La fonction est activée.

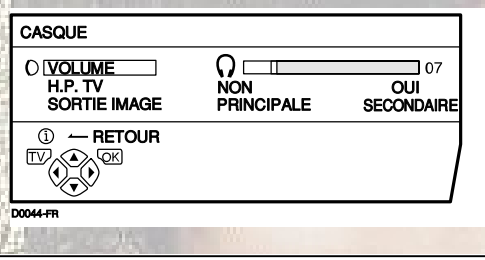
**NON:**
La fonction est désactivée.

## CASQUE

Pour régler le volume du casque d'écoute, utilisez le menu CASQUE.
Le menu CASQUE permet également de décider si oui ou non les haut-parleurs du téléviseur doivent continuer à fonctionner lorsque l'on utilise le casque d'écoute, et d'effectuer les différents réglages du casque.

**1 Appuyez sur les touches ▼/▲ pour sélectionner CASQUE. Appuyez ensuite sur la touche OK**

Le menu secondaire de la fonction CASQUE apparaît.




**2 Appuyez sur les touches ▼/▲ pour sélectionner une fonction. Appuyez ensuite sur les touches ◄/► pour modifier le réglage**

**VOLUME:**
Permet de modifier le volume du casque d'écoute.

**H.P. TV:**
Permet d'activer ou de couper le son des haut-parleurs du téléviseur.

**OUI:**
Les haut-parleurs du téléviseur continuent à fonctionner lorsque le casque d'écoute est utilisé.

**NON:**
Les haut-parleurs du téléviseur sont coupés lorsque le casque d'écoute est utilisé.

**SORTIE IMAGE:**
Permet de choisir la sortie audio qui doit être diffusée dans le casque d'écoute.

**PRINCIPALE:**
Permet d'écouter le son de l'image principale avec le casque.

**SECONDAIRE:**
Permet d'écouter le son de l'image secondaire avec le casque.

- Lorsque l'image secondaire est un programme de télévision, le son devient monophonique.

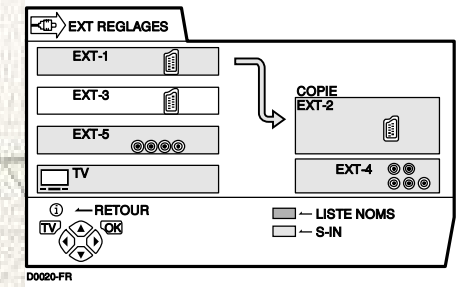
**3 Appuyez sur la touche OK**

**Conseil:**
Lorsqu'une image secondaire est affichée, vous pouvez en écouter le son par le casque et écouter le son de l'image principale par les haut-parleurs du téléviseur. Pour ce faire, réglez H.P. TV sur OUI et SORTIE IMAGE sur SECONDAIRE.

- Le casque d'écoute ne fonctionne pas avec les réglages de son GRAVES, AIGUS, BBE, A.H.B. et SON 3D.

# EXT REGLAGES

Reportez-vous à la section “Utilisation du menu du téléviseur” (voir page 20) pour plus de détails sur l’affichage du menu.




## S-IN (entrée S-VIDEO)

Lors du raccordement d’un appareil (comme un magnétoscope S-VHS) qui permet l’émission d’un signal S-VIDEO (signal Y/C), vous pouvez apprécier l’image de haute qualité du signal S-VIDEO (signal Y/C).

**Préparation:**

- Avant toute chose, lisez le manuel d’utilisation de l’appareil et du “Autres préparatifs” à la page 37 afin d’apprendre comment raccorder l’appareil correctement au téléviseur. Ensuite, suivez le manuel d’utilisation de l’appareil pour le régler de manière qu’il puisse émettre un signal S-VIDEO (signal Y/C) vers le téléviseur.
- Ne réglez pas l’entrée S-IN (entrée S-VIDEO) sur la borne EXT raccordée à un appareil qui ne peut pas émettre de signal S-VIDEO (signal Y/C). Si les réglages sont incorrects, aucune image n’apparaîtra.

**1 Sélectionnez une borne EXT**

**2 Appuyez sur la touche jaune et réglez l’entrée S-IN (entrée S-VIDEO).**
**Appuyez ensuite sur la touche OK**

Un symbole S-IN (entrée S-VIDEO) s’affiche. Vous pouvez voir un signal S-VIDEO (signal Y/C) au lieu du signal vidéo normal (signal composite).

**Pour annuler le réglage S-IN (entrée S-VIDEO):**
Appuyez sur la touche jaune pour effacer le symbole S-IN (entrée S-VIDEO). Les images du signal vidéo normal (signal composite) réapparaissent.

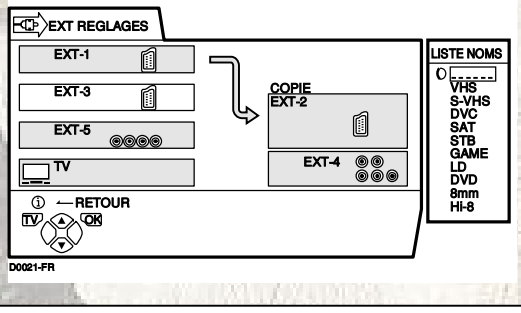
- La borne EXT-1 ne reconnaît pas le signal S-VIDEO (signal Y/C) et il n’est pas possible de régler S-IN (entrée S-VIDEO) à la borne EXT-1.
- Le réglage de S-IN (entrée S-VIDEO) change le premier caractère, de “E” en “S”. Par exemple, “E2” devient “S2”.
- Même un appareil qui permet l’émission d’un signal S-VIDEO (signal Y/C) peut diffuser un signal vidéo normal (signal composite) en fonction des réglages définis. Si une image ne peut pas s’afficher parce qu’un S-IN (entrée S-VIDEO) a été effectué, relisez attentivement le manuel d’utilisation pour vérifier les réglages de l’appareil.

## LISTE NOMS

Vous pouvez assigner un nom aux appareils raccordés à chaque entrée EXT. L’attribution d’un nom à une borne EXT entraîne l’affichage du numéro de la borne EXT et de son nom.

**1 Sélectionnez une borne EXT**

**2 Appuyez sur la touche bleue pour afficher la liste des noms (LISTE NOMS)**




**3 Appuyez sur les touches ▼/▲ pour sélectionner un nom. Appuyez ensuite sur la touche OK**

La LISTE NOMS disparaît et le nom est assigné à l’entrée EXT.

- Vous ne pouvez pas assigner à la borne EXT un nom qui n’apparaît pas dans la liste (LISTE NOMS).

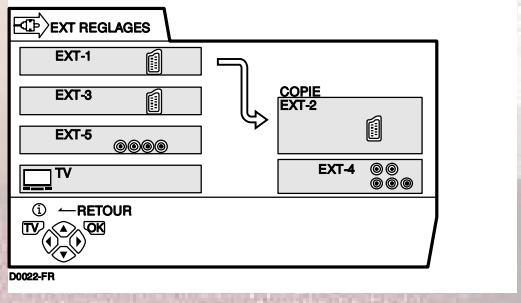
**Pour supprimer un nom attribué à une entrée EXT:**
Sélectionnez un espace vierge.

**4 Appuyez sur la touche OK pour valider le réglage**

## COPIE

Vous pouvez sélectionner la source d’un signal à diffuser par une borne EXT-2.
Vous pouvez sélectionner n’importe quel signal de sortie de l’appareil raccordé à la borne EXT ainsi que l’image et le son du canal TV que vous regardez pour le diffuser par la borne EXT-2.

**1 Appuyez sur les touches ◄/► pour sélectionner la flèche dans le menu**



**2 Appuyez sur les touches ▼/▲ pour sélectionner une borne EXT ou TV.**
**Appuyez ensuite sur la touche OK**

La flèche dans le menu représente le débit des signaux. Le côté gauche de la flèche indique la diffusion d'une source de signaux par la borne EXT-2.

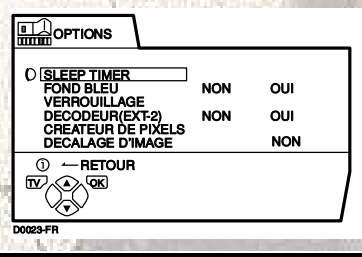
**EXT-1/EXT-3/EXT-5:**
Le signal de sortie de l'appareil raccordé à une borne EXT passe par le téléviseur et est diffusé par la borne EXT-2.

**TV:**
L'image et le son de la chaîne TV que vous regardez sont diffusés par la borne EXT-2.

- Pendant la copie, vous ne pouvez pas éteindre le téléviseur. La mise hors tension du téléviseur couperait également l'émission de signaux diffusés par la borne EXT-2.
- Lorsque vous sélectionnez une borne EXT comme sortie, vous pouvez regarder une émission TV ou l'image envoyée par l'autre borne EXT pendant la copie de l'image d'un appareil raccordé à la borne EXT sur un magnétoscope raccordé à la borne EXT-2.
- Les signaux RGB des jeux TV ne peuvent pas être diffusés. Les programmes de télétexte ne peuvent pas être diffusés.

# OPTIONS

Reportez-vous à la section “Utilisation du menu du téléviseur” (voir page 20) pour plus de détails sur l’affichage du menu.

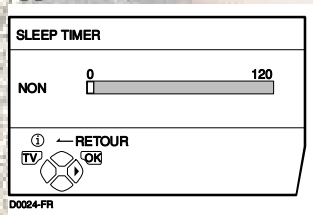



## SLEEP TIMER

Vous pouvez programmer le téléviseur pour qu’il s’éteigne automatiquement après un certain temps.

**1 Sélectionnez SLEEP TIMER puis appuyez sur la touche OK**

Un menu secondaire de la fonction SLEEP TIMER apparaît.




**2 Appuyez sur les touches ◀/▶ pour régler le laps de temps. Appuyez ensuite sur la touche OK**

Vous pouvez définir un laps de temps d’un maximum de 120 minutes (2 heures), par pas de 10 minutes.

- Une minute avant que la fonction SLEEP TIMER n’éteigne le téléviseur, l’indication “BONNE NUIT!” s’affiche.
- La fonction SLEEP TIMER ne peut cependant pas servir à couper l’alimentation principale du téléviseur.
- Lorsque la fonction SLEEP TIMER est activée, vous pouvez en réafficher le menu secondaire SLEEP TIMER pour contrôler et/ou changer la durée restante SLEEP TIMER. Appuyez sur la touche **OK** pour quitter le menu après avoir contrôlé et/ou modifié le temps restant.

**Pour annuler la fonction SLEEP TIMER:**

Appuyez sur la touche ◀ pour régler le laps de temps sur “NON”.

## FOND BLEU

Vous pouvez programmer le téléviseur pour que l’écran devienne automatiquement bleu et couper le son lors de la réception d’un signal trop faible, lorsque aucun signal n’est reçu ou en l’absence de toute entrée provenant d’un appareil extérieur.

**OUI:**

La fonction est activée.

**NON:**

La fonction est désactivée.

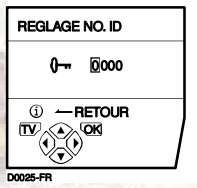
## VERROUILLAGE

Lorsque vous souhaitez que vos enfants ne regardent pas certains canaux, vous pouvez utiliser la fonction VERROUILLAGE pour verrouiller ces derniers. Si l’enfant sélectionne un numéro de programme (PR) sous lequel est mémorisée un canal verrouillé, l’écran devient bleu et affiche 🔒 (VERROUILLAGE), de sorte qu’il lui est impossible d’accéder à ce canal. A moins d’entrer un numéro ID prédéfini en effectuant une opération particulière, il est impossible de désactiver le verrouillage, et tout accès à ces canaux est impossible pour l’enfant.

### ■ Pour régler la fonction VERROUILLAGE

**1 Sélectionnez VERROUILLAGE puis appuyez sur la touche 0 (AV)**

“REGLAGE NO. ID” (ID écran de réglage du numéro ) apparaît.



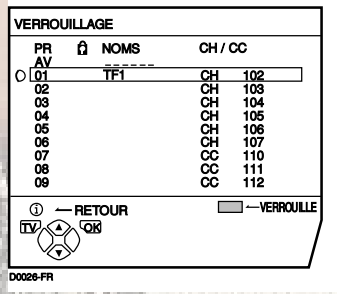

**2 Entrez le numéro ID de votre choix**

**1 Appuyez sur les touches ▼/▲ pour sélectionner un numéro.**

**2 Appuyez sur les touches ◀/▶ pour déplacer le curseur.**

**3 Appuyez sur la touche OK**

Le menu secondaire de VERROUILLAGE apparaît.




**4 Appuyez sur les touches ▼/▲ pour sélectionner un canal TV**

Chaque fois que vous appuyez sur les touches ▼/▲, le numéro de programme (PR) change et l’image du canal TV mémorisé sous ce numéro de programme (PR) apparaît à l’écran.

**5 Appuyez sur la touche bleue pour activer la fonction VERROUILLAGE. Appuyez ensuite sur la touche OK**

🔒 (VERROUILLAGE) s’affiche pour indiquer que ce canal TV est verrouillé.

**Pour réinitialiser la fonction VERROUILLAGE:**

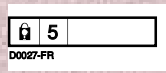
Appuyez à nouveau sur la touche bleue.
🔒 (VERROUILLAGE) disparaît.

Afin d’éviter une réinitialisation trop facile de la fonction VERROUILLAGE, le menu disparaît si vous sélectionnez la fonction VERROUILLAGE et appuyez sur la touche **OK**, comme pour les opérations de menu normales.

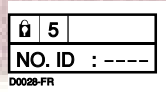
### ■ Pour regarder une chaîne TV verrouillée

**1 À l’aide des touches numériques ou de la LISTE PROG., sélectionnez un numéro de programme (PR) correspondant à un canal TV verrouillé**

L’écran devient bleu et le symbole 🔒 (VERROUILLAGE) s’affiche. Il est impossible de voir ce canal.




**2 Appuyez sur la touche ⓘ (Informations) pour afficher “NO. ID” (écran d’entrée du NO. ID)**



**3 A l'aide des touches numériques, entrez le numéro ID**

Le verrouillage est provisoirement levé pour vous permettre de regarder le canal TV.

**Si vous avez oublié le numéro ID:**

Effectuez l'opération 1 de la procédure "Pour régler la fonction VERROUILLAGE". Après avoir vérifié le numéro ID, appuyez sur la touche **TV** pour quitter le menu.

- Même si vous supprimez temporairement le verrouillage, cela ne signifie pas que la fonction VERROUILLAGE soit annulée pour le canal TV en question. La prochaine fois que quelqu'un essaiera de regarder ce canal, le verrouillage sera à nouveau actif.
- Pour annuler la fonction VERROUILLAGE, vous devez à nouveau exécuter la procédure "Pour régler la fonction VERROUILLAGE".
- Afin d'éviter la sélection trop facile d'un numéro de programme (PR) sous lequel un canal TV verrouillé a été enregistré, le numéro de programme (PR) a été configuré de façon à ne pas pouvoir être sélectionné à l'aide des touches ▼/▲ ou des boutons de commande du téléviseur.
- Afin d'éviter une réinitialisation trop facile du verrouillage, "NO. ID" (écran d'entrée du NO. ID) est configuré de façon à ne pas apparaître tant que vous n'appuyez pas sur la touche ⓘ (Informations).

## DECODEUR (EXT-2)

Vous ne pouvez utiliser cette fonction que si vous raccordez un décodeur avec un magnétoscope compatible T-V LINK à la borne EXT-2. Pour l'utiliser, reportez-vous à la section "Utilisation de la fonction DECODEUR (EXT-2)" à la page 36.

**Attention**

- Si vous n'avez pas raccordé un décodeur avec un magnétoscope compatible T-V LINK connecté à la borne EXT-2, le réglage accidentel de cette fonction sur "OUI" provoque la suppression de l'image et du son du canal TV que vous regardez.

## CREATEUR DE PIXELS

Lorsque la rémanence est minimale, la rémanence et les images résiduelles peuvent être atténuées à l'aide de la fonction CREATEUR DE PIXELS.

**1 Sélectionnez CREATEUR DE PIXELS**

**2 Appuyez sur la touche OK**

De la neige apparaît à l'écran. Laissez le téléviseur dans cette situation pendant quelques heures.

**3 Après quelques heures, appuyez sur le bouton du téléviseur, sur les touches numériques ou sur la touche ⏻/I**

Appuyez sur le bouton ⏻ du téléviseur.

La fonction CREATEUR DE PIXELS n'a aucun effet si elle n'est utilisée que pendant une brève période.

## DECALAGE D'IMAGE

L'image affichée à l'écran se déplace vers le haut, le bas, la gauche et la droite à intervalles réguliers. Afin d'éviter l'effet de rémanence, réglez cette fonction sur RAPIDE ou LENT.

**1 Sélectionnez DECALAGE D'IMAGE**

**2 Appuyez sur les touches ◀/▶ pour sélectionner un mode**

**NON:**
La fonction DECALAGE D'IMAGE est désactivée.

**LENT:**
L'image se déplace toutes les 30 minutes.

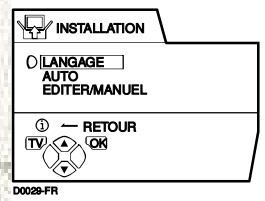
**RAPIDE:**
L'image se déplace toutes les 10 minutes.

**3 Appuyez sur la touche OK**

Le menu disparaît

# INSTALLATION

Reportez-vous à la section “Utilisation du menu du téléviseur” (voir page 20) pour plus de détails sur l’affichage du menu.




## LANGAGE

Vous pouvez sélectionner la langue que vous souhaitez utiliser pour les messages à l’écran dans la liste de langues du menu.

**1 Sélectionnez LANGAGE puis appuyez sur la touche OK**

Le menu secondaire de la fonction LANGAGE apparaît.

**2 Appuyez sur les touches ◄/► et ▼/▲ pour sélectionner une langue. Appuyez ensuite sur la touche OK**

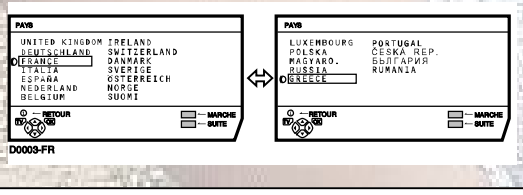
## AUTO

Vous pouvez mémoriser automatiquement sous les numéros de programme du téléviseur (PR) les canaux TV que vous captez bien. Pour ce faire, procédez comme suit.

**1 Sélectionnez AUTO. Appuyez ensuite sur la touche OK**

Le menu PAYS apparaît en tant que sous-menu de la fonction AUTO.

Il existe deux menus PAYS. Si vous appuyez sur la touche jaune, le menu PAYS change de la façon suivante:

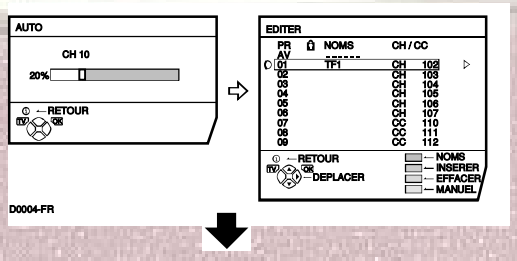



**2 Appuyez sur les touches ◄/► et ▼/▲ pour choisir le pays où vous vous trouvez**

**3 Appuyez sur la touche bleue pour démarrer la fonction AUTO**

Le menu AUTO s’affiche et les canaux TV captés sont automatiquement enregistrés sous les numéros de programmes (PR).

- Pour annuler la fonction AUTO, appuyez sur la touche ***TV***.




**Après que les chaînes TV ont été enregistrées sous les numéros de programmes (PR), le menu EDITER s’affiche.**

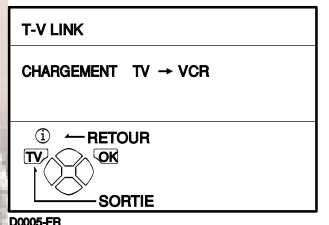
- Vous pouvez alors commencer à éditer les numéros de programmes (PR) à l’aide de la fonction EDITER/MANUEL. Pour plus de détails, voir “EDITER/MANUEL” à la page 32.
- Si vous n’avez pas besoin de la fonction EDITER/MANUEL, passez à l’étape suivante.

**Si “ACI DEPART/ACI SAUT” s’affiche dans le menu AUTO:**

Vous pouvez utiliser la fonction ACI (Installation automatique des canaux) pour décoder les données ACI et effectuer rapidement l’enregistrement de tous les canaux de télévision. Pour plus de détails concernant la fonction ACI et la façon de l’utiliser, voir “Utilisation de la fonction ACI” à la page 35.

Si vous ne souhaitez pas utiliser la fonction ACI, appuyez sur ▼/▲ pour sélectionner ACI SAUT et appuyez ensuite sur **OK**.

**4 Appuyez sur la touche OK pour afficher le menu T-V LINK**




**5 Si le magnétoscope raccordé n’est pas compatible T-V LINK:**

Appuyez sur la touche ***TV*** pour quitter le menu T-V LINK.

**Si le magnétoscope raccordé à la borne EXT-2 est compatible T-V LINK:**

Suivez la procédure “Téléchargement de données vers un magnétoscope” à la page 35 pour transmettre les données de numéros de programme (PR).

- Lorsque votre téléviseur parvient à détecter le nom du canal TV à partir du signal d’émission, il enregistre automatiquement ce nom (NOMS) dans le numéro de programme (PR) sous lequel le canal est enregistré.
- Si un canal TV que vous souhaitez regarder n’est pas repris sous un numéro de programme (PR), vous devez le programmer manuellement à l’aide de la fonction MANUEL. Pour plus de détails, voir “EDITER/MANUEL” à la page 32.
- Le canal TV n’est pas enregistré sous un numéro de programme PR 0 (AV). Pour enregistrer un canal TV dans PR 0 (AV), programmez-le manuellement à l’aide de la fonction MANUEL. Pour plus de détails, voir “EDITER/MANUEL” à la page 32.

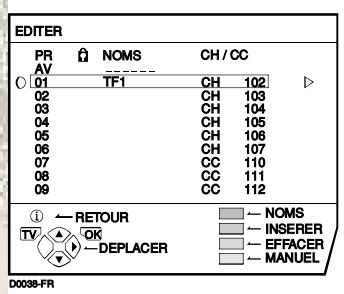
# EDITER/MANUEL

Les fonctions EDITER/MANUEL sont divisées en deux types: l'édition des numéros de programme sélectionnés (PR) (fonctions EDITER) et l'enregistrement manuel d'un canal TV de votre choix sous un numéro de programme (PR) (fonction MANUEL). Vous trouverez ci-dessous tous les détails concernant ces fonctions:

## Attention

- L'utilisation de la fonction DEPLACER, EFFACER ou INSERER modifie la liste courante des numéros de programmes (PR). Dès lors, les numéros de programmes (PR) de certains canaux TV changeront.
- L'utilisation de la fonction MANUEL pour un canal verrouillé par le biais de la fonction VERROUILLAGE annule la fonction VERROUILLAGE pour ce canal.
- L'utilisation de la fonction MANUEL pour un canal TV dont la fonction DECODEUR (EXT-2) est réglée sur OUI remet le réglage de cette fonction DECODEUR (EXT-2) sur NON pour ce canal.
- Lorsqu'un canal TV a déjà été programmé dans PR 99, l'utilisation de la fonction INSERER supprime le canal.

### 1 Sélectionnez EDITER/MANUEL puis appuyez sur la touche OK




- Pour le numéro de programme PR 0, "AV" s'affiche dans la liste des numéros de programmes (PR).
- Un numéro de borne EXT n'apparaît pas dans la liste des numéros de programmes (PR).
- Le numéro CH/CC est un numéro unique pour le téléviseur et correspond au numéro de canal d'un émetteur TV. Pour connaître les rapports entre un numéro de canal et un numéro CH/CC, voir "Numéros CH/CC" à la page 39.

### 2 Suivez les explications concernant la fonction que vous souhaitez utiliser

**DEPLACER:**
Cette fonction permet de changer le numéro de programme (PR) d'un canal TV.

**NOMS:**
Cette fonction permet d'attribuer un nom (NOMS) à un canal TV.

**INSERER:**
Cette fonction permet d'ajouter un nouveau canal TV à la liste courante des numéros de programmes (PR) par le biais du numéro CH/CC.

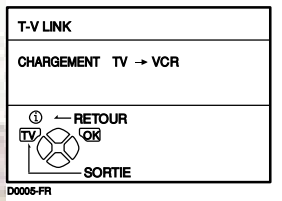
- Vous ne pouvez pas utiliser la fonction INSERER si vous ne connaissez pas le numéro de canal d'un émetteur TV. Utilisez la fonction MANUEL pour enregistrer un canal TV sous le numéro de programme (PR).

**EFFACER:**
Cette fonction permet de supprimer tout canal TV inutile.

**MANUEL:**
Cette fonction permet d'enregistrer manuellement un nouveau canal TV sous un numéro de programme (PR).

### 3 Appuyez sur la touche OK pour valider les réglages

Le menu T-V LINK apparaît.




### 4 Si le magnétoscope raccordé n'est pas compatible T-V LINK:

Appuyez sur la touche **TV** pour quitter le menu T-V LINK.
Le menu T-V LINK disparaît et tous les réglages sont terminés.

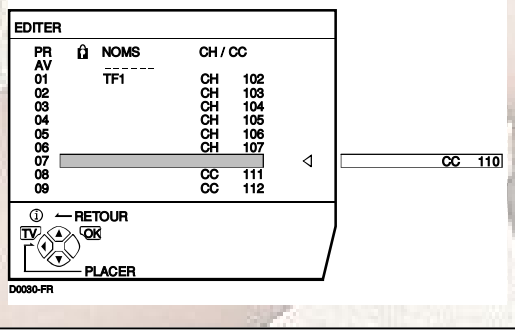
**Si le magnétoscope raccordé à la borne EXT-2 est compatible T-V LINK:**
Suivez la procédure "Téléchargement de données vers un magnétoscope" à la page 35 pour transmettre les données de numéro de programme (PR) au magnétoscope.

## ■ DEPLACER

### 1 Appuyez sur les touches ▼/▲ pour sélectionner un canal TV

Chaque fois que vous appuyez sur les touches ▼/▲, le numéro de programme (PR) change et l'image du canal TV mémorisé sous ce numéro de programme (PR) apparaît à l'écran.

### 2 Appuyez sur la touche ▶ pour lancer la fonction DEPLACER




### 3 Appuyez sur les touches ▼/▲ pour sélectionner un nouveau numéro de programme (PR)

**Pour annuler la fonction DEPLACER:**
Appuyez sur la touche ⓘ (Informations).

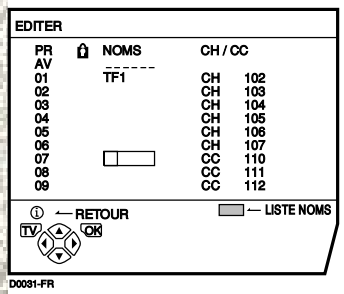
### 4 Appuyez sur la touche ◀ pour changer le numéro de programme (PR) d'un canal TV et lui attribuer un nouveau numéro (PR)

## ■ NOMS

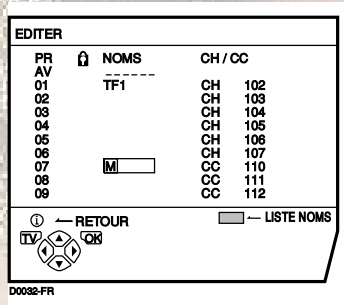
### 1 Appuyez sur les touches ▼/▲ pour sélectionner un canal TV

Chaque fois que vous appuyez sur les touches ▼/▲, le numéro de programme (PR) change et l'image du canal TV mémorisé sous ce numéro de programme (PR) apparaît à l'écran.

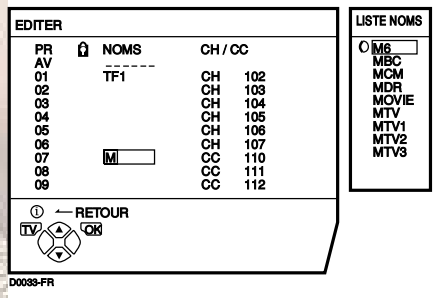
### 2 Appuyez sur la touche rouge pour lancer la fonction NOMS




### 3 Appuyez sur les touches ▼/▲ pour sélectionner le premier caractère du nom (NOMS) que vous voulez attribuer à ce canal




### 4 Appuyez sur la touche bleue pour afficher LISTE NOMS (la liste des noms de chaînes)




### 5 Appuyez sur les touches ▼/▲ pour sélectionner le nom du canal (NOMS)

**Pour annuler la fonction NOMS:**
Appuyez sur la touche ⓘ (Informations).

### 6 Appuyez sur la touche OK pour attribuer un nom de chaîne (NOMS) à un canal TV

- Vous pouvez attribuer un nom de canal unique (NOMS) à cet émetteur TV. Lorsque l'opération 3 est terminée, ne passez pas directement à l'étape 4, mais appuyez sur les touches ◄/► pour déplacer le curseur et sur les touches ▼/▲ pour sélectionner un caractère afin de compléter le nom de la chaîne (NOMS). Appuyez ensuite sur la touche **OK** pour attribuer ce nom (NOMS) au canal TV.

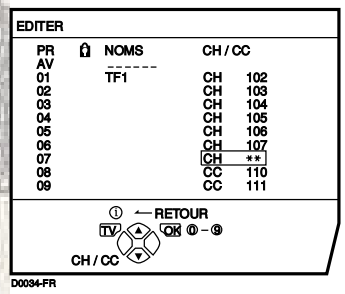
## ■ INSERER

**Préparation:**

- Vous devez disposer pour ce téléviseur d'un numéro CH/CC unique et correspondant au numéro de canal d'un émetteur TV. Trouvez le numéro CH/CC correspondant dans le tableau "Numéros CH/CC" à la page 39 en fonction du numéro de canal de l'émetteur TV.
- Si le paramètre PAYS n'est pas FRANCE, utilisez un numéro CH/CC à deux chiffres. Si le paramètre PAYS est FRANCE, utilisez un numéro CH/CC à trois chiffres.
- Lorsque vous ajoutez un canal d'un émetteur français (système SECAM-L) – et dans ce cas uniquement, réglez toujours le paramètre PAYS sur FRANCE. Si le paramètre PAYS n'est pas FRANCE, suivez les explications fournies à la section "Modification du réglage PAYS" à la page 36 pour configurer le paramètre PAYS sur FRANCE; lancez ensuite la fonction INSERER.

### 1 Appuyez sur les touches ▼/▲ pour sélectionner un numéro de programme (PR) sous lequel vous souhaitez mémoriser un nouveau canal TV

### 2 Appuyez sur la touche verte puis lancez la fonction INSERER




### 3 Appuyez sur les touches ▼/▲ pour sélectionner "CC" ou "CH" en fonction du numéro CH/CC du canal TV.

**Lorsque le paramètre PAYS indique FRANCE:**
Sélectionnez "CH1", "CH2", "CC1" ou "CC2".

**Pour annuler la fonction INSERER:**
Appuyez sur la touche ⓘ (Informations).

### 4 Appuyez sur les touches numériques pour entrer le numéro CH/CC restant

Le téléviseur passe en mode mémorisation.
Lorsque la mémorisation est terminée, l'image du canal TV apparaît à l'écran.

- Le numéro CH/CC est un numéro indiquant la fréquence de radiodiffusion destinée au téléviseur. Si le téléviseur ne parvient pas à détecter le canal TV correspondant à la fréquence de radiodiffusion indiquée par le numéro CH/CC, une image sans signaux (vierge) apparaît.

## ■ EFFACER

**1 Appuyez sur les touches ▼/▲ pour sélectionner un canal TV**

Chaque fois que vous appuyez sur les touches ▼/▲, le numéro de programme (PR) change et l'image du canal TV mémorisé sous ce numéro de programme (PR) apparaît à l'écran.

**2 Appuyez sur la touche jaune pour supprimer le canal TV**

Ce dernier est alors supprimé de la liste des numéros de programmes (PR).

## ■ MANUEL

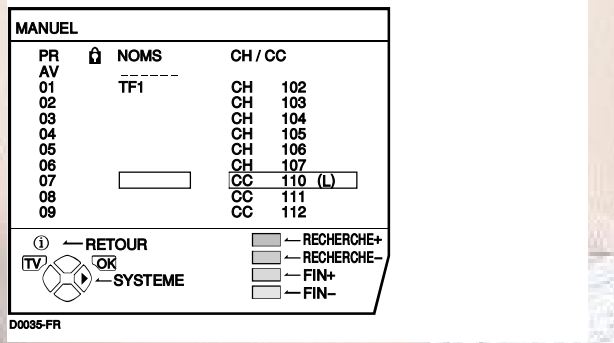
**Préparation:**

- Tant que vous ajoutez des canaux TV d'émetteurs français (système SECAM-L), n'oubliez pas de configurer le paramètre PAYS sur FRANCE. Si le paramètre PAYS n'est pas FRANCE, suivez les explications fournies à la section "Modification du réglage PAYS" à la page 36 pour configurer le paramètre PAYS sur FRANCE; lancez ensuite la fonction MANUEL.

**1 Appuyez sur les touches ▼/▲ pour sélectionner un numéro de programme (PR) sous lequel vous souhaitez mémoriser un nouveau canal TV**

**2 Appuyez sur la touche bleue pour activer la fonction MANUEL**

A droite, à la suite du numéro CH/CC, s'affiche l'indication SYSTEME (système de radiodiffusion) du canal TV.




**Pour annuler la fonction MANUEL:**
Appuyez sur la touche ⓘ (Informations).

**3 Appuyez sur la touche ► pour sélectionner le SYSTEME (système de radiodiffusion) d'un canal TV que vous souhaitez mémoriser**

**Pour les canaux TV français (système SECAM-L):**
Configurez le paramètre SYSTEME sur "L". Si vous choisissez une autre valeur que "L", vous ne pourrez recevoir aucun canal du système SECAM-L.

**Autres canaux TV:**
Si vous ne connaissez pas le système de radiodiffusion correct, configurez le paramètre SYSTEME sur "B/G". Si "B/G" n'est pas le choix correct, vous n'obtiendrez pas un son normal lorsque le téléviseur détectera un canal TV. Dans ce cas, essayez à nouveau de régler correctement la fonction SYSTEME pour éviter ce problème.

**4 Appuyez sur la touche verte ou rouge pour rechercher un canal**

Le balayage s'arrête lorsque le téléviseur a localisé un canal. Ce dernier apparaît alors à l'écran.

**5 Appuyez de manière répétitive sur la touche verte ou rouge jusqu'à ce que le canal TV souhaité apparaisse**

**Si la réception du canal est mauvaise:**
Appuyez sur la touche bleue ou jaune pour obtenir une syntonisation précise de l'émetteur.

**Si vous ne parvenez pas à obtenir un son normal alors même que l'image est correcte:**
Le paramètre SYSTEME est erroné. Appuyez sur la touche ► pour sélectionner un SYSTEME où le son est normal.

**6 Appuyez sur la touche OK pour enregistrer le canal TV sous un numéro de programme (PR)**

Le menu normal EDITER s'affiche à nouveau.

# Fonctions supplémentaires des menus

## Utilisation de la fonction ACI

Ce téléviseur possède une fonction ACI qui décode les données ACI (Installation automatique des canaux). La fonction ACI permet d'enregistrer correctement et rapidement tous les canaux de télévision diffusés par la station de télévision par câble, conformément aux données fournies par cette dernière.

### Attention

- Si votre station de télévision par câble diffuse des données ACI et que "ACI DEPART/ACI SAUT" s'affiche dans le menu AUTO, la fonction ACI est activée. Dans tous les autres cas, elle est désactivée.

**1 Appuyez sur les touches ▼/▲ pour sélectionner ACI DEPART. Appuyez ensuite sur la touche OK pour démarrer la fonction ACI**

**Si vous ne voulez pas utiliser la fonction ACI:**
Appuyez sur les touches ▼/▲ pour sélectionner ACI SAUT puis appuyez sur la touche **OK**.

**Si le menu AUTO laisse la place à un autre menu:**
Certaines stations de télévision par câble diffusent leur propre menu de sélection de diffusion.
Suivez les indications du menu et appuyez sur les touches ◄/► et ▼/▲ pour utiliser le menu. Lorsque le réglage est terminé, appuyez sur la touche **OK**.

**Si "ACI ERREUR" s'affiche dans le menu AUTO:**
"ACI ERREUR" signifie que la fonction ACI ne fonctionne pas correctement. Appuyez sur la touche **OK** pour relancer la fonction ACI.
Si "ACI ERREUR" continue à s'afficher après plusieurs tentatives de redémarrage de la fonction ACI, appuyez sur la touche ► pour lancer la fonction AUTO. Cela ne posera pas de problème puisque toutes les chaînes de télévision ont été enregistrées dans les chaînes PR par la fonction AUTO.

**2 Lorsque les réglages sont terminés, le menu EDITER s'affiche. Revenez aux instructions précédemment affichées et poursuivez**

**Lorsque les "Réglages initiaux" sont terminés:**
Revenez à l'étape 6 de la fonction "Réglages initiaux", page 11.

**Lorsque les "AUTO" sont terminés:**
Revenez à l'étape 4 de la fonction "AUTO", page 31.

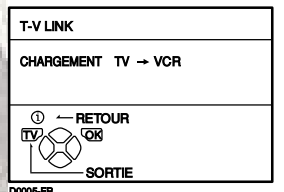
- Pour toute question sur les rubriques du menu de sélection de diffusion ou sur la façon d'utiliser le menu, contactez votre station de télévision par câble.
- Si la réception par câble est mauvaise, c'est que la fonction ACI n'opère pas correctement.
- Si les données ACI proprement dites renferment une erreur, il est impossible d'enregistrer correctement le canal de télévision. Dans ce cas, désactivez la fonction ACI (ACI SAUT) et utilisez la fonction AUTO. Vous pouvez aussi corriger le réglage de la chaîne EDITER/MANUEL à l'aide de la fonction (PR).

## Téléchargement de données vers un magnétoscope

Vous pouvez transmettre les dernières informations de numéros de programmes (PR) au magnétoscope à l'aide de la fonction T-V LINK.

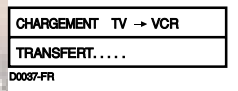
### Attention

- Cette opération n'est possible que si un magnétoscope compatible T-V LINK est raccordé à la borne EXT-2.
- Cette opération n'est possible que lorsque le menu T-V LINK est affiché.




**1 Mettez le magnétoscope sous tension**

**2 Appuyez sur la touche OK**
La transmission des données commence.




Le menu T-V LINK disparaît à la fin de la transmission des données.

**Lorsque le menu T-V LINK est remplacé par un autre menu:**
Les opérations côté téléviseur sont terminées et laissent la place aux opérations commandées par menu du magnétoscope. Pour plus de détails, reportez-vous au manuel d'utilisation de votre magnétoscope.

Si le message "FONCTION NON DISPONIBLE" s'affiche dans le menu T-V LINK, vérifiez si les trois éléments suivants sont corrects; appuyez ensuite sur la touche **OK** pour reprendre la transmission des données.

- Un magnétoscope compatible T-V LINK est-il bien raccordé à la borne EXT-2?
- Le magnétoscope est-il sous tension?
- Les connexions du câble SCART raccordé à la borne EXT-2 et au magnétoscope compatible T-V LINK sont-elles correctes?

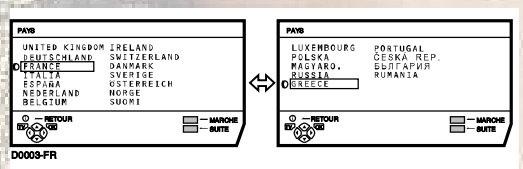
## Modification du réglage PAYS

Une fois la fonction AUTO terminée, vous pouvez changer le pays que vous avez déjà configuré à l'aide de la fonction AUTO.
Vous devez également effectuer cette opération pour changer de pays lorsque vous enregistrez des canaux pour des émetteurs français (système SECAM-L).

**1 Affichez le menu INSTALLATION**

**Lorsque le menu EDITER est affiché:**
Appuyez sur la touche ⓘ (Informations) pour revenir au menu INSTALLATION.

**2 Appuyez sur les touches ▼/▲ pour sélectionner AUTO. Appuyez ensuite sur la touche OK**
Le menu PAYS apparaît en tant que sous-menu de la fonction AUTO.
Il existe deux menus PAYS. Si vous appuyez sur la touche jaune, le réglage PAYS change de la façon suivante:



D0003-FR

**3 Appuyez sur les touches ◄/► et ▼/▲ pour sélectionner un pays**

**4 Appuyez sur la touche OK pour valider le réglage**
Le menu disparaît.

**Pour revenir au menu INSTALLATION à partir du menu PAYS:**
Appuyez sur la touche ⓘ (Information) au lieu de la touche **OK**.

## Utilisation de la fonction DECODEUR (EXT-2)

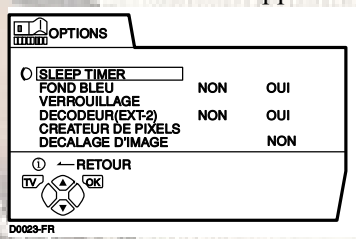
Lorsque vous raccordez un décodeur à un magnétoscope compatible T-V LINK connecté à la borne EXT-2, vous pouvez utiliser la fonction DECODEUR (EXT-2) pour décrypter les canaux TV cryptés.

**1 Mettez le décodeur sous tension**

**2 Affichez sur le téléviseur le canal TV que le décodeur est capable de décrypter**
A ce stade, même si le décodeur est en service, l'image qui s'affiche est cryptée.

**3 Appuyez sur la touche OK pour afficher le MENU**
Le MENU (menu principal) apparaît.

**4 Appuyez sur les touches ▼/▲ pour sélectionner OPTIONS. Appuyez ensuite sur la touche OK**
Le menu OPTIONS apparaît.

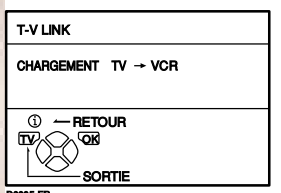


D0023-FR

**5 Appuyez sur les touches ▼/▲ pour sélectionner DECODEUR (EXT-2). Appuyez ensuite sur les touches ◄/► pour sélectionner OUI**
L'image qui s'affiche doit à présent être décryptée.

**Pour annuler la fonction DECODEUR (EXT-2):**
Appuyez sur les touches ◄/► pour sélectionner NON.

**6 Appuyez sur la touche OK pour valider le réglage**
Le menu T-V LINK apparaît.



D0005-FR

**7 Suivez la procédure "Téléchargement de données vers un magnétoscope" à la page 35 pour transmettre les données de numéro de programme (PR) au magnétoscope**

**8 Si un autre canal peut être décrypté par le décodeur, répétez les opérations 2 à 7**

Si, pour quelque raison que ce soit, la fonction DECODEUR (EXT-2) est activée ("OUI") sans que vous parveniez à décrypter le canal TV, vérifiez ce qui suit:

- Le décodeur est-il correctement raccordé au magnétoscope, conformément aux instructions fournies dans les manuels d'utilisation du magnétoscope et du décodeur?
- Le décodeur est-il sous tension?
- Le canal TV peut-il être décrypté à l'aide d'un décodeur?
- Faut-il modifier les réglages du magnétoscope pour pouvoir y connecter le décodeur? Vérifiez si le magnétoscope est bien réglé, en vous référant au manuel d'utilisation de ce dernier.

# Autres préparatifs

## Raccordement des appareils externes

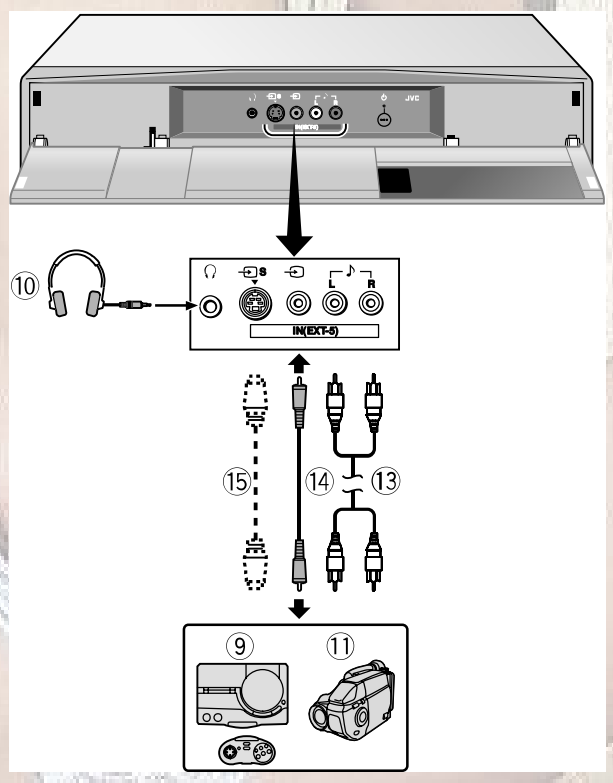
Raccordez les appareils au téléviseur, en suivant attentivement les schémas de raccordement suivants.

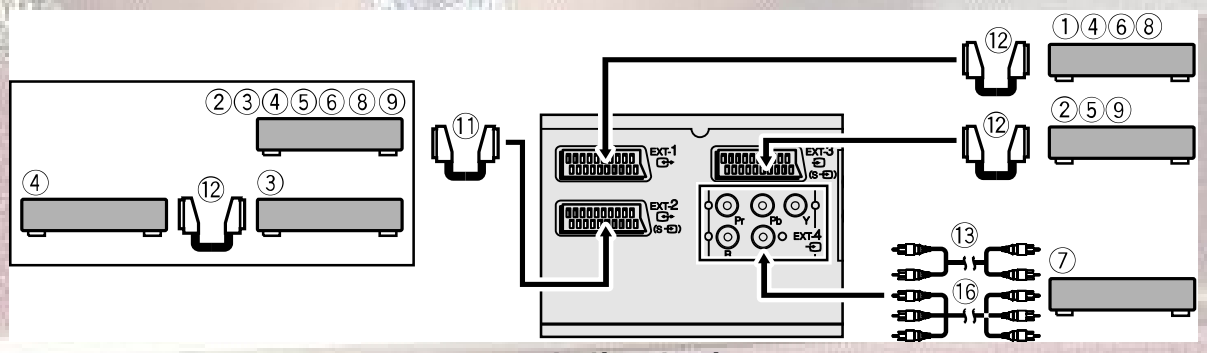
**Avant de raccorder tout appareil:**

- Lisez les manuels fournis avec les appareils. En fonction des appareils, la méthode de raccordement peut différer de celle présentée dans l'illustration. En outre, il se peut que les réglages de l'appareil doivent être modifiés en fonction de la méthode de raccordement, pour assurer un fonctionnement correct.
- Mettez tous les appareils hors tension, y compris le téléviseur.
- La section "Spécifications techniques" à la page 42 reprend tous les détails relatifs aux entrées EXT. Si vous voulez raccorder un appareil qui n'est pas repris dans le schéma de raccordement suivant, reportez-vous au tableau pour sélectionner l'entrée EXT la plus appropriée.
- Les câbles de raccordement ne sont pas fournis.

① Magnétoscope (signal composite)
② Magnétoscope (signal composite/signal S-VIDEO)
③ Magnétoscope compatible T-V LINK (signal composite/signal S-VIDEO)
④ Décodeur
⑤ Lecteur DVD (signal composite/signal S-VIDEO)
⑥ Lecteur DVD (signal composite/signal RGB)
⑦ Lecteur DVD (signaux vidéo à composantes; Pr/Pb/Y)
⑧ Jeu TV (signal composite/signal RGB)
⑨ Jeu TV (signal composite/signal S-VIDEO)
⑩ Casque d'écoute
⑪ Caméra vidéo (signal composite/signal S-VIDEO)
⑫ Câble SCART
⑬ Câble audio
⑭ Câble vidéo
⑮ Câble S-VIDEO
⑯ Câble d'élément

**Avant du récepteur**




**Arrière du récepteur**

## ■ Appareils pouvant émettre le signal S-VIDEO (signal Y/C), un magnétoscope S-VHS par exemple

Raccordez l'appareil à une entrée EXT autre que l'entrée EXT-1.
Vous pouvez sélectionner un signal d'entrée vidéo S-VIDEO (signal Y/C) ou un signal vidéo normal (signal composite). Pour plus de détails sur le fonctionnement de l'appareil, voir "S-IN (entrée S-VIDEO)" à la page 27.

## ■ Magnétoscope compatible T-V LINK

Veillez à toujours raccorder le magnétoscope compatible T-V LINK à la borne EXT-2. Sinon, la fonction T-V LINK ne donnera pas les résultats escomptés.

- Lorsque vous raccordez un magnétoscope compatible T-V LINK à la borne EXT-2, raccordez toujours le décodeur au magnétoscope. Sinon, la fonction T-V LINK ne donnera pas les résultats escomptés.
  Lorsque vous avez enregistré les canaux TV sous des numéros de programmes (PR), réglez la fonction DECODEUR (EXT-2) pour le numéro de programme (PR) sur OUI de manière à pouvoir décrypter un canal crypté. Pour plus de détails sur l'opération, voir "Utilisation de la fonction DECODEUR (EXT-2)" à la page 36.

## ■ Raccordement d'un casque d'écoute

Raccordez le casque muni d'une mini-fiche stéréo (de 3,5 mm de diamètre) à la prise pour casque du récepteur.

- Le réglage du volume du casque d'écoute s'effectue à l'aide du menu "CASQUE" (voir page 26).

## ■ Sortie du signal vidéo/audio par la borne EXT-2

Vous pouvez changer arbitrairement la sortie du signal vidéo/audio de la borne EXT-2. Cette fonction s'avère utile lors de la copie de données vidéo/audio, provenant d'un autre appareil, vers le magnétoscope raccordé à la borne EXT-2. Pour plus de détails concernant cette opération, voir "COPIE" à la page 27.

## ■ Sortie du signal TV par la borne EXT-1

L'image et le son du canal TV que vous regardez sont toujours diffusés par la borne EXT-1.

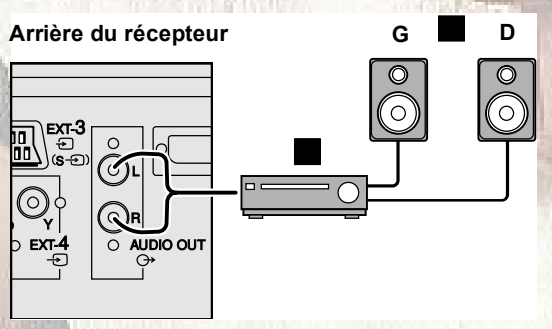
- La modification d'un numéro de programme (PR) modifie également la sortie TV de la borne EXT-1.
- Le signal vidéo/audio d'une borne EXT ne peut pas être diffusé.
- Les programmes de télétexte ne peuvent pas être diffusés.

## ■ Raccordement de haut-parleurs/d'un amplificateur

Raccordez l'équipement audio souhaité au téléviseur en vous référant au schéma de raccordement de l'équipement audio.
Vous pouvez utiliser des haut-parleurs avant externes au lieu des haut-parleurs du téléviseur.

**Avant de raccorder tout appareil:**

- Lisez les manuels fournis avec l'amplificateur ou les haut-parleurs.
- Mettez le téléviseur et l'amplificateur hors tension.
- Pour éviter toute influence négative du magnétisme des haut-parleurs sur l'écran du téléviseur, utilisez des haut-parleurs à blindage magnétique comme haut-parleurs avant.
- Les câbles de raccordement ne sont pas fournis.




1 Amplificateur
2 Haut-parleurs externes (de type à blindage magnétique)

- La sortie de la prise AUDIO OUT n'est pas interrompue par le raccordement d'un casque au téléviseur. Vous ne pouvez pas couper le son du haut-parleur avant, même si vous raccordez un casque au téléviseur.
- Réglez le volume des haut-parleurs externes à l'aide de l'amplificateur.

# Numéros CH/CC

Si vous souhaitez utiliser la fonction INSERER de la page 33, localisez dans le tableau suivant le numéro CH/CC correspondant au numéro de canal de l'émetteur TV.

| CH | Canal |
|---|---|
| CH 02 / CH 202 | E2, R1 |
| CH 03 / CH 203 | E3, ITALIE A |
| CH 04 / CH 204 | E4, ITALIE B, R2 |
| CH 05 / CH 205 | E5, ITALIE D, R6 |
| CH 06 / CH 206 | E6, ITALIE E, R7 |
| CH 07 / CH 207 | E7, ITALIE F, R8 |
| CH 08 / CH 208 | E8, R9 |
| CH 09 / CH 209 | E9, ITALIE G |
| CH 10 / CH 210 | E10, ITALIE H, R10 |
| CH 11 / CH 211 | E11, ITALIE H+1, R11 |
| CH 12 / CH 212 | E12, ITALIE H+2, R12 |
| CH 21 / CH 221 | E21, R21 |
| CH 22 / CH 222 | E22, R22 |
| CH 23 / CH 223 | E23, R23 |
| CH 24 / CH 224 | E24, R24 |
| CH 25 / CH 225 | E25, R25 |
| CH 26 / CH 226 | E26, R26 |
| CH 27 / CH 227 | E27, R27 |
| CH 28 / CH 228 | E28, R28 |
| CH 29 / CH 229 | E29, R29 |
| CH 30 / CH 230 | E30, R30 |
| CH 31 / CH 231 | E31, R31 |
| CH 32 / CH 232 | E32, R32 |
| CH 33 / CH 233 | E33, R33 |
| CH 34 / CH 234 | E34, R34 |
| CH 35 / CH 235 | E35, R35 |
| CH 36 / CH 236 | E36, R36 |
| CH 37 / CH 237 | E37, R37 |
| CH 38 / CH 238 | E38, R38 |
| CH 39 / CH 239 | E39, R39 |

| CH | Canal |
|---|---|
| CH 40 / CH 240 | E40, R40 |
| CH 41 / CH 241 | E41, R41 |
| CH 42 / CH 242 | E42, R42 |
| CH 43 / CH 243 | E43, R43 |
| CH 44 / CH 244 | E44, R44 |
| CH 45 / CH 245 | E45, R45 |
| CH 46 / CH 246 | E46, R46 |
| CH 47 / CH 247 | E47, R47 |
| CH 48 / CH 248 | E48, R48 |
| CH 49 / CH 249 | E49, R49 |
| CH 50 / CH 250 | E50, R50 |
| CH 51 / CH 251 | E51, R51 |
| CH 52 / CH 252 | E52, R52 |
| CH 53 / CH 253 | E53, R53 |
| CH 54 / CH 254 | E54, R54 |
| CH 55 / CH 255 | E55, R55 |
| CH 56 / CH 256 | E56, R56 |
| CH 57 / CH 257 | E57, R57 |
| CH 58 / CH 258 | E58, R58 |
| CH 59 / CH 259 | E59, R59 |
| CH 60 / CH 260 | E60, R60 |
| CH 61 / CH 261 | E61, R61 |
| CH 62 / CH 262 | E62, R62 |
| CH 63 / CH 263 | E63, R63 |
| CH 64 / CH 264 | E64, R64 |
| CH 65 / CH 265 | E65, R65 |
| CH 66 / CH 266 | E66, R66 |
| CH 67 / CH 267 | E67, R67 |
| CH 68 / CH 268 | E68, R68 |
| CH 69 / CH 269 | E69, R69 |

| CC | Canal |
|---|---|
| CC 01 / CC 201 | S1 |
| CC 02 / CC 202 | S2 |
| CC 03 / CC 203 | S3 |
| CC 04 / CC 204 | S4 |
| CC 05 / CC 205 | S5 |
| CC 06 / CC 206 | S6 |
| CC 07 / CC 207 | S7 |
| CC 08 / CC 208 | S8 |
| CC 09 / CC 209 | S9 |
| CC 10 / CC 210 | S10 |
| CC 11 / CC 211 | S11 |
| CC 12 / CC 212 | S12 |
| CC 13 / CC 213 | S13 |
| CC 14 / CC 214 | S14 |
| CC 15 / CC 215 | S15 |
| CC 16 / CC 216 | S16 |
| CC 17 / CC 217 | S17 |
| CC 18 / CC 218 | S18 |
| CC 19 / CC 219 | S19 |
| CC 20 / CC 220 | S20 |
| CC 21 / CC 221 | S21 |
| CC 22 / CC 222 | S22 |
| CC 23 / CC 223 | S23 |
| CC 24 / CC 224 | S24 |
| CC 25 / CC 225 | S25 |
| CC 26 / CC 226 | S26 |
| CC 27 / CC 227 | S27 |
| CC 28 / CC 228 | S28 |
| CC 29 / CC 229 | S29 |
| CC 30 / CC 230 | S30 |

| CC | Canal |
|---|---|
| CC 31 / CC 231 | S31 |
| CC 32 / CC 232 | S32 |
| CC 33 / CC 233 | S33 |
| CC 34 / CC 234 | S34 |
| CC 35 / CC 235 | S35 |
| CC 36 / CC 236 | S36 |
| CC 37 / CC 237 | S37 |
| CC 38 / CC 238 | S38 |
| CC 39 / CC 239 | S39 |
| CC 40 / CC 240 | S40 |
| CC 41 / CC 241 | S41 |
| CC 75 / CC 275 | X |
| CC 76 / CC 276 | Y, R3 |
| CC 77 / CC 277 | Z, ITALIE C, R4 |
| CC 78 / CC 278 | Z+1, R5 |
| CC 79 / CC 279 | Z+2 |

| CH | Canal |
|---|---|
| CH 102 | F2 |
| CH 103 | F3 |
| CH 104 | F4 |
| CH 105 | F5 |
| CH 106 | F6 |
| CH 107 | F7 |
| CH 108 | F8 |
| CH 109 | F9 |
| CH 110 | F10 |
| CH 121 | F21 |
| CH 122 | F22 |
| CH 123 | F23 |
| CH 124 | F24 |
| CH 125 | F25 |
| CH 126 | F26 |
| CH 127 | F27 |
| CH 128 | F28 |
| CH 129 | F29 |
| CH 130 | F30 |
| CH 131 | F31 |
| CH 132 | F32 |
| CH 133 | F33 |
| CH 134 | F34 |
| CH 135 | F35 |
| CH 136 | F36 |
| CH 137 | F37 |
| CH 138 | F38 |
| CH 139 | F39 |
| CH 140 | F40 |

| CH | Canal |
|---|---|
| CH 141 | F41 |
| CH 142 | F42 |
| CH 143 | F43 |
| CH 144 | F44 |
| CH 145 | F45 |
| CH 146 | F46 |
| CH 147 | F47 |
| CH 148 | F48 |
| CH 149 | F49 |
| CH 150 | F50 |
| CH 151 | F51 |
| CH 152 | F52 |
| CH 153 | F53 |
| CH 154 | F54 |
| CH 155 | F55 |
| CH 156 | F56 |
| CH 157 | F57 |
| CH 158 | F58 |
| CH 159 | F59 |
| CH 160 | F60 |
| CH 161 | F61 |
| CH 162 | F62 |
| CH 163 | F63 |
| CH 164 | F64 |
| CH 165 | F65 |
| CH 166 | F66 |
| CH 167 | F67 |
| CH 168 | F68 |
| CH 169 | F69 |

| CC | Fréquence (MHz) |
|---|---|
| CC 110 | 116 - 124 |
| CC 111 | 124 - 132 |
| CC 112 | 132 - 140 |
| CC 113 | 140 - 148 |
| CC 114 | 148 - 156 |
| CC 115 | 156 - 164 |
| CC 116 | 164 - 172 |
| CC 123 | 220 - 228 |
| CC 124 | 228 - 236 |
| CC 125 | 236 - 244 |
| CC 126 | 244 - 252 |
| CC 127 | 252 - 260 |
| CC 128 | 260 - 268 |
| CC 129 | 268 - 276 |
| CC 130 | 276 - 284 |
| CC 131 | 284 - 292 |
| CC 132 | 292 - 300 |
| CC 133 | 300 - 306 |
| CC 141 | 306 - 311 |
| CC 142 | 311 - 319 |
| CC 143 | 319 - 327 |
| CC 144 | 327 - 335 |
| CC 145 | 335 - 343 |
| CC 146 | 343 - 351 |
| CC 147 | 351 - 359 |
| CC 148 | 359 - 367 |
| CC 149 | 367 - 375 |
| CC 150 | 375 - 383 |
| CC 151 | 383 - 391 |

| CC | Fréquence (MHz) |
|---|---|
| CC 152 | 391 - 399 |
| CC 153 | 399 - 407 |
| CC 154 | 407 - 415 |
| CC 155 | 415 - 423 |
| CC 156 | 423 - 431 |
| CC 157 | 431 - 439 |
| CC 158 | 439 - 447 |
| CC 159 | 447 - 455 |
| CC 160 | 455 - 463 |
| CC 161 | 463 - 469 |

- Lorsque deux numéros CH/CC correspondent à un même numéro de canal, sélectionnez l'un ou l'autre en fonction du paramètre PAYS. Lorsque le paramètre PAYS n'est pas défini comme FRANCE, utilisez un numéro CH/CC à deux chiffres. Lorsque le paramètre PAYS est FRANCE, utilisez un numéro CH/CC à trois chiffres.
- Localisez le numéro CH/CC (CC110 à CC161) correspondant au canal TV (système SECAM-L) d'un émetteur de la télévision câblée française basé sur la fréquence d'émission du canal TV. Si vous ne connaissez pas la fréquence d'émission, contactez la station de télévision par câble.
- Les numéros CH/CC de CH102-CH169 et CC110-CC161 correspondent aux canaux TV diffusés par un système SECAM-L. Les autres numéros CH/CC correspondent aux canaux diffusés par une méthode autre qu'un système SECAM-L.

# Guide de dépannage

En cas de problème pendant l'utilisation du téléviseur, veuillez lire attentivement ce "Guide de dépannage" avant de contacter le service technique. Vous pourrez probablement résoudre le problème par vous-même. Par exemple, si la fiche est débranchée de la prise secteur ou si l'antenne TV présente des problèmes, vous pourriez croire que l'anomalie provient du téléviseur.

**Important:**

- Ce guide de dépannage ne couvre que les problèmes dont la cause est difficile à déterminer. Si une question se pose pendant l'utilisation d'une fonction, lire attentivement la ou les pages correspondant à l'utilisation de la fonction et non ce guide de dépannage.
- Si vous avez suivi sans succès les indications du présent guide de dépannage ou l'explication de l'utilisation des fonctions concernées, débranchez le téléviseur et faites appel au service technique. N'essayez pas de réparer vous-même le téléviseur ou d'en retirer la protection arrière.

## ■ Le téléviseur ne s'allume pas

- Les fiches des cordons d'alimentation du téléviseur et du récepteur sont-elles bien raccordées au secteur?
- Veillez à régler le sélecteur VCR/TV/DVD sur la position TV. Vous ne pouvez pas mettre le téléviseur sous tension si le sélecteur VCR/TV/DVD est réglé sur la position VCR ou DVD.

## ■ Le téléviseur ne s'éteint pas

- Veillez à régler le sélecteur VCR/TV/DVD sur la position TV. Vous ne pouvez pas mettre le téléviseur hors tension si le sélecteur VCR/TV/DVD est réglé sur la position VCR ou sur DVD.

## ■ Pas d'image/pas de son

- Avez-vous sélectionné un canal TV dont la réception est extrêmement mauvaise? Dans ce cas, la fonction FOND BLEU s'active, tout l'écran devient bleu et le son est coupé. Si vous souhaitez malgré tout regarder ce canal, reportez-vous à la section "FOND BLEU" à la page 29 pour essayer de désactiver la fonction FOND BLEU en la réglant sur NON.
- Avez-vous réglé la fonction HAUT PARLEUR sur NON? Reportez-vous à la section "HAUT PARLEUR" à la page 25 pour vérifier le réglage de la fonction HAUT PARLEUR, afin d'essayer de résoudre le problème.
- Un réglage SYSTEME incorrect pour un canal TV peut empêcher la diffusion du son. Reportez-vous à la section "EDITER/MANUEL" à la page 32 pour savoir comment utiliser la fonction MANUEL afin d'essayer de modifier le réglage SYSTEME.

## ■ Image de mauvaise qualité

- Si les interférences obscurcissent complètement l'image (neige), il se peut que le problème provienne de l'antenne ou de son câble. Vérifiez les points suivants pour essayer de résoudre le problème.
  - Le téléviseur et l'antenne sont-ils correctement raccordés?
  - Le câble d'antenne est-il endommagé?
  - L'antenne est-elle pointée dans la direction correcte?
  - L'antenne elle-même est-elle défectueuse?
- Si le téléviseur ou l'antenne reçoivent des interférences d'autres appareils, des lignes ou des interférences peuvent apparaître dans l'image. Eloignez de votre téléviseur les appareils tels qu'amplificateurs, ordinateurs ou sèche-cheveux qui peuvent causer des interférences, ou déplacez le téléviseur. Si une tour radio ou un câble à haute tension provoquent des interférences au niveau de l'antenne, contactez votre revendeur local.
- Si le téléviseur reçoit des interférences provenant de signaux réfléchis par des montagnes ou des bâtiments, des images doubles (fantômes) s'affichent. Essayez de changer l'orientation de l'antenne ou remplacez-la par une antenne ayant une meilleure directivité.
- Les réglages SYSTEME COULEUR des canaux sont-ils corrects? Reportez-vous à la section "SYSTEME COULEUR" à la page 23 pour essayer de résoudre le problème.
- Les fonctions COULEUR ou LUMIERE sont-elles correctement réglées? Reportez-vous à la section "Réglage de l'image" à la page 21 pour essayer de les régler correctement.
- Il n'est pas conseillé d'enregistrer du télétexte car l'enregistrement peut ne pas s'effectuer correctement.
- Lorsque vous visualisez les images de logiciels vidéo du commerce, ou des vidéocassettes mal enregistrées, il se peut que le haut de l'image soit déformé. Ceci est imputable à la qualité du signal vidéo, pas à un mauvais fonctionnement.

## ■ Son de mauvaise qualité

- Les commandes GRAVES ou AIGUS sont-elles correctement réglées? Si ce n'est pas le cas, reportez-vous à la section "Réglage du son" à la page 25 pour essayer de les régler correctement.
- Lorsque la réception d'un canal TV est mauvaise, le son bilingue ou stéréo peut être difficilement audible. Dans ce cas, reportez-vous à la section "STEREO / I • II" à la page 25 pour rendre le son plus audible en le diffusant en mono.

## ■ Panne de fonctionnement

- Les piles de la télécommande sont-elles épuisées? Reportez-vous à la section "Mise en place des piles dans la télécommande" à la page 6 et remplacez les piles par des neuves pour essayer de résoudre le problème.
- Avez-vous essayé d'utiliser la télécommande depuis le côté ou l'arrière du téléviseur, ou à partir d'un emplacement distant de plus de 7 mètres du téléviseur? Utilisez la télécommande face au téléviseur, à partir d'un emplacement distant de moins de 7 mètres, pour essayer de résoudre le problème.
- Lorsque vous regardez un programme télétexte, vous ne pouvez pas utiliser les menus. Appuyez sur la touche ***TV*** pour repasser du programme télétexte au programme TV normal et essayez d'utiliser les menus.
- Si le téléviseur arrête soudainement de répondre, débranchez les cordons d'alimentation du téléviseur et du récepteur des prises secteur. Rebranchez-les dans les prises secteur pour mettre le téléviseur sous tension. Si le téléviseur revient à son état normal, il ne s'agit pas d'une panne.

## ■ Autres problèmes

- Lorsque la fonction SLEEP TIMER est activée, le téléviseur se met automatiquement hors tension. Si le téléviseur s'éteint subitement, appuyez sur la touche ⏻/I (veille) pour tenter de le rallumer. Si le téléviseur revient à son état normal, il ne s'agit pas d'une panne.
- Si un signal WSS est intégré au signal de diffusion ou au signal d'un appareil externe, ou si le téléviseur reçoit un signal de commande d'un appareil externe, le mode ZOOM change automatiquement. Si vous souhaitez repasser au mode ZOOM précédent, appuyez sur la touche **ZOOM** pour choisir à nouveau le mode ZOOM.
- Il faut un peu de temps entre une opération telle qu'un changement de canal et l'affichage de l'image. Il ne s'agit pas d'une anomalie. C'est le temps nécessaire à la stabilisation de l'image avant son affichage.
- Le téléviseur peut produire un craquement suite à un changement brusque de température. Cela n'a pas d'importance pour autant que l'image ou le son ne présente aucune anomalie. Si vous entendez régulièrement des craquements pendant que vous regardez la télévision, d'autres causes peuvent être invoquées. Par mesure de précaution, demandez à un technicien de venir inspecter le téléviseur.
- En mode à deux images, il arrive que l'image secondaire disparaisse lors de l'activation de l'appareil externe. Dans ce cas, appuyez sur la touche ◑ pour réafficher l'image secondaire.
- Le réglage du volume du casque d'écoute s'effectue à l'aide du menu "CASQUE". Il n'est pas possible de le régler à l'aide des touches ◿ (volume) −/+.
- Lorsque le paramètre H.P. TV du menu "CASQUE" est configuré sur OUI, le son est diffusé par le haut-parleur du téléviseur même si le casque d'écoute est branché. Si vous souhaitez couper le haut-parleur du téléviseur, réglez ce paramètre sur NON.
- Même si la fonction DECALAGE D'IMAGE est désactivée, il se peut que l'image se déplace vers la gauche ou la droite lors d'un changement d'entrée ou de canal. Ceci est destiné à prévenir l'effet de rémanence et ne constitue pas un défaut.

# Spécifications techniques

| Elément \ Modèle | PD-42V31BUE/PD-42V31BJE/PD-42V31BSE | |
|---|---|---|
| Systèmes de radiodiffusion | CCIR B/G, I, D/K, L | |
| Systèmes couleurs | PAL, SECAM<br>• Les bornes EXT acceptent également le système NTSC 3.58/4.43 MHz. | |
| Canaux et fréquences | • E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2, ITALIE A-H, ITALIE H+1, ITALIE H+2, F2-F10, F21-F69, R1-R12, R21-R69<br>• Chaînes françaises de TV par câble dont les fréquences d'émission sont situées entre 116 - 172 MHz et 220 - 469 MHz | |
| Systèmes audio multiplex | A2 (B/G, D/K), Système NICAM (B/G, I, D/K, L) | |
| Systèmes télétexte | FLOF (Fastext), TOP, WST (Système standard mondial) | |
| Alimentation | 110 - 240 V CA, 50/60 Hz | |
| Consommation électrique | Téléviseur:<br>338 W, Mode de veille (Standby): 1,5 W | |
| | Récepteur:<br>30 W, Mode de veille (Standby): 2,4 W | |
| Taille de l'écran | Zone visible de 107,5 cm (mesurée en diagonale) | |
| Sortie audio | Puissance de sortie estimée: 18 W + 18 W | |
| Haut-parleurs | (3 cm × 10 cm) ovale × 2<br>(6,5 cm × 13 cm) ovale × 2 | |
| Sortie EXT-1 | Euroconnecteur (21 broches, SCART)<br>• Entrée vidéo, entrées Audio G/D et entrées RGB disponibles.<br>• Sorties d'émissions TV (Vidéo et Audio G/D) disponibles. | |
| Sortie EXT-2 | Euroconnecteur (21 broches, SCART)<br>• Entrée vidéo, entrée S-VIDEO (Y/C), entrées Audio G/D et entrées RGB disponibles.<br>• Sorties vidéo et audio G/D disponibles.<br>• Fonctions T-V LINK disponibles. | |
| Sortie EXT-3 | Euroconnecteur (21 broches, SCART)<br>• Entrée vidéo, entrée S-VIDEO (Y/C) et entrées audio G/D disponibles. | |
| Sortie EXT-4 | Connecteurs RCA × 5<br>• Entrées éléments vidéo (Pr, Pb, Y) et entrées audio G/D disponibles.<br>• Signaux progressive-scanning (625p ou 525p) disponibles. | |
| Sortie EXT-5 | Connecteurs RCA × 3<br>Connecteur S-VIDEO × 1<br>• Entrée vidéo, entrée S-VIDEO (Y/C) et entrées audio G/D disponibles. | |
| Sortie AUDIO OUT | Connecteurs RCA × 2<br>• Sorties audio G/D disponibles. | |
| Prise pour casque d'écoute | Mini-prise stéréo (3,5 mm de diamètre) | |
| Dimensions (L × H × P) | Téléviseur: | 1160 mm × 731 mm × 98 mm (téléviseur uniquement) |
| | Récepteur: | 435 mm × 99 mm × 382 mm |
| Poids | Téléviseur: | 38 kg (téléviseur uniquement) |
| | Récepteur: | 5,3 kg |
| Accessoires | Reportez-vous à la section "Vérification du contenu des conditionnements" à la page 5. | |

**La conception et les spécifications sont sujettes à modifications sans avis préalable.**

Les images affichées à l'écran à l'aide des fonctions ZOOM de ce téléviseur ne peuvent pas être diffusées à des fins commerciales ou de démonstration dans des lieux publics (cafés, hôtels, etc.) sans le consentement des titulaires des droits d'auteur des sources des images originales, ceci constituant une violation de la loi sur les droits d'auteur.

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JVC

# SCHEMATIC DIAGRAMS

## PDP COLOUR TELEVISION

| BASIC CHASSIS |
| --- |
| MK |

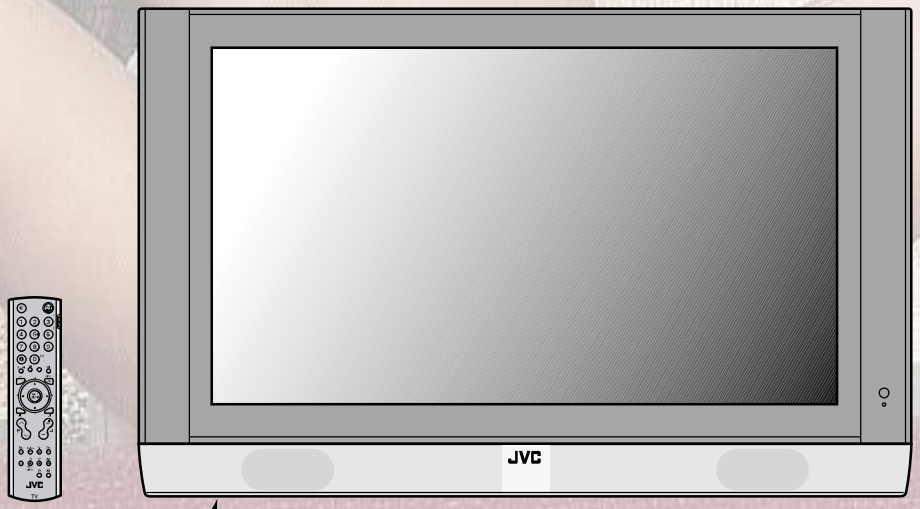
# PD-42V31BJE
# PD-42V31BSE
# PD-42V31BUE

CD-ROM No. SML200310

InteriArt

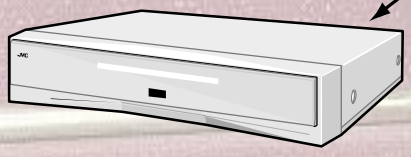
D.I.S.T.
Digital Image Scaling Technology

T-V LINK






VM-42V31BJE
VM-42V31BSE
VM-42V31BUE
[PLASMA DISPLAY UNIT]



TU-42V31BJE
TU-42V31BSE
TU-42V31BUE
[RECEIVER UNIT]

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No.YA013
2003/9

# PD-42V31BJE, PD-42V31BSE, PD-42V31BUE
# STANDARD CIRCUIT DIAGRAM

## ■ NOTE ON USING CIRCUIT DIAGRAMS

### 1. SAFETY

**The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.**

### 2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1) Input signal : Colour bar signal
(2) Setting positions of each knob/button and variable resistor : Original setting position when shipped
(3) Internal resistance of tester : DC 20kΩ/V
(4) Oscilloscope sweeping time : H ⇒ 20μs/div
: V ⇒ 5ms/div
: Others ⇒ Sweeping time is specified
(5) Voltage values : All DC voltage values

*Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

### 3. INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board : R1209 → R209

### 4. INDICATIONS ON THE CIRCUIT DIAGRAM

**(1) Resistors**

●Resistance value
No indication : [Ω]
k : [kΩ]
M : [MΩ]

●Rated allowable power
No indication : 1/16 [W]
Others : As specified

●Type
No indication : Carbon resistor
OMR : Oxide metal film resistor
MFR : Metal film resistor
MPR : Metal plate resistor
UNFR : Uninflammable resistor
FR : Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

**(2) Capacitors**

●Capacitance value
1 or higher : [pF]
less than 1 : [μF]

●Withstand voltage
No indication : DC50[V]
AC indicated : AC withstand voltage [V]
Others : DC withstand voltage [V]

*Electrolytic Capacitors
47/50[Example] : Capacitance value [μF]/withstand voltage[V]

●Type
No indication : Ceramic capacitor
MY : Mylar capacitor
MM : Metalized mylar capacitor
PP : Polypropylene capacitor
MPP : Metalized polypropylene capacitor
MF : Metalized film capacitor
TF : Thin film capacitor
BP : Bipolar electrolytic capacitor
TAN : Tantalum capacitor

**(3) Coils**

No unit : [μH]
Others : As specified

**(4) Power Supply**

: B1
: B2(12V)
: 9V
: 5V

*Respective voltage values are indicated

**(5) Test point**

: Test point
: Only test point display

**(6) Connecting method**

: Connector
: Wrapping or soldering
: Receptacle

**(7) Ground symbol**

: LIVE side ground
: ISOLATED(NEUTRAL) side ground
: EARTH ground
: DIGITAL ground

### 5. NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : ( ⊥ ) side GND and the ISOLATED (NEUTRAL) : ( ⏚ ) side GND. Therefore, care must be taken for the following points.

(1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED (NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
(2) Do not short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND at the same time with a measuring apparatus (oscilloscope, etc.). If the above precaution is not respected, a fuse or any parts will be broken.

**◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

**NOTE**

**◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
**When ordering parts, please use the numbers that appear in the Parts List.**



# CONTENTS


USING P.W. BOARD ..... 2-3
SEMICONDUCTOR SHAPES ..... 2-3
BLOCK DIAGRAM - 1 ..... 2-4
BLOCK DIAGRAM - 2 ..... 2-5
CIRCUIT DIAGRAMS [RECEIVER UNIT]
MAIN PWB CIRCUIT DIAGRAM ..... 2-7
AV SWITCH PWB CIRCUIT DIAGRAM ..... 2-15
AV JACK PWB CIRCUIT DIAGRAM ..... 2-17
DIST RELAY PWB CIRCUIT DIAGRAM ..... 2-19
DIST PWB CIRCUIT DIAGRAM ..... 2-21
MI-COM PWB CIRCUIT DIAGRAM ..... 2-39
MI-COM INTERFACE PWB CIRCUIT DIAGRAM ..... 2-41
RECEIVER POWER PWB CIRCUIT DIAGRAM ..... 2-43
FRONT CONTROL PWB CIRCUIT DIAGRAM ..... 2-45
CIRCUIT DIAGRAMS [DISPLAY UNIT]
DISPLAY INTERFACE PWB CIRCUIT DIAGRAM ..... 2-47
AUDIO PWB CIRCUIT DIAGRAM ..... 2-57
TEMP. SENSOR PWB CIRCUIT DIAGRAM ..... 2-60
DISPLAY LED PWB CIRCUIT DIAGRAM ..... 2-61
DISPLAY SWITCH PWB CIRCUIT DIAGRAM ..... 2-62
LINE FILTER PWB CIRCUIT DIAGRAM ..... 2-63
PATTERN DIAGRAMS [RECEIVER UNIT]
MAIN PWB PATTERN ..... 2-65
AV SWITCH PWB PATTERN ..... 2-69
AV JACK PWB PATTERN ..... 2-71
FRONT CONTROL PWB PATTERN ..... 2-73
DIST RELAY PWB PATTERN ..... 2-73
DIST PWB PATTERN ..... 2-75
MI-COM PWB PATTERN ..... 2-79
MI-COM INTERFACE PWB PATTERN ..... 2-80
RECEIVER POWER PWB PATTERN ..... 2-81
PATTERN DIAGRAMS [DISPLAY UNIT]
DISPLAY INTERFACE PWB PATTERN ..... 2-83
AUDIO PWB PATTERN ..... 2-85
LINE FILTER PWB PATTERN ..... 2-87
TEMP. SENSOR PWB PATTERN ..... 2-88
DISPLAY LED PWB PATTERN ..... 2-88
DISPLAY SWITCH PWB PATTERN ..... 2-88
VOLTAGE CHART [RECEIVER UNIT] ..... 2-89
VOLTAGE CHART [DISPLAY UNIT] ..... 2-92
WAVEFORMS ..... 2-94

## USING P.W. BOARD

RECEIVER UNIT [TU-42V31BUE, TU-42V31BJE, TU-42V31BSE]

| | |
|---|---|
| MAIN P.W. BOARD | SMK-1303A-U2 |
| AV SWITCH P.W. BOARD | SMK0S303A-U2 |
| AV JACK P.W. BOARD | SMK0J303A-U2 |
| DIST RELAY P.W. BOARD | SMK0Z312A-U2 |
| DIST P.W. BOARD | SMK0Z305A-U2 |
| MI-COM P.W. BOARD | SMK0M302A-U2 |
| MI-COM INTERFACE P.W. BOARD | SMK0M312A-U2 |
| RECEIVER POWER P.W. BOARD | SMK-9302A-U2 |
| FRONT CONTROL P.W. BOARD | SMK-8302A-U2 |

DISPLAY UNIT [VM-42V31BUE, VM-42V31BJE, VM-42V31BSE]

| | |
|---|---|
| DISPLAY INTERFACE P.W. BOARD | SMK-7368A-U2 |
| AUDIO PWB P.W. BOARD | SMK-6067A-U2 |
| TEMP. SENSOR P.W. BOARD | SMK-8381A-U2 |
| DISPLAY LED P.W. BOARD | SMK0L268A-U2 |
| DISPLAY SWITCH P.W. BOARD | SMK0L367A-U2 |
| LINE FILTER P.W. BOARD | SMK-9267A-U2 |

## SEMICONDUCTOR SHAPES

| BOTTOM VIEW | FRONT VIEW | | | | TOP VIEW |
|---|---|---|---|---|---|
| E C B | E C B | B C E (G)(D)(S) | E C B | E C B | CHIP TR C B E |

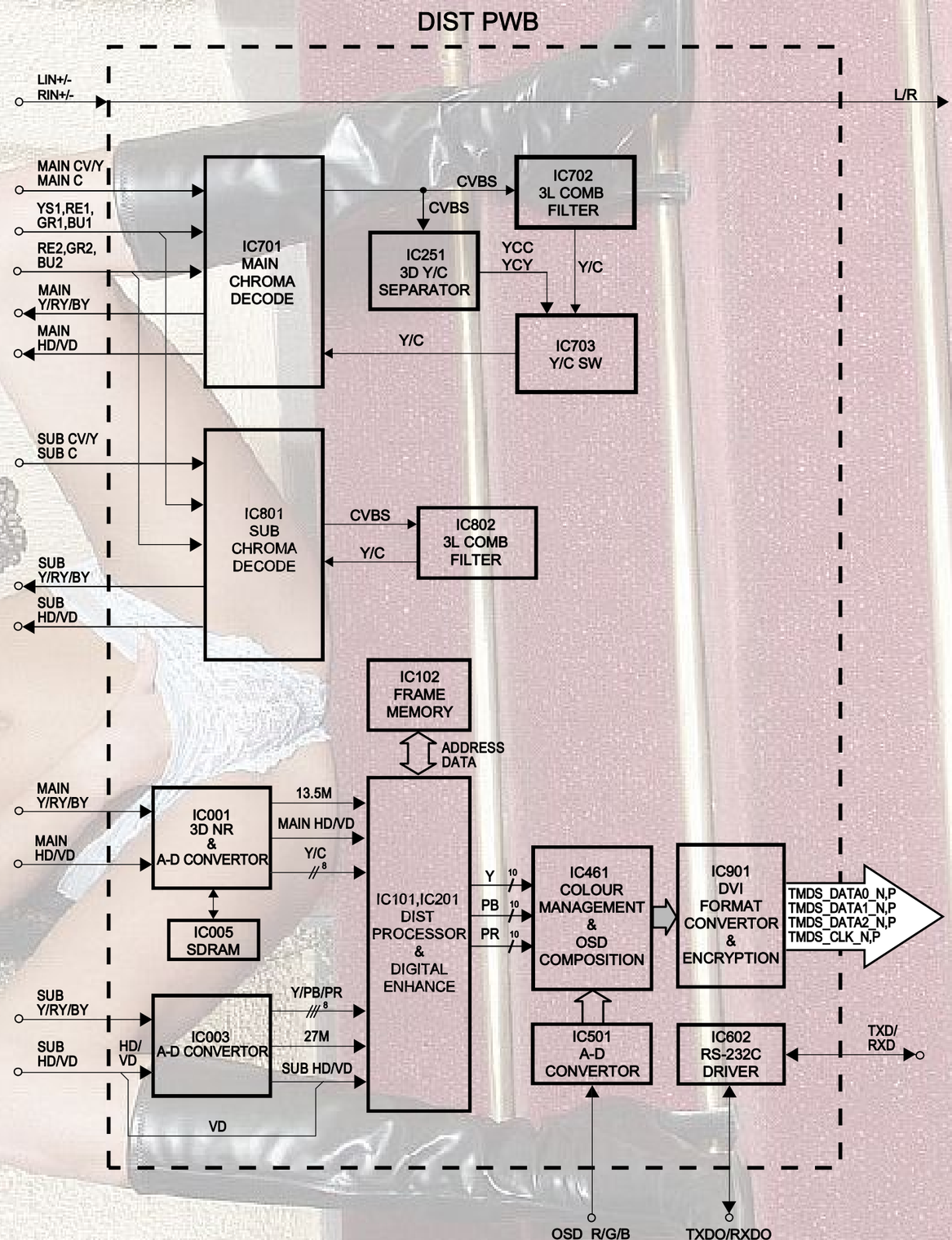
### IC

| BOTTOM VIEW | FRONT VIEW | | | TOP VIEW |
|---|---|---|---|---|
| OUT E IN | IN E OUT | 1 → N | 1 → N | 1 N |

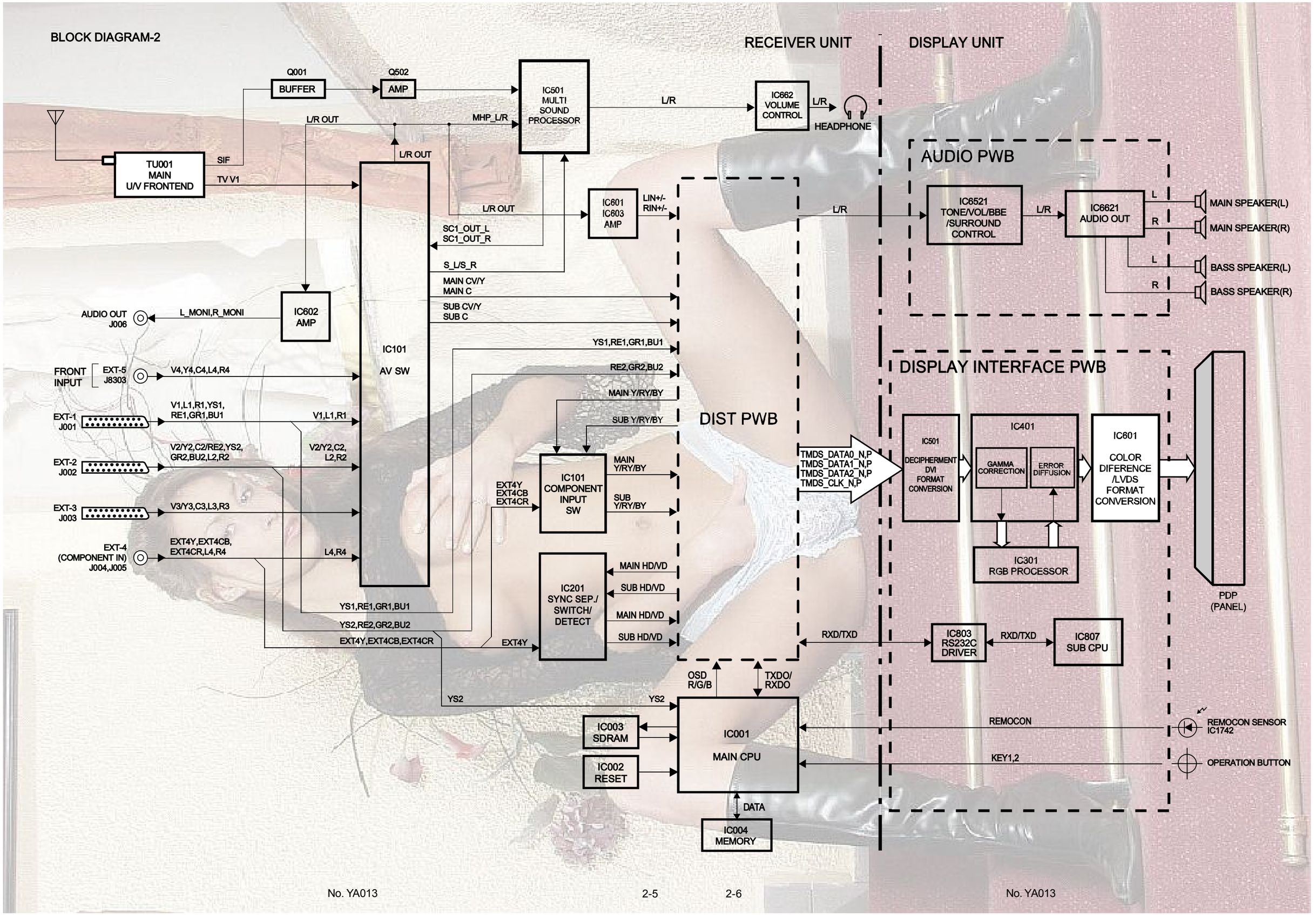
### CHIP IC

| TOP VIEW | | |
|---|---|---|
| N N 1 N | 1 N | |

## BLOCK DIAGRAM -1

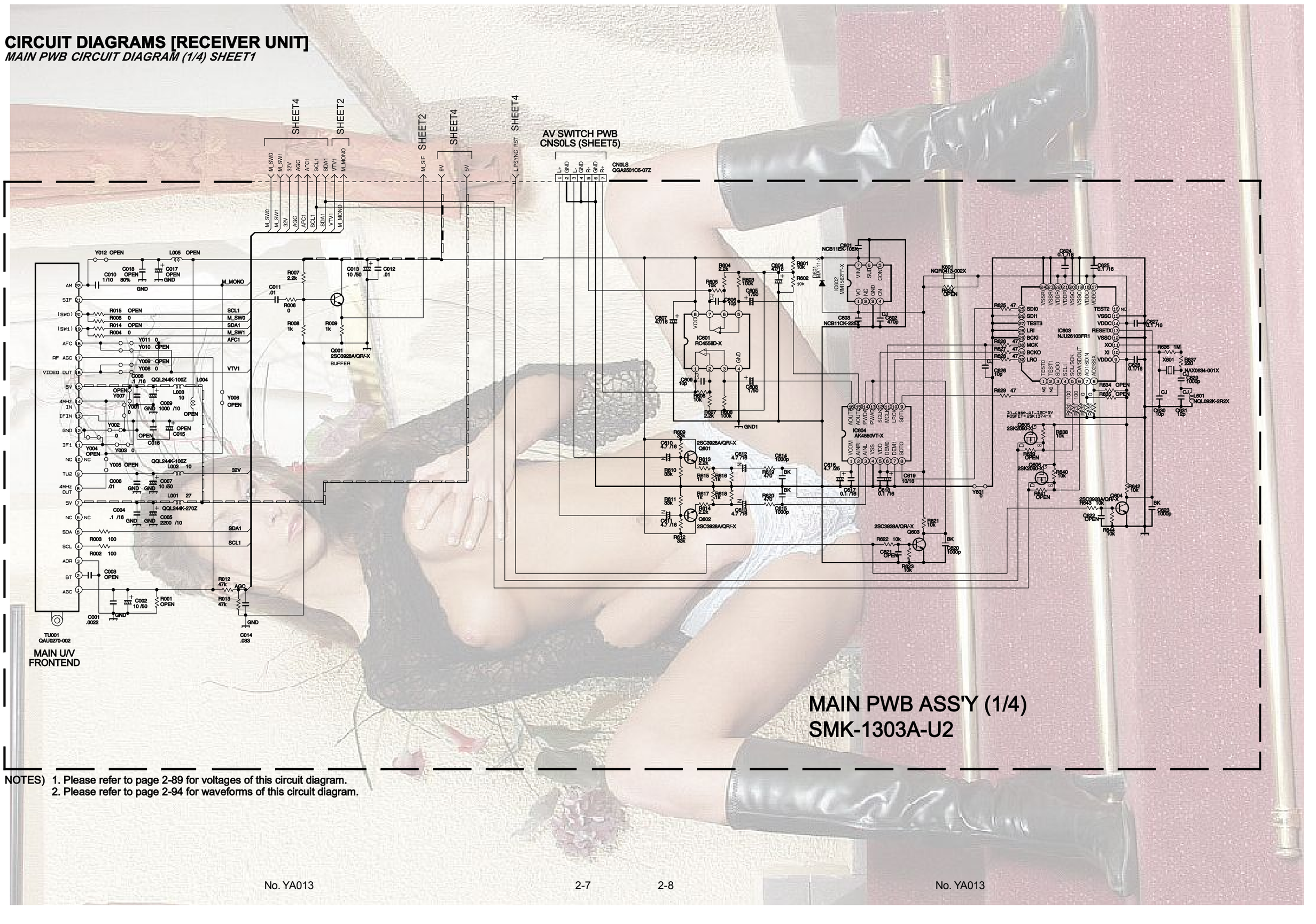


# BLOCK DIAGRAM-2



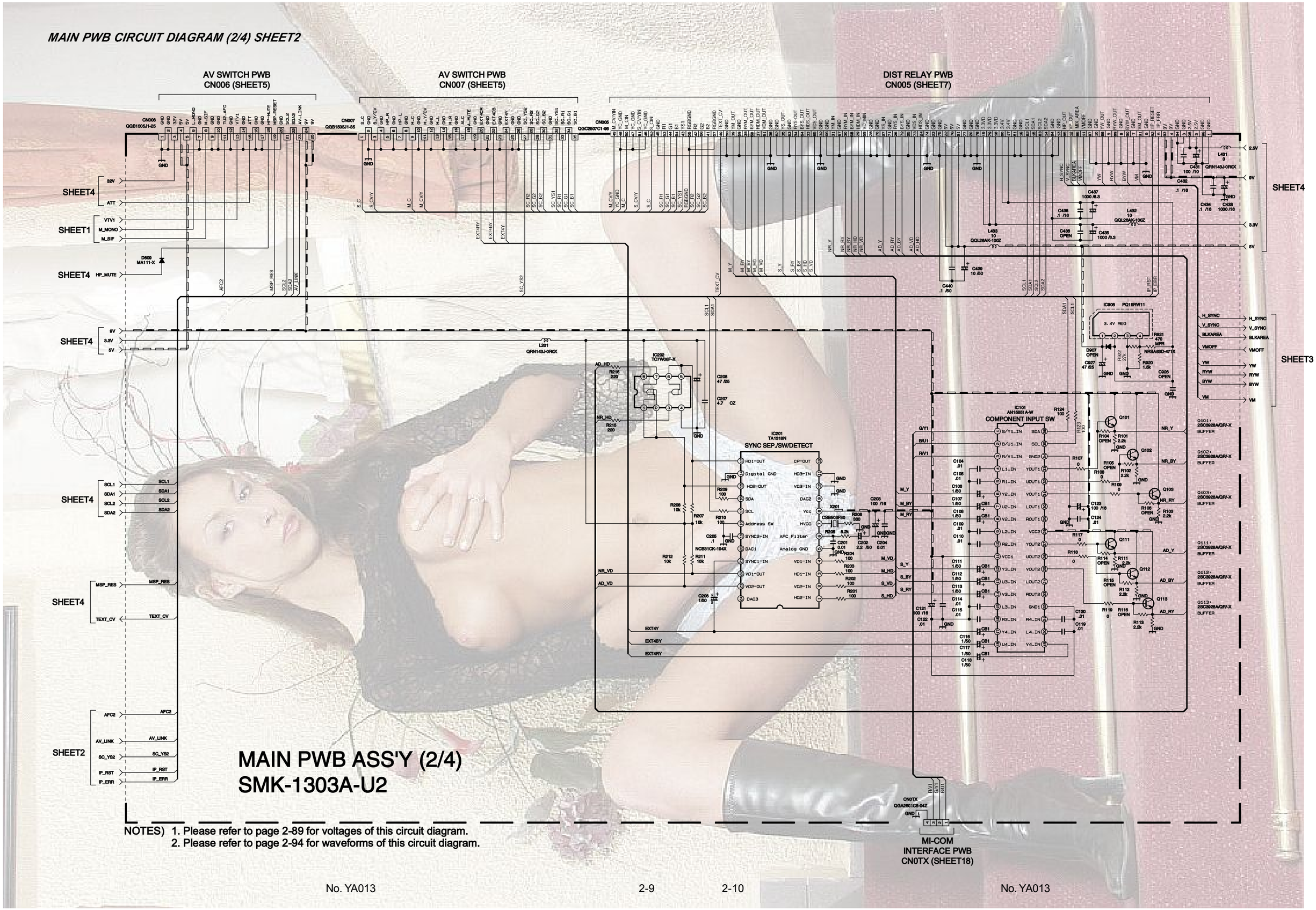
# CIRCUIT DIAGRAMS [RECEIVER UNIT]

## *MAIN PWB CIRCUIT DIAGRAM (1/4) SHEET1*




NOTES) 1. Please refer to page 2-89 for voltages of this circuit diagram.
2. Please refer to page 2-94 for waveforms of this circuit diagram.

## MAIN PWB CIRCUIT DIAGRAM (2/4) SHEET2




# MAIN PWB ASS'Y (2/4)
# SMK-1303A-U2

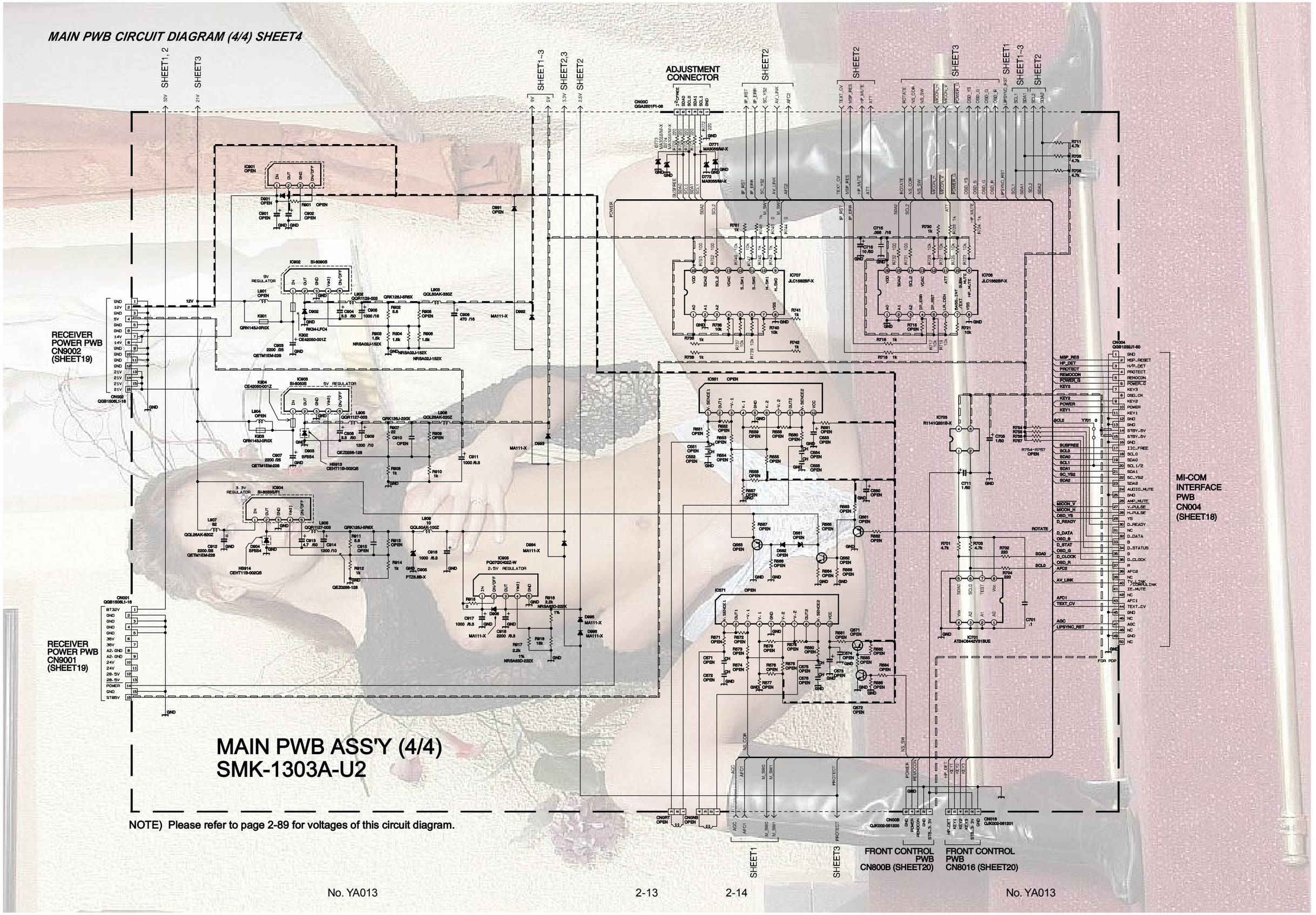
NOTES) 1. Please refer to page 2-89 for voltages of this circuit diagram.
2. Please refer to page 2-94 for waveforms of this circuit diagram.

## MAIN PWB CIRCUIT DIAGRAM (3/4) SHEET3

# MAIN PWB ASS'Y (3/4)
# SMK-1303A-U2

NOTE) Please refer to page 2-89 for voltages of this circuit diagram.

# MAIN PWB CIRCUIT DIAGRAM (4/4) SHEET4



# AV SWITCH PWB CIRCUIT DIAGRAM SHEET5

AV JACK PWB
CNJ00G
(SHEET6)

AV JACK PWB
CNJ020
(SHEET6)

FRONT
CONTROL PWB
CN800F
(SHEET20)

MAIN PWB
CN0LS (SHEET1)

DIST PWB
CN00K (SHEET16)

OPEN

MULTI SOUND
PROCESSOR

AV
SELECT

MAIN PWB
CN007 (SHEET2)

MAIN PWB
CN006 (SHEET2)

## AV SWITCH PWB ASS'Y
## SMK0S303A-U2

NOTES) 1. Please refer to page 2-89 for voltages of this circuit diagram.
2. Please refer to page 2-94 for waveforms of this circuit diagram.

# AV JACK PWB ASS'Y
# SMK0J303A-U2

**EXT-1**
J001
CE40529-006

COMMON GND
V1 IN
VTV OUT
GND(V IN)
GND(V OUT)
YS IN
RIN
GND(Y)S
GND(R)
NC
G IN
NC
GND(G)
SLOW SW1
B IN
L1 IN
GND(B)
AUDIO GND
LTV OUT
R1 IN
RTV OUT

GND
R109 75
D103 MA3056/M/-X
R107 75
D104 MA3056/M/-X
R108 75
D304 MA3120/M/-X
D102 MA3056/M/-X
R106 75
D101 MA3056/M/-X
R105 75
CE42681-001Y
K101
C104 .0047
C103 .0047
C102 .0047
C101 .0047
K102 CE42681-001Y

**EXT-2**
J002
CE40529-006

COMMON GND
V2/Y 2 IN
V SEL OUT
GND(V IN)
GND(V OUT)
Ys IN
C2/R IN
NC(Y SOUT)
GND(R)
SDA2
G IN
AV LINK /SCL2
NC(G GND)
SLOW SW2
B IN
L 2 IN
GND(B)
AUDIO GND
L SEL OUT
R 2 IN
R SEL OUT

GND
D114 MA3039/M/-X
R118 75
R119 75
D115 MA3120/M/-X
D113 MA3056/M/-X
R117 75
D112 MA3056/M/-X
R116 75
D116 MA3056/M/-X
D117 MA3056/M/-X
CE42681-001Y
K103
C114 .0047
C113 .0047
C112 .0047
C111 .0047
D111 MA3056/M/-X
R115 75
D311 MTZJ12C-T2
K104 CE42681-001Y

**EXT-3**
J003
CE40529-006

COMMON GND
V3/Y 3IN
NC
GND(V IN)
NC
NC(Y SIN)
C 3 IN
NC(Y SOUT)
GND(R)
SDA3
NC(G IN)
SCL3
NC(G GND)
SLOW SW3
NC(B IN)
L3IN
GND(B)
AUDIO GND
NC
R3IN
NC

GND
R129 75
D310 MA3120/M/-X
R127 75
K105
QQR0716-001Z
C124 .0047
C122 .0047

**EXT-4**
J004
QNN0463-001

Y
R301 75
C301 QRN143J-0R0X
D301 MA3120/M/-X
Cb
R311 75
C311 QRN143J-0R0X
D302 MA3120/M/-X
Cr
R321 75
C321 QRN143J-0R0X
D303 MA3120/M/-X

J005
QNN0493-001

L3
C341 .0015
R3
C342 .0015
K601 CE42681-001Y

**AUDIO OUT**
J006
QNN0571-001

Rout
Lout
K602 CE42681-001Y
C651 .0047
C652 .0047
C653 .01
C654 .01
AV_GND
GND

CNJ020
QGB1505K1-40

40 V1
39 GND
38 V1OUT
37 YS1
36 RE1IN
35 GR1IN
34 BU1IN
33 SLOW1
32 L1IN
31 R1IN
30 GND
29 L1OUT
28 R1OUT
27 V2Y2IN
26 GND
25 V2OUT
24 YS2
23 C2RE2IN
22 GR2IN
21 GND
20 AV_LINK/SCL2
19 SDA2
18 BU2IN/Y2
17 L2IN
16 R2IN
15 SLOW2/S2
14 L2OUT
13 R2OUT
12 V3Y3IN
11 C3IN
10 SLOW3/S3
9 L3IN
8 R3IN
7 EXT4Y
6 GND
5 EXT4CB
4 GND
3 EXT4CR
2 L4
1 R4

C857 OPEN
C856 OPEN
C855 OPEN

AV SWITCH PWB
CNS020
(SHEET5)

CNJ00G
QJB003-035033

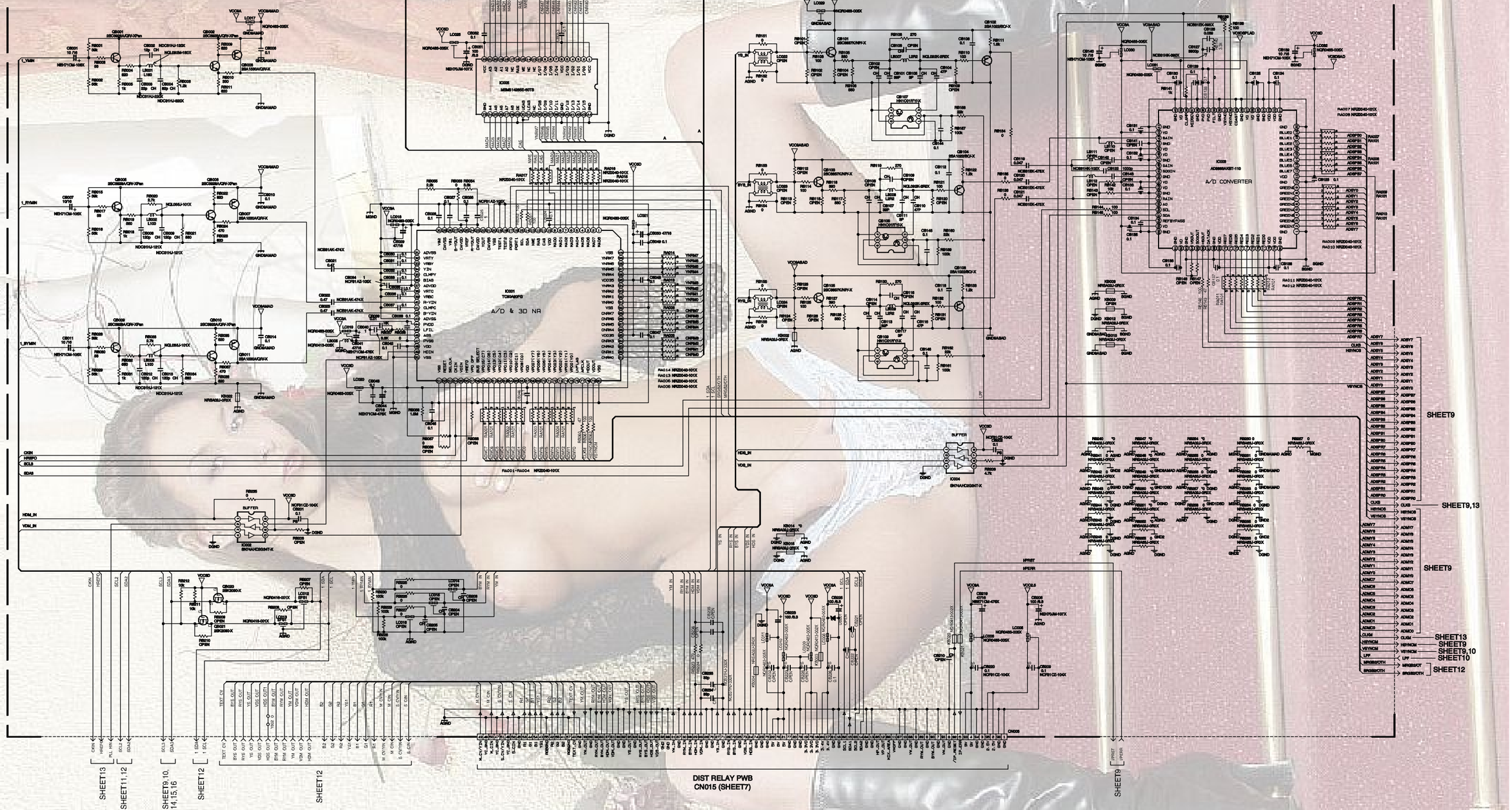
1 L_MONI
2 GND
3 R_MONI

AV JACK PWB
CNS00G
(SHEET5)

DIST PWB
CN005 (SHEET8)

| 49 | 48 | 50 | 47 | 51 | 46 | 52 | 45 | 53 | 44 | 54 | 43 | 55 | 42 | 56 | 41 | 57 | 40 | 58 | 39 | 59 | 38 | 60 | 37 | 61 | 36 | 62 | 35 | 63 | 34 | 64 | 33 | 65 | 32 | 66 | 31 | 67 | 30 | 68 | 29 | 69 | 28 | 70 | 27 | 71 | 26 | 72 | 25 | 73 | 24 | 74 | 23 | 75 | 22 | 76 | 21 | 77 | 20 | 78 | 19 | 79 | 18 | 80 | 17 | 81 | 16 | 82 | 15 | 83 | 14 | 84 | 13 | 85 | 12 | 86 | 11 | 87 | 10 | 88 | 9 | 89 | 8 | 90 | 7 | 91 | 6 | 92 | 5 | 93 | 4 | 94 | 3 | 95 | 2 | 96 | 1 |
|---|---|---

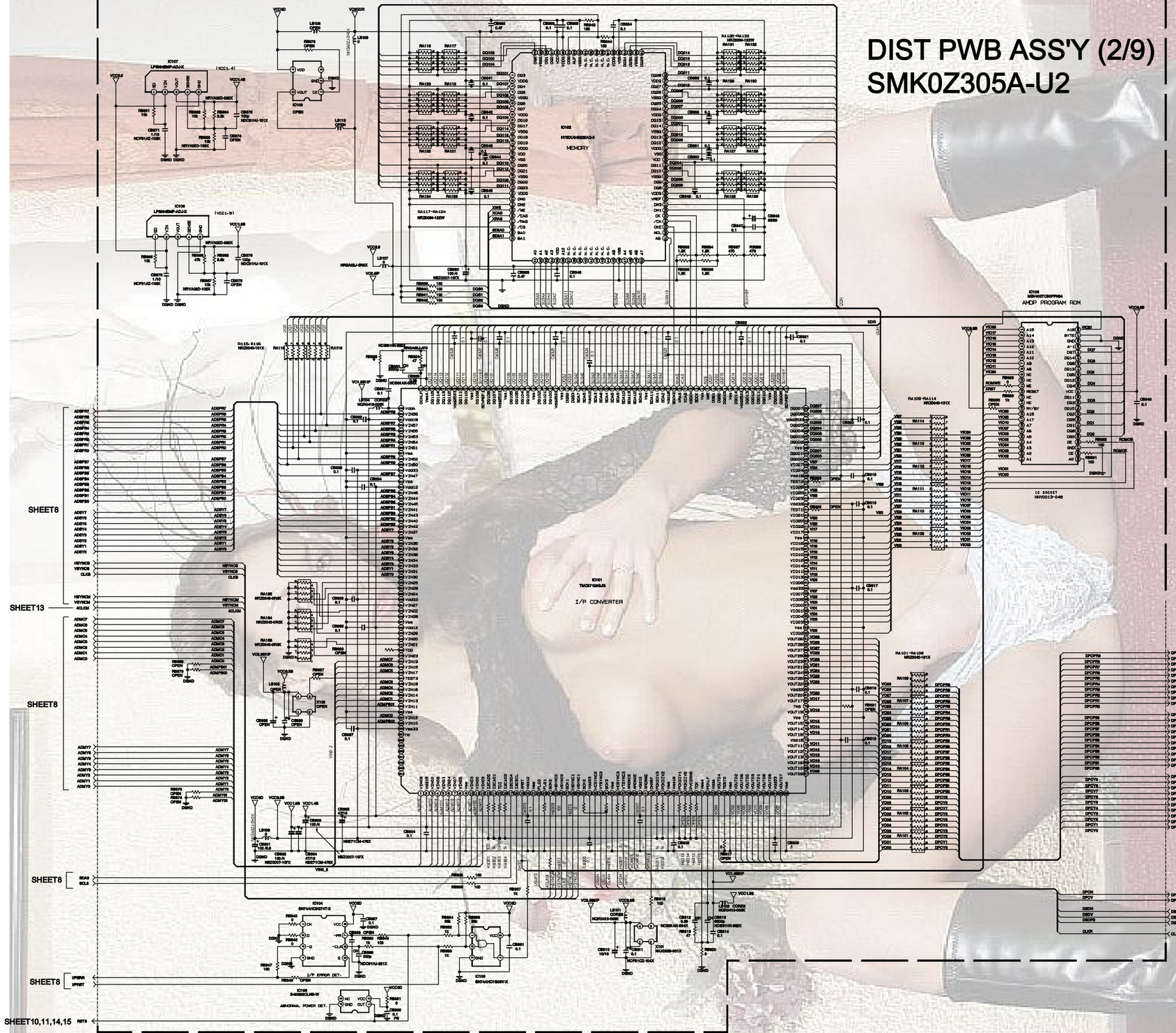
# DIST PWB ASS'Y (1/9)
# SMK0Z305A-U2



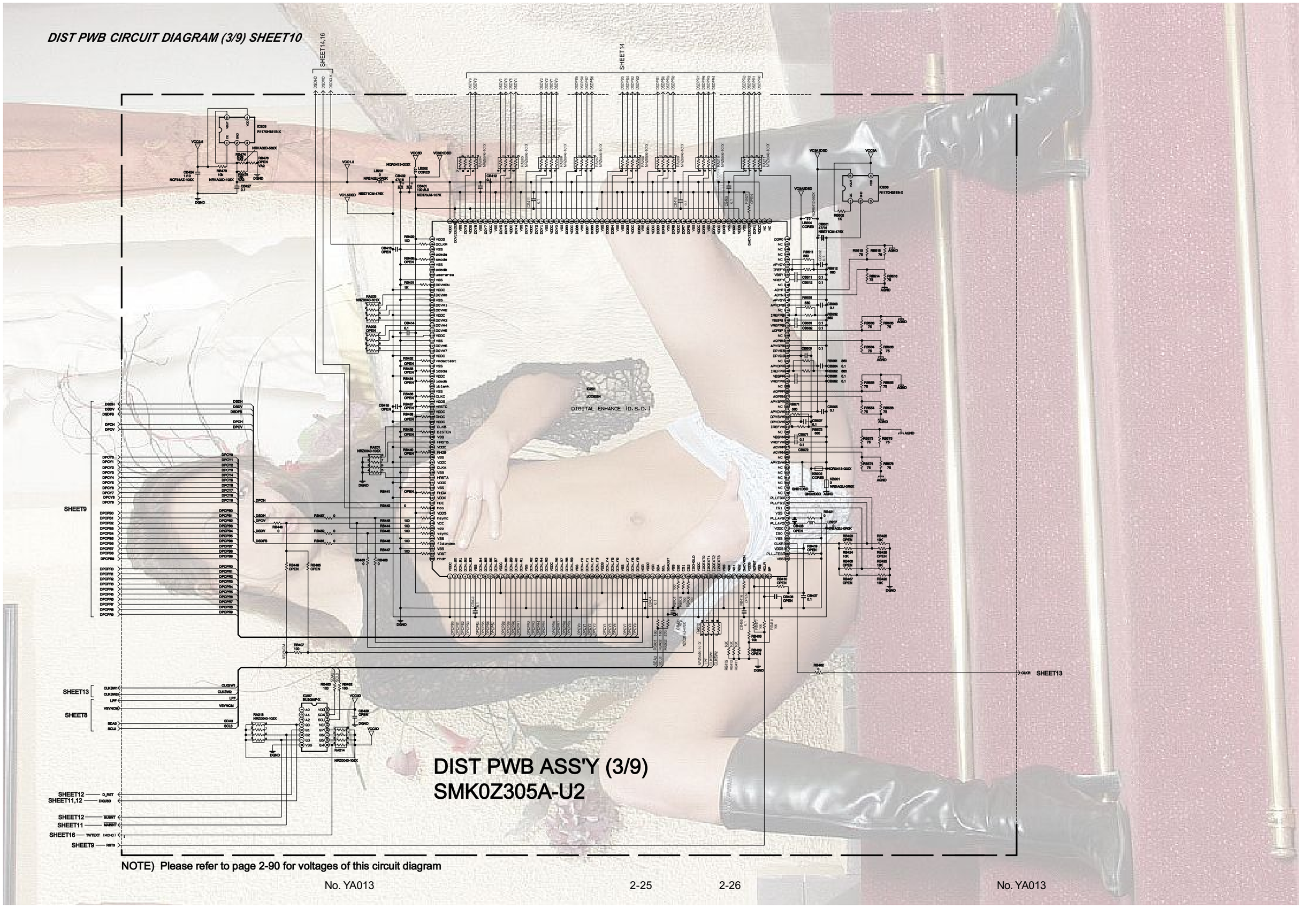

NOTES) 1. Please refer to page 2-89 for voltages of this circuit diagram.
2. Please refer to page 2-94 for waveforms of this circuit diagram.

## DIST PWB CIRCUIT DIAGRAM (2/9) SHEET9

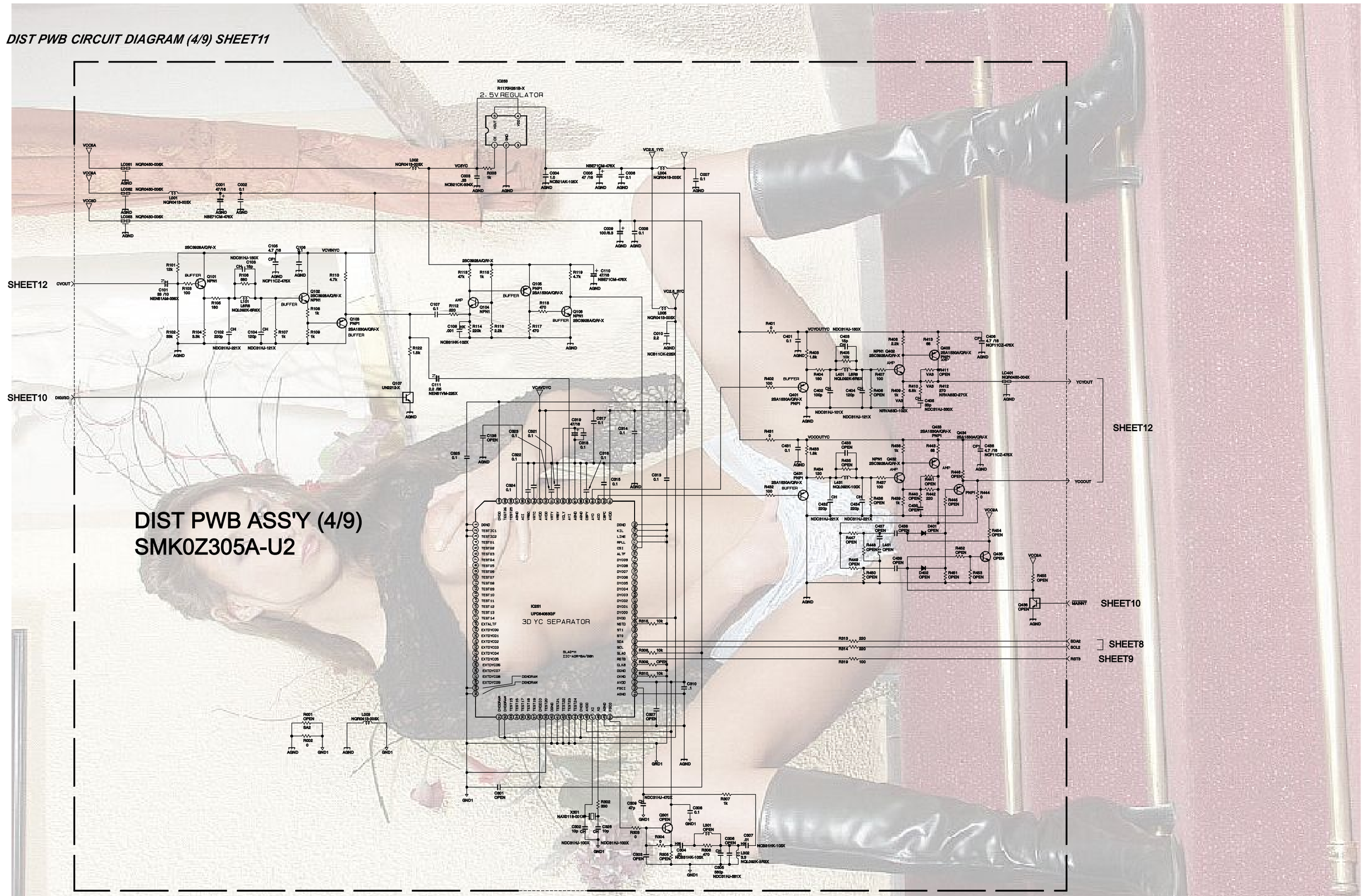
# DIST PWB ASS'Y (2/9)
# SMK0Z305A-U2



# DIST PWB CIRCUIT DIAGRAM (3/9) SHEET10

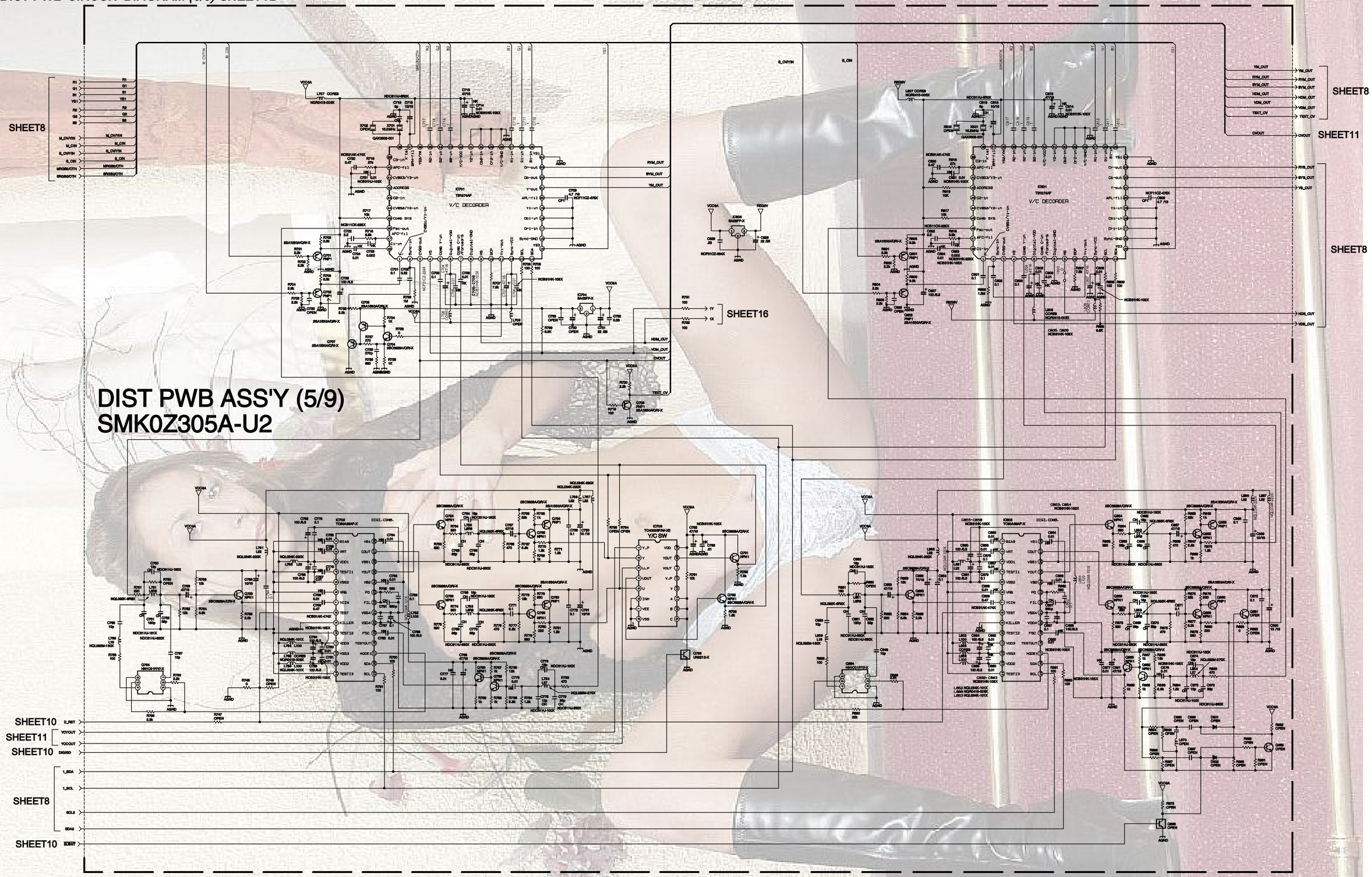


# DIST PWB ASS'Y (4/9)
# SMK0Z305A-U2



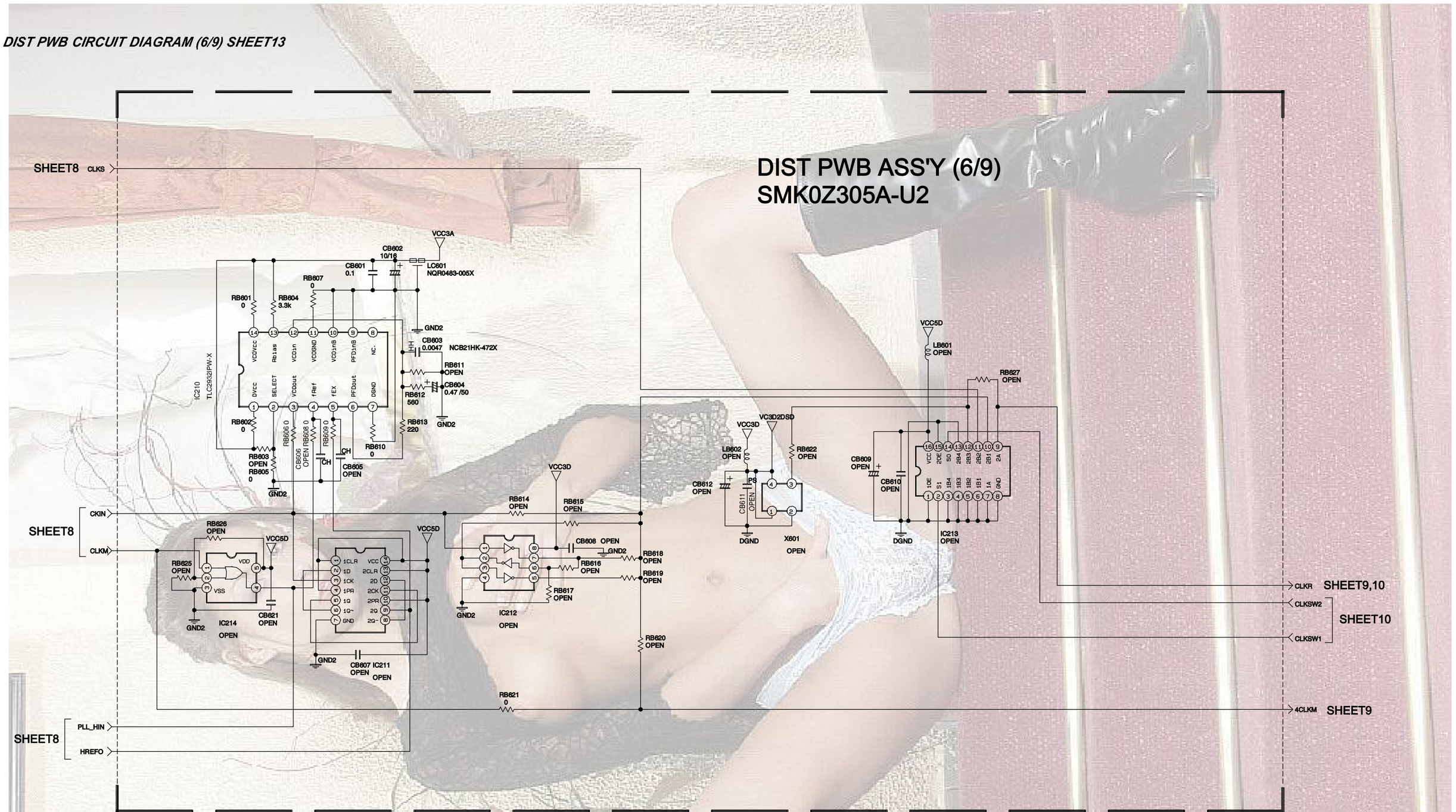

NOTE) Please refer to page 2-90 for voltages of this circuit diagram.

# DIST PWB ASS'Y (5/9)
# SMK0Z305A-U2



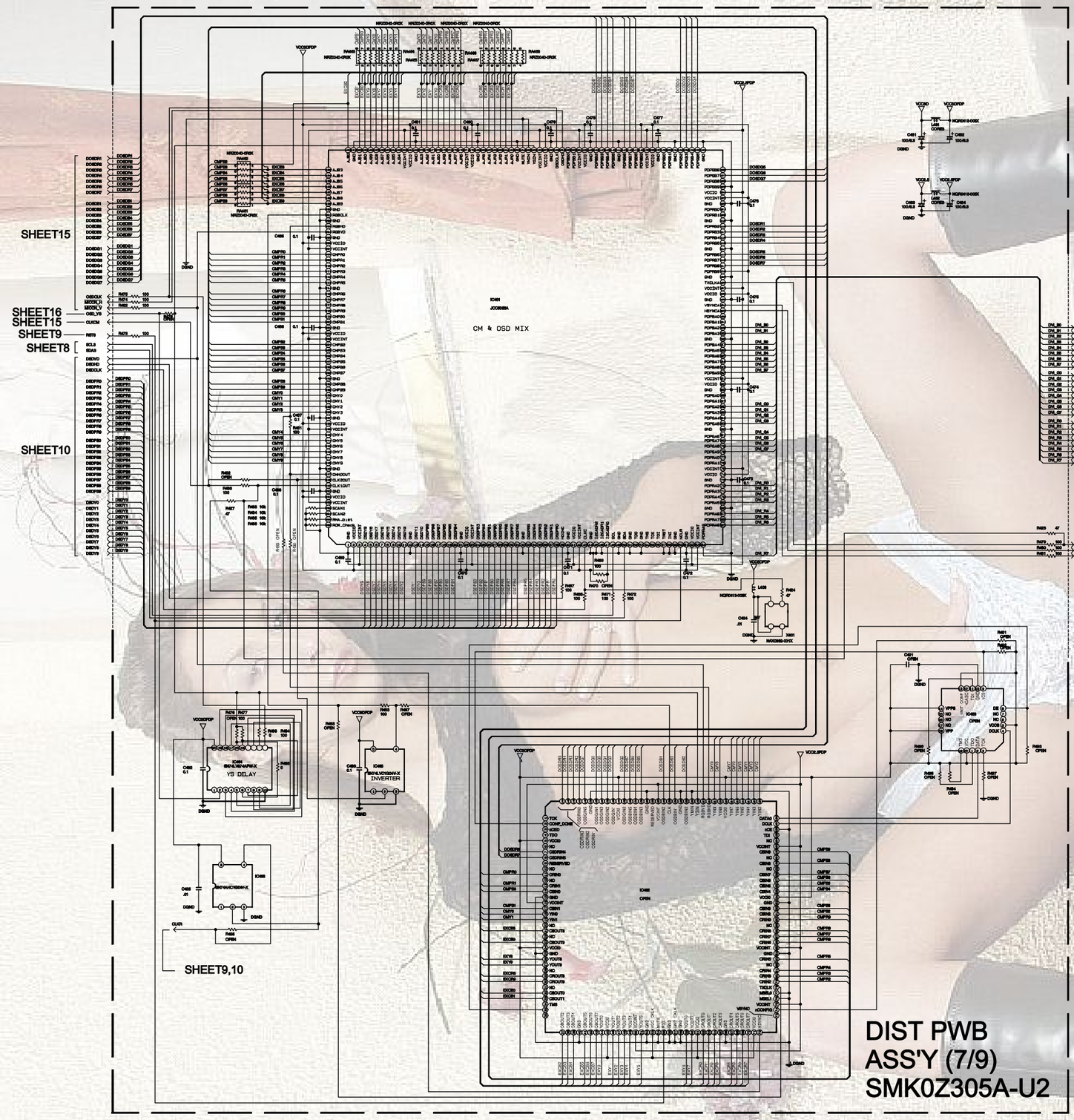

NOTES) 1. Please refer to page 2-90 for voltages of this circuit diagram.
2. Please refer to page 2-94 for waveforms of this circuit diagram.

# DIST PWB ASS'Y (6/9)
# SMK0Z305A-U2



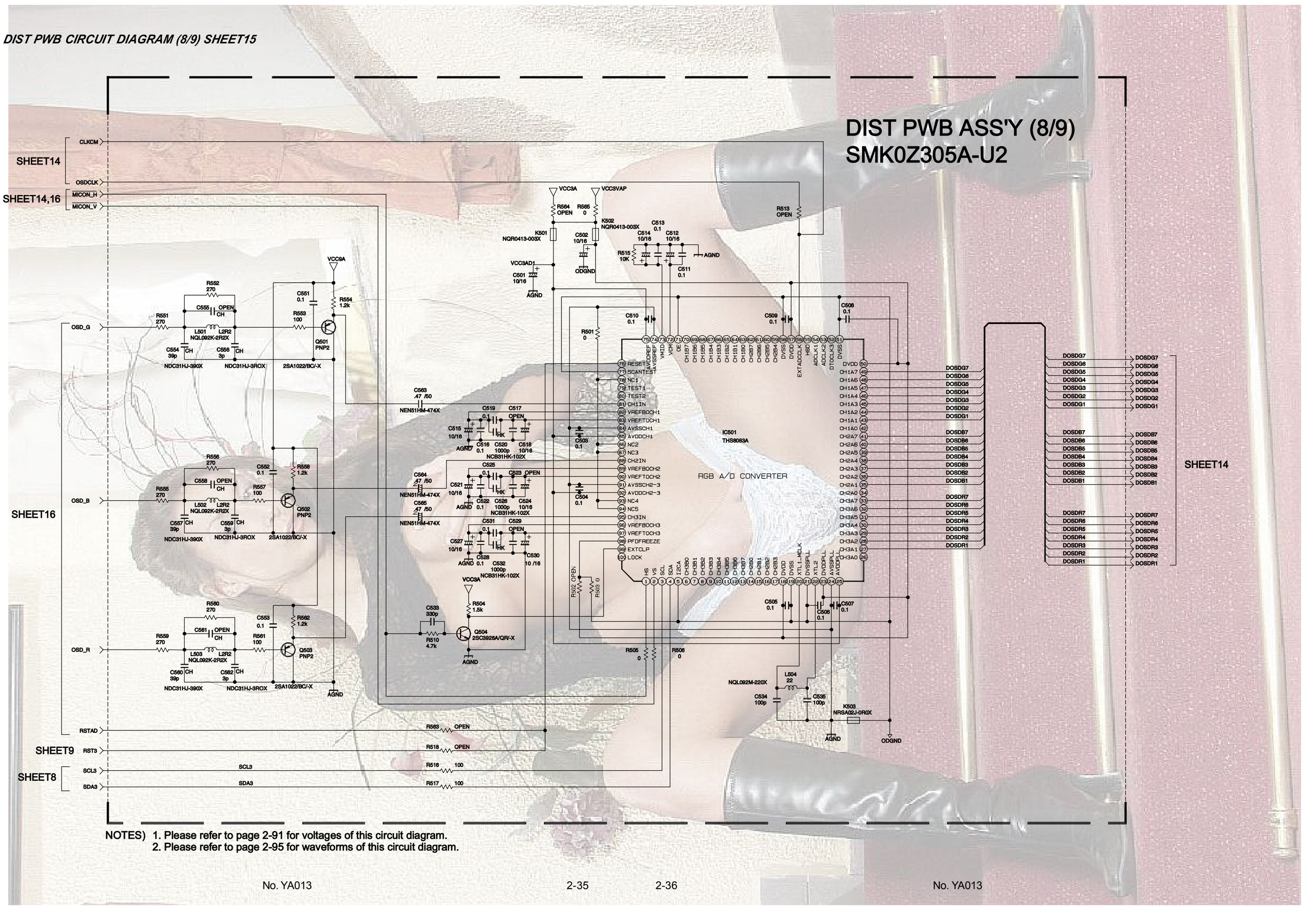

NOTE) Please refer to page 2-90 for voltages of this circuit diagram.

## DIST PWB CIRCUIT DIAGRAM (7/9) SHEET14




NOTE) Please refer to page 2-90 for voltages of this circuit diagram.

# DIST PWB ASS'Y (8/9)
# SMK0Z305A-U2




NOTES) 1. Please refer to page 2-91 for voltages of this circuit diagram.
2. Please refer to page 2-95 for waveforms of this circuit diagram.

## DIST PWB CIRCUIT DIAGRAM (9/9) SHEET18

# DIST PWB ASS'Y (9/9)
# SMK0Z305A-U2

MI-COM INTERFACE PWB CN00L (SHEET18)

MI-COM INTERFACE PWB CN0L1 (SHEET18)

MI-COM PWB CNJ1 (SHEET17)

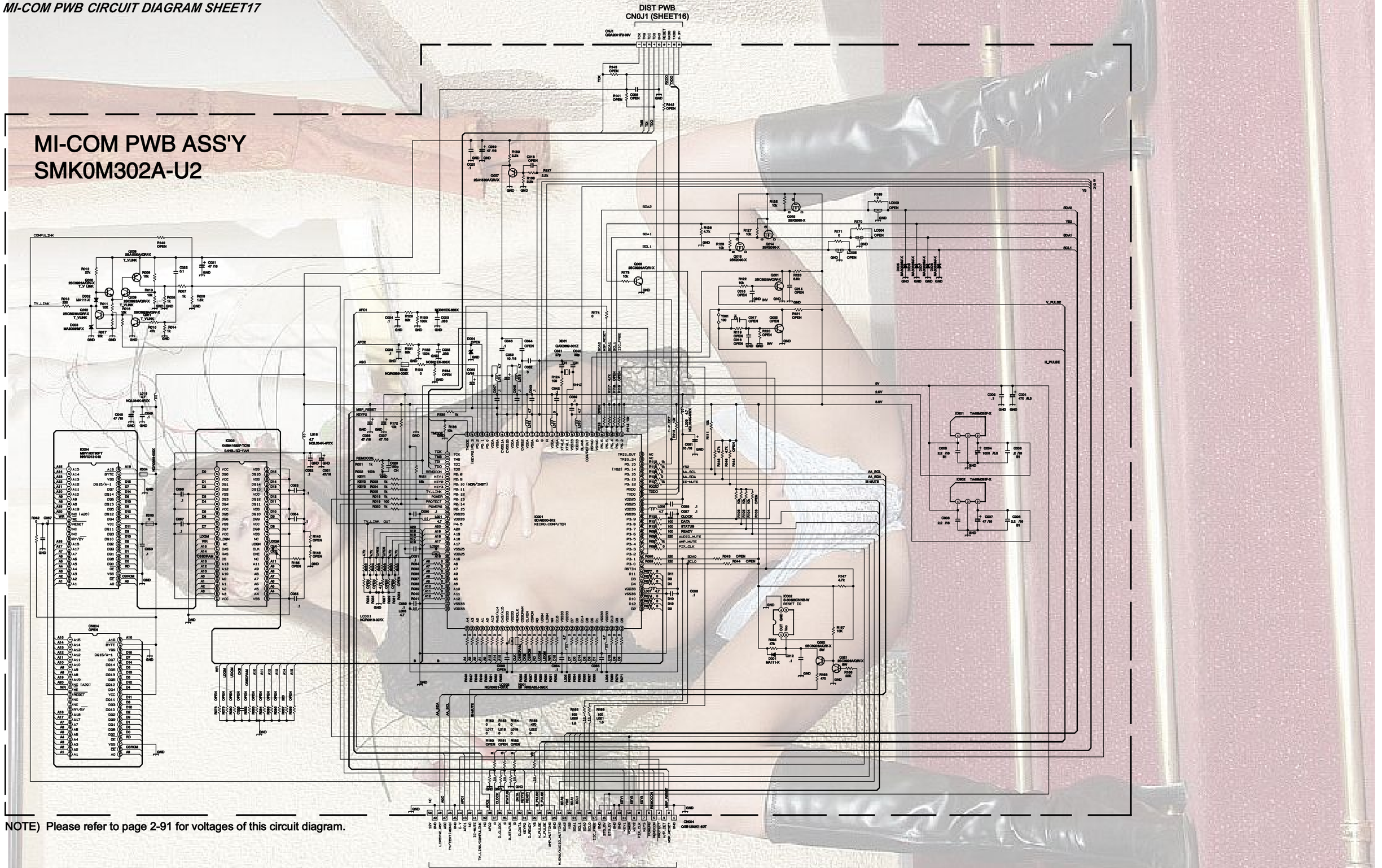
AV SWITCH PWB CN00K (SHEET5)

<DISPLAY UNIT>
DISPLAY INTERFACE PWB
CNMDR (SHEET21)

<DISPLAY UNIT>
DISPLAY INTERFACE PWB
CNDVI (SHEET22)

NOTES) 1. Please refer to page 2-91 for voltages of this circuit diagram.
2. Please refer to page 2-95 for waveforms of this circuit diagram.

# MI-COM PWB ASS'Y
# SMK0M302A-U2




NOTE) Please refer to page 2-91 for voltages of this circuit diagram.

# MI-COM INTERFACE PWB CIRCUIT DIAGRAM SHEET18

MI-COM PWB
CN004 (SHEET17)

GND MSP_RESET H/P_DET PROTECT REMOCON POWERG KEY3 PIX_CLK NOR/INST POWER KEY1 GND GND STB_5V STB_5V GND IIC_FREE SCLO SDAO SCL1 SDA1 YS2 SDA2 M.ENA/AUDIO_MUTTING GND AMP_MUTTING V_PULSE H_PULSE YS D_READY KEYP2 D_DATA B D_STATUS G D_CLOCK R AFC2 AA_FREG TV_LINK/COMPULINK IE_MUTE NC AFC1 C.V GND TV/TEXT(MONO) AGC/KEYP1 LIPSYNC_RST GND 12V

CN014
QGB1232J1-50

CN00L
QGA2001C1-14

| | |
|---|---|
| 14 | GND |
| 13 | V_PULSE |
| 12 | H_PULSE |
| 11 | GND |
| 10 | D_CLOCK |
| 9 | GND |
| 8 | REMOCON |
| 7 | P.DET |
| 6 | KEYP2 |
| 5 | KEYP1 |
| 4 | YS |
| 3 | B |
| 2 | G |
| 1 | R |

DIST PWB
CN00L (SHEET16)

CN0L1
QGA2001C1-06

| | |
|---|---|
| 6 | GND |
| 5 | MECA |
| 4 | SDA |
| 3 | SCL |
| 2 | DVI RST |
| 1 | DVI HP |

DIST PWB
CN0L1 (SHEET16)

Q102
DTC144ESA-T

R101
10K

IC101
CD74HC4066E

VCC 1C 4C 41/O 40/I 30/I 31/O
1I/O 10/I 20/I 21/O 2C 3C GND

C101
.01

R103
47k

R102
10k

Q101
2SC1815/YG/-T

C102
.01

R106
10k

R107
10k

R108
10k

R104
470

R105
470

C103
.01

IC102
CD74HC4053E

GND

CN0TX
QGA2001C1-04Z

C104 C105 C106
1/50 1/50 1/50
QETN1HM-105Z
QETN1HM-105Z
QETN1HM-105Z

MAIN PWB
CN0TX (SHEET2)

MI-COM INTERFACE
PWB ASS'Y
SMK0M312A-U2

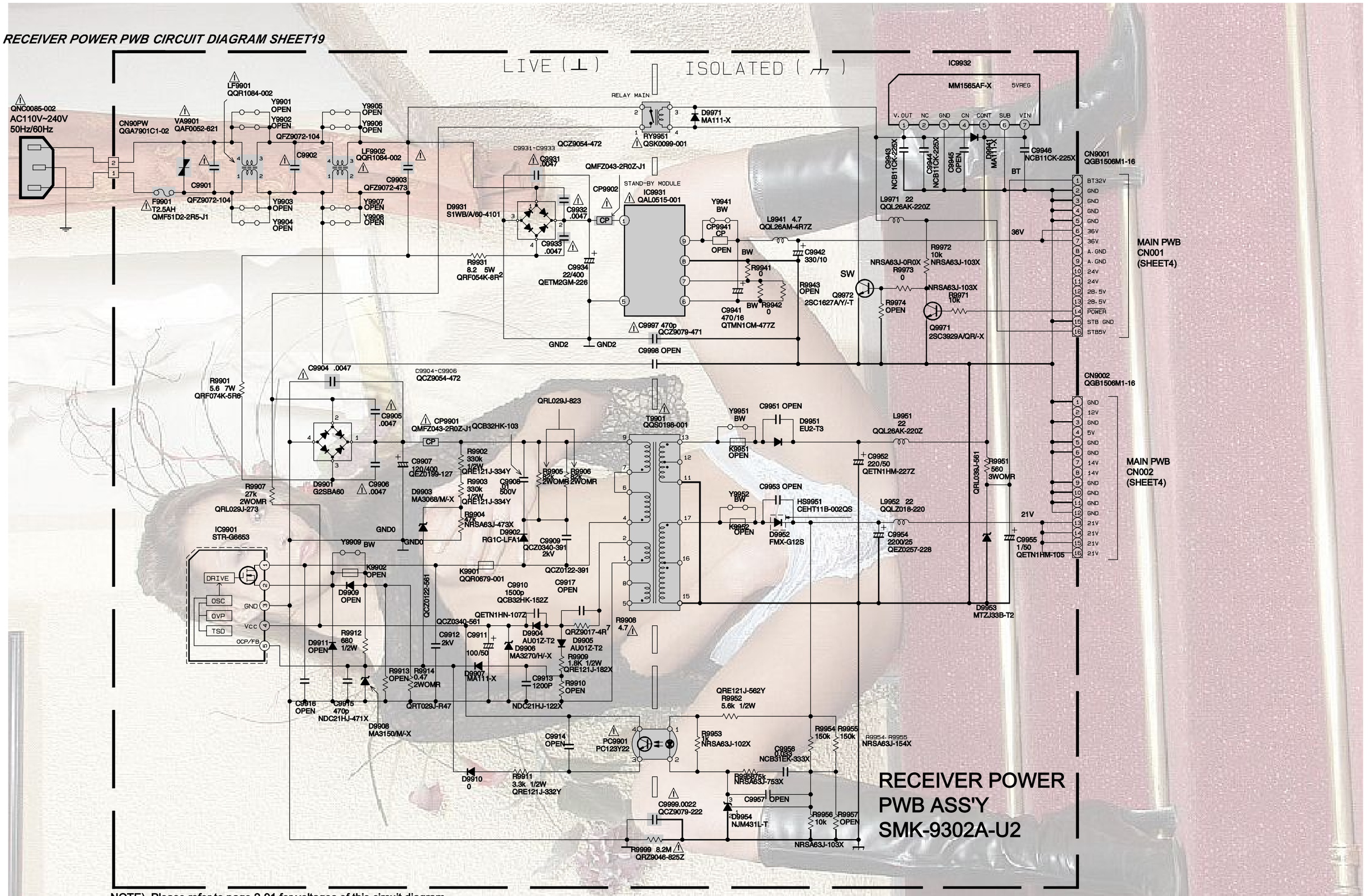
CN004
QGB1232K-50

GND MSP_RESET H/P_DET PROTECT NC POWERG NC NC NC POWER KEY1 GND GND STB_5V STB_5V GND IIC_FREE SCLO SDAO SCL1 SDA1 YS2 SDA2 M.ENA/AUDIO_MUTTING GND AMP_MUTTING NC NC NC NC NC NC NC NC NC NC AFC2 AA_FREG TV_LINK/COMPULINK NC NC AFC1 C.V GND NC AGC LIPSYNC_RST GND 12V

MAIN PWB
CN004 (SHEET4)

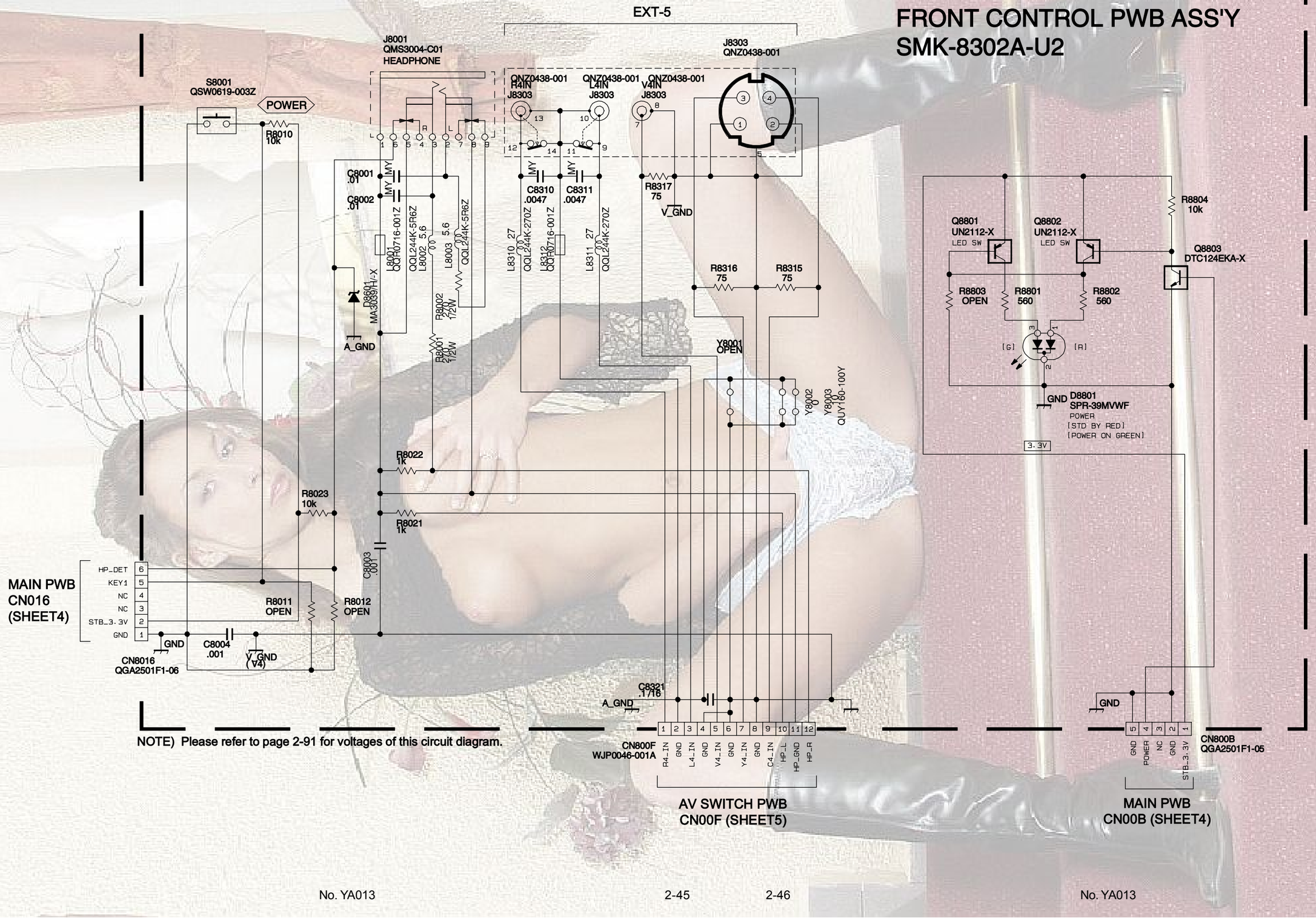
NOTE) Please refer to page 2-91 for voltages of this circuit diagram.

## RECEIVER POWER PWB CIRCUIT DIAGRAM SHEET19




NOTE) Please refer to page 2-91 for voltages of this circuit diagram.

# FRONT CONTROL PWB ASS'Y
# SMK-8302A-U2

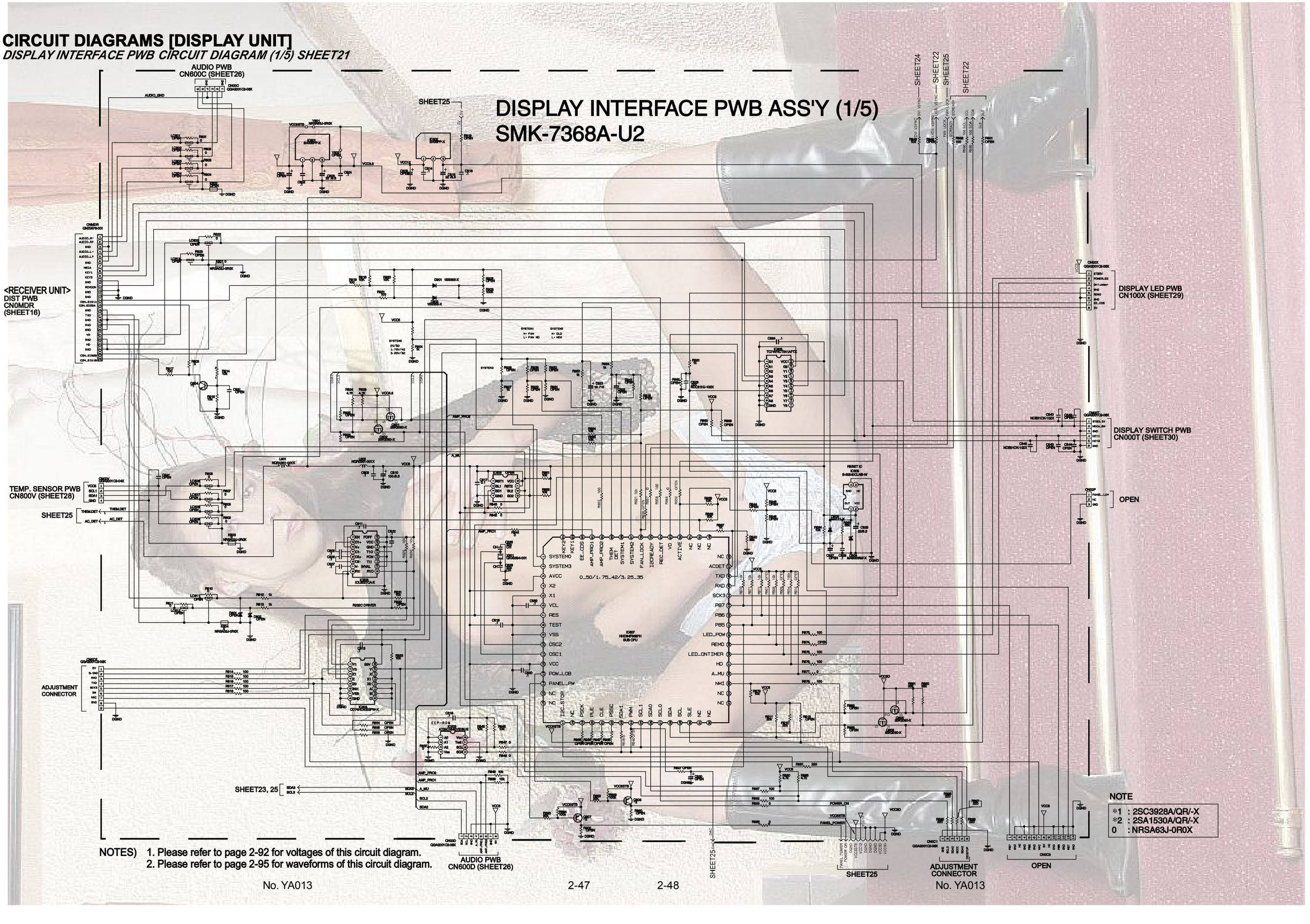



NOTE) Please refer to page 2-91 for voltages of this circuit diagram.

# CIRCUIT DIAGRAMS [DISPLAY UNIT]

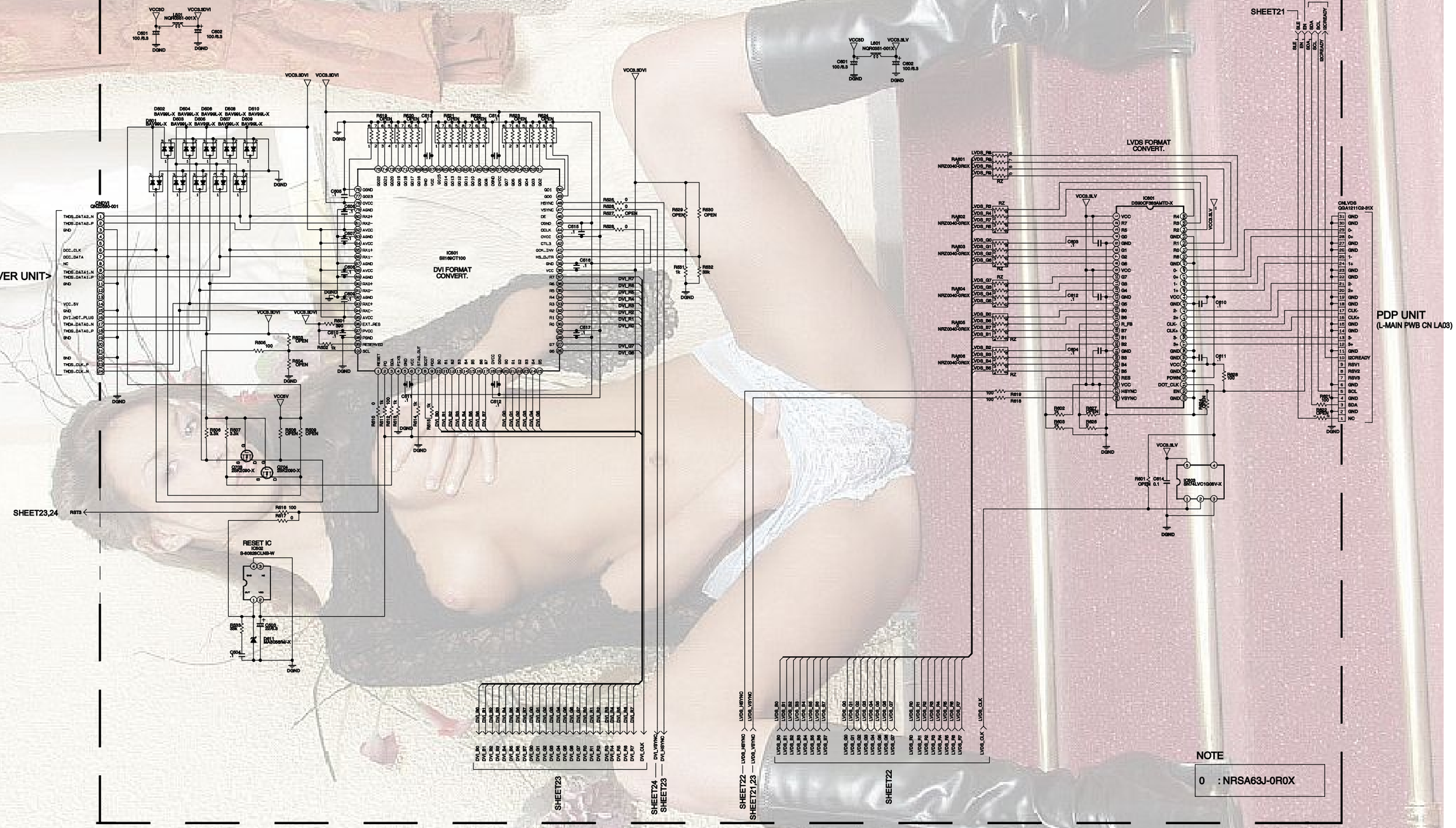
*DISPLAY INTERFACE PWB CIRCUIT DIAGRAM (1/5) SHEET21*

## DISPLAY INTERFACE PWB ASS'Y (1/5)
## SMK-7368A-U2



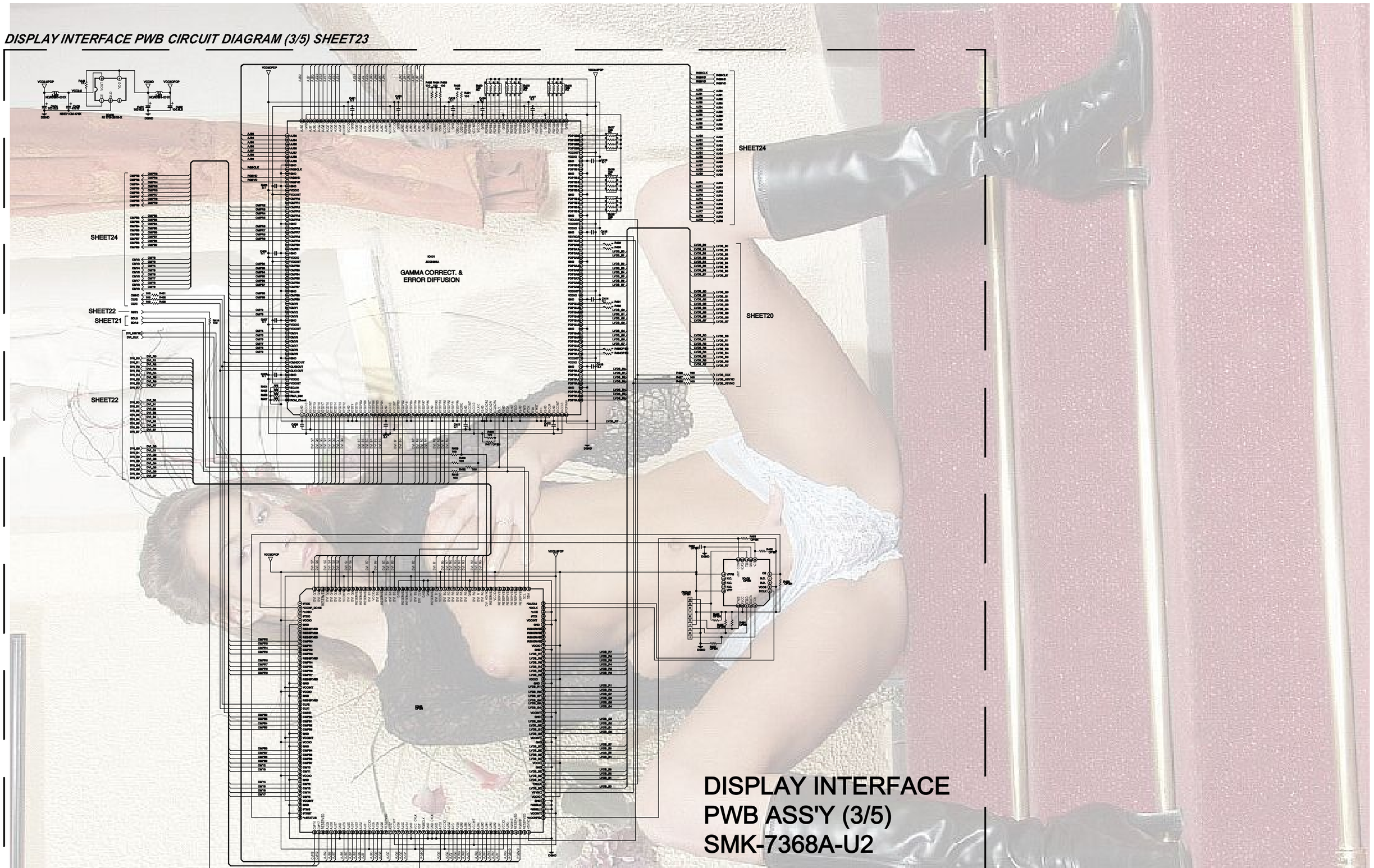

NOTES) 1. Please refer to page 2-92 for voltages of this circuit diagram.
2. Please refer to page 2-95 for waveforms of this circuit diagram.

# DISPLAY INTERFACE PWB ASS'Y (2/5)
# SMK-7368A-U2




NOTES) 1. Please refer to page 2-92 for voltages of this circuit diagram.
2. Please refer to page 2-95 for waveforms of this circuit diagram.

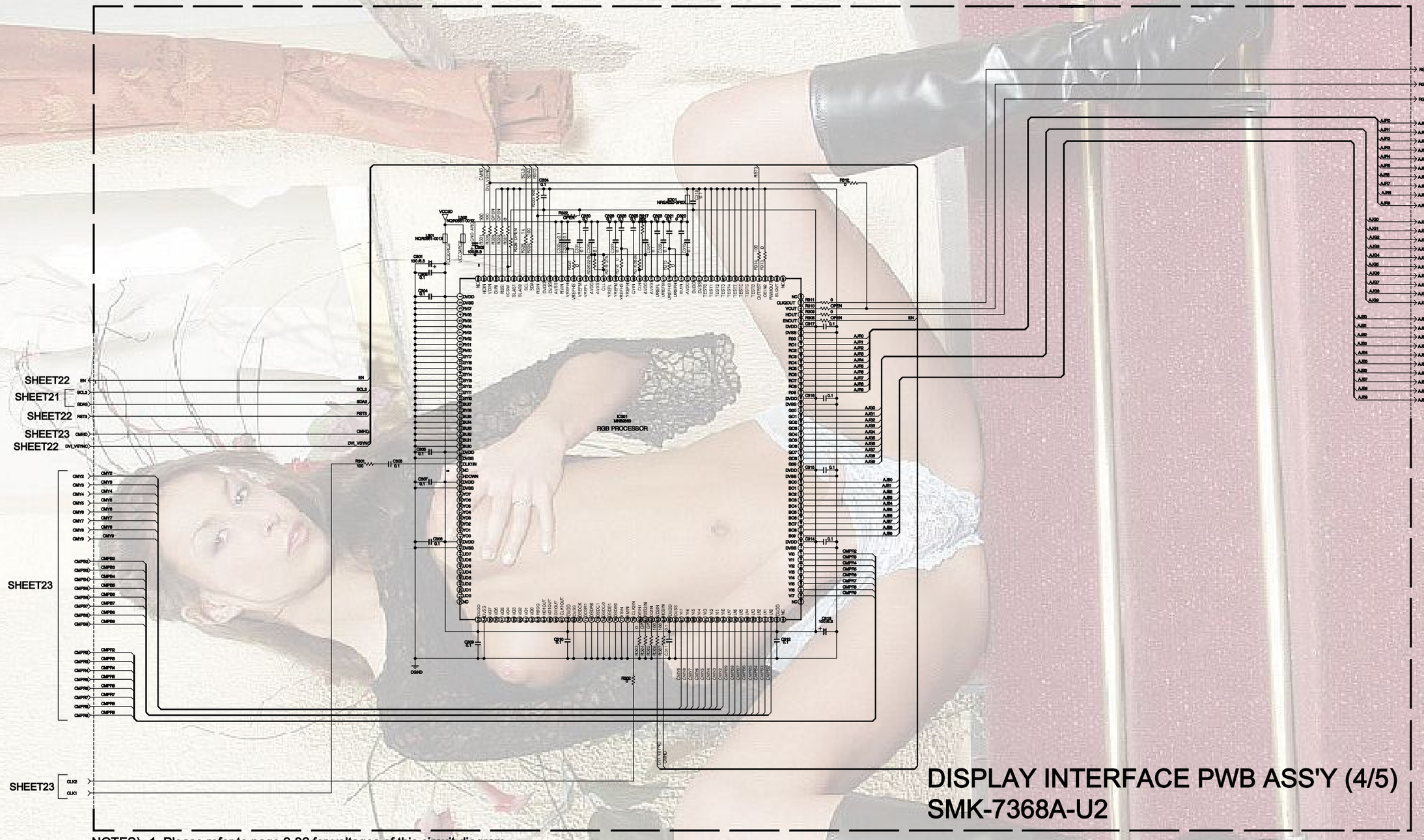
## *DISPLAY INTERFACE PWB CIRCUIT DIAGRAM (3/5) SHEET23*




# DISPLAY INTERFACE PWB ASS'Y (3/5) SMK-7368A-U2

NOTES) 1. Please refer to page 2-92 for voltages of this circuit diagram.
2. Please refer to page 2-95 for waveforms of this circuit diagram.

## DISPLAY INTERFACE PWB CIRCUIT DIAGRAM (4/5) SHEET24



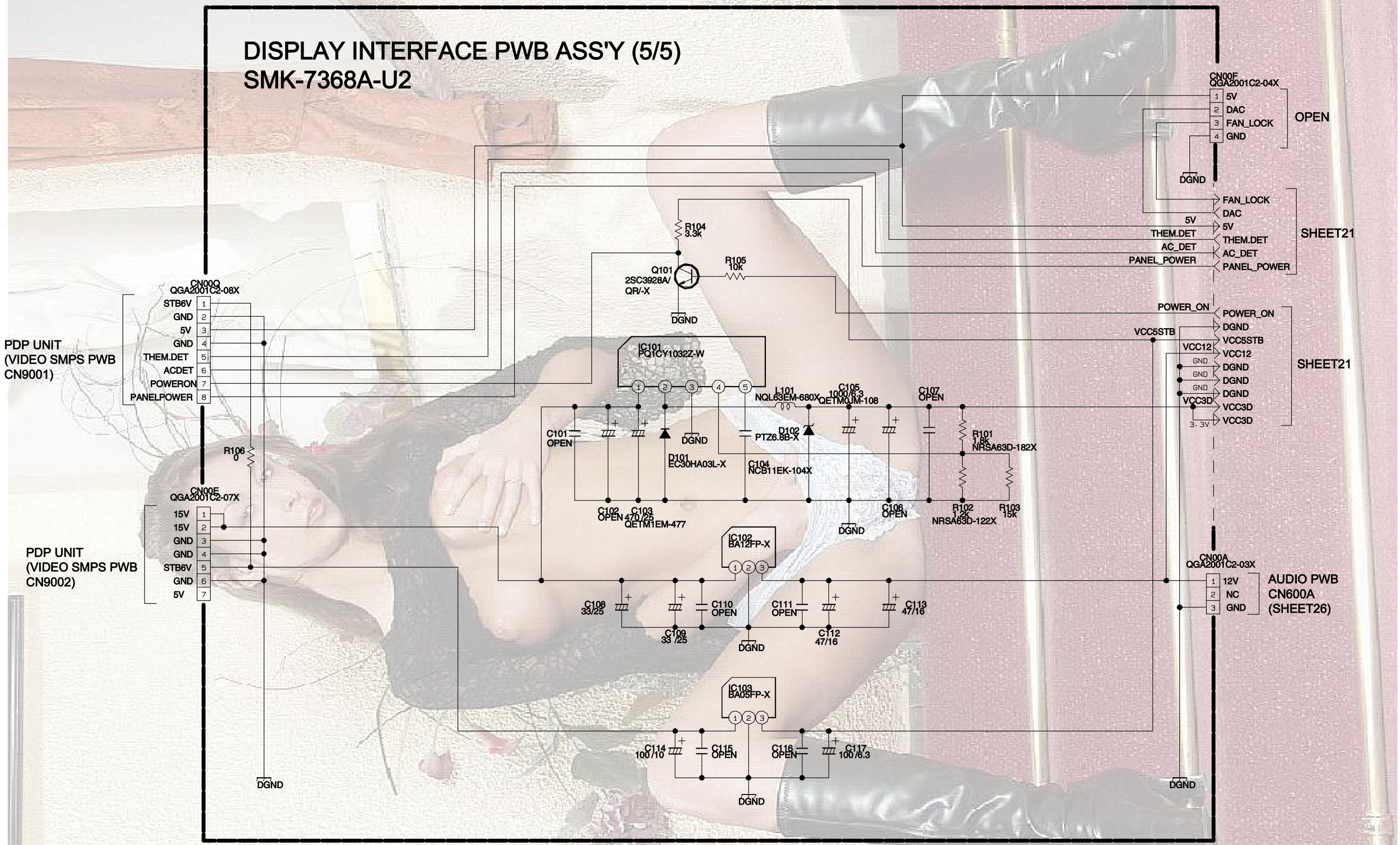

# DISPLAY INTERFACE PWB ASS'Y (4/5)
# SMK-7368A-U2

NOTES) 1. Please refer to page 2-92 for voltages of this circuit diagram.
2. Please refer to page 2-95 for waveforms of this circuit diagram.

**NOTE**

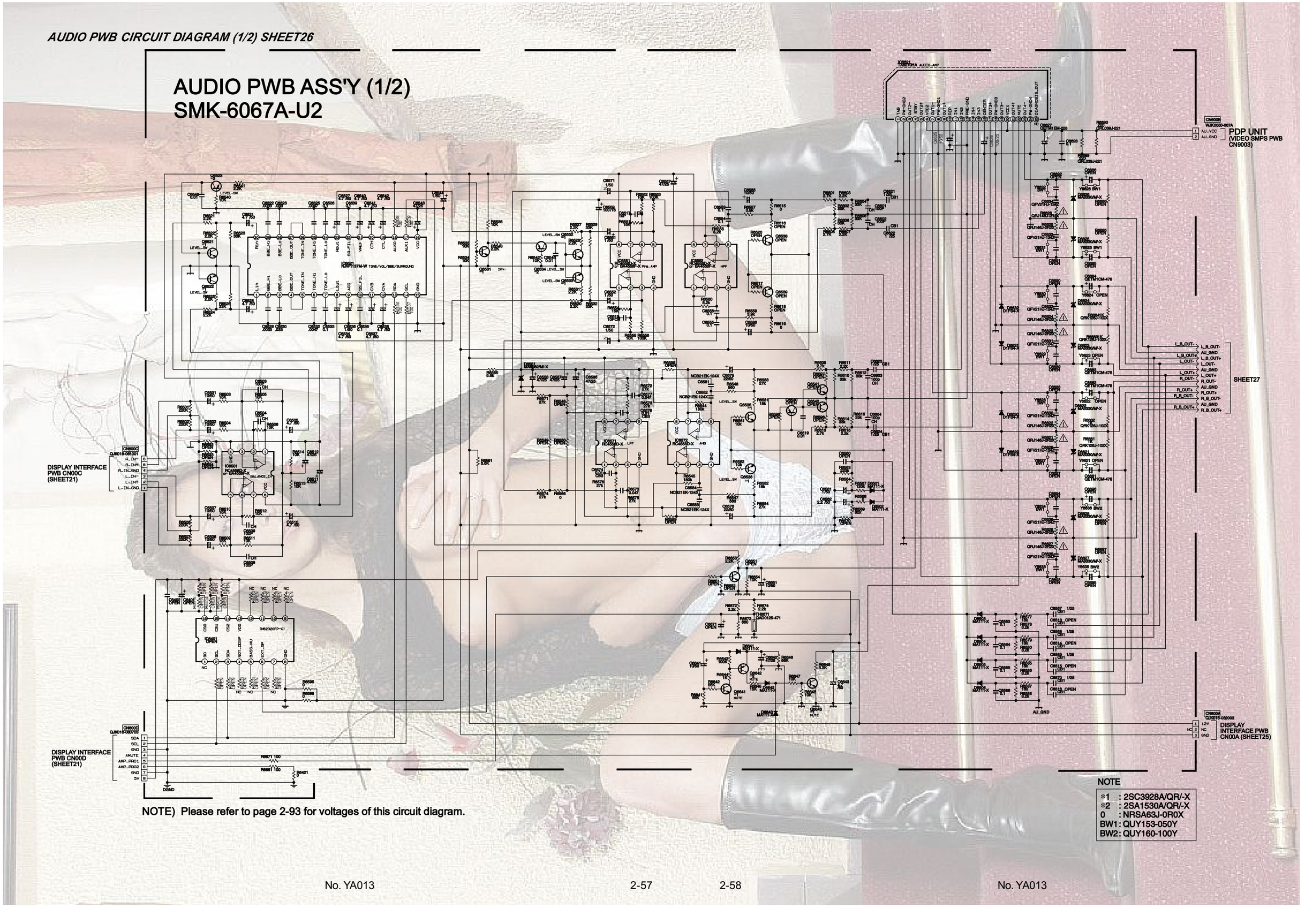
| | |
|---|---|
| 0 | : NRSA63J-0R0X |

# DISPLAY INTERFACE PWB ASS'Y (5/5)
# SMK-7368A-U2




NOTE) Please refer to page 2-92 for voltages of this circuit diagram.

# AUDIO PWB ASS'Y (1/2)
# SMK-6067A-U2

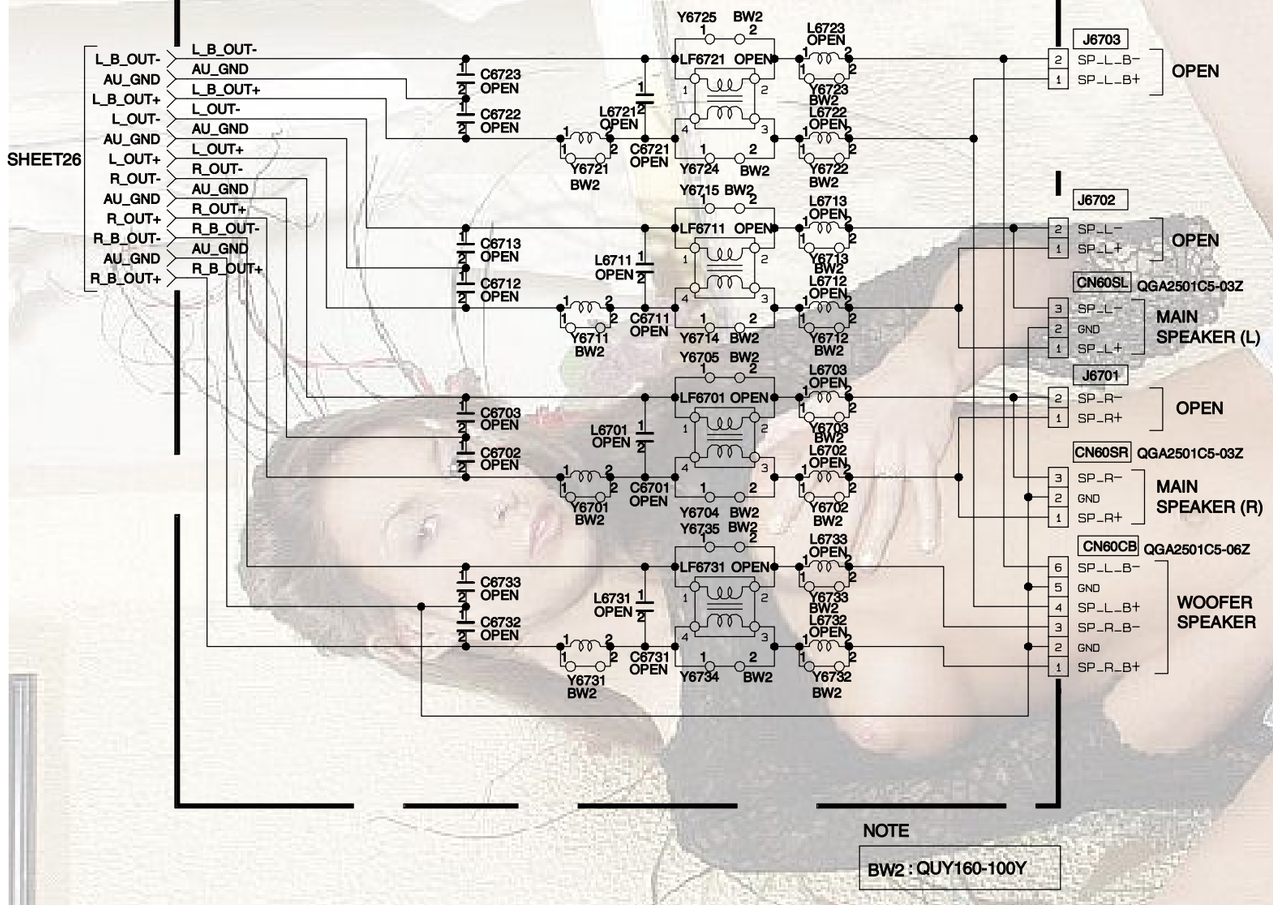



NOTE) Please refer to page 2-93 for voltages of this circuit diagram.

NOTE

| | |
|---|---|
| ※1 | : 2SC3928A/QR/-X |
| ※2 | : 2SA1530A/QR/-X |
| 0 | : NRSA63J-0R0X |
| BW1 | : QUY153-050Y |
| BW2 | : QUY160-100Y |

# AUDIO PWB ASS'Y (2/2)
# SMK-6067A-U2



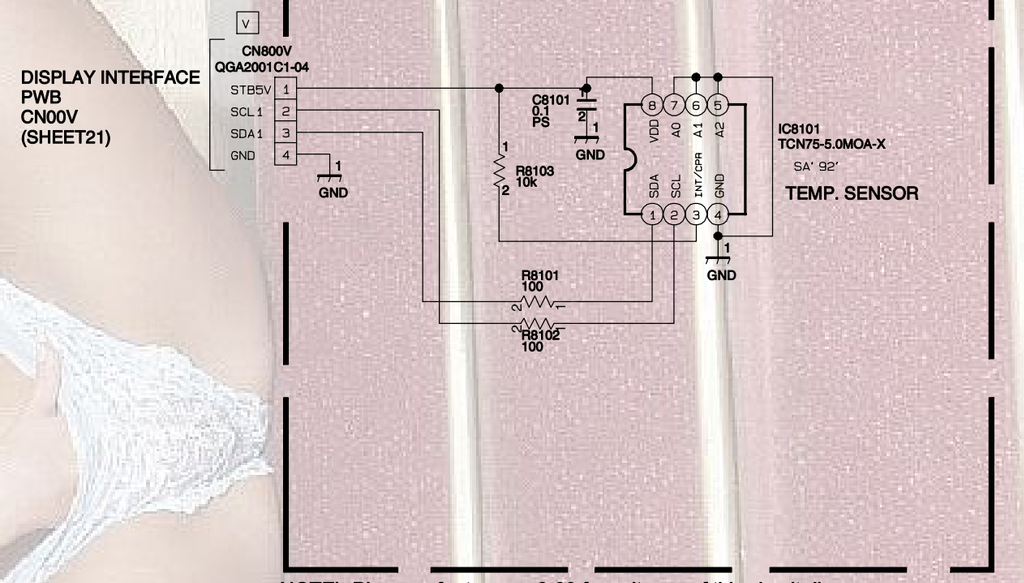

NOTE

BW2 : QUY160-100Y



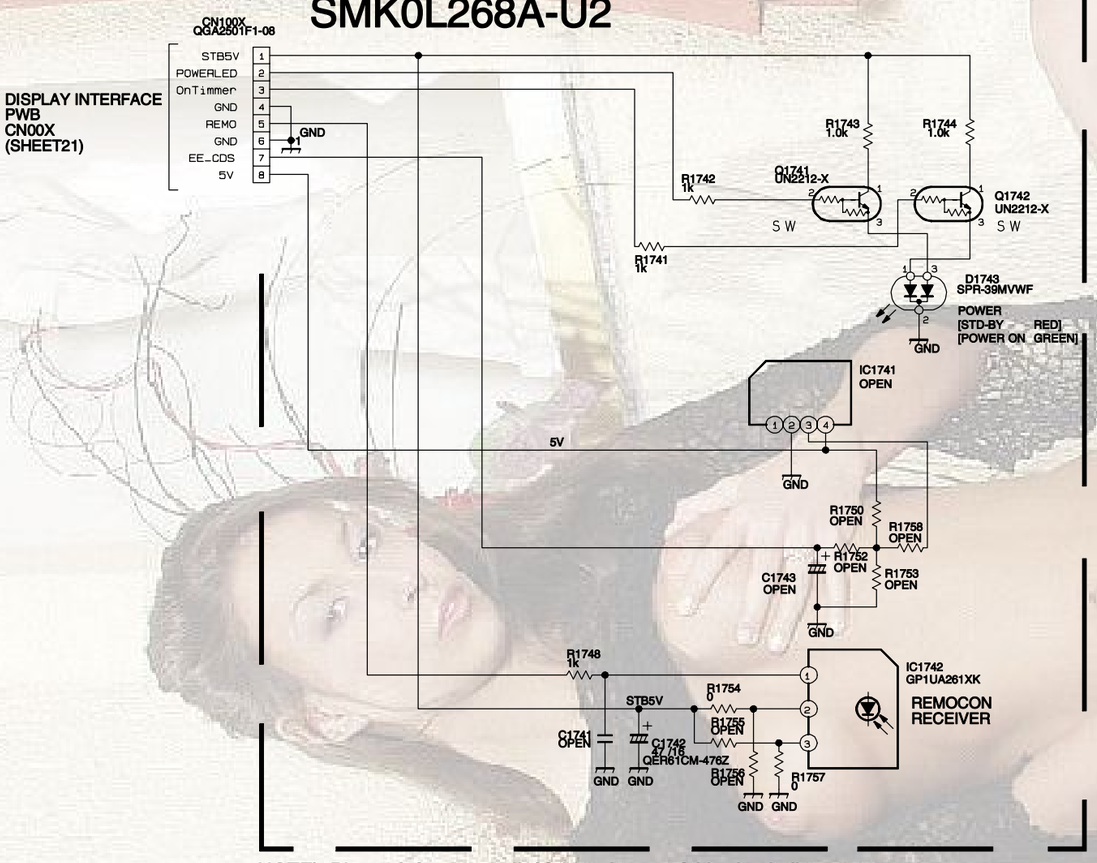


# TEMP. SENSOR PWB ASS'Y
# SMK-8381A-U2




NOTE) Please refer to page 2-93 for voltages of this circuit diagram.

# DISPLAY LED PWB ASS'Y
# SMK0L268A-U2



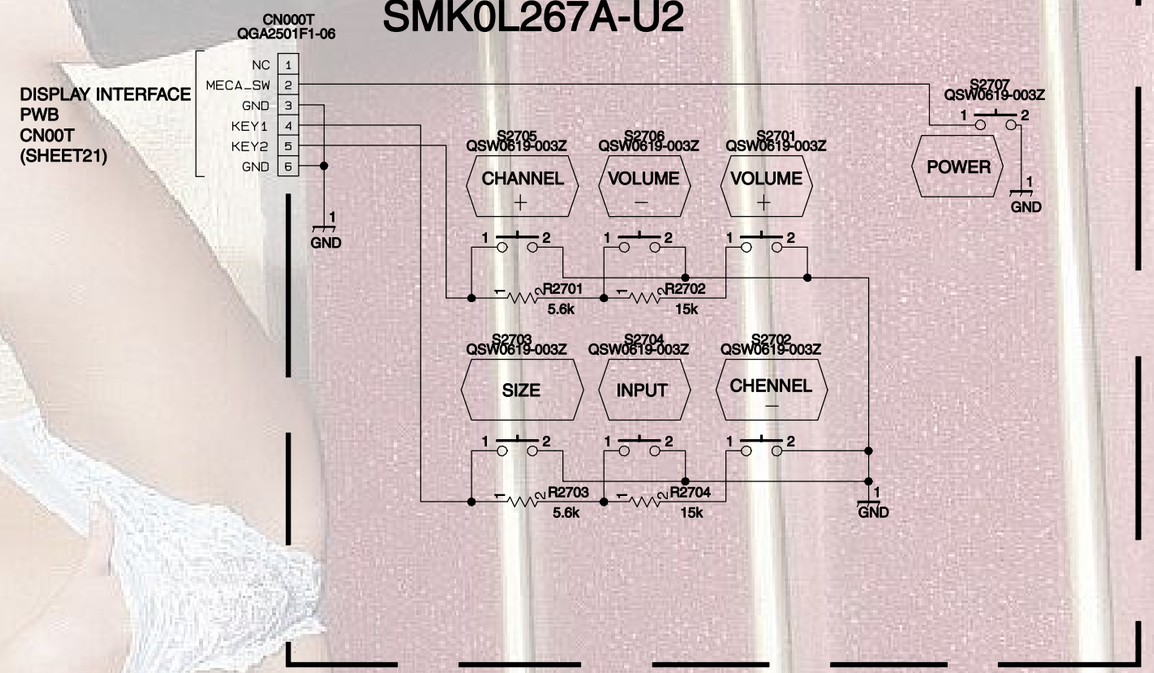

NOTE) Please refer to page 2-93 for voltages of this circuit diagram.

NOTE

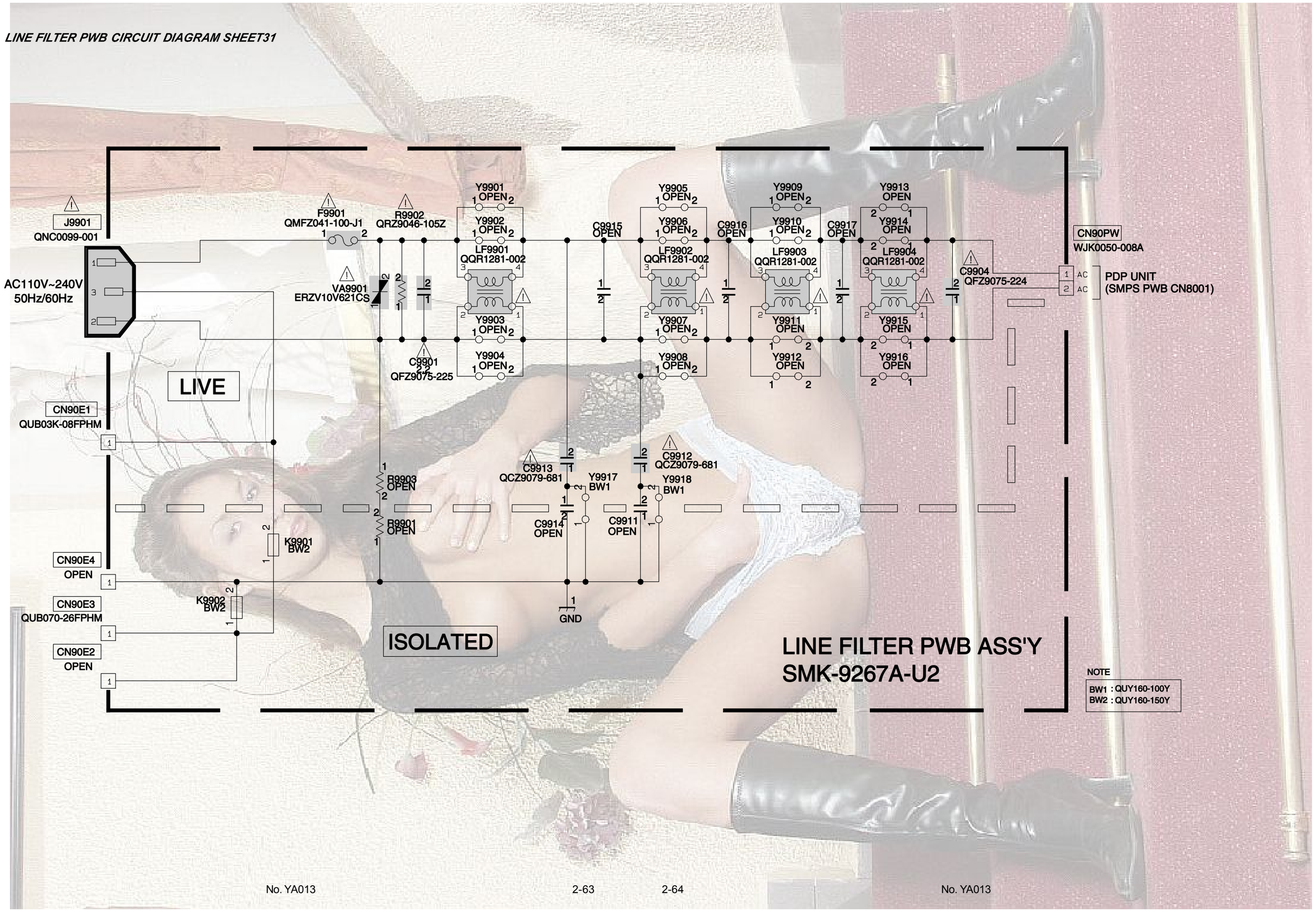
0 : NRSA63J-0R0X



# DISPLAY SWITCH PWB ASS'Y
# SMK0L267A-U2

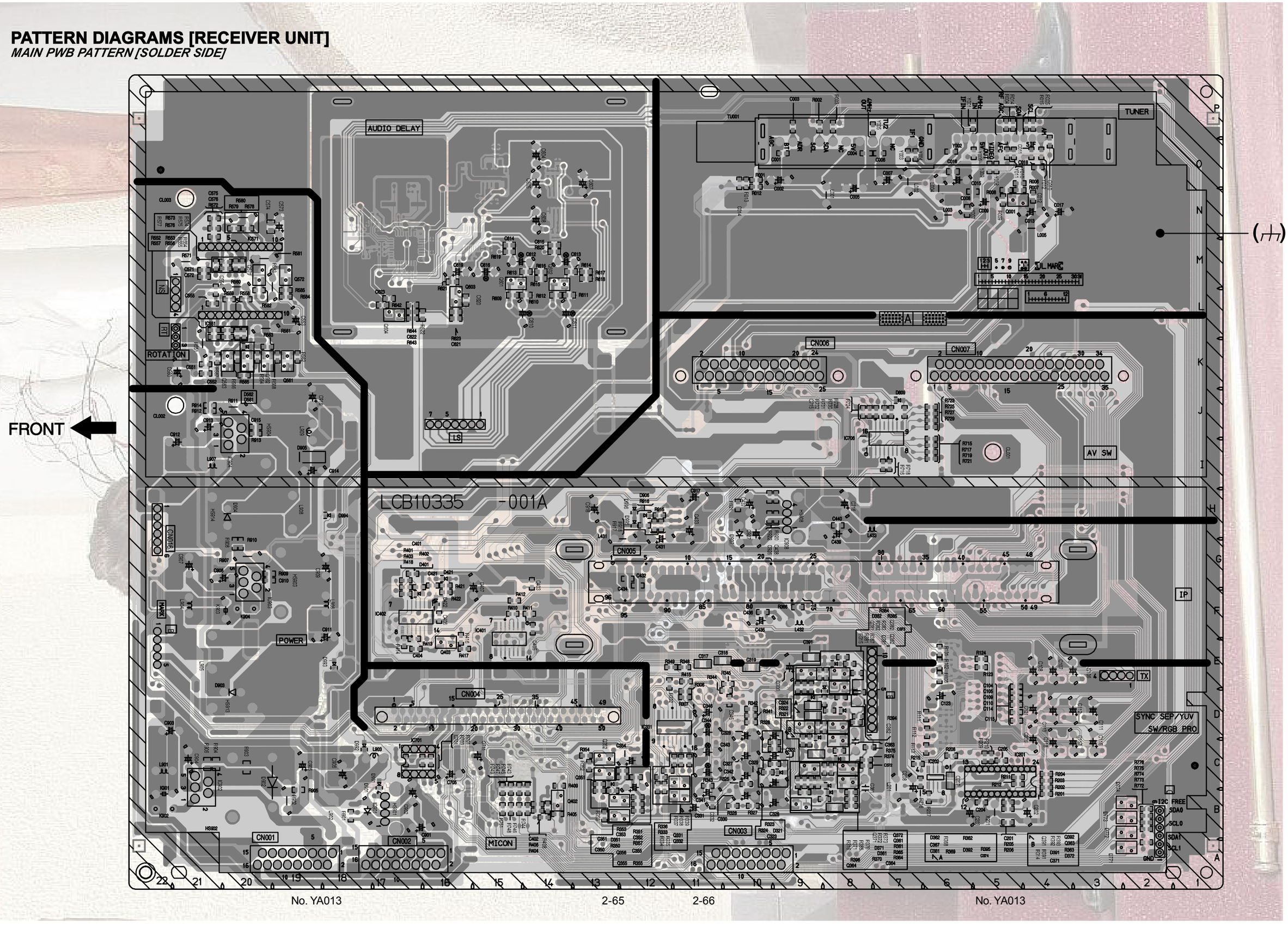


*LINE FILTER PWB CIRCUIT DIAGRAM SHEET31*

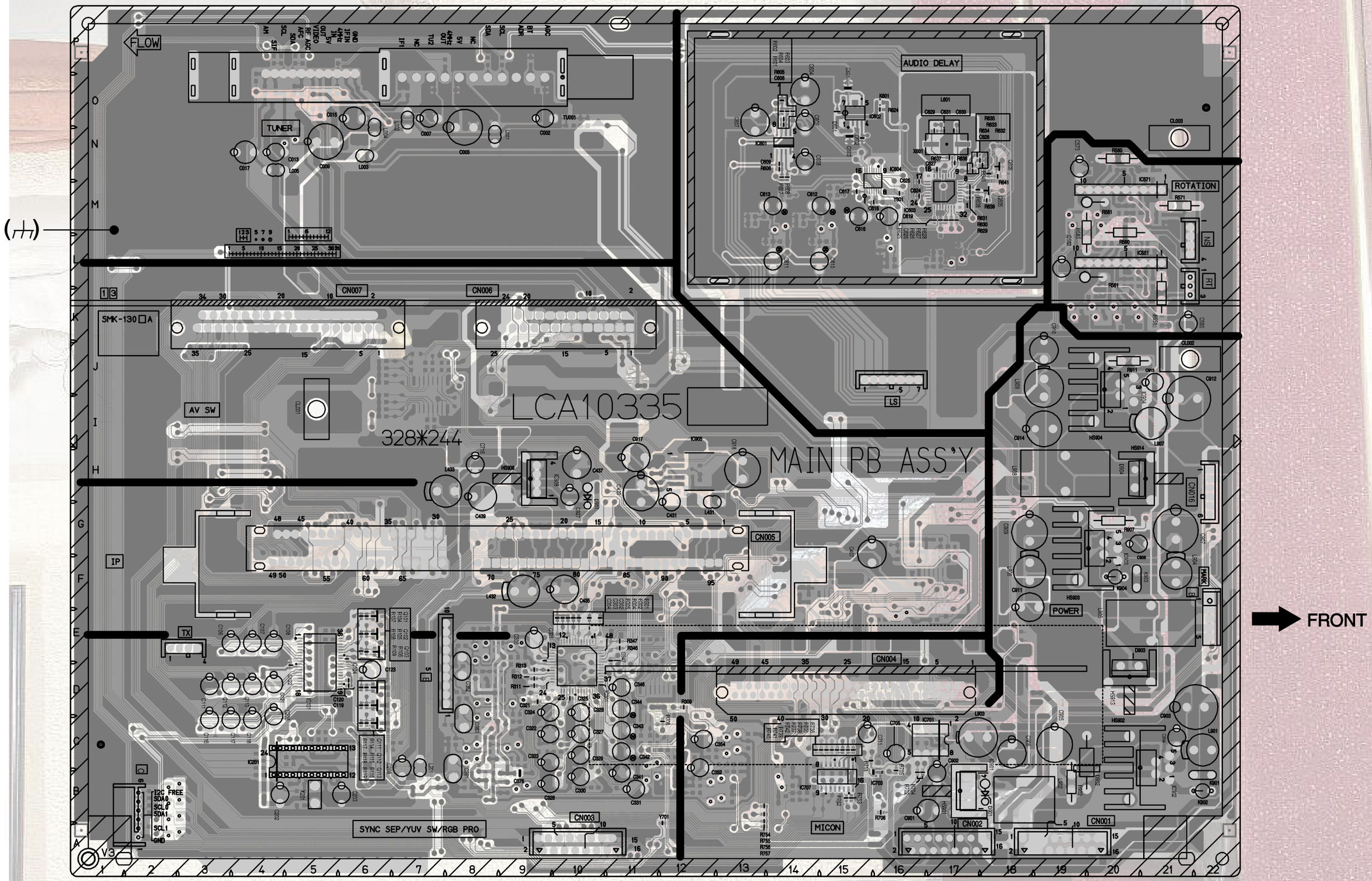


# PATTERN DIAGRAMS [RECEIVER UNIT]

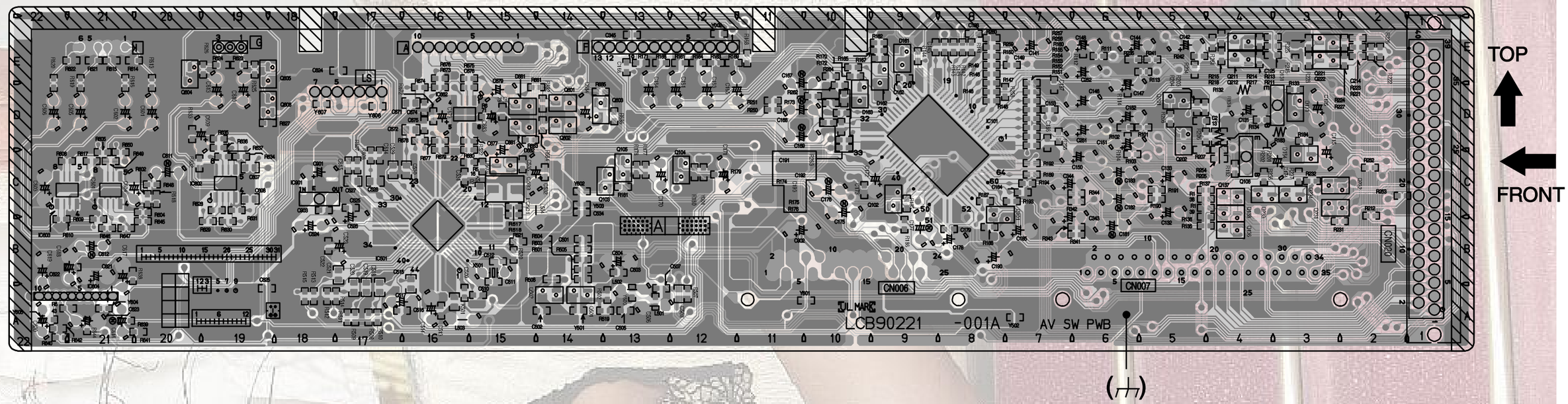
*MAIN PWB PATTERN [SOLDER SIDE]*



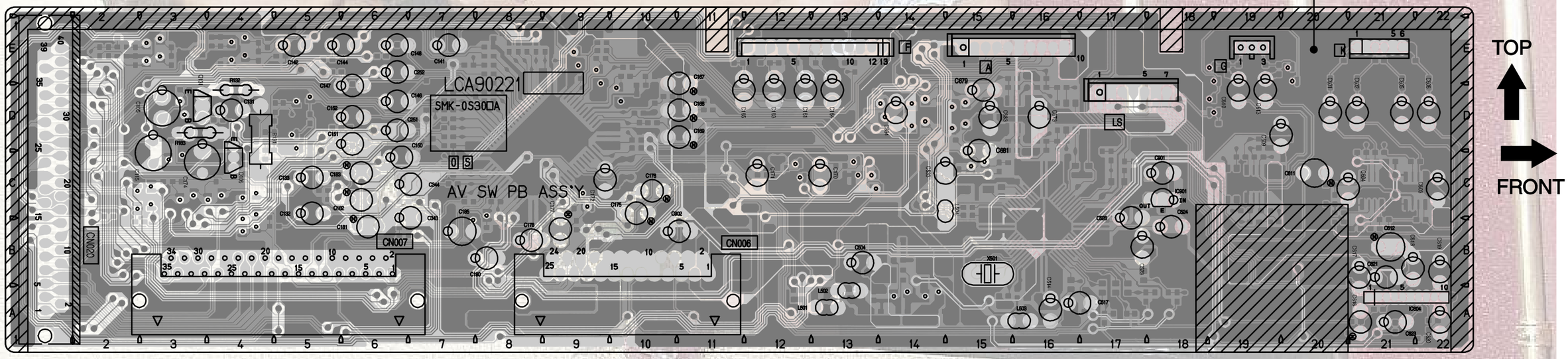
***MAIN PWB PATTERN [PARTS SIDE]***



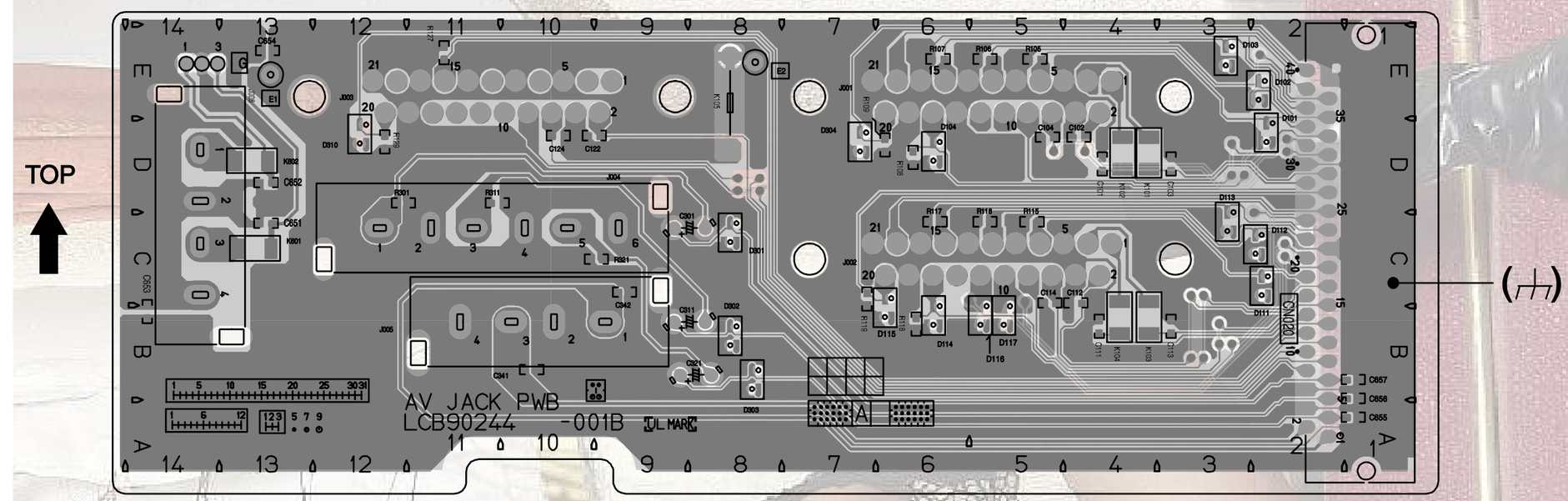
***AV SWITCH PWB PATTERN*** *[SOLDER SIDE]*



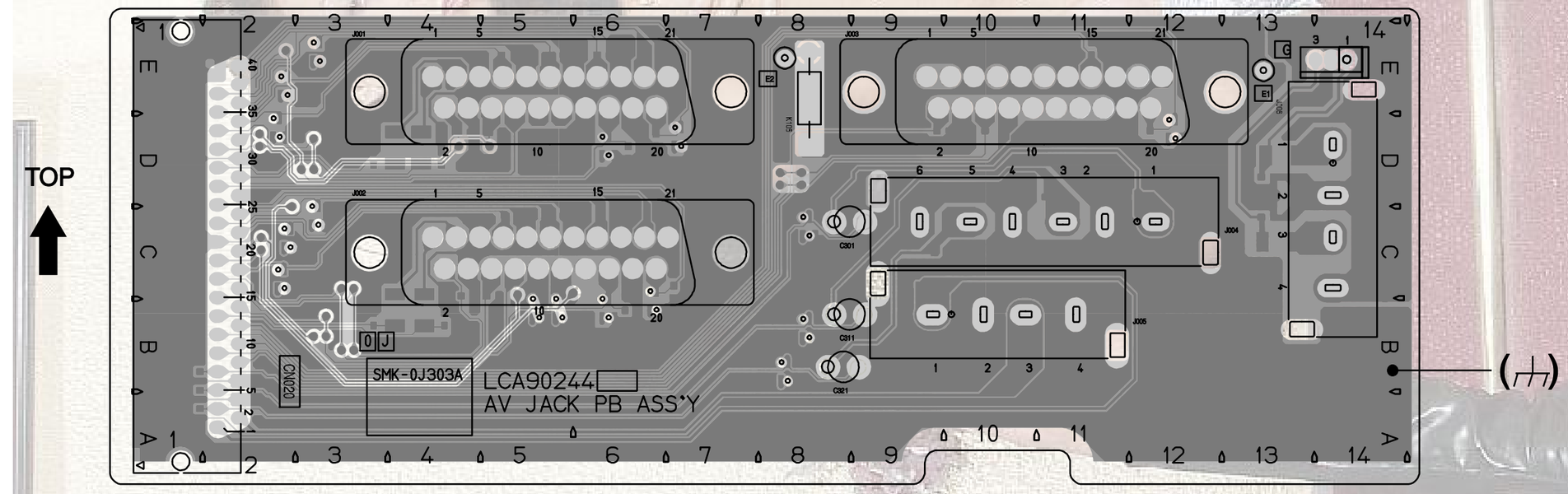

***AV SWITCH PWB PATTERN*** [PARTS SIDE]



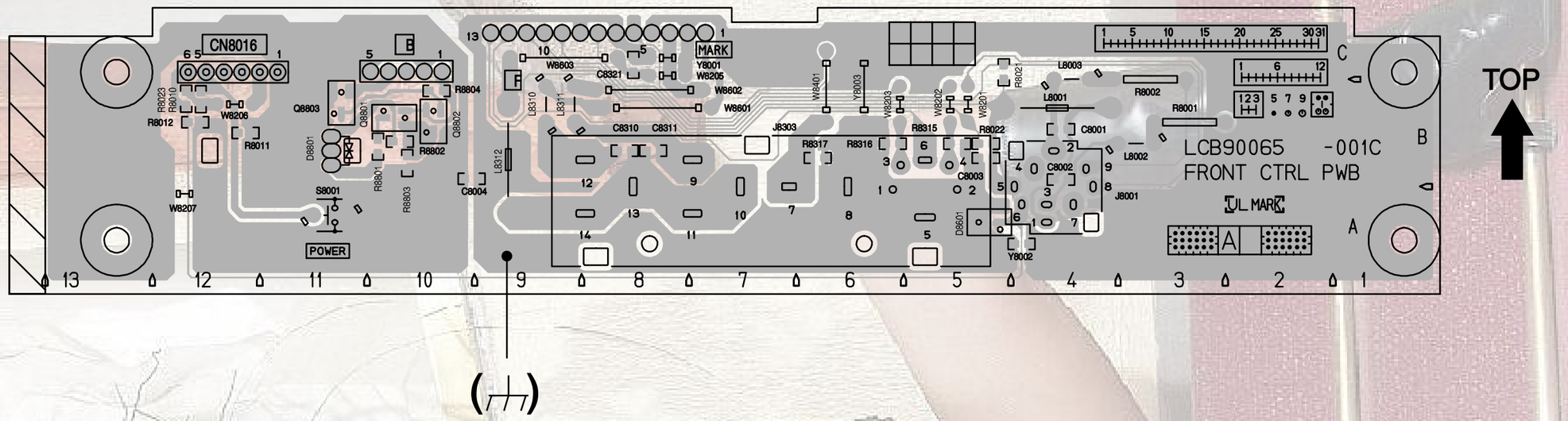
***AV JACK PWB PATTERN*** *[SOLDER SIDE]*



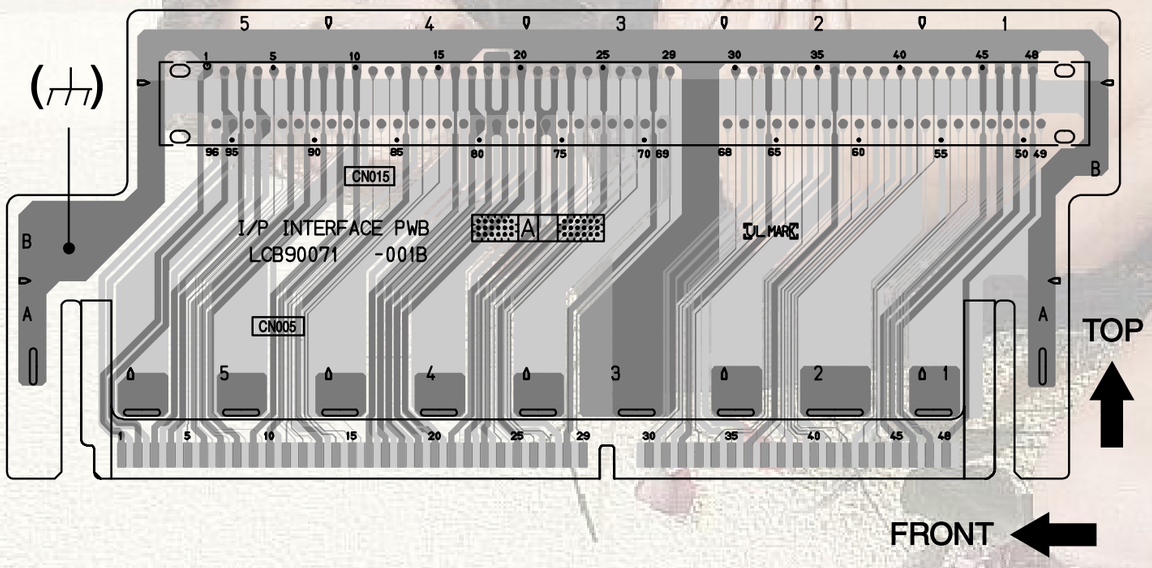

***AV JACK PWB PATTERN*** [PARTS SIDE]



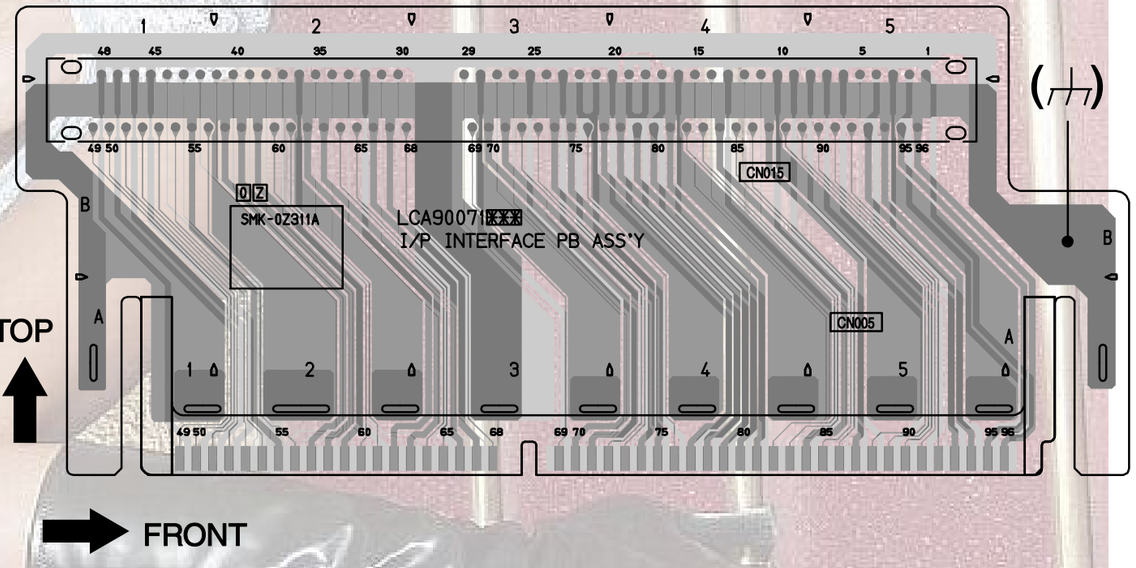
## *FRONT CONTROL PWB PATTERN*



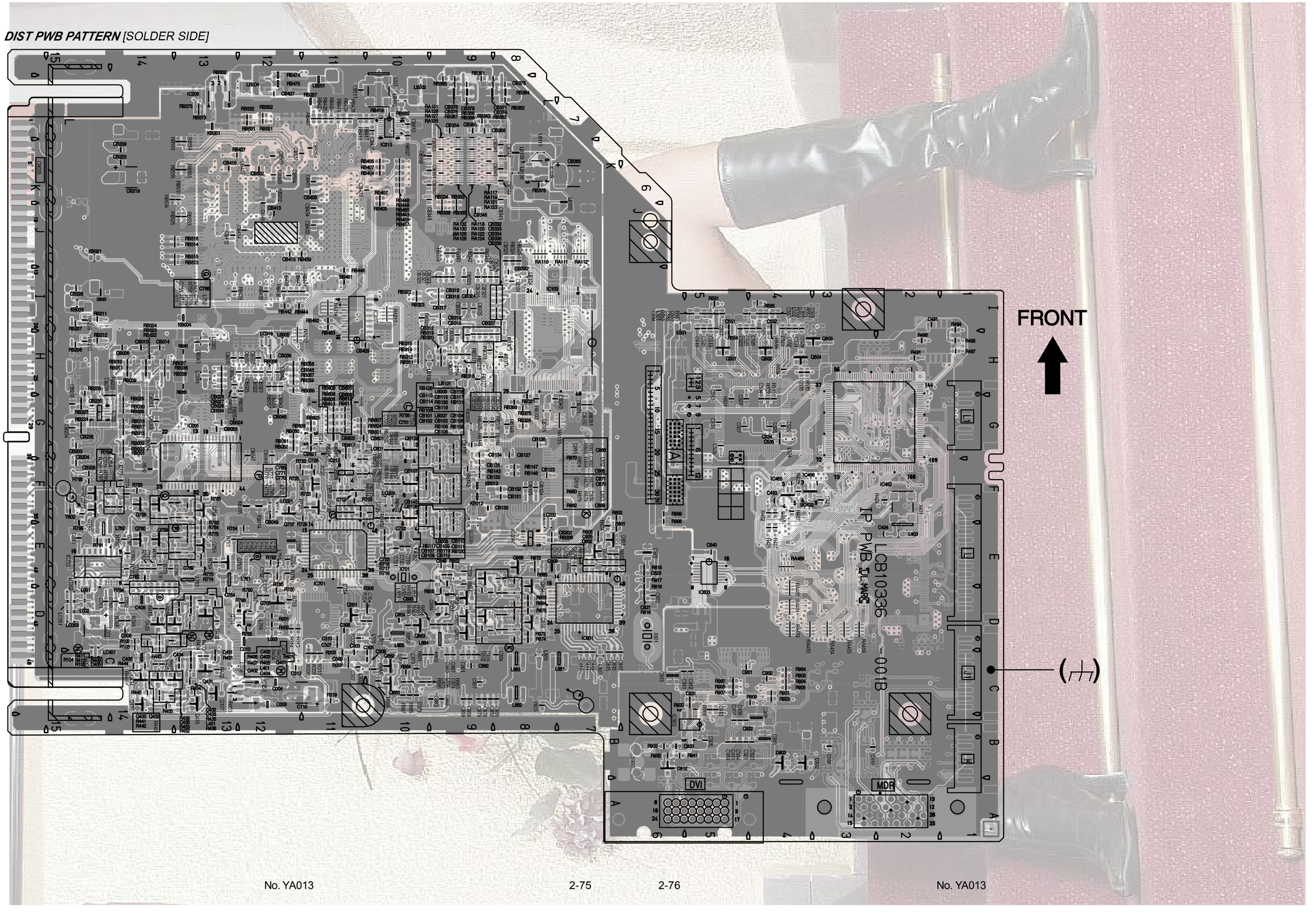

## *DIST RELAY PWB PATTERN* [SOLDER SIDE]



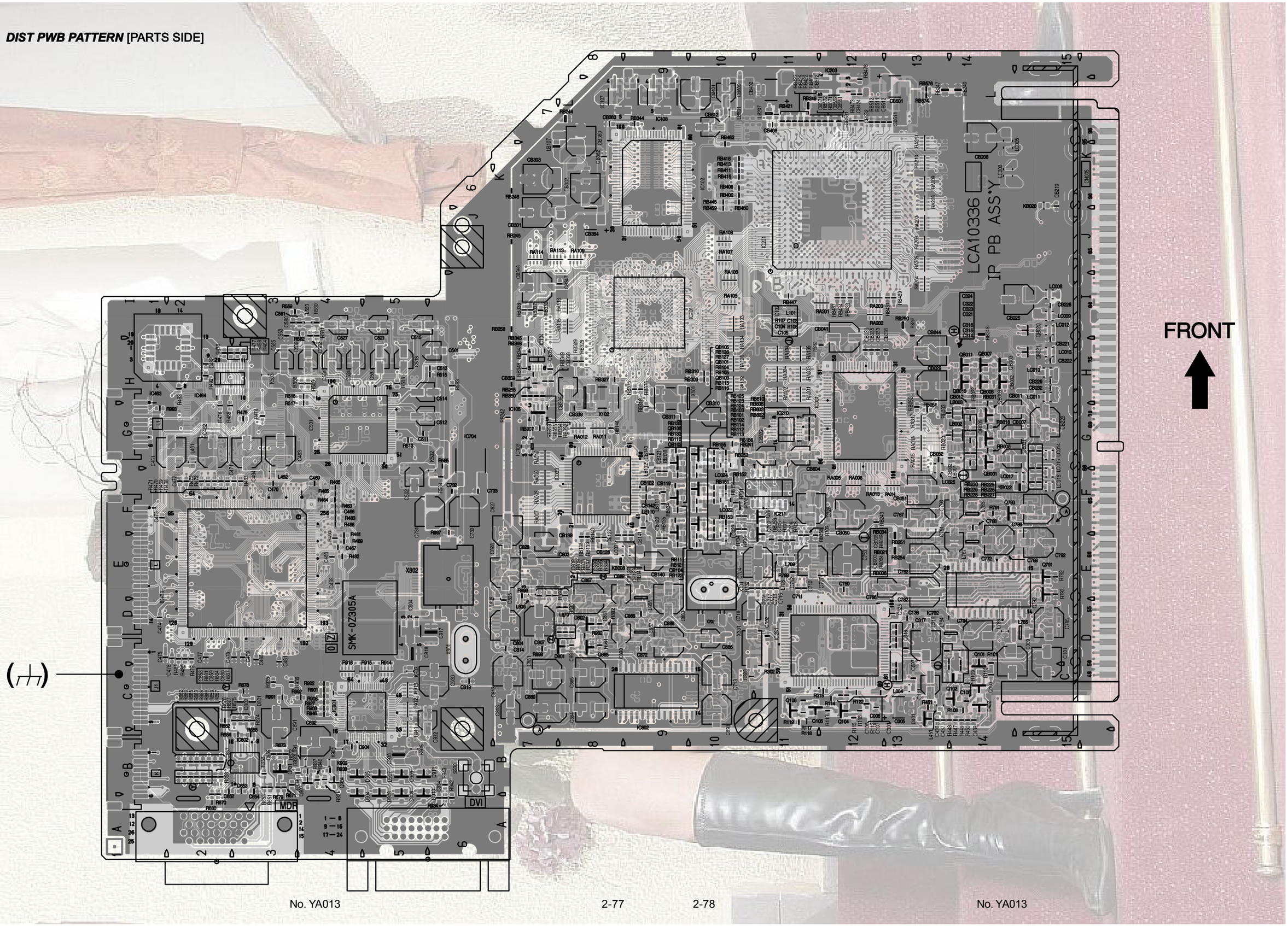

## *DIST RELAY PWB PATTERN* [PARTS SIDE]



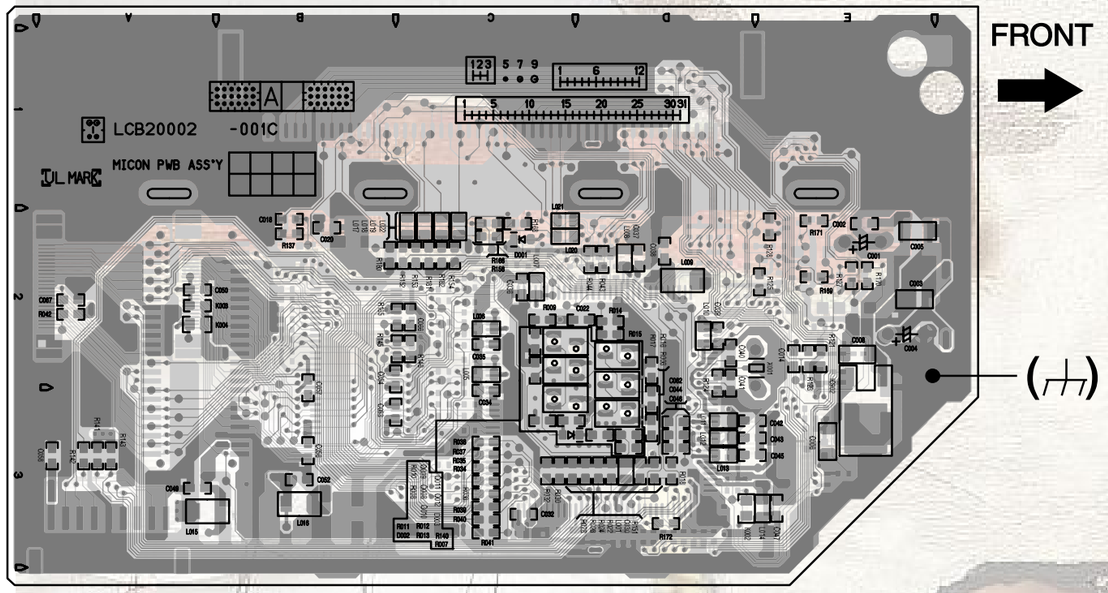
***DIST PWB PATTERN*** *[SOLDER SIDE]*



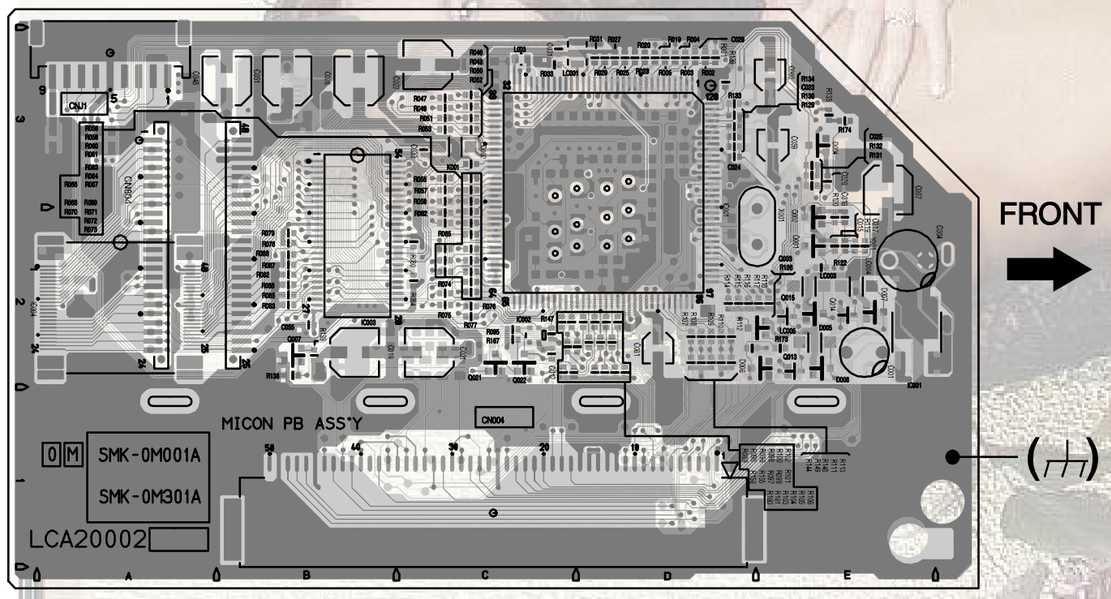
***DIST PWB PATTERN*** [PARTS SIDE]



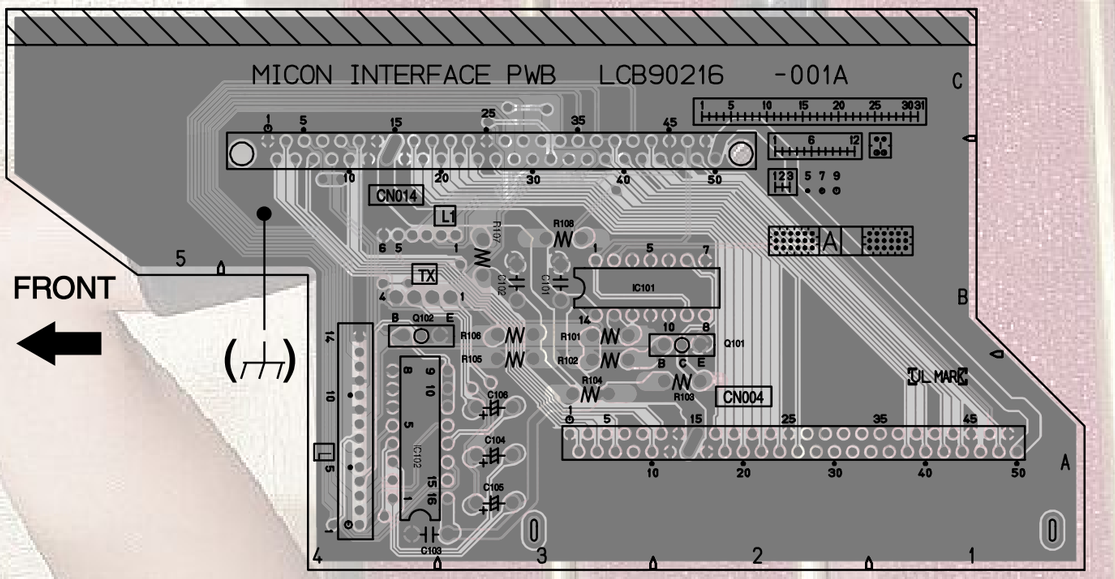
***MI-COM PWB PATTERN*** *[SOLDER SIDE]*



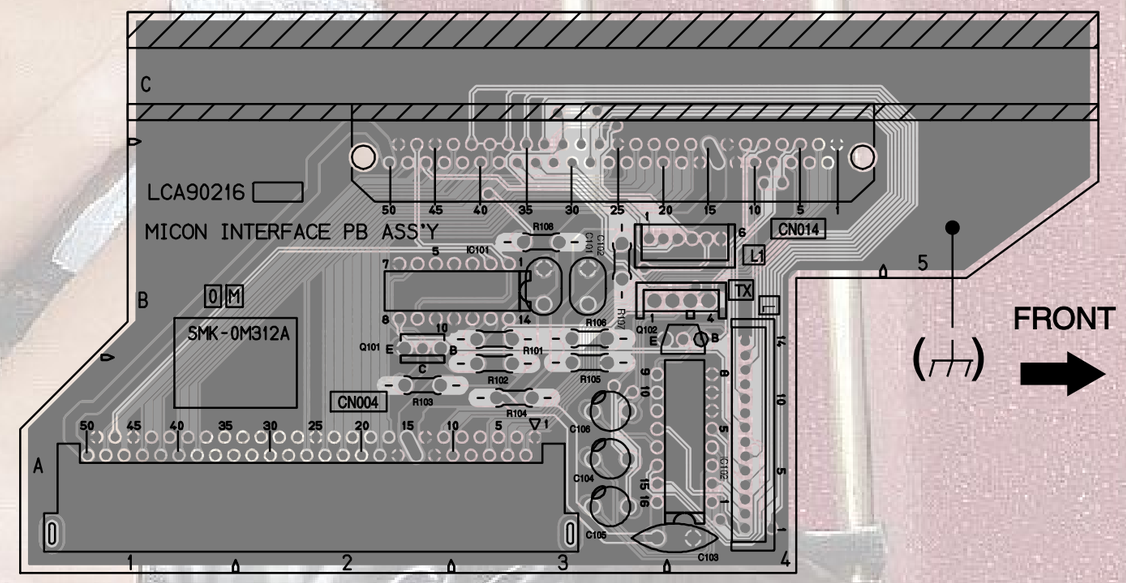

***MI-COM PWB PATTERN*** [PARTS SIDE]



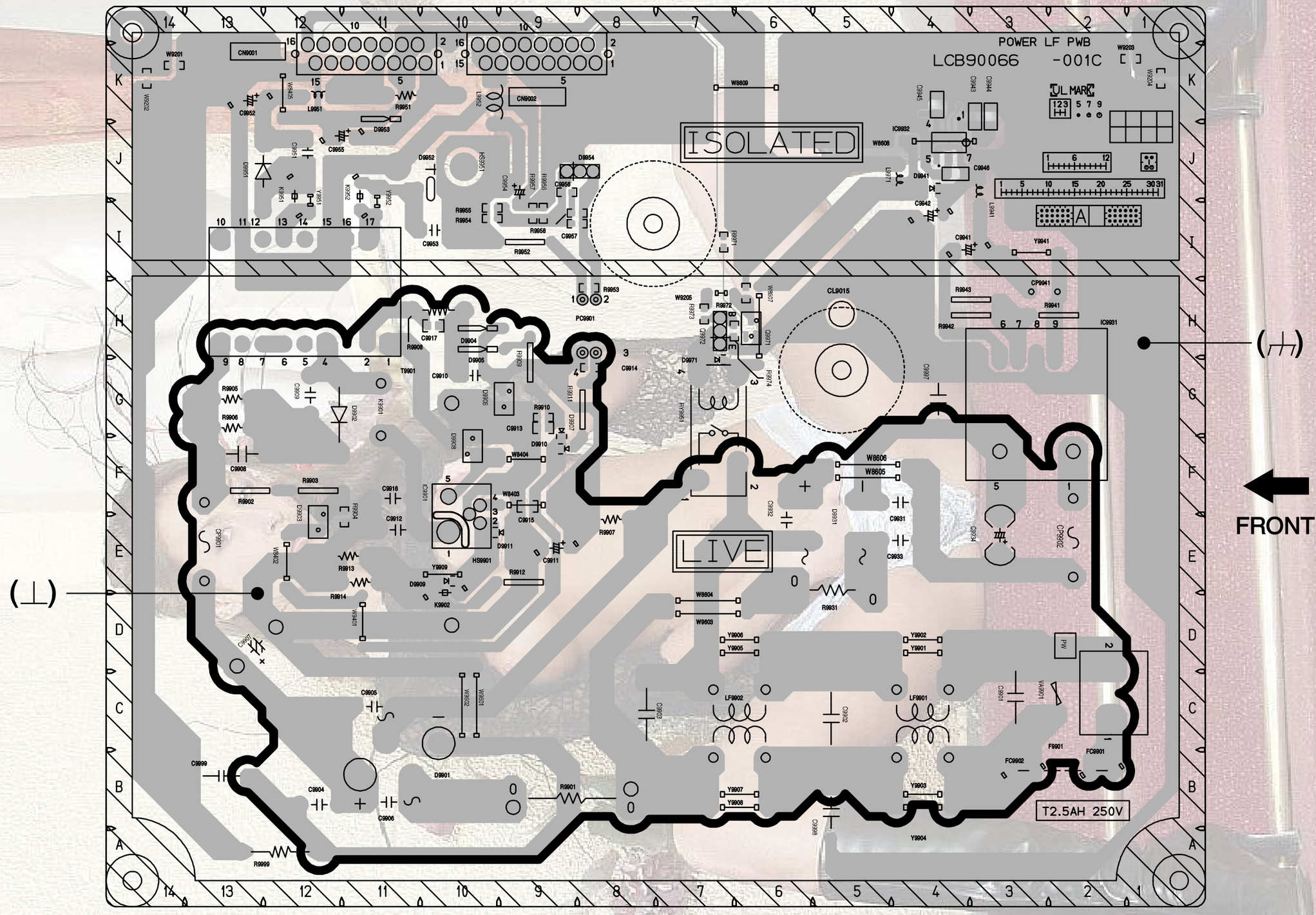

***MI-COM INTERFACE PWB PATTERN*** *[SOLDER SIDE]*




***MI-COM INTERFACE PWB PATTERN*** [PARTS SIDE]

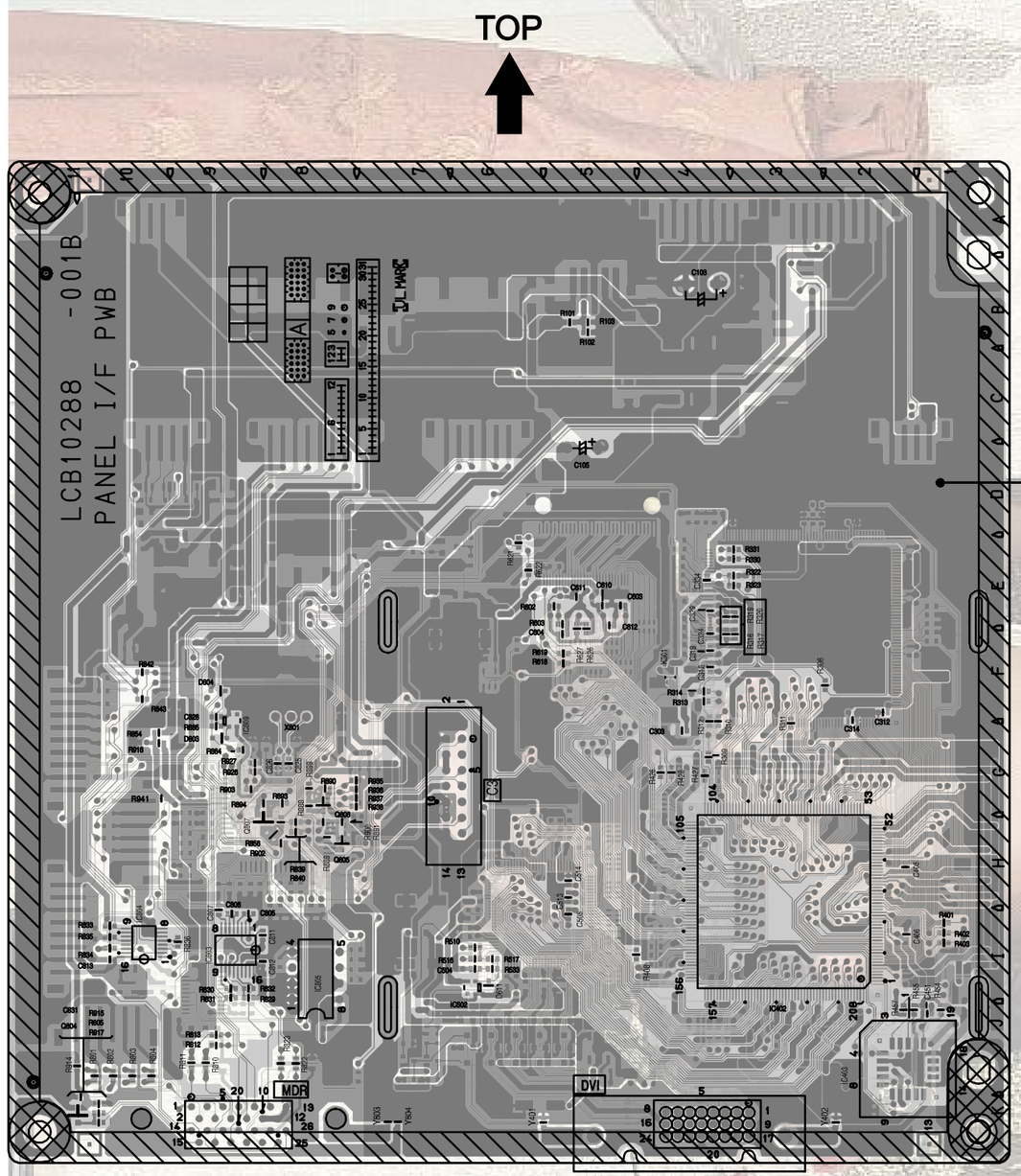


## *RECEIVER POWER PWB PATTERN*

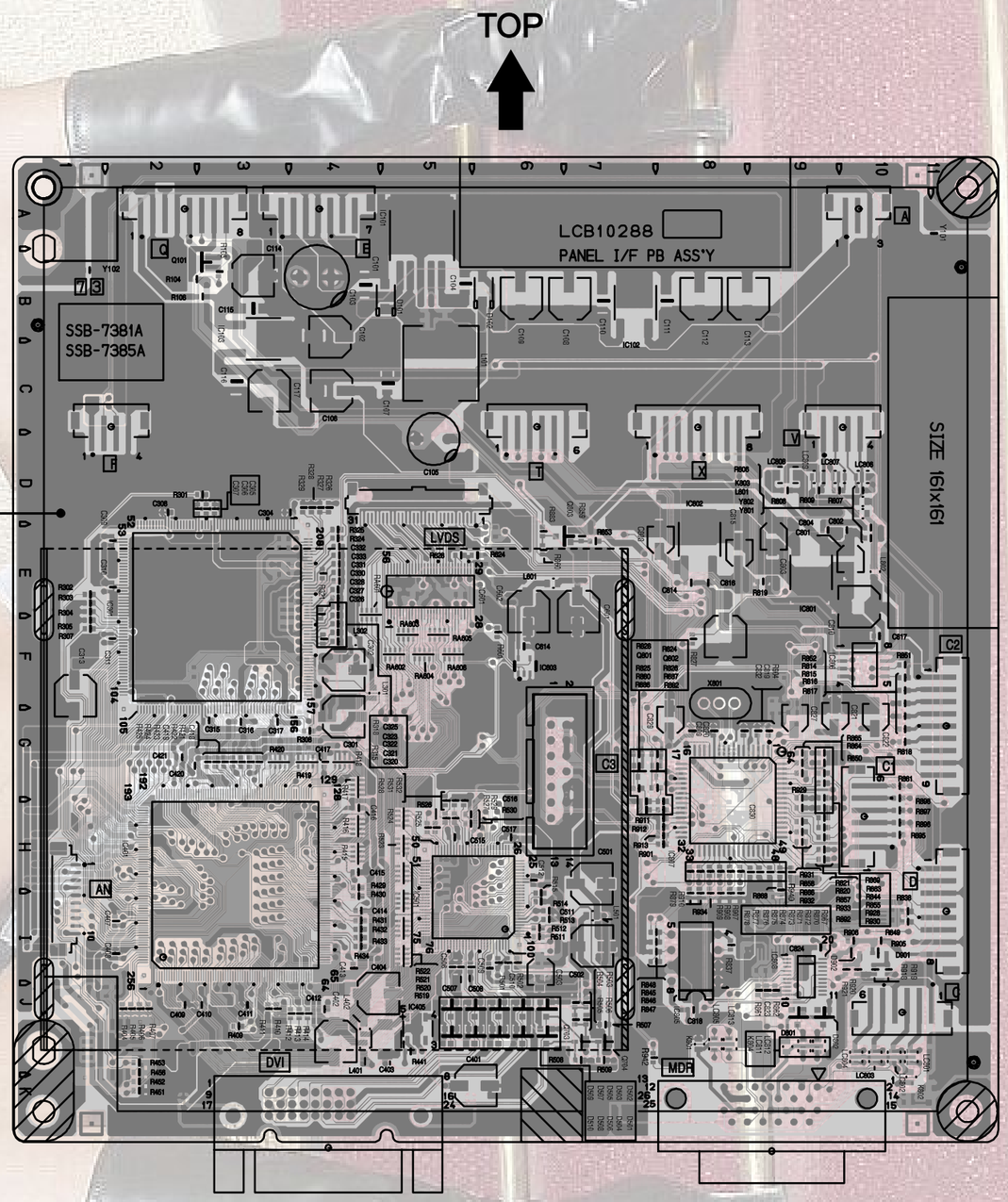


## PATTERN DIAGRAMS [DISPLAY UNIT]

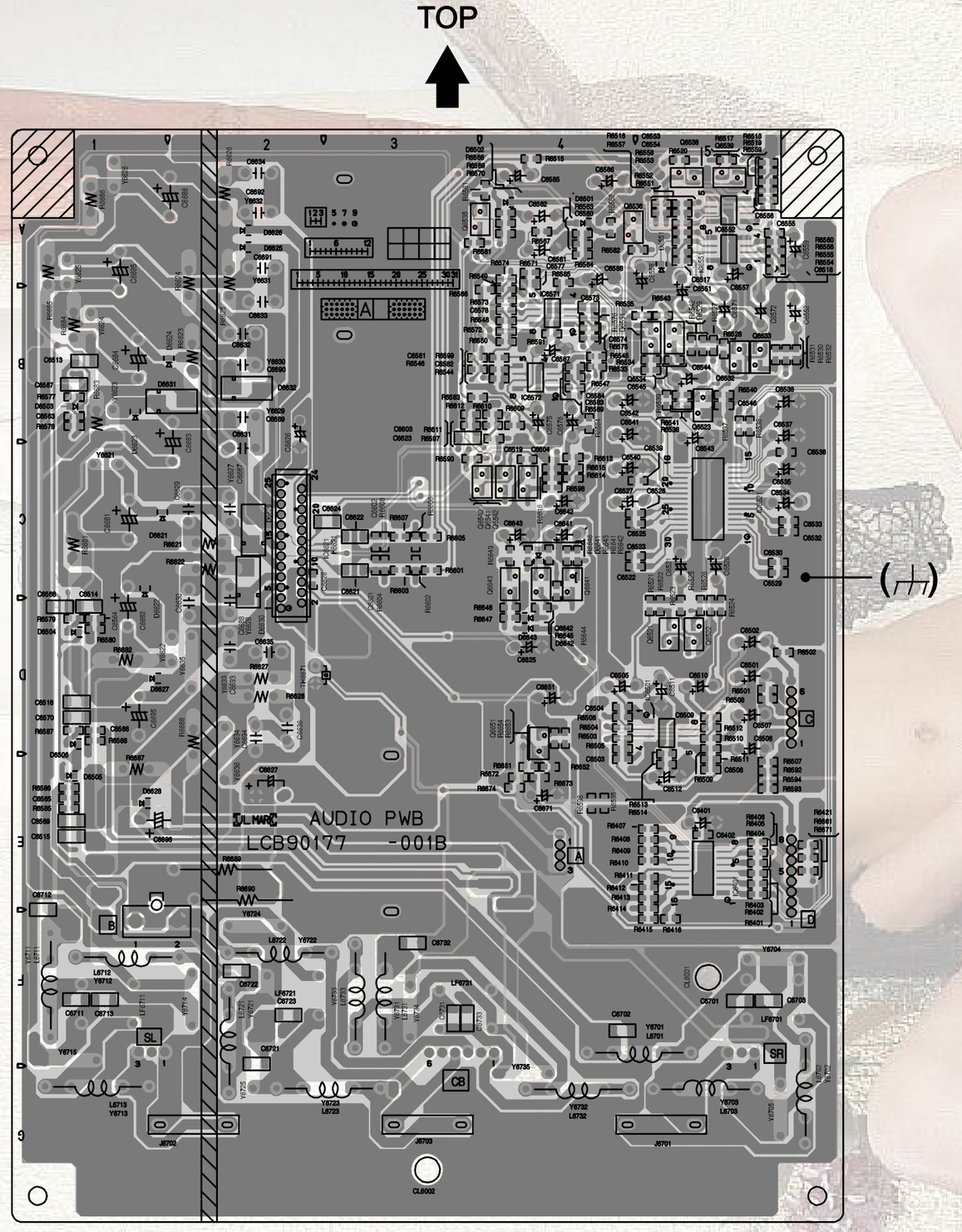
***DISPLAY INTERFACE PWB PATTERN*** *[SOLDER SIDE]*



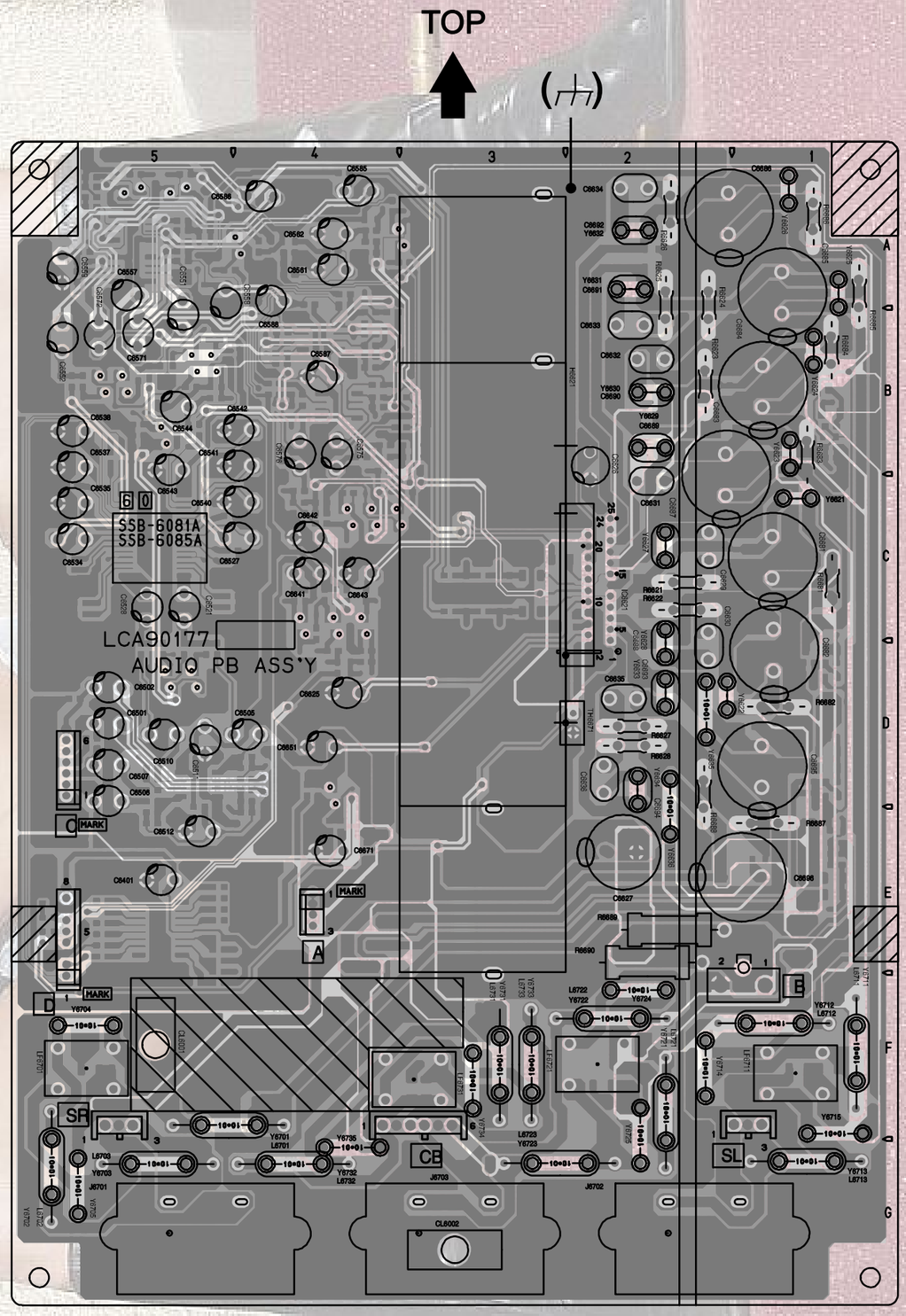

***DISPLAY INTERFACE PWB PATTERN*** *[PARTS SIDE]*



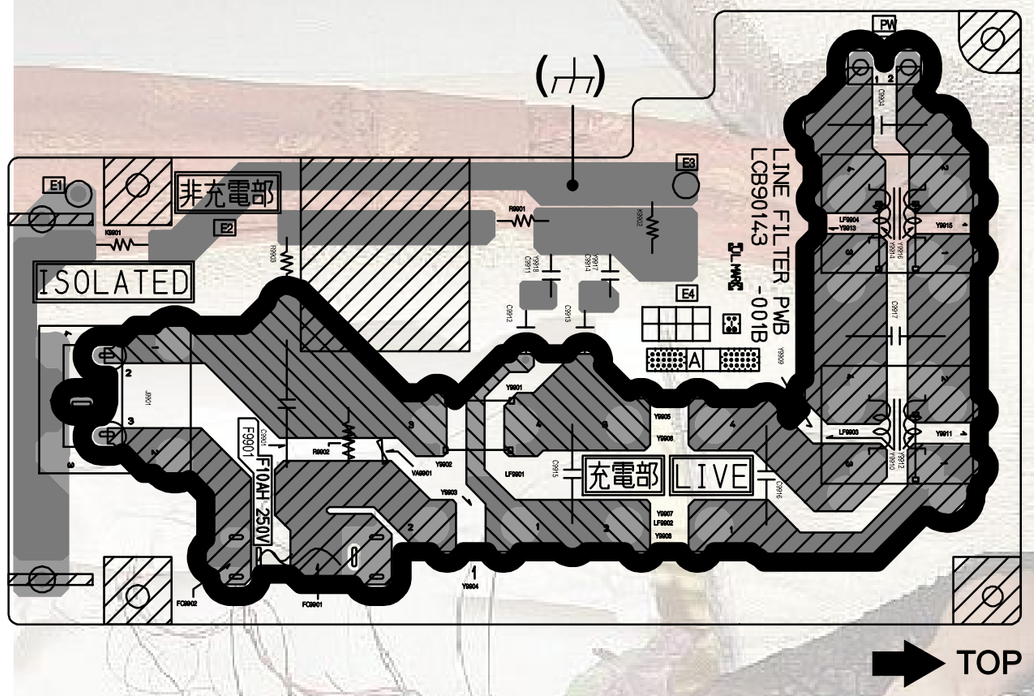
***AUDIO PWB PATTERN*** *[SOLDER SIDE]*



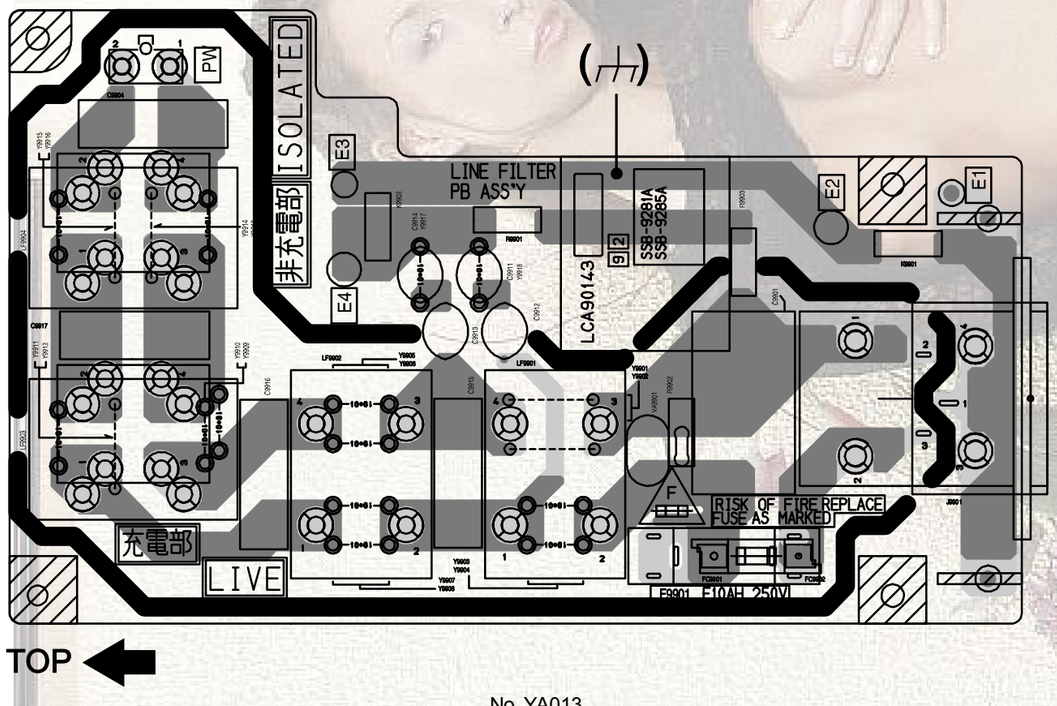

***AUDIO PWB PATTERN*** *[PARTS SIDE]*



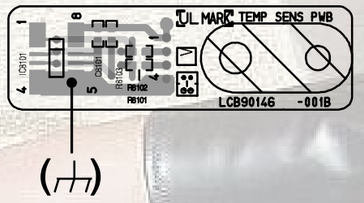
***LINE FILTER PWB PATTERN*** [SOLDER SIDE]



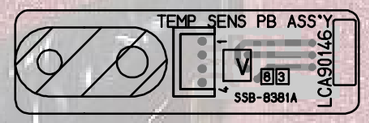

***LINE FILTER PWB PATTERN*** [PARTS SIDE]



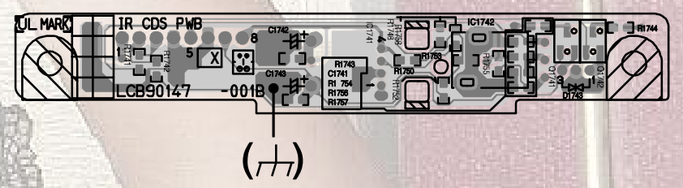

***TEMP. SENSOR PWB PATTERN*** [SOLDER SIDE]



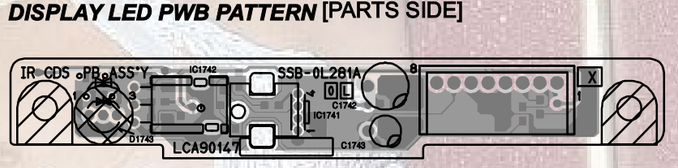

***TEMP. SENSOR PWB PATTERN*** [PARTS SIDE]



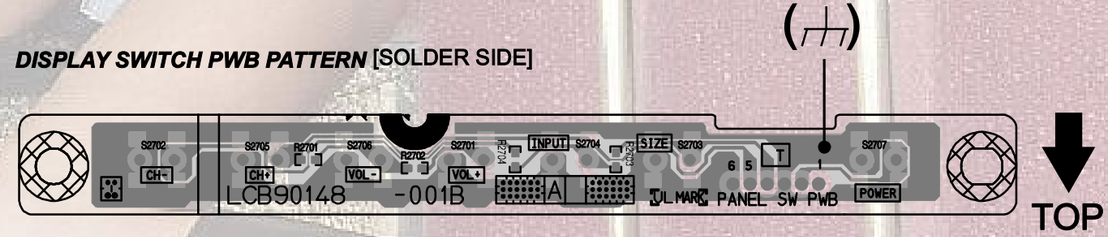

***DISPLAY LED PWB PATTERN*** [SOLDER SIDE]



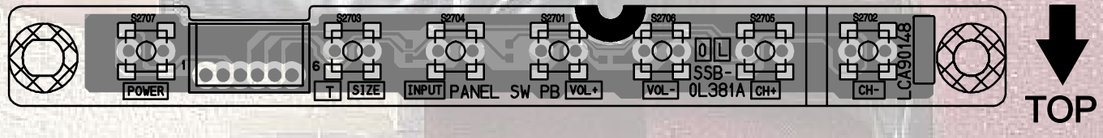

***DISPLAY LED PWB PATTERN*** [PARTS SIDE]




***DISPLAY SWITCH PWB PATTERN*** [SOLDER SIDE]




***DISPLAY SWITCH PWB PATTERN*** [PARTS SIDE]



# VOLTAGE CHART [RECEIVER UNIT]

**<MAIN PWB>**
[P.2-7 – P.2-8]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC601 | |
| 1 | 4.8 |
| 2 | 4.7 |
| 3 | 4.6 |
| 4 | 0 |
| 5 | 4.6 |
| 6 | 4.6 |
| 7 | 4.7 |
| 8 | 9.1 |
| IC602 | |
| 1 | 2.5 |
| 2 | 0 |
| 3 | 0 |
| 4 | 1.2 |
| 5 | 9.1 |
| 6 | 0 |
| 7 | 9.1 |
| IC603 | |
| 1 | 0 |
| 2 | 0 |
| 3 | 1.3 |
| 4 | 0 |
| 5 | 2.5 |
| 6 | 2.5 |
| 7 | 0 |
| 8 | 0 |
| 9 | 2.5 |
| 10 | 1.0 |
| 11 | 1.0 |
| 12 | 0 |
| 13 | 2.5 |
| 14 | 2.5 |
| 15 | 0 |
| 16 | 0 |
| 17 | 2.5 |
| 18 | 2.5 |
| 19 | 0 |
| 20 | 0 |
| 21 | 2.5 |
| 22 | 2.5 |
| 23 | 0 |
| 24 | 0 |
| 25 | 0.6 |
| 26 | 0 |
| 27 | 0 |
| 28 | 0 |
| 29 | 0 |
| 30 | 1.2 |
| 31 | 1.2 |
| 32 | 1.2 |
| IC604 | |
| 1 | 1.1 |
| 2 | 1.1 |
| 3 | 1.1 |
| 4 | 0 |
| 5 | 2.5 |
| 6 | 2.5 |
| 7 | 0 |
| 8 | 0.6 |
| 9 | 0 |
| 10 | 1.2 |
| 11 | 1.2 |
| 12 | 1.2 |
| 13 | 2.5 |
| 14 | 2.5 |
| 15 | 1.1 |
| 16 | 1.1 |
| Q001 | |
| E | 2.2 |
| C | 9.1 |
| B | 2.8 |
| Q601 | |
| E | 3.9 |
| C | 9.2 |
| B | 2.8 |
| Q602 | |
| E | 3.9 |
| C | 9.1 |
| B | 4.5 |
| Q603 | |
| E | 0 |
| C | 2.5 |
| B | 0 |
| Q604 | |
| E | 0 |
| C | 2.5 |
| B | 0 |
| Q605 | |
| S | 2.5 |
| D | 2.4 |
| G | 4.5 |
| Q606 | |
| S | 2.5 |
| D | 2.5 |
| G | 4.5 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| TU001 | |
| 1 | 3.0 |
| 2 | 7.6 |
| 3 | 0 |
| 4 | 4.5 |
| 5 | 4.5 |
| 6 | 0 |
| 7 | 5.1 |
| 8 | 0 |
| 9 | 32.7 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0 |
| 14 | 0 |
| 15 | 5.1 |
| 16 | 2.2 |
| 17 | 3.0 |
| 18 | 4.9 |
| 19 | 0.1 |
| 20 | 0.1 |
| 21 | 0 |
| 22 | 2.5 |

[P.2-9 – P.2-10]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC101 | |
| 1 | 4.4 |
| 2 | 4.4 |
| 3 | 4.5 |
| 4 | 4.7 |
| 5 | 4.6 |
| 6 | 4.5 |
| 7 | 4.5 |
| 8 | 4.5 |
| 9 | 4.7 |
| 10 | 4.7 |
| 11 | 9.1 |
| 12 | 4.5 |
| 13 | 4.5 |
| 14 | 4.5 |
| 15 | 4.6 |
| 16 | 4.6 |
| 17 | 4.5 |
| 18 | 4.5 |
| 19 | 4.5 |
| 20 | 4.7 |
| 21 | 4.7 |
| 22 | 0 |
| 23 | 4.7 |
| 24 | 4.7 |
| 25 | 4.3 |
| 26 | 4.3 |
| 27 | 4.2 |
| 28 | 9.1 |
| 29 | 4.7 |
| 30 | 4.4 |
| 31 | 4.4 |
| 32 | 4.4 |
| IC201 | |
| 1 | 0.4 |
| 2 | 0.2 |
| 3 | 0.4 |
| 4 | 0.2 |
| 5 | 0 |
| 6 | 6.5 |
| 7 | 5.2 |
| 8 | 9.1 |
| 9 | 1.3 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0.3 |
| 14 | 0 |
| 15 | 0.3 |
| 16 | 4.5 |
| 17 | 4.5 |
| 18 | 0 |
| 19 | 2.1 |
| 20 | 5.2 |
| 21 | 2.1 |
| 22 | 0.2 |
| 23 | 0.2 |
| 24 | 0.2 |
| IC202 | |
| 1 | 0.3 |
| 2 | 0.3 |
| 3 | 0.2 |
| 4 | 0 |
| 5 | 0.3 |
| 6 | 0.3 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 7 | 0.2 |
| 8 | 3.3 |
| IC908 | |
| 1 | 5.2 |
| 2 | 3.5 |
| 3 | 0 |
| 4 | 2.6 |
| Q101 | |
| E | 3.8 |
| C | 9.1 |
| B | 4.4 |
| Q102 | |
| E | 3.8 |
| C | 9.1 |
| B | 4.4 |
| Q103 | |
| E | 3.7 |
| C | 9.1 |
| B | 4.4 |
| Q111 | |
| E | 3.6 |
| C | 9.1 |
| B | 4.2 |
| Q112 | |
| E | 3.6 |
| C | 9.1 |
| B | 4.2 |
| Q113 | |
| E | 3.6 |
| C | 9.1 |
| B | 4.2 |

[P.2-11 – P.2-12]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC402 | |
| 1 | 3.9 |
| 2 | 0 |
| 3 | 0.2 |
| 4 | 3.3 |
| 5 | 0.2 |
| 6 | 3.3 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0.2 |
| 10 | 0 |
| 11 | 0.2 |
| 12 | 0 |
| 13 | 0.2 |
| 14 | 3.3 |

[P.2-13 – P.2-14]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC701 | |
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 3.3 |
| 6 | 3.3 |
| 7 | 0 |
| 8 | 3.3 |
| IC703 | |
| 1 | 0 |
| 2 | 0 |
| 3 | 4.7 |
| 4 | 4.7 |
| IC706 | |
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 3.3 |
| 5 | 4.7 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 5.2 |
| 13 | 4.1 |
| 14 | 4.4 |
| 15 | 4.6 |
| 16 | 5.2 |
| IC707 | |
| 1 | 5.2 |
| 2 | 0 |
| 3 | 0 |
| 4 | 5.2 |
| 5 | 5.2 |
| 6 | 5.2 |
| 7 | 5.2 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 5.2 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 12 | 5.2 |
| 13 | 4.2 |
| 14 | 4.4 |
| 15 | 4.4 |
| 16 | 5.2 |
| IC902 | |
| 1 | 20.9 |
| 2 | 9.3 |
| 3 | 0 |
| 4 | 9.1 |
| 5 | 2.4 |
| IC903 | |
| 1 | 20.9 |
| 2 | 5.4 |
| 3 | 0 |
| 4 | 5.1 |
| 5 | 2.4 |
| IC904 | |
| 1 | 20.9 |
| 2 | 3.4 |
| 3 | 0 |
| 4 | 3.4 |
| 5 | 2.4 |
| IC905 | |
| 1 | 3.3 |
| 2 | 3.3 |
| 3 | 2.6 |
| 4 | 1.2 |
| 5 | 0 |

**<AV SWITCH PWB>**
[P.2-15 – P.2-16]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC101 | |
| 1 | 4.0 |
| 2 | 4.5 |
| 3 | 4.0 |
| 4 | 4.5 |
| 5 | 4.5 |
| 6 | 6.9 |
| 7 | 0 |
| 8 | 4.0 |
| 9 | 4.5 |
| 10 | 4.0 |
| 11 | 4.5 |
| 12 | 0 |
| 13 | 7.0 |
| 14 | 0 |
| 15 | 4.4 |
| 16 | 4.5 |
| 17 | 4.1 |
| 18 | 4.5 |
| 19 | 4.5 |
| 20 | 6.9 |
| 21 | 0 |
| 22 | 4.0 |
| 23 | 4.5 |
| 24 | 4.0 |
| 25 | 4.5 |
| 26 | 4.4 |
| 27 | 0 |
| 28 | 0 |
| 29 | 4.5 |
| 30 | 4.0 |
| 31 | 4.5 |
| 32 | 0 |
| 33 | 4.4 |
| 34 | 4.4 |
| 35 | 0 |
| 36 | 0 |
| 37 | 4.5 |
| 38 | 4.5 |
| 39 | 3.8 |
| 40 | 4.5 |
| 41 | 4.5 |
| 42 | 9.1 |
| 43 | 4.5 |
| 44 | 3.6 |
| 45 | 4.5 |
| 46 | 3.7 |
| 47 | 4.4 |
| 48 | 0 |
| 49 | 4.9 |
| 50 | 4.5 |
| 51 | 4.5 |
| 52 | 4.5 |
| 53 | 4.5 |
| 54 | 4.5 |
| 55 | 3.6 |
| 56 | 4.2 |
| 57 | 0 |
| 58 | 4.3 |
| 59 | 4.5 |
| 60 | 4.0 |
| 61 | 0 |
| 62 | 4.5 |
| 63 | 4.8 |
| 64 | 4.5 |
| IC501 | |
| 1 | 5.2 |
| 2 | 1.5 |
| 3 | 1.5 |
| 4 | 0 |
| 5 | 2.5 |
| 6 | 2.5 |
| 7 | 0.1 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 5.2 |
| 12 | 4.5 |
| 13 | 4.5 |
| 14 | 0.1 |
| 15 | 0.1 |
| 16 | 0.1 |
| 17 | 0.1 |
| 18 | 0.1 |
| 19 | 5.2 |
| 20 | 0 |
| 21 | 0.1 |
| 22 | 5.2 |
| 23 | 0 |
| 24 | 0 |
| 25 | 0 |
| 26 | 0 |
| 27 | 0 |
| 28 | 0 |
| 29 | 0 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 30 | 3.8 |
| 31 | 3.8 |
| 32 | 0 |
| 33 | 7.9 |
| 34 | 6.9 |
| 35 | 0 |
| 36 | 3.7 |
| 37 | 3.7 |
| 38 | 3.7 |
| 39 | 0 |
| 40 | 3.8 |
| 41 | 3.8 |
| 42 | 2.6 |
| 43 | 3.8 |
| 44 | 0 |
| IC601 | |
| 1 | 4.6 |
| 2 | 4.6 |
| 3 | 4.6 |
| 4 | 0 |
| 5 | 4.6 |
| 6 | 4.6 |
| 7 | 4.6 |
| 8 | 9.1 |
| IC602 | |
| 1 | 4.6 |
| 2 | 4.6 |
| 3 | 4.5 |
| 4 | 0 |
| 5 | 4.5 |
| 6 | 4.6 |
| 7 | 4.6 |
| 8 | 9.1 |
| IC603 | |
| 1 | 4.6 |
| 2 | 4.6 |
| 3 | 4.6 |
| 4 | 0 |
| 5 | 4.6 |
| 6 | 4.6 |
| 7 | 4.6 |
| 8 | 9.1 |
| IC662 | |
| 1 | 4.5 |
| 2 | 4.6 |
| 3 | 4.6 |
| 4 | 0 |
| 5 | 4.6 |
| 6 | 4.6 |
| 7 | 4.5 |
| 8 | 9.1 |
| IC901 | |
| 1 | 9.1 |
| 2 | 7.9 |
| 3 | 0 |
| Q101 | |
| E | 3.5 |
| C | 9.1 |
| B | 4.2 |
| Q102 | |
| E | 3.0 |
| C | 9.1 |
| B | 3.6 |
| Q103 | |
| E | 0.3 |
| C | -0.3 |
| B | 0 |
| Q104 | |
| E | 0 |
| C | 0 |
| B | -0.3 |
| Q105 | |
| E | 0 |
| C | 0 |
| B | -0.4 |
| Q106 | |
| E | 3.8 |
| C | 9.1 |
| B | 4.5 |
| Q131 | |
| E | 2.8 |
| C | 0 |
| B | 2.2 |
| Q136 | |
| E | 0 |
| C | 0 |
| B | -0.2 |
| Q137 | |
| E | 0 |
| C | 0 |
| B | -0.3 |
| Q138 | |
| E | 0.3 |
| C | -0.3 |
| B | 0 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| Q201 | |
| E | 0 |
| C | 6.9 |
| B | 0 |
| Q202 | |
| E | 0 |
| C | 6.9 |
| B | 0 |
| Q211 | |
| E | 0 |
| C | 6.9 |
| B | 0 |
| Q212 | |
| E | 0 |
| C | 6.9 |
| B | 0 |
| Q221 | |
| E | 0 |
| C | 6.9 |
| B | 0 |
| Q222 | |
| E | 0 |
| C | 6.9 |
| B | 0 |
| Q231 | |
| E | 0.7 |
| C | 4.5 |
| B | 0 |
| Q232 | |
| E | 4.5 |
| C | 4.1 |
| B | 0 |
| Q233 | |
| E | 0 |
| C | 2.2 |
| B | 0.3 |
| Q234 | |
| E | 0 |
| C | 0 |
| B | 2.2 |
| Q502 | |
| E | 0 |
| C | 9.1 |
| B | 0 |
| Q503 | |
| E | 0 |
| C | 5.2 |
| B | 0 |
| Q601 | |
| E | 0 |
| C | 0 |
| B | -0.2 |
| Q602 | |
| E | 0 |
| C | 0 |
| B | -0.1 |
| Q603 | |
| E | 0.3 |
| C | -0.2 |
| B | 0 |
| Q604 | |
| E | 0 |
| C | 0 |
| B | -0.3 |
| Q605 | |
| E | 0 |
| C | 0 |
| B | -0.2 |
| Q606 | |
| E | 0.3 |
| C | -0.2 |
| B | 0 |

**<DIST PWB>**
[P.2-21 – P.2-22]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC001 | |
| 1 | 1.3 |
| 2 | 1.4 |
| 3 | 1.5 |
| 4 | 1.5 |
| 5 | 1.6 |
| 6 | 1.5 |
| 7 | 0 |
| 8 | 0.9 |
| 9 | 0.9 |
| 10 | 3.3 |
| 11 | 2.6 |
| 12 | 1.3 |
| 13 | 1.9 |
| 14 | 0 |
| 15 | 4.4 |
| 16 | 0 |
| 17 | 0 |
| 18 | 0 |
| 19 | 0 |
| 20 | 0 |
| 21 | 0 |
| 22 | 3.5 |
| 23 | 3.5 |
| 24 | 3.5 |
| 25 | 0 |
| 26 | 3.5 |
| 27 | 3.5 |
| 28 | 0 |
| 29 | 0 |
| 30 | 2.1 |
| 31 | 0 |
| 32 | 2.4 |
| 33 | 1.0 |
| 34 | 0.2 |
| 35 | 1.7 |
| 36 | 0.9 |
| 37 | 3.5 |
| 38 | 2.4 |
| 39 | 1.1 |
| 40 | 1.7 |
| 41 | 1.8 |
| 42 | 1.7 |
| 43 | 0 |
| 44 | 3.5 |
| 45 | 0 |
| 46 | 0 |
| 47 | 0 |
| 48 | 3.3 |
| 49 | 0.2 |
| 50 | 0 |
| 51 | 0 |
| 52 | 2.9 |
| 53 | 3.3 |
| 54 | 1.5 |
| 55 | 0 |
| 56 | 0 |
| 57 | 0 |
| 58 | 0 |
| 59 | 1.0 |
| 60 | 2.2 |
| 61 | 2.2 |
| 62 | 2.2 |
| 63 | 2.1 |
| 64 | 2.2 |
| 65 | 1.7 |
| 66 | 1.6 |
| 67 | 3.3 |
| 68 | 0.9 |
| 69 | 0.9 |
| 70 | 1.2 |
| 71 | 1.2 |
| 72 | 1.5 |
| 73 | 1.9 |
| 74 | 1.8 |
| 75 | 1.6 |
| 76 | 1.6 |
| 77 | 1.5 |
| 78 | 0 |
| 79 | 0 |
| 80 | 0 |
| 81 | 2.6 |
| 82 | 2.4 |
| 83 | 2.9 |
| 84 | 3.0 |
| 85 | 5.1 |
| 86 | 2.9 |
| 87 | 2.9 |
| 88 | 2.9 |
| 89 | 2.0 |
| 90 | 0 |
| 91 | 2.2 |
| 92 | 2.5 |
| 93 | 2.7 |
| 94 | 2.5 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 95 | 5.1 |
| 96 | 2.0 |
| 97 | 2.0 |
| 98 | 1.3 |
| 99 | 1.5 |
| 100 | 0 |
| IC002 | |
| 1 | 0.2 |
| 2 | 0.2 |
| 3 | 0.2 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0.2 |
| 7 | 0.2 |
| 8 | 3.3 |
| IC003 | |
| 1 | 0 |
| 2 | 3.3 |
| 3 | 3.3 |
| 4 | 3.3 |
| 5 | 3.3 |
| 6 | 3.3 |
| 7 | 3.3 |
| 8 | 3.3 |
| 9 | 3.3 |
| 10 | 0 |
| 11 | 3.3 |
| 12 | 3.3 |
| 13 | 3.3 |
| 14 | 3.3 |
| 15 | 3.3 |
| 16 | 3.3 |
| 17 | 3.3 |
| 18 | 3.3 |
| 19 | 3.3 |
| 20 | 0 |
| 21 | 3.3 |
| 22 | 3.3 |
| 23 | 3.3 |
| 24 | 0 |
| 25 | 0 |
| 26 | 0 |
| 27 | 3.5 |
| 28 | 0 |
| 29 | 0 |
| 30 | 0.2 |
| 31 | 0 |
| 32 | 0 |
| 33 | 3.5 |
| 34 | 3.5 |
| 35 | 3.5 |
| 36 | 0 |
| 37 | 0.2 |
| 38 | 0.2 |
| 39 | 3.5 |
| 40 | 0 |
| 41 | 0 |
| 42 | 3.5 |
| 43 | 0 |
| 44 | 0 |
| 45 | 3.5 |
| 46 | 3.5 |
| 47 | 0 |
| 48 | 0.3 |
| 49 | 0 |
| 50 | 0 |
| 51 | 3.5 |
| 52 | 3.5 |
| 53 | 0 |
| 54 | 0 |
| 55 | 3.5 |
| 56 | 3.5 |
| 57 | 3.5 |
| 58 | 3.5 |
| 59 | 3.5 |
| 60 | 0 |
| 61 | 0 |
| 62 | 3.5 |
| 63 | 3.5 |
| 64 | 3.5 |
| 65 | 3.5 |
| 66 | 3.5 |
| 67 | 3.5 |
| 68 | 0 |
| 69 | 3.3 |
| 70 | 3.3 |
| 71 | 3.3 |
| 72 | 3.3 |
| 73 | 3.3 |
| 74 | 3.3 |
| 75 | 3.3 |
| 76 | 3.3 |
| 77 | 3.3 |
| 78 | 3.3 |
| 79 | 3.3 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 80 | 0 |
| IC004 | |
| 1 | 0.2 |
| 2 | 0 |
| 3 | 0.2 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0.2 |
| 8 | 3.3 |
| IC005 | |
| 1 | 5.1 |
| 2 | 2.9 |
| 3 | 2.4 |
| 4 | 3.0 |
| 5 | 3.5 |
| 6 | 5.1 |
| 7 | 3.5 |
| 8 | 3.4 |
| 9 | 3.4 |
| 10 | 1.5 |
| 13 | 0 |
| 14 | 0 |
| 15 | 1.9 |
| 16 | 1.3 |
| 17 | 0 |
| 18 | 1.0 |
| 19 | 1.0 |
| 20 | 1.5 |
| 21 | 1.5 |
| 22 | 5.0 |
| 23 | 0 |
| 24 | 1.6 |
| 25 | 1.5 |
| 26 | 1.5 |
| 27 | 1.4 |
| 28 | 1.3 |
| 29 | 0 |
| 30 | 2.6 |
| 31 | 2.6 |
| 32 | 0 |
| 35 | 1.5 |
| 36 | 0 |
| 37 | 0 |
| 38 | 1.2 |
| 39 | 0 |
| 40 | 3.1 |
| 41 | 3.2 |
| 42 | 3.0 |
| 43 | 2.3 |
| 44 | 0 |
| QB001 | |
| E | 4.2 |
| C | 9.1 |
| B | 4.8 |
| QB002 | |
| E | 1.9 |
| C | 8.5 |
| B | 2.4 |
| QB003 | |
| E | 9.1 |
| C | 2.4 |
| B | 8.5 |
| QB005 | |
| E | 4.1 |
| C | 9.1 |
| B | 4.8 |
| QB006 | |
| E | 1.4 |
| C | 8.5 |
| B | 2.0 |
| QB007 | |
| E | 9.1 |
| C | 1.9 |
| B | 8.5 |
| QB009 | |
| E | 4.0 |
| C | 9.1 |
| B | 4.7 |
| QB010 | |
| E | 1.4 |
| C | 8.5 |
| B | 2.0 |
| QB011 | |
| E | 9.1 |
| C | 1.9 |
| B | 8.5 |
| QB020 | |
| S | 3.2 |
| D | 3.2 |
| G | 4.5 |
| QB021 | |
| S | 3.2 |
| D | 3.2 |
| G | 4.5 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| QB101 | |
| E | 2.9 |
| C | 9.1 |
| B | 3.6 |
| QB102 | |
| E | 2.6 |
| C | 0 |
| B | 1.9 |
| QB103 | |
| E | 2.9 |
| C | 9.1 |
| B | 3.6 |
| QB104 | |
| E | 2.5 |
| C | 0 |
| B | 1.7 |
| QB105 | |
| E | 2.9 |
| C | 9.1 |
| B | 3.6 |
| QB106 | |
| E | 2.5 |
| C | 0 |
| B | 1.7 |
| QB107 | |
| 1 | 0 |
| 2 | 0.5 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0.5 |
| 6 | 0 |
| QB108 | |
| 1 | 0 |
| 2 | 0.5 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0.5 |
| 6 | 0 |
| QB109 | |
| 1 | 0 |
| 2 | 0.5 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0.6 |
| 6 | 0 |

[P.2-23 – P.2-24]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC102 | |
| 1 | 1.2 |
| 2 | 2.5 |
| 3 | 1.2 |
| 4 | 1.2 |
| 5 | 0 |
| 6 | 1.2 |
| 7 | 1.2 |
| 8 | 2.5 |
| 9 | 1.2 |
| 10 | 3.3 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0 |
| 14 | 3.2 |
| 15 | 3.2 |
| 16 | 3.3 |

[P.2-25 – P.2-26]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC203 | |
| 1 | 2.5 |
| 2 | 0 |
| 3 | 1.5 |
| 4 | 2.5 |
| 5 | 1.5 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 47 | 1.3 |
| 48 | 1.3 |
| 49 | 1.3 |
| 50 | 1.3 |
| 51 | 2.1 |
| 52 | 0 |
| 53 | 2.5 |
| 54 | 1.3 |
| 55 | 1.2 |
| 56 | 0 |
| 57 | 0 |
| 58 | 1.3 |
| 59 | 2.5 |
| 60 | 1.2 |
| 61 | 1.2 |
| 62 | 0 |
| 63 | 1.2 |
| 64 | 0 |
| 65 | 2.5 |
| 66 | 0 |
| 67 | 2.5 |
| 68 | 1.2 |
| 69 | 1.2 |
| 70 | 0 |
| 71 | 1.2 |
| 72 | 1.2 |
| 73 | 0 |
| 74 | 1.2 |
| 75 | 1.2 |
| 76 | 0 |
| 77 | 1.2 |
| 78 | 1.2 |
| 79 | 2.5 |
| 80 | 1.2 |
| 81 | 1.2 |
| 82 | 0 |
| 83 | 1.2 |
| 84 | 1.2 |
| 85 | 0 |
| 86 | 2.5 |
| 87 | 0 |
| 88 | 0 |
| 89 | 0 |
| 90 | 0 |
| 91 | 0 |
| 92 | 0 |
| 93 | 0 |
| 94 | 1.2 |
| 95 | 2.5 |
| 96 | 2.5 |
| 97 | 1.2 |
| 98 | 1.2 |
| 99 | 0 |
| 100 | 1.2 |
| IC104 | |
| 1 | 0 |
| 2 | 0 |
| 3 | 3.3 |
| 4 | 0 |
| 5 | 0 |
| 6 | 4.7 |
| 7 | 3.3 |
| 8 | 3.3 |
| IC105 | |
| 1 | 3.3 |
| 2 | 4.7 |
| 3 | 0 |
| 4 | 3.3 |
| 5 | 3.3 |
| IC106 | |
| 1 | 3.3 |
| 2 | 3.3 |
| 3 | 0 |
| 4 | 0 |
| IC107 | |
| 1 | 2.5 |
| 2 | 2.5 |
| 3 | 1.4 |
| 4 | 1.2 |
| 5 | 0 |
| IC108 | |
| 1 | 2.5 |
| 2 | 2.5 |
| 3 | 1.9 |
| 4 | 1.2 |
| 5 | 0 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC206 | |
| 1 | 3.5 |
| 2 | 0 |
| 3 | 0 |
| 4 | 3.5 |
| 5 | 2.5 |
| IC207 | |
| 1 | 3.2 |
| 2 | 3.2 |
| 3 | 3.2 |
| 4 | 3.0 |
| 5 | 0.3 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0 |
| 14 | 3.2 |
| 15 | 3.2 |
| 16 | 3.3 |

[P.2-27 – P.2-28]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC251 | |
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 3.3 |
| 12 | 3.3 |
| 13 | 0 |
| 14 | 0 |
| 15 | 0 |
| 16 | 0 |
| 17 | 0 |
| 18 | 0 |
| 19 | 0 |
| 20 | 0 |
| 21 | 0 |
| 22 | 0 |
| 23 | 0 |
| 24 | 0 |
| 25 | 0 |
| 26 | 0 |
| 27 | 0 |
| 28 | 0 |
| 29 | 0 |
| 30 | 0 |
| 31 | 0 |
| 32 | 0 |
| 33 | 0 |
| 34 | 0 |
| 35 | 0 |
| 36 | 0 |
| 37 | 0 |
| 38 | 4.6 |
| 39 | 0.1 |
| 40 | 0 |
| 41 | 3.2 |
| 42 | 2.5 |
| 43 | 0 |
| 44 | 0 |
| 45 | 0 |
| 46 | 0 |
| 47 | 0 |
| 48 | 0 |
| 49 | 0 |
| 50 | 0 |
| 51 | 0 |
| 52 | 0 |
| 53 | 0 |
| 54 | 0 |
| 55 | 0 |
| 56 | 1.4 |
| 57 | 3.3 |
| 58 | 2.6 |
| 59 | 4.4 |
| 60 | 4.6 |
| 61 | 0.1 |
| 62 | 0 |
| 63 | 3.2 |
| 64 | 2.5 |
| 65 | 0 |
| 66 | 0 |
| 67 | 0 |
| 68 | 0 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 69 | 0 |
| 70 | 0 |
| 71 | 0 |
| 72 | 0 |
| 73 | 0 |
| 74 | 0 |
| 75 | 0 |
| 76 | 5.0 |
| 77 | 0 |
| 78 | 0 |
| 79 | 0 |
| 80 | 0 |
| 81 | 2.5 |
| 82 | 1.1 |
| 83 | 1.4 |
| 84 | 1.0 |
| 85 | 1.1 |
| 86 | 0 |
| 87 | 0 |
| 88 | 0.8 |
| 89 | 0.8 |
| 90 | 0.8 |
| 91 | 1.2 |
| 92 | 2.5 |
| 93 | 2.5 |
| 94 | 0 |
| 95 | 0 |
| 96 | 0 |
| 97 | 1.1 |
| 98 | 0 |
| 99 | 0 |
| 100 | 2.5 |
| IC253 | |
| 1 | 5.1 |
| 2 | 0 |
| 3 | 0 |
| 4 | 5.1 |
| 5 | 2.5 |
| Q101 | |
| E | 5.9 |
| C | 9.1 |
| B | 6.5 |
| Q102 | |
| E | 4.4 |
| C | 9.1 |
| B | 4.9 |
| Q103 | |
| E | 2.3 |
| C | 0 |
| B | 2.2 |
| Q104 | |
| E | 3.0 |
| C | 4.5 |
| B | 3.5 |
| Q105 | |
| E | 0 |
| C | 0.2 |
| B | 4.5 |
| Q106 | |
| E | 0 |
| C | 5.0 |
| B | 0.2 |
| Q107 | |
| E | 0 |
| C | 0 |
| B | 3.0 |
| Q401 | |
| E | 1.7 |
| C | 0 |
| B | 1.0 |
| Q402 | |
| E | 1.1 |
| C | 8.5 |
| B | 1.7 |
| Q403 | |
| E | 9.0 |
| C | 1.3 |
| B | 8.5 |
| Q431 | |
| E | 2.0 |
| C | 0 |
| B | 1.4 |
| Q432 | |
| E | 1.5 |
| C | 8.5 |
| B | 2.0 |
| Q433 | |
| E | 9.1 |
| C | 1.6 |
| B | 8.5 |
| Q434 | |
| E | 1.6 |
| C | 0 |
| B | 1.2 |

[P.2-29 – P.2-30]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC701 | |
| 1 | 2.4 |
| 2 | 2.1 |
| 3 | 1.2 |
| 4 | 0.2 |
| 5 | 2.3 |
| 6 | 5.1 |
| 7 | 2.5 |
| 8 | 0 |
| 9 | 0.3 |
| 10 | 0.8 |
| 11 | 2.5 |
| 12 | 5.1 |
| 13 | 4.4 |
| 14 | 4.4 |
| 15 | 0 |
| 16 | 0 |
| 17 | 0 |
| 18 | 0 |
| 19 | 0 |
| 20 | 2.4 |
| 21 | 1.7 |
| 22 | 1.9 |
| 23 | 1.9 |
| 24 | 0 |
| 25 | 2.6 |
| 26 | 2.5 |
| 27 | 2.5 |
| 28 | 0 |
| 29 | 0 |
| 30 | 0 |
| 31 | 0 |
| 32 | 5.1 |
| 33 | 2.5 |
| 34 | 2.5 |
| 35 | 2.5 |
| 36 | 0 |
| 37 | 5.1 |
| 38 | 4.1 |
| 39 | 1.8 |
| 40 | 3.3 |
| 41 | 2.1 |
| 42 | 4.6 |
| 43 | 1.8 |
| 44 | 2.1 |
| 45 | 5.1 |
| 46 | 0 |
| 47 | 3.8 |
| 48 | 1.8 |
| IC702 | |
| 1 | 1.3 |
| 2 | 3.2 |
| 3 | 5.0 |
| 4 | 0.1 |
| 5 | 0 |
| 6 | 1.8 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0.3 |
| 13 | 0.3 |
| 14 | 0.3 |
| 15 | 2.7 |
| 16 | 9.1 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC704 | |
| 1 | 9.1 |
| 2 | 0 |
| 3 | 5.1 |
| Q701 | |
| E | 2.7 |
| C | 0 |
| B | 2.2 |
| Q702 | |
| E | 2.3 |
| C | 0 |
| B | 1.7 |
| Q703 | |
| E | 1.8 |
| C | 0 |
| B | 1.3 |
| Q704 | |
| E | 2.0 |
| C | 4.6 |
| B | 2.5 |
| Q705 | |
| E | 5.1 |
| C | 2.3 |
| B | 4.5 |
| Q707 | |
| E | 2.9 |
| C | 0 |
| B | 2.3 |
| Q753 | |
| E | 2.7 |
| C | 9.1 |
| B | 3.3 |
| Q754 | |
| E | 2.2 |
| C | 9.1 |
| B | 2.9 |
| Q755 | |
| E | 1.6 |
| C | 8.5 |
| B | 2.2 |
| Q756 | |
| E | 9.1 |
| C | 8.5 |
| B | 2.8 |
| Q760 | |
| E | 9.1 |
| C | 2.9 |
| B | 8.5 |
| Q762 | |
| E | 1.0 |
| C | 4.0 |
| B | 1.6 |
| Q763 | |
| E | 3.4 |
| C | 5.0 |
| B | 4.0 |
| Q764 | |
| 1 | 0.4 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0.4 |
| 5 | 0 |
| 6 | 0 |
| Q791 | |
| E | 2.1 |
| C | 9.1 |
| B | 2.7 |
| Q792 | |
| E | 2.2 |
| C | 9.1 |
| B | 2.9 |
| Q793 | |
| E | 0 |
| C | 0 |
| B | 3.0 |
| IC801 | |
| 1 | 2.0 |
| 2 | 1.6 |
| 3 | 0.7 |
| 4 | 0.2 |
| 5 | 2.0 |
| 6 | 5.1 |
| 7 | 2.6 |
| 8 | 0 |
| 9 | 0.4 |
| 10 | 0.8 |
| 11 | 2.2 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 12 | 5.1 |
| 13 | 4.5 |
| 14 | 4.5 |
| 15 | 0 |
| 16 | 0 |
| 17 | 0 |
| 18 | 0 |
| 19 | 0 |
| 20 | 2.4 |
| 21 | 1.5 |
| 22 | 2.0 |
| 23 | 1.9 |
| 24 | 0 |
| 25 | 2.5 |
| 26 | 2.5 |
| 27 | 2.5 |
| 28 | 0 |
| 29 | 0 |
| 30 | 0 |
| 31 | 0 |
| 32 | 5.1 |
| 33 | 2.5 |
| 34 | 2.5 |
| 35 | 2.5 |
| 36 | 0 |
| 37 | 5.1 |
| 38 | 4.1 |
| 39 | 1.8 |
| 40 | 3.3 |
| 41 | 2.1 |
| 42 | 4.6 |
| 43 | 1.8 |
| 44 | 2.1 |
| 45 | 5.1 |
| 46 | 0 |
| 47 | 3.8 |
| 48 | 1.8 |
| IC802 | |
| 1 | 1.3 |
| 2 | 3.2 |
| 3 | 5.0 |
| 4 | 2.5 |
| 5 | 0 |
| 6 | 1.9 |
| 7 | 1.9 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 5.0 |
| 12 | 0 |
| 13 | 5.0 |
| 14 | 0 |
| 15 | 4.4 |
| 16 | 4.4 |
| 17 | 0 |
| 18 | 0 |
| 19 | 2.5 |
| 20 | 5.0 |
| 21 | 0 |
| 22 | 2.8 |
| 23 | 2.8 |
| 24 | 3.4 |
| 25 | 2.4 |
| 26 | 0 |
| 27 | 3.1 |
| 28 | 1.6 |
| IC803 | |
| 1 | 9.1 |
| 2 | 0 |
| 3 | 5.1 |
| Q801 | |
| E | 2.8 |
| C | 0 |
| B | 2.2 |
| Q802 | |
| E | 2.1 |
| C | 0 |
| B | 1.5 |
| Q853 | |
| E | 2.7 |
| C | 9.1 |
| B | 3.3 |
| Q854 | |
| E | 1.8 |
| C | 9.1 |
| B | 2.4 |
| Q855 | |
| E | 1.6 

# VOLTAGE CHART [DISPLAY UNIT]

| PIN NO. | VOLTAGE(V) |
|---|---|
| 47 | 0 |
| 48 | 3.2 |
| 49 | 0 |
| 50 | 3.2 |
| 51 | 0 |
| 52 | 0 |
| 53 | 0 |
| 54 | 3.3 |
| 55 | 0 |
| 56 | 3.3 |
| 57 | 0 |
| 58 | 0 |
| 59 | 0 |
| 60 | 3.3 |
| 61 | 0 |
| 62 | 2.5 |
| 63 | 3.3 |
| 64 | 2.0 |
| 65 | 1.3 |
| 66 | 1.3 |
| 67 | 1.0 |
| 68 | 0 |
| 69 | 1.3 |
| 70 | 1.9 |
| 71 | 1.4 |
| 72 | 1.0 |
| 73 | 0 |
| 74 | 3.3 |
| 75 | 2.5 |
| 76 | 2.1 |
| 77 | 1.9 |
| 78 | 0.9 |
| 79 | 1.2 |
| 80 | 0.9 |
| 81 | 1.7 |
| 82 | 0 |
| 83 | 1.2 |
| 84 | 1.2 |
| 85 | 1.2 |
| 86 | 0 |
| 87 | 1.1 |
| 88 | 1.1 |
| 89 | 0 |
| 90 | 3.3 |
| 91 | 2.5 |
| 92 | 1.7 |
| 93 | 1.5 |
| 94 | 1.1 |
| 95 | 2.0 |
| 96 | 1.5 |
| 97 | 1.5 |
| 98 | 0 |
| 99 | 1.6 |
| 100 | 1.1 |
| 101 | 2.2 |
| 102 | 2.0 |
| 103 | 3.3 |
| 104 | 3.3 |
| 105 | 0 |
| 106 | 3.3 |
| 107 | 2.5 |
| 108 | 1.3 |
| 109 | 0 |
| 110 | 3.3 |
| 111 | 0 |
| 112 | 0 |
| 113 | 0 |
| 114 | 0 |
| 115 | 0 |
| 116 | 0 |
| 117 | 0 |
| 118 | 0 |
| 119 | 0 |
| 120 | 0 |
| 121 | 0 |
| 122 | 0 |
| 123 | 3.3 |
| 124 | 2.5 |
| 125 | 0 |
| 126 | 0 |
| 127 | 0 |
| 128 | 0 |
| 129 | 0 |
| 130 | 0 |
| 131 | 0 |
| 132 | 0 |
| 133 | 0 |
| 134 | 0 |
| 135 | 0 |
| 136 | 0 |
| 137 | 0 |
| 138 | 3.2 |
| 139 | 2.5 |
| 140 | 3.3 |
| 141 | 0 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 142 | 0 |
| 143 | 0 |
| 144 | 0 |
| 145 | 0 |
| 146 | 0 |
| 147 | 0 |
| 148 | 0 |
| 149 | 0 |
| 150 | 3.3 |
| 151 | 2.5 |
| 152 | 0 |
| 153 | 0 |
| 154 | 0 |
| 155 | 1.2 |
| 156 | 0 |
| 157 | 3.3 |
| 158 | 2.5 |
| 159 | 0 |
| 160 | 0 |
| 161 | 0 |
| 162 | 0 |
| 163 | 1.9 |
| 164 | 2.1 |
| 165 | 0.9 |
| 166 | 1.4 |
| 167 | 1.8 |
| 168 | 1.3 |
| 169 | 0 |
| 170 | 3.3 |
| 171 | 2.5 |
| 172 | 1.0 |
| 173 | 0 |
| 174 | 1.3 |
| 175 | 2.0 |
| 176 | 1.1 |
| 177 | 1.1 |
| 178 | 1.1 |
| 179 | 1.2 |
| 180 | 0 |
| 181 | 3.3 |
| 182 | 2.5 |
| 183 | 1.2 |
| 184 | 1.2 |
| 185 | 1.7 |
| 186 | 0.9 |
| 187 | 1.2 |
| 188 | 0.9 |
| 189 | 2.0 |
| 190 | 2.2 |
| 191 | 0 |
| 192 | 1.1 |
| 193 | 1.6 |
| 194 | 1.5 |
| 195 | 1.5 |
| 196 | 2.0 |
| 197 | 1.1 |
| 198 | 1.5 |
| 199 | 1.7 |
| 200 | 0 |
| 201 | 1.3 |
| 202 | 0 |
| 203 | 3.2 |
| 204 | 1.4 |
| 205 | 0 |
| 206 | 3.3 |
| 207 | 2.5 |
| 208 | 2.0 |
| 209 | 2.1 |
| 210 | 1.0 |
| 211 | 1.4 |
| 212 | 1.9 |
| 213 | 1.3 |
| 214 | 0 |
| 215 | 1.0 |
| 216 | 1.3 |
| 217 | 1.3 |
| 218 | 2.0 |
| 219 | 2.0 |
| 220 | 2.2 |
| 221 | 0 |
| 222 | 3.3 |
| 223 | 0 |
| 224 | 1.1 |
| 225 | 1.6 |
| 226 | 1.5 |
| 227 | 1.4 |
| 228 | 2.0 |
| 229 | 1.1 |
| 230 | 0 |
| 231 | 1.5 |
| 232 | 1.7 |
| 233 | 1.1 |
| 234 | 1.1 |
| 235 | 1.1 |
| 236 | 1.2 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 237 | 0 |
| 238 | 3.3 |
| 239 | 2.5 |
| 240 | 1.2 |
| 241 | 1.2 |
| 242 | 1.7 |
| 243 | 0.9 |
| 244 | 1.2 |
| 245 | 0.9 |
| 246 | 0 |
| 247 | 3.2 |
| 248 | 1.4 |
| 249 | 1.3 |
| 250 | 0 |
| 251 | 3.3 |
| 252 | 2.5 |
| 253 | 0 |
| 254 | 0 |
| 255 | 0 |
| 256 | 0 |
| IC464 | |
| 1 | 0.3 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 1.5 |
| 12 | 0 |
| 13 | 0 |
| 14 | 0 |
| 15 | 0 |
| 16 | 0 |
| 17 | 0 |
| 18 | 0 |
| 19 | 0 |
| 20 | 3.2 |
| IC465 | |
| 1 | 0 |
| 2 | 1.5 |
| 3 | 0 |
| 4 | 1.3 |
| 5 | 3.2 |
| IC466 | |
| 1 | 0 |
| 2 | 1.5 |
| 3 | 0 |
| 4 | 0.8 |
| 5 | 3.3 |

[P.2-35 – P.2-36]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC501 | |
| 1 | 3.1 |
| 2 | 1.4 |
| 3 | 3.2 |
| 4 | 3.2 |
| 5 | 0 |
| 6 | 0.5 |
| 7 | 0.5 |
| 8 | 0 |
| 9 | 0.5 |
| 10 | 0.5 |
| 11 | 0.5 |
| 12 | 0.5 |
| 13 | 0.5 |
| 14 | 0.5 |
| 15 | 0.5 |
| 16 | 0.5 |
| 17 | 0.5 |
| 18 | 3.3 |
| 19 | 0 |
| 20 | 1.5 |
| 21 | 0 |
| 22 | 1.5 |
| 23 | 3.3 |
| 24 | 0 |
| 25 | 3.3 |
| 26 | 0 |
| 27 | 0 |
| 28 | 0 |
| 29 | 0 |
| 30 | 0 |
| 31 | 0 |
| 32 | 0 |
| 33 | 0 |
| 34 | 0 |
| 35 | 0 |
| 36 | 0 |
| 37 | 0 |
| 38 | 0 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 39 | 0 |
| 40 | 0 |
| 41 | 0 |
| 42 | 0 |
| 43 | 0 |
| 44 | 0 |
| 45 | 0 |
| 46 | 0 |
| 47 | 0 |
| 48 | 0 |
| 49 | 0 |
| 50 | 3.3 |
| 51 | 0 |
| 52 | 0 |
| 53 | 1.6 |
| 54 | 1.0 |
| 55 | 0 |
| 56 | 1.6 |
| 57 | 3.3 |
| 58 | 0 |
| 59 | 0.7 |
| 60 | 0.7 |
| 61 | 0.7 |
| 62 | 0.7 |
| 63 | 0.7 |
| 64 | 0.7 |
| 65 | 0.7 |
| 66 | 0.7 |
| 67 | 0.7 |
| 68 | 0 |
| 69 | 0.7 |
| 70 | 0.7 |
| 71 | 0 |
| 72 | 1.7 |
| 73 | 1.5 |
| 74 | 0 |
| 75 | 3.3 |
| 76 | 3.3 |
| 77 | 0 |
| 78 | 0 |
| 79 | 1.5 |
| 80 | 0.7 |
| 81 | 1.5 |
| 82 | 1.3 |
| 83 | 2.0 |
| 84 | 0 |
| 85 | 3.3 |
| 86 | 0 |
| 87 | 0 |
| 88 | 1.5 |
| 89 | 1.3 |
| 90 | 2.0 |
| 91 | 0 |
| 92 | 3.3 |
| 93 | 0 |
| 94 | 0 |
| 95 | 1.5 |
| 96 | 1.3 |
| 97 | 2.0 |
| 98 | 0 |
| 99 | 0 |
| 100 | 0 |
| Q501 | |
| E | 1.1 |
| C | 0 |
| B | 0.3 |
| Q502 | |
| E | 1.1 |
| C | 0 |
| B | 0.4 |
| Q503 | |
| E | 1.1 |
| C | 0 |
| B | 0.4 |
| Q504 | |
| E | 0 |
| C | 0 |
| B | 0.6 |

[P.2-37 – P.2-28]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC602 | |
| 1 | 0 |
| 2 | 5.9 |
| 3 | 6.2 |
| 4 | 3.0 |
| 5 | 5.6 |
| 6 | -0.5 |
| 7 | -5.5 |
| 8 | -4.9 |
| 9 | 3.3 |
| 10 | 3.3 |
| 11 | 3.3 |
| 12 | 3.3 |
| 13 | -5.4 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 14 | 0 |
| 15 | 3.3 |
| 16 | 3.3 |
| IC603 | |
| 1 | 0.2 |
| 2 | 1.4 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 3.1 |
| 13 | 0.4 |
| 14 | 3.1 |
| 15 | 1.4 |
| 16 | 5.1 |
| IC901 | |
| 1 | 3.3 |
| 2 | 0 |
| 3 | 3.3 |
| 4 | 3.3 |
| 5 | 3.3 |
| 6 | 0 |
| 7 | 2.0 |
| 8 | 0 |
| 9 | 2.0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 3.3 |
| 13 | 3.3 |
| 14 | 3.3 |
| 15 | 3.3 |
| 16 | 0 |
| 17 | 0 |
| 18 | 3.3 |
| 19 | 2.7 |
| 20 | 0 |
| 21 | 3.0 |
| 22 | 3.0 |
| 23 | 3.3 |
| 24 | 3.0 |
| 25 | 3.0 |
| 26 | 0 |
| 27 | 3.0 |
| 28 | 3.0 |
| 29 | 3.3 |
| 30 | 0 |
| 31 | 0 |
| 32 | 0 |
| 33 | 3.3 |
| 34 | 0 |
| 35 | 0 |
| 36 | 2.0 |
| 37 | 1.3 |
| 38 | 1.3 |
| 39 | 1.0 |
| 40 | 1.4 |
| 41 | 1.8 |
| 42 | 1.4 |
| 43 | 1.0 |
| 44 | 0.9 |
| 45 | 1.2 |
| 46 | 0.9 |
| 47 | 1.8 |
| 48 | 0 |
| 49 | 3.3 |
| 50 | 1.2 |
| 51 | 1.2 |
| 52 | 1.2 |
| 53 | 1.1 |
| 54 | 1.7 |
| 55 | 1.5 |
| 56 | 1.5 |
| 57 | 1.5 |
| 58 | 1.1 |
| 59 | 2.0 |
| 60 | 1.5 |
| 61 | 1.5 |
| 62 | 1.6 |
| 63 | 1.1 |
| 64 | 0 |
| IC903 | |
| 1 | 3.3 |
| 2 | 3.3 |
| 3 | 3.3 |
| 4 | 0 |

<NI-COM PWB>
[P.2-39 – P.2-40]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC904 | |
| 1 | 5.1 |
| 2 | 0 |
| 3 | 0 |
| 4 | 5.1 |
| 5 | 3.3 |
| Q601 | |
| E | 0 |
| C | 0 |
| B | 0.7 |
| Q903 | |
| D | 3.3 |
| S | 3.3 |
| G | 5.1 |
| Q904 | |
| D | 3.3 |
| S | 3.3 |
| G | 5.1 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC901 | |
| 1 | 4.7 |
| 2 | 0 |
| 3 | 2.5 |
| IC902 | |
| 1 | 4.7 |
| 2 | 0 |
| 3 | 3.3 |
| Q001 | |
| E | 0 |
| C | 0 |
| B | 0.6 |
| Q003 | |
| E | 0 |
| C | 3.3 |
| B | 0 |
| Q008 | |
| E | 4.6 |
| C | 0 |
| B | 4.1 |
| Q009 | |
| E | 3.9 |
| C | 4.1 |
| B | 4.4 |
| Q010 | |
| E | 3.9 |
| C | 4.7 |
| B | 4.4 |
| Q011 | |
| E | 0 |
| C | 0 |
| B | 0 |
| Q012 | |
| E | 0 |
| C | 4.1 |
| B | 0 |
| Q013 | |
| D | 3.3 |
| S | 3.3 |
| G | 4.5 |
| Q014 | |
| D | 0 |
| S | 0 |
| G | 4.4 |
| Q015 | |
| D | 3.3 |
| S | 3.3 |
| G | 4.5 |
| Q021 | |
| E | 0 |
| C | 3.3 |
| B | 0 |
| Q022 | |
| E | 2.9 |
| C | 3.3 |
| B | 3.3 |

<MI-COM INTERFACE PWB>
[P.2-41 – P.2-42]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC101 | |
| 1 | 2.3 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 4.6 |
| 7 | 0 |
| 8 | 2.3 |
| 9 | 2.3 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0 |
| 14 | 4.6 |
| IC102 | |
| 1 | 0 |
| 2 | 0.3 |
| 3 | 0 |
| 4 | 0.3 |
| 5 | 0.3 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0.3 |
| 13 | 0 |
| 14 | 0.3 |
| 15 | 0.3 |
| 16 | 4.6 |
| Q101 | |
| E | 0 |
| C | 4.6 |
| B | 0 |
| Q102 | |
| E | 0 |
| C | 0 |
| B | 0 |

<RECEIVER POWER PWB>
[P.2-43 – P.2-44]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC9901 | |
| 1 | 336.7 |
| 2 | 46.3 |
| 3 | 46.3 |
| 4 | 62.3 |
| 5 | 48.3 |
| IC9931 | |
| 1 | 300.5 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 4.9 |
| IC9932 | |
| 1 | 4.7 |
| 2 | 0 |
| 3 | 0 |
| 4 | 3.4 |
| 5 | 4.9 |
| 6 | 0 |
| 7 | 4.9 |
| Q9971 | |
| E | 0 |
| C | 0.7 |
| B | 0 |
| Q9972 | |
| E | 0 |
| C | 0 |
| B | 1.7 |

<FRONT CONTROL PWB>
[P.2-45 – P.2-46]

| PIN NO. | VOLTAGE(V) |
|---|---|
| Q8801 | |
| E | 3.3 |
| C | 3.1 |
| B | 1.5 |
| Q8802 | |
| E | 3.3 |
| C | 1.5 |
| B | 3.3 |
| Q8803 | |
| E | 0 |
| C | 3.3 |
| B | 0 |

<DISPLAY INTERFACE PWB>
[P.2-47 – P.2-48]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC801 | |
| 1 | 5.1 |
| 2 | 0 |
| 3 | 3.4 |
| IC802 | |
| 1 | 12.1 |
| 2 | 0 |
| 3 | 5.1 |
| IC803 | |
| 1 | 0 |
| 2 | 8.5 |
| 3 | 8.6 |
| 4 | 5.0 |
| 5 | 8.4 |
| 6 | -0.1 |
| 7 | -6.0 |
| 8 | -3.7 |
| 9 | 5.0 |
| 10 | 5.1 |
| 11 | 5.1 |
| 12 | 5.0 |
| 13 | -6.0 |
| 14 | 0 |
| 15 | 5.0 |
| 16 | 5.1 |
| IC804 | |
| 1 | 5.0 |
| 2 | 0.5 |
| 3 | 5.0 |
| 4 | 5.0 |
| 5 | 0.5 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 5.0 |
| 10 | 5.0 |
| 11 | 5.0 |
| 12 | 0.9 |
| 13 | 5.0 |
| 14 | 0 |
| 15 | 5.0 |
| 16 | 5.0 |
| IC805 | |
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 5.0 |
| 6 | 5.0 |
| 7 | 0 |
| 8 | 5.1 |
| IC807 | |
| 1 | 3.3 |
| 2 | 0 |
| 3 | 5.1 |
| 4 | 3.1 |
| 5 | 0 |
| 6 | 3.2 |
| 7 | 5.0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 2.4 |
| 11 | 2.5 |
| 12 | 5.1 |
| 13 | 0 |
| 14 | 0 |
| 15 | 0 |
| 16 | 0 |
| 17 | 5.1 |
| 18 | 0 |
| 19 | 0 |
| 20 | 0 |
| 21 | 0 |
| 22 | 0 |
| 23 | 5.0 |
| 24 | 5.0 |
| 25 | 5.0 |
| 26 | 4.3 |
| 27 | 4.4 |
| 28 | 4.5 |
| 29 | 4.5 |
| 30 | 0.7 |
| 31 | 0.7 |
| 32 | 0 |
| 33 | 0 |
| 34 | 0 |
| 35 | 5.1 |
| 36 | 0 |
| 37 | 5.1 |
| 38 | 0 |
| 39 | 5.1 |
| 40 | 5.1 |
| 41 | 5.1 |
| 42 | 5.1 |
| 43 | 5.1 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 44 | 0 |
| 45 | 5.0 |
| 46 | 5.0 |
| 47 | 5.6 |
| 48 | 0.7 |
| 49 | 0.7 |
| 50 | 0.7 |
| 51 | 0 |
| 52 | 5.1 |
| 53 | 5.1 |
| 54 | 0.2 |
| 55 | 3.0 |
| 56 | 5.0 |
| 57 | 0.8 |
| 58 | 0.8 |
| 59 | 0 |
| 60 | 0 |
| 61 | 0.5 |
| 62 | 1.2 |
| 63 | 5.1 |
| 64 | 5.0 |
| IC808 | |
| 1 | 0 |
| 2 | 0.9 |
| 3 | 0.9 |
| 4 | 3.3 |
| 5 | 2.6 |
| 6 | 0 |
| 7 | 5.0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0 |
| 13 | 5.0 |
| 14 | 0 |
| 15 | 5.0 |
| 16 | 5.0 |
| IC809 | |
| 1 | 5.0 |
| 2 | 5.0 |
| 3 | 0 |
| 4 | 0 |
| Q801 | |
| S | 3.4 |
| D | 3.0 |
| G | 4.4 |
| Q802 | |
| S | 3.4 |
| D | 2.9 |
| G | 4.4 |
| Q803 | |
| E | 5.1 |
| C | 5.0 |
| B | 4.4 |
| Q804 | |
| E | 0 |
| C | 0 |
| B | 0.6 |
| Q805 | |
| S | 3.3 |
| D | 3.0 |
| G | 4.5 |
| Q806 | |
| S | 3.3 |
| D | 3.0 |
| G | 4.5 |
| Q807 | |
| E | 5.0 |
| C | 4.9 |
| B | 4.4 |

[P.49 – P.50]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC501 | |
| 1 | 3.3 |
| 142 | 3.3 |
| 143 | 3.3 |
| 144 | 0 |
| 145 | 0 |
| 146 | 3.3 |
| 147 | 0 |
| 148 | 3.3 |
| 149 | 3.3 |
| 150 | 1.6 |
| 151 | 1.9 |
| 152 | 1.8 |
| 153 | 1.8 |
| 154 | 2.2 |
| 155 | 1.4 |
| 156 | 1.8 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 157 | 1.4 |
| 18 | 3.3 |
| 19 | 0 |
| 20 | 1.5 |
| 21 | 1.6 |
| 22 | 1.5 |
| 23 | 1.5 |
| 24 | 1.5 |
| 25 | 1.3 |
| 26 | 1.5 |
| 27 | 1.3 |
| 28 | 0 |
| 29 | 3.3 |
| 30 | 1.3 |
| 31 | 1.8 |
| 32 | 2.2 |
| 33 | 1.6 |
| 34 | 1.3 |
| 35 | 1.6 |
| 36 | 1.6 |
| 37 | 1.2 |
| 38 | 1.3 |
| 39 | 0 |
| 40 | 1.2 |
| 41 | 0 |
| 42 | 0 |
| 43 | 3.3 |
| 44 | 1.1 |
| 45 | 0 |
| 46 | 2.4 |
| 47 | 2.6 |
| 48 | 3.3 |
| 49 | 0 |
| 50 | 0 |
| 51 | 0 |
| 52 | 0 |
| 53 | 0 |
| 54 | 0 |
| 55 | 0 |
| 56 | 0 |
| 57 | 3.3 |
| 58 | 0 |
| 59 | 0 |
| 60 | 0 |
| 61 | 0 |
| 62 | 0 |
| 63 | 0 |
| 64 | 0 |
| 65 | 0 |
| 66 | 0 |
| 67 | 3.3 |
| 68 | 0 |
| 69 | 0 |
| 70 | 0 |
| 71 | 0 |
| 72 | 0 |
| 73 | 0 |
| 74 | 0 |
| 75 | 0 |
| 76 | 0 |
| 77 | 0 |
| 78 | 3.3 |
| 79 | 0 |
| 80 | 3.0 |
| 81 | 3.0 |
| 82 | 3.3 |
| 83 | 0 |
| 84 | 3.3 |
| 85 | 3.0 |
| 86 | 3.0 |
| 87 | 0 |
| 88 | 3.3 |
| 89 | 0 |
| 90 | 3.0 |
| 91 | 3.0 |
| 92 | 0 |
| 93 | 3.0 |
| 94 | 3.0 |
| 95 | 3.3 |
| 96 | 3.0 |
| 97 | 3.3 |
| 98 | 0 |
| 99 | 3.3 |
| 100 | 3.3 |
| IC502 | |
| 1 | 3.3 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| IC601 | |
| 1 | 3.3 |
| 2 | 0.9 |
| 3 | 1.1 |
| 4 | 1.4 |
| 5 | 0 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 6 | 1.2 |
| 7 | 1.1 |
| 8 | 1.0 |
| 9 | 3.3 |
| 10 | 0.7 |
| 11 | 1.2 |
| 12 | 1.2 |
| 13 | 0 |
| 14 | 0.9 |
| 15 | 0 |
| 16 | 1.2 |
| 17 | 0 |
| 18 | 0 |
| 19 | 0 |
| 20 | 1.2 |
| 21 | 0 |
| 22 | 1.2 |
| 23 | 1.2 |
| 24 | 0.8 |
| 25 | 1.7 |
| 26 | 0 |
| 27 | 3.3 |
| 28 | 3.3 |
| 29 | 0 |
| 30 | 3.3 |
| 31 | 0.7 |
| 32 | 3.3 |
| 33 | 0 |
| 34 | 3.3 |
| 35 | 0 |
| 36 | 0 |
| 37 | 1.2 |
| 38 | 1.3 |
| 39 | 1.2 |
| 40 | 1.2 |
| 41 | 1.3 |
| 42 | 1.2 |
| 43 | 0 |
| 44 | 3.3 |
| 45 | 1.2 |
| 46 | 1.3 |
| 47 | 1.2 |
| 48 | 1.3 |
| 49 | 0 |
| 50 | 1.2 |
| 51 | 1.2 |
| 52 | 1.2 |
| 53 | 0 |
| 54 | 1.2 |
| 55 | 1.3 |
| 56 | 1.1 |
| IC603 | |
| 1 | 1.4 |
| 2 | 1.4 |
| 3 | 0 |
| 4 | 0.7 |
| 5 | 3.3 |
| Q703 | |
| S | 3.3 |
| D | 3.3 |
| G | 5.0 |
| Q704 | |
| S | 3.3 |
| D | 3.3 |
| G | 5.0 |

[P.51 – P.52]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC401 | |
| 1 | 0 |
| 2 | 2.5 |
| 3 | 2.5 |
| 4 | 1.6 |
| 5 | 1.6 |
| 6 | 1.7 |
| 7 | 1.7 |
| 8 | 1.7 |
| 9 | 1.6 |
| 10 | 1.6 |
| 11 | 1.6 |
| 12 | 0 |
| 13 | 0 |
| 14 | 0 |
| 15 | 1.6 |
| 16 | 1.6 |
| 17 | 1.6 |
| 18 | 0 |
| 19 | 1.7 |
| 20 | 1.6 |
| 21 | 0 |
| 22 | 3.3 |
| 23 | 2.5 |
| 24 | 1.7 |
| 25 | 1.6 |
| 26 | 0 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 27 | 0 |
| 28 | 1.6 |
| 29 | 1.7 |
| 30 | 1.5 |
| 31 | 1.7 |
| 32 | 0 |
| 33 | 1.6 |
| 34 | 1.6 |
| 35 | 1.6 |
| 36 | 1.6 |
| 37 | 0 |
| 38 | 0 |
| 39 | 3.3 |
| 40 | 0 |
| 41 | 2.5 |
| 42 | 3.3 |
| 43 | 1.4 |
| 44 | 0 |
| 45 | 0 |
| 46 | 0 |
| 47 | 0 |
| 48 | 2.9 |
| 49 | 0 |
| 50 | 2.9 |
| 51 | 0 |
| 52 | 1.1 |
| 53 | 0 |
| 54 | 3.3 |
| 55 | 0 |
| 56 | 3.3 |
| 57 | 0 |
| 58 | 0 |
| 59 | 0 |
| 60 | 3.3 |
| 61 | 0 |
| 62 | 2.5 |
| 63 | 3.3 |
| 64 | 1.0 |
| 65 | 1.2 |
| 66 | 1.1 |
| 67 | 1.1 |
| 68 | 0 |
| 69 | 1.2 |
| 70 | 1.1 |
| 71 | 1.2 |
| 72 | 1.2 |
| 73 | 0 |
| 74 | 3.3 |
| 75 | 2.5 |
| 76 | 0 |
| 77 | 0 |
| 78 | 0.7 |
| 79 | 1.0 |
| 80 | 1.0 |
| 81 | 1.2 |
| 82 | 0 |
| 83 | 1.1 |
| 84 | 1.1 |
| 85 | 1.1 |
| 86 | 1.3 |
| 87 | 0 |
| 88 | 0 |
| 89 | 0 |
| 90 | 3.3 |
| 91 | 2.5 |
| 92 | 1.0 |
| 93 | 1.0 |
| 94 | 0.8 |
| 95 | 1.2 |
| 96 | 1.2 |
| 97 | 1.2 |
| 98 | 0 |
| 99 | 1.0 |
| 100 | 1.5 |
| 101 | 0 |
| 102 | 0 |
| 103 | 3.2 |
| 104 | 3.3 |
| 105 | 0 |
| 106 | 3.3 |
| 107 | 2.5 |
| 108 | 0.7 |
| 109 | 0 |
| 110 | 0 |
| 111 | 0 |
| 112 | 0 |
| 113 | 0 |
| 114 | 0 |
| 115 | 0 |
| 116 | 0 |
| 117 | 0 |
| 118 | 0 |
| 119 | 0 |
| 120 | 0 |
| 121 | 0 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 122 | 0 |
| 123 | 3.3 |
| 124 | 2.5 |
| 125 | 0 |
| 126 | 0 |
| 127 | 0 |
| 128 | 0 |
| 129 | 0 |
| 130 | 0 |
| 131 | 0 |
| 132 | 0 |
| 133 | 0 |
| 134 | 0 |
| 135 | 0 |
| 136 | 0 |
| 137 | 0 |
| 138 | 0 |
| 139 | 0 |
| 140 | 0 |
| 141 | 0 |
| 142 | 0 |
| 143 | 0 |
| 144 | 0 |
| 145 | 0 |
| 146 | 0 |
| 147 | 0 |
| 148 | 0 |
| 149 | 0 |
| 150 | 3.3 |
| 151 | 2.5 |
| 152 | 0 |
| 153 | 0 |
| 154 | 3.2 |
| 155 | 1.4 |
| 156 | 0 |
| 157 | 3.3 |
| 158 | 2.5 |
| 159 | 0 |
| 160 | 0 |
| 161 | 0 |
| 162 | 0 |
| 163 | 0 |
| 164 | 1.5 |
| 165 | 1.1 |
| 166 | 1.1 |
| 167 | 1.1 |
| 168 | 1.3 |
| 169 | 0 |
| 170 | 3.3 |
| 171 | 2.5 |
| 172 | 1.1 |
| 173 | 1.1 |
| 174 | 0.9 |
| 175 | 0 |
| 176 | 1.7 |
| 177 | 1.2 |
| 178 | 1.3 |
| 179 | 1.3 |
| 180 | 0 |
| 181 | 3.3 |
| 182 | 2.5 |
| 183 | 0 |
| 184 | 1.2 |
| 185 | 1.2 |
| 186 | 1.1 |
| 187 | 1.0 |
| 188 | 0.7 |
| 189 | 0 |
| 190 | 1.1 |
| 191 | 0 |
| 192 | 0.9 |
| 193 | 1.0 |
| 194 | 1.3 |
| 195 | 1.3 |
| 196 | 1.8 |
| 197 | 1.3 |
| 198 | 1.1 |
| 199 | 1.1 |
| 200 | 0 |
| 201 | 1.0 |
| 202 | 0 |
| 203 | 3.0 |
| 204 | 2.6 |
| 205 | 0 |
| 206 | 3.3 |
| 207 | 2.5 |
| 208 | 0 |
| 209 | 0 |
| 210 | 1.6 |
| 211 | 1.6 |
| 212 | 1.6 |
| 213 | 1.6 |
| 214 | 0 |
| 215 | 1.6 |
| 216 | 1.6 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 217 | 1.6 |
| 218 | 1.6 |
| 219 | 0 |
| 220 | 0 |
| 221 | 0 |
| 222 | 3.3 |
| 223 | 2.5 |
| 224 | 0 |
| 225 | 1.6 |
| 226 | 1.6 |
| 227 | 1.6 |
| 228 | 1.6 |
| 229 | 1.6 |
| 230 | 0 |
| 231 | 1.6 |
| 232 | 1.6 |
| 233 | 0 |
| 234 | 0 |
| 235 | 1.6 |
| 236 | 1.6 |
| 237 | 0 |
| 238 | 3.3 |
| 239 | 2.5 |
| 240 | 1.6 |
| 241 | 1.7 |
| 242 | 1.7 |
| 243 | 1.6 |
| 244 | 1.6 |
| 245 | 1.6 |
| 246 | 0 |
| 247 | 3.3 |
| 248 | 0.8 |
| 249 | 1.6 |
| 250 | 0 |
| 251 | 3.3 |
| 252 | 2.5 |
| 253 | 0 |
| 254 | 0 |
| 255 | 0 |
| 256 | 0 |
| IC405 | |
| 1 | 3.3 |
| 2 | 0 |
| 3 | 0 |
| 4 | 3.3 |
| 5 | 2.5 |

[P.53 – P.54]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC301 | 3.3 |
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0 |
| 14 | 0 |
| 15 | 0 |
| 16 | 0 |
| 17 | 0 |
| 18 | 0 |
| 19 | 0 |
| 20 | 0 |
| 21 | 0 |
| 22 | 0 |
| 23 | 0 |
| 24 | 0 |
| 25 | 0 |
| 26 | 0 |
| 27 | 3.3 |
| 28 | 0 |
| 29 | 1.5 |
| 30 | 0 |
| 31 | 0 |
| 32 | 3.3 |
| 33 | 0 |
| 34 | 3.3 |
| 35 | 3.3 |
| 36 | 3.3 |
| 37 | 3.3 |
| 38 | 0 |
| 39 | 0 |
| 40 | 0 |
| 41 | 0 |
| 42 | 3.3 |
| 43 | 0 |
| 44 | 3.3 |
| 45 | 3.3 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 46 | 0 |
| 47 | 3.3 |
| 48 | 0 |
| 49 | 0 |
| 50 | 0 |
| 51 | 1.7 |
| 52 | 0 |
| 53 | 3.3 |
| 54 | 0 |
| 55 | 0 |
| 56 | 3.3 |
| 57 | 3.3 |
| 58 | 3.3 |
| 59 | 3.3 |
| 60 | 0 |
| 61 | 0 |
| 62 | 3.3 |
| 63 | 3.3 |
| 64 | 0 |
| 65 | 0 |
| 66 | 0 |
| 67 | 0 |
| 68 | 3.3 |
| 69 | 0 |
| 70 | 0.9 |
| 71 | 0 |
| 72 | 0 |
| 73 | 0 |
| 74 | 0 |
| 75 | 0 |
| 76 | 0 |
| 77 | 0 |
| 78 | 0 |
| 79 | 1.4 |
| 80 | 0 |
| 81 | 1.8 |
| 82 | 1.8 |
| 83 | 2.6 |
| 84 | 3.3 |
| 85 | 3.3 |
| 86 | 0 |
| 87 | 1.6 |
| 88 | 1.6 |
| 89 | 1.6 |
| 90 | 1.6 |
| 91 | 1.6 |
| 92 | 1.6 |
| 93 | 1.6 |
| 94 | 1.6 |
| 95 | 1.6 |
| 96 | 1.6 |
| 97 | 1.6 |
| 98 | 1.6 |
| 99 | 1.6 |
| 100 | 1.6 |
| 101 | 1.6 |
| 102 | 1.6 |
| 103 | 3.3 |
| 104 | 0 |
| 105 | 0 |
| 106 | 1.6 |
| 107 | 1.6 |
| 108 | 1.6 |
| 109 | 1.3 |
| 110 | 1.6 |
| 111 | 2.2 |
| 112 | 1.8 |
| 113 | 1.4 |
| 114 | 0 |
| 115 | 3.3 |
| 116 | 1.7 |
| 117 | 1.0 |
| 118 | 1.0 |
| 119 | 1.0 |
| 120 | 0.9 |
| 121 | 0.7 |
| 122 | 0.8 |
| 123 | 0 |
| 124 | 1.1 |
| 125 | 0 |
| 126 | 0 |
| 127 | 3.3 |
| 128 | 1.1 |
| 129 | 0.7 |
| 130 | 0.6 |
| 131 | 0 |
| 132 | 0.7 |
| 133 | 0.8 |
| 134 | 0.8 |
| 135 | 0.8 |
| 136 | 0.7 |
| 137 | 0 |
| 138 | 0 |
| 139 | 3.3 |
| 140 | 0 |
| 141 | 1.4 |
| 142 | 1.2 |
| 143 | 1.2 |
| 144 | 0.7 |
| 145 | 1.0 |
| 146 | 1.0 |
| 147 | 1.0 |
| 148 | 1.3 |
| 149 | 0 |
| 150 | 0 |
| 151 | 3.3 |
| 152 | 3.3 |
| 153 | 3.0 |
| 154 | 3.3 |
| 155 | 1.1 |
| 156 | 0 |
| 157 | 2.7 |
| 158 | 0.7 |
| 159 | 3.3 |
| 160 | 0 |
| 161 | 0 |
| 162 | 3.3 |
| 163 | 0 |
| 164 | 0 |
| 165 |

<AUDIO PWB>
[P.2-57 – P.2-58]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC6501 | |
| 1 | 6.0 |
| 2 | 6.0 |
| 3 | 6.0 |
| 4 | 0 |
| 5 | 6.0 |
| 6 | 6.0 |
| 7 | 6.0 |
| 8 | 12.1 |
| IC6521 | |
| 1 | 6.1 |
| 2 | 6.1 |
| 3 | 6.1 |
| 4 | 6.0 |
| 5 | 6.0 |
| 6 | 6.1 |
| 7 | 6.1 |
| 8 | 6.1 |
| 9 | 0.9 |
| 10 | 6.1 |
| 11 | 3.1 |
| 12 | 3.1 |
| 13 | 4.3 |
| 14 | 4.4 |
| 15 | 0 |
| 16 | 12.1 |
| 17 | 0 |
| 18 | 0 |
| 19 | 5.4 |
| 20 | 5.5 |
| 21 | 6.1 |
| 22 | 6.1 |
| 23 | 6.1 |
| 24 | 6.1 |
| 25 | 6.1 |
| 26 | 6.0 |
| 27 | 6.0 |
| 28 | 6.1 |
| 29 | 6.1 |
| 30 | 6.1 |
| IC6551 | |
| 1 | 6.2 |
| 2 | 6.2 |
| 3 | 6.1 |
| 4 | 0 |
| 5 | 6.1 |
| 6 | 6.2 |
| 7 | 6.2 |
| 8 | 12.1 |
| IC6552 | |
| 1 | 6.2 |
| 2 | 6.2 |
| 3 | 6.2 |
| 4 | 0 |
| 5 | 6.2 |
| 6 | 6.2 |
| 7 | 6.2 |
| 8 | 12.1 |
| IC6571 | |
| 1 | 6.1 |
| 2 | 6.1 |
| 3 | 6.2 |
| 4 | 0 |
| 5 | 6.2 |
| 6 | 6.2 |
| 7 | 6.1 |
| 8 | 12.1 |
| IC6572 | |
| 1 | 6.2 |
| 2 | 6.2 |
| 3 | 6.1 |
| 4 | 0 |
| 5 | 6.1 |
| 6 | 6.2 |
| 7 | 6.2 |
| 8 | 12.1 |
| IC6621 | |
| 1 | 0 |
| 2 | 0 |
| 3 | 9.1 |
| 4 | 4.2 |
| 5 | 9.2 |
| 6 | 11.9 |
| 7 | 3.2 |
| 8 | 0 |
| 9 | 3.2 |
| 10 | 8.8 |
| 11 | 2.8 |
| 12 | 2.8 |
| 13 | 0 |
| 14 | 2.8 |
| 15 | 2.9 |
| 16 | 5.8 |
| 17 | 3.1 |
| 18 | 0 |

| PIN NO. | VOLTAGE(V) |
|---|---|
| 19 | 3.1 |
| 20 | 11.9 |
| 21 | 9.2 |
| 22 | 0.3 |
| 23 | 9.2 |
| 24 | 0 |
| 25 | 0.9 |
| Q6521 | |
| E | 0 |
| C | 0 |
| B | 0 |
| Q6522 | |
| E | 0 |
| C | 0 |
| B | 0 |
| Q6523 | |
| E | 0 |
| C | 0 |
| B | 0 |
| Q6531 | |
| E | 0 |
| C | 2.8 |
| B | 0 |
| Q6532 | |
| E | 0 |
| C | 0 |
| B | 0.6 |
| Q6533 | |
| E | 0.7 |
| C | 0.6 |
| B | 0.2 |
| Q6534 | |
| E | 0 |
| C | 0 |
| B | 0 |
| Q6535 | |
| E | 0 |
| C | 0 |
| B | 0 |
| Q6536 | |
| E | 0 |
| C | 12.0 |
| B | 0 |
| Q6641 | |
| E | 0 |
| C | 12.0 |
| B | 0 |
| Q6642 | |
| E | 11.6 |
| C | 0 |
| B | 12.0 |
| Q6643 | |
| E | 0 |
| C | 0 |
| B | 0.6 |

<TEMP. SENSOR PWB>
[P.2-60]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC8101 | |
| 1 | 4.3 |
| 2 | 4.4 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 5.1 |

<DISPLAY LED PWB>
[P.2-61]

| PIN NO. | VOLTAGE(V) |
|---|---|
| IC1742 | |
| 1 | 3.9 |
| 2 | 5.1 |
| 3 | 0 |
| Q1741 | |
| E | 1.9 |
| C | 2.0 |
| B | 4.9 |
| Q1742 | |
| R | 0.2 |
| C | 5.1 |
| B | 0 |



# WAVEFORMS

## [RECEIVER UNIT]

### -MAIN PWB-

(SHEET1)

TU001-16 [H] 1.8Vp-p

(SHEET2)

IC101-6 [H] 0.6Vp-p

IC101-7 [H] 0.5Vp-p

IC101-8 [H] 0.5Vp-p

IC101-12 [H] 0.6Vp-p

IC101-13 [H] 0.5Vp-p

IC101-14 [H] 0.5Vp-p

IC101-25 [H] 0.9Vp-p

IC101-26 [H] 1.2Vp-p

IC101-27 [H] 1.2Vp-p

IC101-31 [H] 1.1Vp-p

IC101-32 [H] 1.1Vp-p

IC101-33 [H] 1.1Vp-p

IC201-1 [H] 4.5Vp-p

IC201-2 [V] 5.0Vp-p

IC201-3 [H] 4.5Vp-p

IC201-4 [V] 5.0Vp-p

IC201-7 [10us/div] 0.2Vp-p

IC201-13 [H] 3.2Vp-p

IC201-15 [H] 3.2Vp-p

IC201-22 [V] 3.2Vp-p

IC201-23 [V] 3.2Vp-p

### -AV SWITCH PWB-

(SHEET5)

IC101-15 [H] 1.0Vp-p

IC101-41 [H] 2.0Vp-p

IC101-44 [H] 2.0Vp-p

IC101-49 [H] 2.0Vp-p

IC101-53 [H] 2.0Vp-p

IC101-56 [H] 1.7Vp-p

IC101-63 [H] 0.8Vp-p

### -DIST PWB-

(SHEET8)

IC001-34 [H] 1.0Vp-p

IC001-40 [H] 0.8Vp-p

IC001-42 [H] 0.8Vp-p

IC001-49 [H] 3.2Vp-p

IC001-55 [V] 3.2 Vp-p

IC001-78 [H] 3.4Vp-p

IC001-79 [V] 3.4Vp-p

IC003-30 [H] 3.2Vp-p

IC003-31 [V] 3.4Vp-p

IC003-43 [H] 0.7Vp-p

IC003-48 [H] 0.7Vp-p

IC003-54 [H] 0.7Vp-p

IC003-66 [H] 3.2Vp-p

IC003-67 [0.5us/div] 0.2Vp-p

(SHEET12)

IC701-1 [H] 0.9Vp-p

IC701-3 [H] 1.5Vp-p

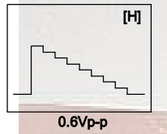
IC701-4 [V] 5.0Vp-p

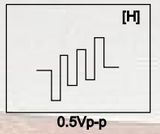
IC701-5 [H] 0.8Vp-p

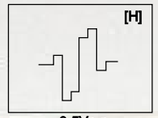
IC701-7 [H] 0.3Vp-p

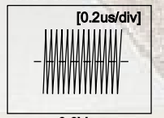
IC701-9 [H] 5.0Vp-p

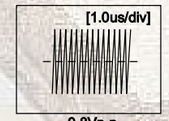
IC701-11 [H] 0.7Vp-p

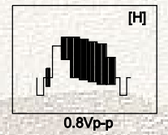
IC701-21 [H]

0.6Vp-p

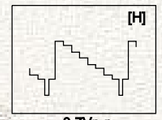
IC701-22 [H]

0.5Vp-p

IC701-23 [H]

0.5Vp-p

IC701-38 [0.2us/div]

0.3Vp-p

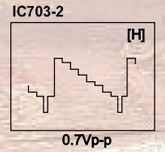
IC701-46 [1.0us/div]

0.8Vp-p

IC702-7 [H]

0.8Vp-p

IC702-25 [H]

0.7Vp-p

IC702-27 [H]

0.5Vp-p

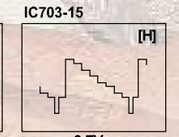
IC703-2 [H]

0.7Vp-p

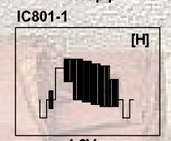
IC703-4 [H]

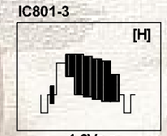
0.3Vp-p

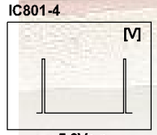
IC703-5 [H]

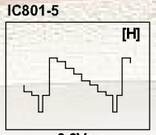
0.3Vp-p

IC703-15 [H]

0.7Vp-p

IC801-1 [H]

1.0Vp-p

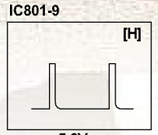
IC801-3 [H]

1.6Vp-p

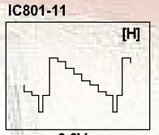
IC801-4 [V]

5.0Vp-p

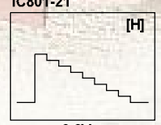
IC801-5 [H]

0.8Vp-p

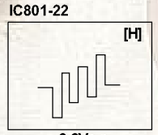
IC801-7 [H]

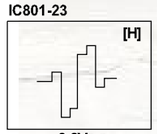
0.4Vp-p

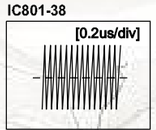
IC801-9 [H]

5.0Vp-p

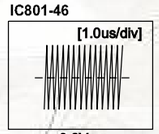
IC801-11 [H]

0.8Vp-p

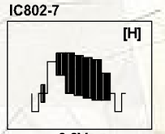
IC801-21 [H]

0.6Vp-p

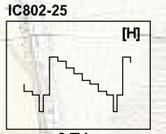
IC801-22 [H]

0.6Vp-p

IC801-23 [H]

0.6Vp-p

IC801-38 [0.2us/div]

0.3Vp-p

IC801-46 [1.0us/div]

0.8Vp-p

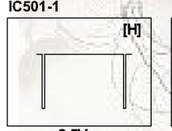
IC802-7 [H]

0.9Vp-p

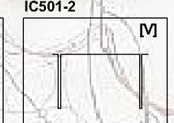
IC802-25 [H]

0.7Vp-p

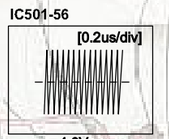
IC802-27 [H]

0.5Vp-p

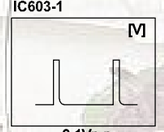
## (SHEET15)

IC501-1 [H]

2.5Vp-p

IC501-2 [V]

1.5Vp-p

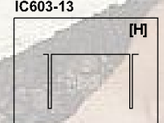
IC501-56 [0.2us/div]

4.0Vp-p

## (SHEET16)

IC603-1 [V]

0.1Vp-p

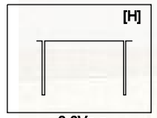
IC603-2 [V]

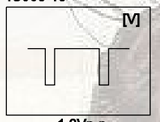
1.4Vp-p

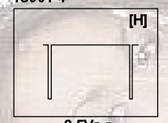
IC603-13 [H]

3.0Vp-p

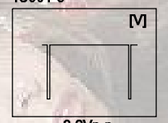
IC603-13 [H]

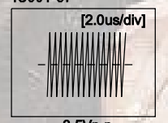
0.7Vp-p

IC603-14 [H]

3.0Vp-p

IC603-15 [V]

1.3Vp-p

IC901-4 [H]

3.5Vp-p

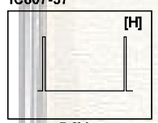
IC901-5 [V]

3.2Vp-p

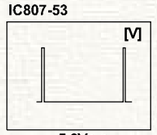
IC901-57 [2.0us/div]

3.5Vp-p

## [DISPLAY UNIT]

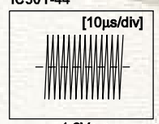
## -DISPLAY INTERFACE PWB-

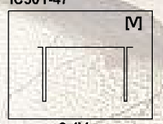
## (SHEET21)

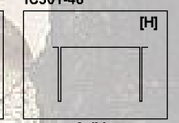
IC807-37 [H]

5.0Vp-p

IC807-53 [V]

5.0Vp-p

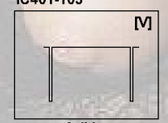
## (SHEET22)

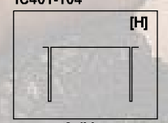
IC501-44 [10µs/div]

1.2Vp-p

IC501-47 [V]

3.4Vp-p

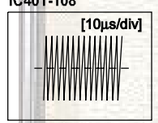
IC501-48 [H]

3.4Vp-p

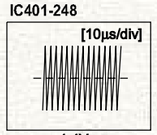
## (SHEET23)

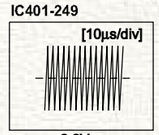
IC401-103 [V]

3.4Vp-p

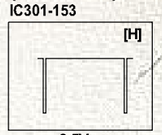
IC401-104 [H]

3.4Vp-p

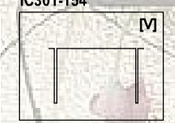
## (SHEET24)

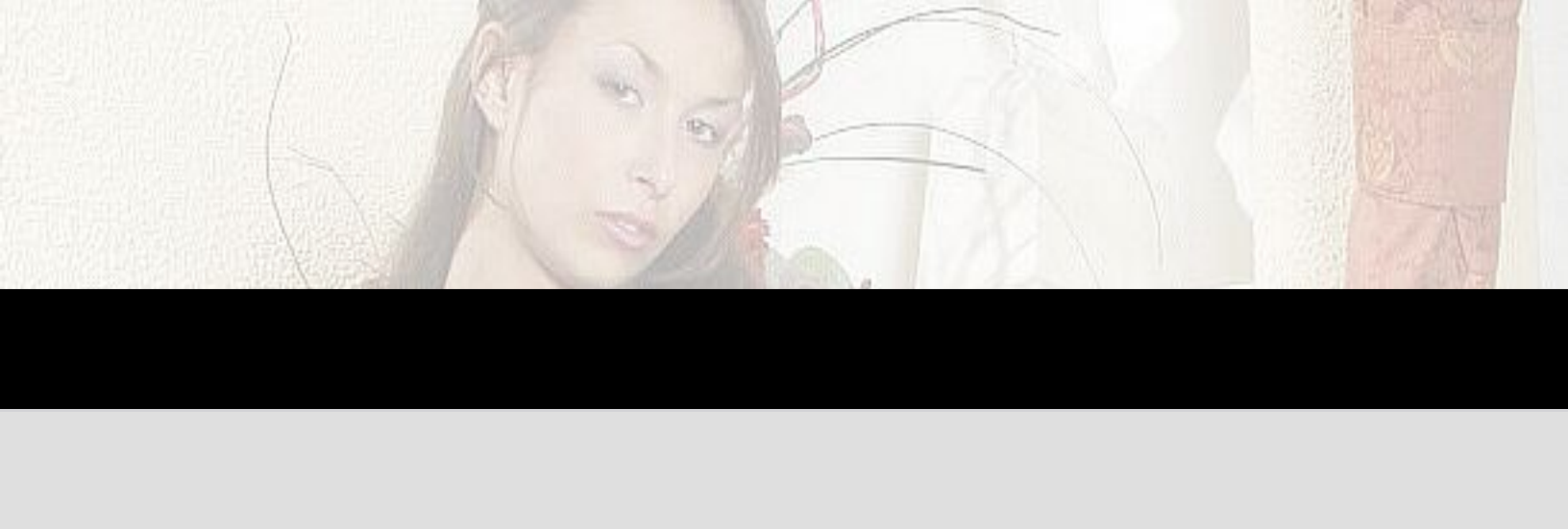
IC401-108 [10µs/div]

1.5Vp-p

IC401-248 [10µs/div]

1.4Vp-p

IC401-249 [10µs/div]

2.2Vp-p

IC301-153 [H]

3.5Vp-p

IC301-154 [V]

3.5Vp-p



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WPC

# PARTS LIST

## CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

| RESISTORS | |
|---|---|
| CR | Carbon Resistor |
| FR | Fusible Resistor |
| PR | Plate Resistor |
| VR | Variable Resistor |
| HV R | High Voltage Resistor |
| MF R | Metal Film Resistor |
| MG R | Metal Glazed Resistor |
| MP R | Metal Plate Resistor |
| OM R | Metal Oxide Film Resistor |
| CMF R | Coating Metal Film Resistor |
| UNF R | Non-Flammable Resistor |
| CH V R | Chip Variable Resistor |
| CH MG R | Chip Metal Glazed Resistor |
| COMP. R | Composition Resistor |
| LPTC R | Linear Positive Temperature Coefficient Resistor |

| CAPACITORS | |
|---|---|
| C CAP. | Ceramic Capacitor |
| E CAP. | Electrolytic Capacitor |
| M CAP. | Mylar Capacitor |
| CH CAP. | Chip Capacitor |
| HV CAP. | High Voltage Capacitor |
| MF CAP. | Metalized Film Capacitor |
| MM CAP. | Metalized Mylar Capacitor |
| MP CAP. | Metalized Polystyrol Capacitor |
| PP CAP. | Polypropylene Capacitor |
| PS CAP. | Polystyrol Capacitor |
| TF CAP. | Thin Film Capacitor |
| MPP CAP. | Metalized Polypropylene Capacitor |
| TAN. CAP. | Tantalum Capacitor |
| CH C CAP. | Chip Ceramic Capacitor |
| BP E CAP. | Bi-Polar Electrolytic Capacitor |
| CH AL E CAP. | Chip Aluminum Electrolytic Capacitor |
| CH AL BP CAP. | Chip Aluminum Bi-Polar Capacitor |
| CH TAN. E CAP. | Chip Tantalum Electrolytic Capacitor |
| CH AL BP E CAP. | Chip Tantalum Bi-Polar Electrolytic Capacitor |

| RESISTORS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| F | G | J | K | M | N | R | H | Z | P |
| ±1% | ±2% | ±5% | ±10% | ±20% | ±30% | +30%<br>-10% | +50%<br>-10% | +80%<br>-20% | +100%<br>-0% |

# CONTENTS


**[DISPLAY UNIT : VM-42V31BJE, VM-42V31BSE, VM-42V31BUE] ..... 3-3**
**USING P.W. BOARD & REMOTE CONTROL UNIT ..... 3-3**
**EXPLODED VIEW PARTS LIST - 1 ..... 3-4**
**EXPLODED VIEW - 1 ..... 3-5**
**EXPLODED VIEW PARTS LIST - 2 ..... 3-6**
**EXPLODED VIEW - 2 ..... 3-7**
**EXPLODED VIEW PARTS LIST - 3 ..... 3-8**
**EXPLODED VIEW - 3 ..... 3-8**
**PRINTED WIRING BOARD PARTS LIST ..... 3-9**
AUDIO PW BOARD ASS'Y (SMK-6067A-U2) ..... 3-9
DISPLAY INTERFACE PW BOARD ASS'Y (SMK-7368A-U2) ..... 3-10
TEMP. SENSOR PW BOARD ASS'Y (SMK-8381A-U2) ..... 3-12
LINE FILTER PW BOARD ASS'Y (SMK-9267A-U2) ..... 3-12
DISPLAY LED PW BOARD ASS'Y (SMK0L268A-U2) ..... 3-13
DISPLAY SWITCH PW BOARD ASS'Y (SMK0L367A-U2) ..... 3-13
VIDEO SMPS PW BOARD ASS'Y (LJ44-00050A) ..... 3-13
SMPS PW BOARD ASS'Y (LJ44-00053A) ..... 3-13
X-MAIN PW BOARD ASS'Y (LJ92-00758A) ..... 3-13
Y-MAIN PW BOARD ASS'Y (LJ92-00759A) ..... 3-13
E-BUFFER PW BOARD ASS'Y (LJ92-00777A) ..... 3-13
F-BUFFER PW BOARD ASS'Y (LJ92-00778A) ..... 3-13
G-BUFFER PW BOARD ASS'Y (LJ92-00779A) ..... 3-13
LOGIC-MAIN PW BOARD ASS'Y (LJ92-00791A) ..... 3-13
Y-BUFFER-U PW BOARD ASS'Y (LJ92-00796A) ..... 3-13
Y-BUFFER-L PW BOARD ASS'Y (LJ92-00797A) ..... 3-13
**REMOTE CONTROL UNIT PARTS LIST (RM-C1808-1C) ..... 3-13**
**[RECEIVER UNIT : TU-42V31BJE, TU-42V31BSE, TU-42V31BUE] ..... 3-14**
**USING P.W. BOARD ..... 3-14**
**EXPLODED VIEW PARTS LIST - 1 ..... 3-14**
**EXPLODED VIEW - 1 ..... 3-15**
**PRINTED WIRING BOARD PARTS LIST ..... 3-16**
MAIN PW BOARD ASS'Y (SMK-1303A-U2) ..... 3-16
FRONT CONTROL PW BOARD ASS'Y (SMK-8302A-U2) ..... 3-17
RECEIVER POWER PW BOARD ASS'Y (SMK-9302A-U2) ..... 3-18
MI-COM PW BOARD ASS'Y (SMK0M302A-U2) ..... 3-18
MI-COM INTERFACE PW BOARD ASS'Y (SMK0M312A-U2) ..... 3-20
AV JACK PW BOARD ASS'Y (SMK0J303A-U2) ..... 3-20
AV SWITCH PW BOARD ASS'Y (SMK0S303A-U2) ..... 3-20
DIST PW BOARD ASS'Y (SMK0Z305A-U2) ..... 3-22
DIST RELAY PW BOARD ASS'Y (SMK0Z312A-U2) ..... 3-30
**PACKING PARTS LIST ..... 3-31**
**PACKING ..... 3-32**

# [DISPLAY UNIT : VM-42V31BJE, VM-42V31BSE, VM-42V31BUE]

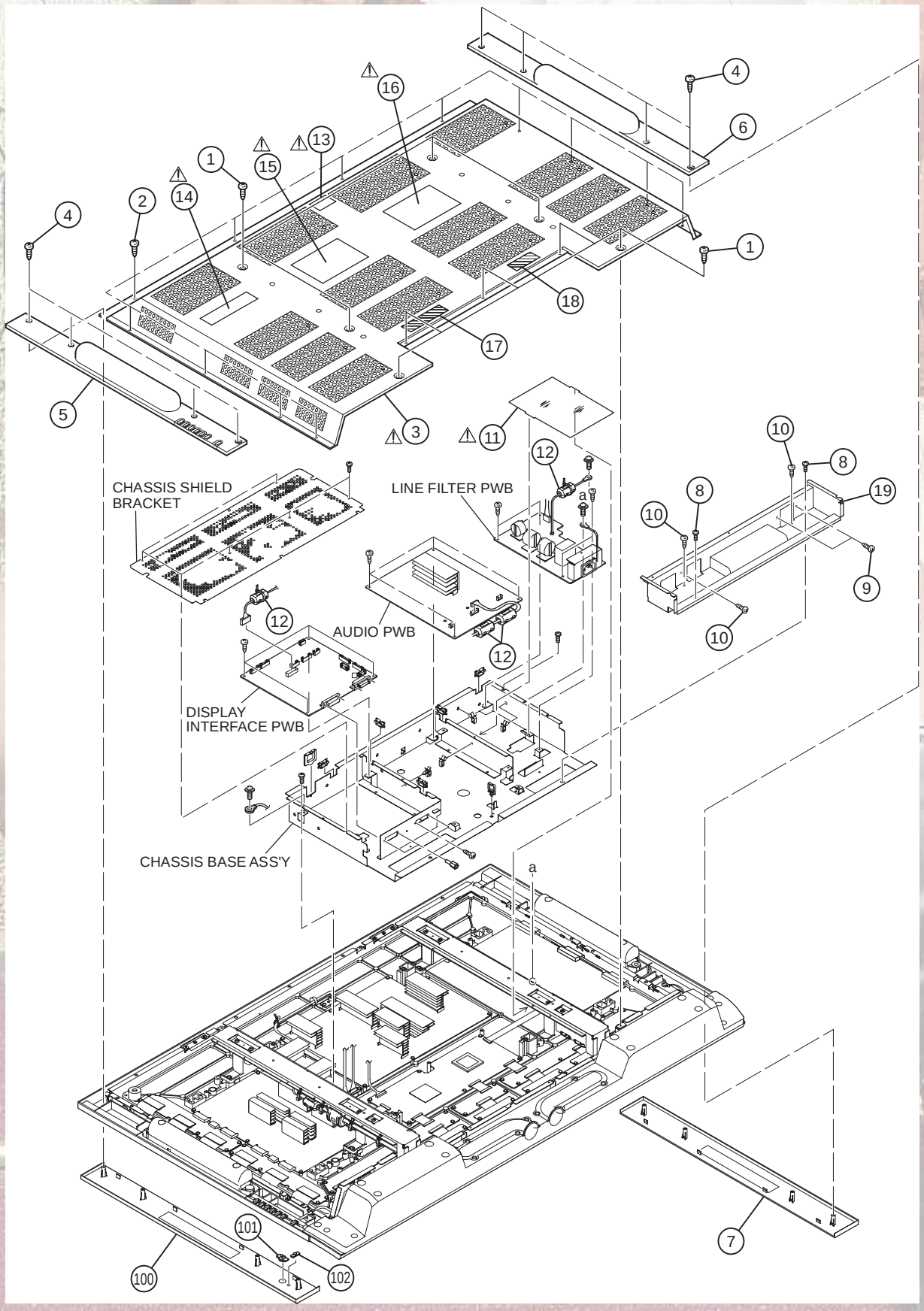
## USING P.W. BOARD & REMOTE CONTROL UNIT

| P.W.B ASS'Y | VM-42V31BJE | VM-42V31BSE | VM-42V31BUE |
|---|---|---|---|
| AUDIO P.W.B | SMK-6067A-U2 | ← | ← |
| DISPLAY INTERFACE P.W.B | SMK-7368A-U2 | ← | ← |
| TEMP. SENSOR P.W.B | SMK-8381A-U2 | ← | ← |
| LINE FILTER P.W.B | SMK-9267A-U2 | ← | ← |
| DISPLAY LED P.W.B | SMK0L268A-U2 | ← | ← |
| DISPLAY SWITCH P.W.B | SMK0L367A-U2 | ← | ← |
| REMOTE CONTROL UNIT | RM-C1808-1C | ← | ← |
| PDP UNIT | | | |
| VIDEO SMPS P.W.B | LJ44-00050A | ← | ← |
| SMPS P.W.B | LJ44-00053A | ← | ← |
| X-MAIN P.W.B | LJ92-00758A | ← | ← |
| Y-MAIN P.W.B | LJ92-00759A | ← | ← |
| E-BUFFER P.W.B | LJ92-00777A | ← | ← |
| F-BUFFER P.W.B | LJ92-00778A | ← | ← |
| G-BUFFER P.W.B | LJ92-00779A | ← | ← |
| LOGIC-MAIN P.W.B | LJ92-00791A | ← | ← |
| Y-BUFFER-U P.W.B | LJ92-00796A | ← | ← |
| Y-BUFFER-L P.W.B | LJ92-00797A | ← | ← |

# EXPLODED VIEW PARTS LIST - 1

| ⚠ | Ref.No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|---|
| | 1 | LC41647-001B | SCREW | (x9) | |
| | 2 | QYSBSFG4016M | TAP SCREW | 4.0mm x 16mm(x12) | |
| ⚠ | 3 | LC11659-001B-0K | REAR COVER | | |
| | 4 | QYSBSFG4012N | TAP SCREW | M4 x 12mm(x8) | |
| | 5 | LC11668-001B-0K | BACK COVER(R) | | |
| | 6 | LC11668-002B-0K | BACK COVER(L) | | |
| | 7 | LC21375-002B-0K | SP HOLDER (R) | | |
| | 8 | LC41647-001B | SCREW | (x2) | |
| | 9 | QYSDSG3012M | TAP SCREW | M3 x 12mm(x2) | |
| | 10 | QYSBSG3008M | TAP SCREW | 3mm x 8mm(x3) | |
| ⚠ | 11 | LC32472-001A | LF INSULATOR | | |
| ⚠ | 12 | QQR0491-001 | FERRITE CORE | (GRAY)(x4) | |
| ⚠ | 13 | LC41693-001A | CAUTION LABEL | | |
| ⚠ | 14 | LC30789-002B-U | WARNING LABEL | | |
| ⚠ | 15 | LC21301-008A-U | RATING LABEL | | VM-42V31BJE |
| ⚠ | 15 | LC21301-009A-U | RATING LABEL | | VM-42V31BSE |
| ⚠ | 15 | LC21301-007A-U | RATING LABEL | | VM-42V31BUE |
| ⚠ | 16 | LC21300-007A-U | RATING LABEL | | VM-42V31BJE,VM-42V31BUE |
| ⚠ | 16 | LC21300-008A-U | RATING LABEL | | VM-42V31BSE |
| | 17 | LC41610-002A | TERMINAL LABEL | | |
| | 18 | LC41694-001A | INLET LABEL | | |
| | 19 | LC11675-001C-0K | TARMINAL COVER ASS'Y | | |
| | 100 | LC32453-002B-0K | SP HOLDER (L) ASS'Y | Inc.101,102 | |
| | 101 | LC32408-001A | REMOCON WINDOW | | |
| | 102 | LC41631-001A | LED LENS | | |

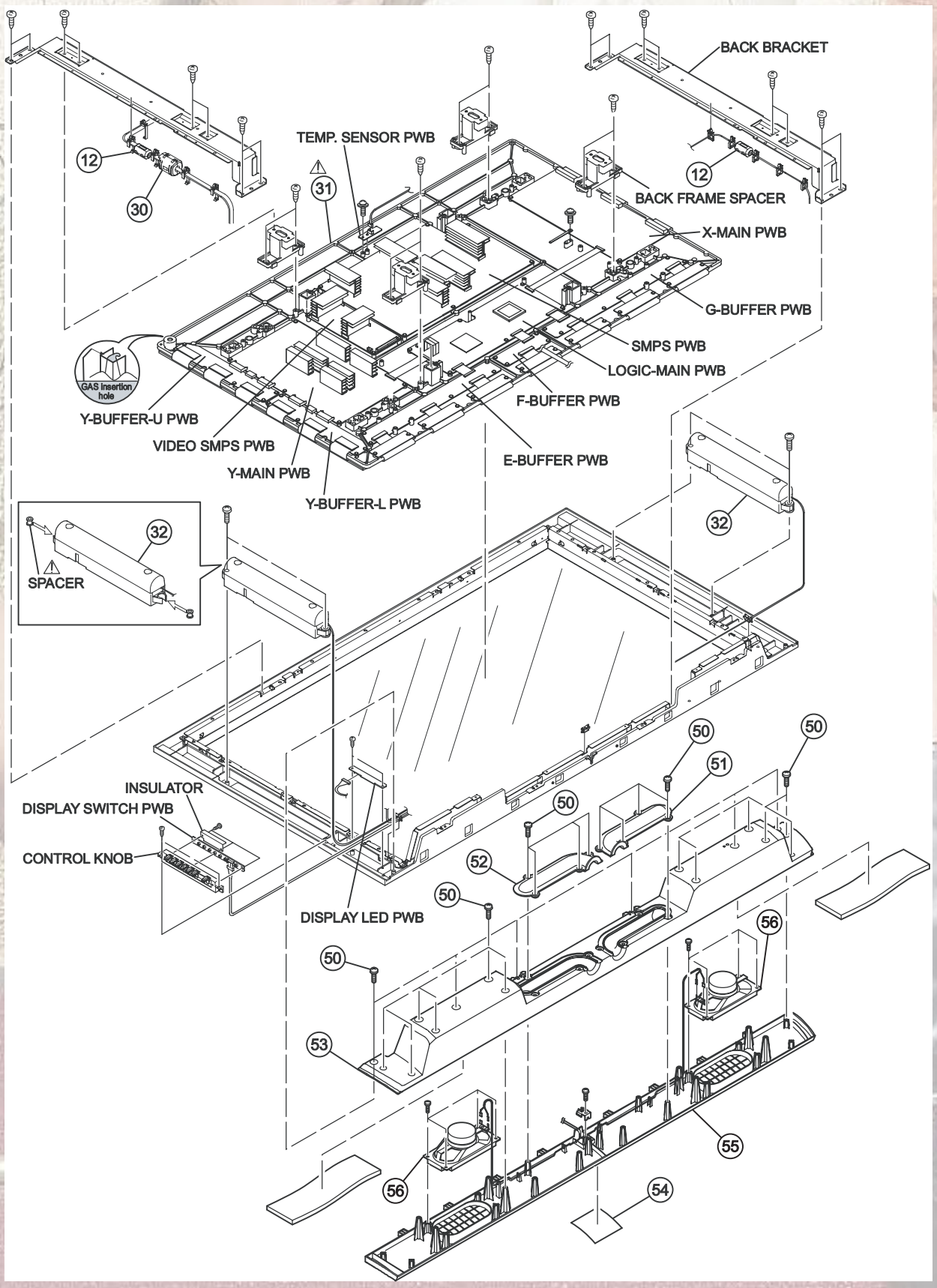
# EXPLODED VIEW - 1



# EXPLODED VIEW PARTS LIST - 2

| ⚠ | Ref.No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|---|
| ⚠ | 12 | QQR0491-001 | FERRITE CORE | (GRAY)(x2) | |
| ⚠ | 30 | QQR1193-001 | CORE FILTER | | |
| ⚠ | 31 | QLE0023-002 | PDP UNIT | Inc.PWB in PDP UNIT | |
| | 32 | LC41684-001A | DD SPEAKER ASS'Y | (x2) | |
| | 50 | QYSBSFG4016M | TAP SCREW | 4.0mm x 16mm(x26) | |
| | 51 | LC21377-001B-0K | DUCT COVER (L) | | |
| | 52 | LC21377-002B-0K | DUCT COVER (R) | | |
| | 53 | LC11667-001B-0K | WFR BACK COVER | | |
| | 54 | LC32433-001A | JVC PLATE | | |
| | 55 | LC21425-001B-0K | W SP HOLDER ASS'Y | | |
| | 56 | QAS0154-001 | SPEAKER | (x2) | |

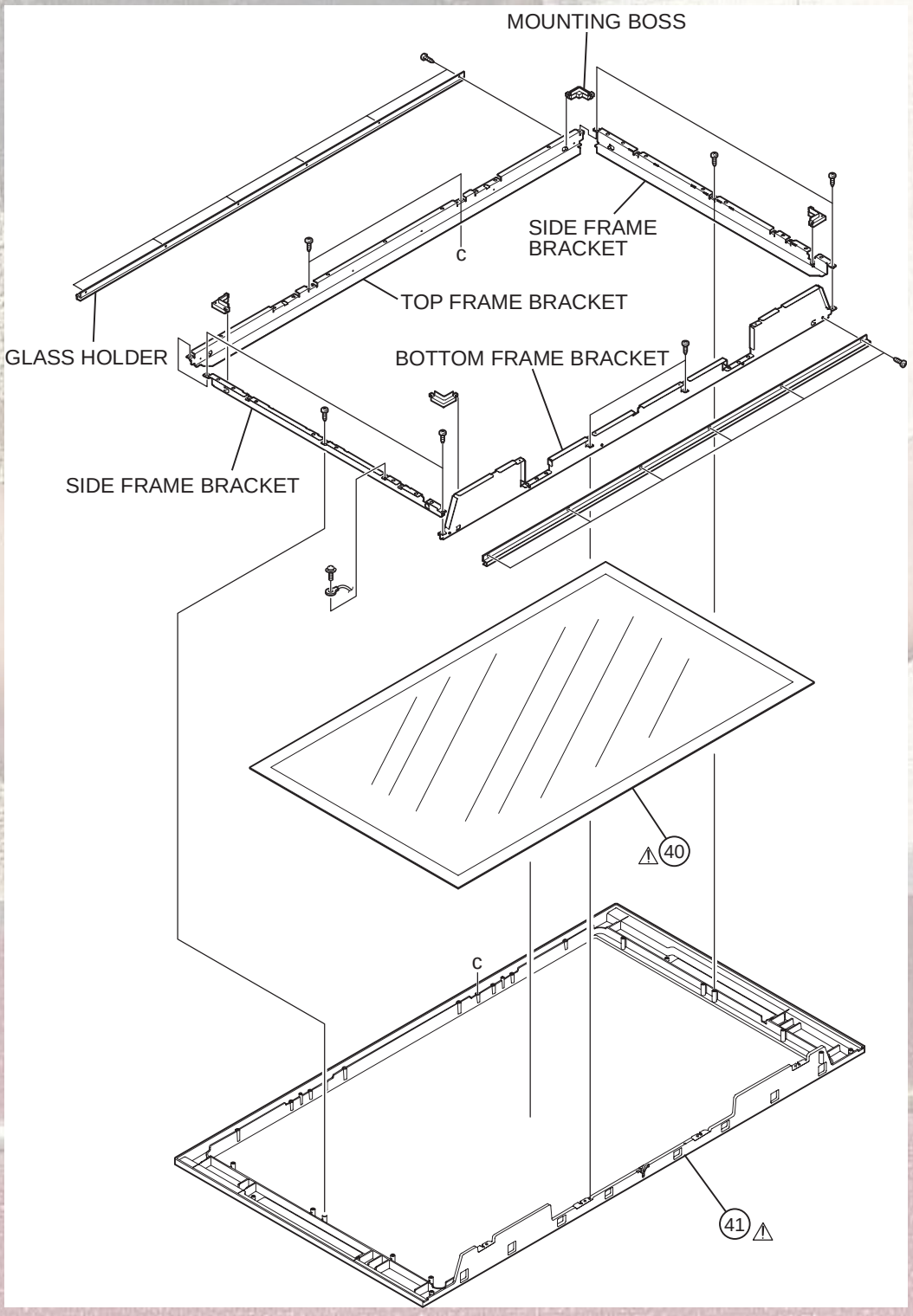
# EXPLODED VIEW - 2



# EXPLODED VIEW PARTS LIST - 3

| ⚠ | Ref.No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|---|
| ⚠ | 40 | LC32436-001A-0K | FRONT FILTER | | |
| ⚠ | 41 | LC11660-002B-0K | FRONT PANEL | | |

# EXPLODED VIEW - 3



# PRINTED WIRING BOARD PARTS LIST

## AUDIO PW BOARD ASS'Y (SMK-6067A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC6501 | RC4558D-X | IC | or BA4558F-X | |
| IC6521 | NJW1137M-W | IC | | |
| IC6551 | RC4558D-X | IC | or BA4558F-X | |
| IC6552 | RC4558D-X | IC | or BA4558F-X | |
| IC6571 | RC4558D-X | IC | or BA4558F-X | |
| IC6572 | RC4558D-X | IC | or BA4558F-X | |
| IC6621 | TA8270HA | IC | | |
| Q6521 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q6522 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q6523 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q6531 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q6532 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q6533 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q6534 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q6535 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q6536 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q6641 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q6642 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q6643 | 2SC3928A/QR/-X | TRANSISTOR | | |
| D6501 | MA111-X | SI DIODE | | |
| D6502 | MA111-X | SI DIODE | | |
| D6503 | MA111-X | SI DIODE | | |
| D6504 | MA111-X | SI DIODE | | |
| D6505 | MA111-X | SI DIODE | | |
| D6506 | MA111-X | SI DIODE | | |
| D6551 | MA8062/M/-X | Z DIODE | | |
| D6621 | MA8330/M/-X | Z DIODE | | |
| D6622 | MA8330/M/-X | Z DIODE | | |
| D6623 | MA8330/M/-X | Z DIODE | | |
| D6624 | MA8330/M/-X | Z DIODE | | |
| D6625 | MA8330/M/-X | Z DIODE | | |
| D6626 | MA8330/M/-X | Z DIODE | | |
| D6627 | MA8330/M/-X | Z DIODE | | |
| D6628 | MA8330/M/-X | Z DIODE | | |
| D6629 | D1FS4-X | SB DIODE | | |
| D6630 | D1FS4-X | SB DIODE | | |
| D6631 | D1FS4-X | SB DIODE | | |
| D6632 | D1FS4-X | SB DIODE | | |
| D6641 | MA111-X | SI DIODE | | |
| D6642 | MA111-X | SI DIODE | | |
| D6643 | MA111-X | SI DIODE | | |
| C6501 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C6502 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C6503 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C6504 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C6505 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6506 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C6507 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C6508 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C6509 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C6510 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6511 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| C6512 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| C6517 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C6518 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C6519 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C6521 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6522 | NCB31HK-332X | C CAPACITOR | 3300pF 50V K | |
| C6523 | NCB31HK-333X | C CAPACITOR | 0.033uF 50V K | |
| C6525 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C6526 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6527 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6528 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6529 | NCB31HK-332X | C CAPACITOR | 3300pF 50V K | |
| C6530 | NCB31HK-333X | C CAPACITOR | 0.033uF 50V K | |
| C6532 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C6533 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6534 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6535 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C6536 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6537 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6538 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6539 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6540 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6541 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6542 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6543 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| C6544 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C6545 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C6546 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C6551 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C6552 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C6553 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6554 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6555 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6556 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6557 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| C6558 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| C6559 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C6561 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C6562 | QETN1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C6563 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6564 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6565 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6566 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6567 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | |
| C6568 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | |
| C6569 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | |
| C6570 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | |
| C6571 | QENC1HM-105Z | BP E CAPACITOR | 1uF 50V M | |
| C6572 | QENC1HM-105Z | BP E CAPACITOR | 1uF 50V M | |
| C6573 | NCB31HK-473X | C CAPACITOR | 0.047uF 50V K | |
| C6574 | NCB31HJ-103X | C CAPACITOR | 0.01uF 50V J | |
| C6575 | QETN1HM-226Z | E CAPACITOR | 22uF 50V M | |
| C6576 | QETN1HM-226Z | E CAPACITOR | 22uF 50V M | |
| C6577 | NCB31HK-473X | C CAPACITOR | 0.047uF 50V K | |
| C6578 | NCB31HJ-103X | C CAPACITOR | 0.01uF 50V J | |
| C6581 | NCB21EK-124X | C CAPACITOR | 0.12uF 25V K | |
| C6582 | NCB21EK-124X | C CAPACITOR | 0.12uF 25V K | |
| C6583 | NCB21EK-124X | C CAPACITOR | 0.12uF 25V K | |
| C6584 | NCB21EK-124X | C CAPACITOR | 0.12uF 25V K | |
| C6585 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C6586 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C6587 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| C6588 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| C6601 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C6602 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C6603 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C6604 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C6621 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | |
| C6622 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | |
| C6623 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | |
| C6624 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | |
| C6625 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C6626 | QETN1EM-107Z | E CAPACITOR | 100uF 25V M | |
| C6627 | QETM1EM-228 | E CAPACITOR | 2200uF 25V M | |
| C6628 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C6629 | QFV21HJ-124Z | MF CAPACITOR | 0.12uF 50V J | |
| C6630 | QFV21HJ-124Z | MF CAPACITOR | 0.12uF 50V J | |
| C6631 | QFV21HJ-124Z | MF CAPACITOR | 0.12uF 50V J | |
| C6632 | QFV21HJ-124Z | MF CAPACITOR | 0.12uF 50V J | |
| C6633 | QFV21HJ-124Z | MF CAPACITOR | 0.12uF 50V J | |
| C6634 | QFV21HJ-124Z | MF CAPACITOR | 0.12uF 50V J | |
| C6635 | QFV21HJ-124Z | MF CAPACITOR | 0.12uF 50V J | |
| C6636 | QFV21HJ-124Z | MF CAPACITOR | 0.12uF 50V J | |
| C6641 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C6642 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| C6643 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C6651 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C6681 | QETM1CM-478 | E CAPACITOR | 4700uF 16V M | |
| C6682 | QETM1CM-478 | E CAPACITOR | 4700uF 16V M | |
| C6683 | QETM1CM-478 | E CAPACITOR | 4700uF 16V M | |
| C6684 | QETM1CM-478 | E CAPACITOR | 4700uF 16V M | |
| R6421 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6501 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J | |
| R6502 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J | |
| R6503 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R6504 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R6505 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6506 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6507 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J | |
| R6508 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J | |
| R6509 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R6510 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R6511 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6512 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6513 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6514 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6515 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6519 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6521 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6522 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R6523 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R6524 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6525 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6526 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R6527 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6528 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6529 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R6530 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6531 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6532 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R6533 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6534 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6535 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6536 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R6537 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R6538 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R6539 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R6540 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6541 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6542 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6543 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6544 | NRSA63J-184X | MG RESISTOR | 180kΩ 1/16W J | |
| R6545 | NRSA63J-184X | MG RESISTOR | 180kΩ 1/16W J | |
| R6546 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R6547 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R6551 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R6552 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6553 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R6554 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R6555 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6556 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R6557 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | |
| R6558 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R6559 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | |
| R6560 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R6561 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6562 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6563 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J | |
| R6564 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6565 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R6566 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6567 | NRSA63J-124X | MG RESISTOR | 120kΩ 1/16W J | |
| R6568 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6569 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R6571 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R6572 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R6573 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R6574 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R6575 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R6576 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R6577 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J | |
| R6578 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R6579 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J | |
| R6580 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R6581 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J | |
| R6582 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J | |
| R6583 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| R6584 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| R6585 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J | |
| R6586 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R6587 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J | |
| R6588 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R6591 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R6595 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6596 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6601 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| R6602 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R6603 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6604 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R6605 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| R6606 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R6607 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6608 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R6609 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| R6610 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R6611 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6612 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R6613 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| R6614 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R6615 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6616 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| ⚠R6621 | QRJ146J-2R2X | UNF C RESISTOR | 2.2Ω 1/4W J | |
| ⚠R6622 | QRJ146J-2R2X | UNF C RESISTOR | 2.2Ω 1/4W J | |
| ⚠R6623 | QRJ146J-2R2X | UNF C RESISTOR | 2.2Ω 1/4W J | |
| ⚠R6624 | QRJ146J-2R2X | UNF C RESISTOR | 2.2Ω 1/4W J | |
| ⚠R6625 | QRJ146J-2R2X | UNF C RESISTOR | 2.2Ω 1/4W J | |
| ⚠R6626 | QRJ146J-2R2X | UNF C RESISTOR | 2.2Ω 1/4W J | |
| ⚠R6627 | QRJ146J-2R2X | UNF C RESISTOR | 2.2Ω 1/4W J | |
| ⚠R6628 | QRJ146J-2R2X | UNF C RESISTOR | 2.2Ω 1/4W J | |
| R6641 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J | |
| R6642 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J | |
| R6643 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R6644 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R6645 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R6646 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J | |
| R6647 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6648 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6649 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R6653 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6654 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R6661 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R6671 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R6672 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6673 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R6674 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R6681 | QRK126J-102X | UNF C RESISTOR | 1kΩ 1/2W J | |
| R6682 | QRK126J-102X | UNF C RESISTOR | 1kΩ 1/2W J | |
| R6683 | QRK126J-102X | UNF C RESISTOR | 1kΩ 1/2W J | |
| R6684 | QRK126J-102X | UNF C RESISTOR | 1kΩ 1/2W J | |
| R6689 | QRL039J-221 | OMF RESISTOR | 220Ω 3W J | |
| R6690 | QRL039J-221 | OMF RESISTOR | 220Ω 3W J | |
| TH6671 | QAD0125-471 | P THERMISTOR | 110°C 470Ω 16V | |

## DISPLAY INTERFACE PW BOARD ASS'Y (SMK-7368A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC101 | PQ1CY1032Z-W | IC | | |
| IC102 | BA12FP-X | IC | | |
| IC103 | BA05FP-X | IC | | |
| IC301 | MN82860 | IC | 208pin | |
| IC401 | JCC5056A | IC | 256pin | |
| IC405 | R1170H251B-X | IC | | |
| IC501 | SII169CT100 | IC | 100pin | |
| IC502 | S-80828CLNB-W | IC | | |
| IC601 | DS90CF383AMTD-X | IC | or THC63LVDM83R-W | |
| IC603 | SN74LVC1G08V-X | IC | | |
| IC801 | BA033FP-X | IC | | |
| IC802 | BA05FP-X | IC | | |
| IC803 | ICL3221CA-X | IC | | |
| IC804 | CD74HC4053PW-X | IC | | |
| IC805 | AT24C1642V31BUE | IC | (SERVICE) | |
| IC807 | HD64F3687H | IC(MCU) | | |
| IC808 | TC74VHCT541AFTX | IC | | |
| IC809 | S-80840CLNB-W | IC | | |
| Q101 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q703 | 2SK2090-X | MOS FET | | |
| Q704 | 2SK2090-X | MOS FET | | |
| Q801 | 2SK2090-X | MOS FET | | |
| Q802 | 2SK2090-X | MOS FET | | |
| Q803 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q804 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q805 | 2SK2090-X | MOS FET | | |
| Q806 | 2SK2090-X | MOS FET | | |
| Q807 | 2SA1530A/QR/-X | TRANSISTOR | | |
| D101 | EC30HA03L-X | SB DIODE | | |
| D102 | PTZ6.8B-X | Z DIODE | | |
| D501 | BAV99L-X | SI DIODE | | |
| D502 | BAV99L-X | SI DIODE | | |
| D503 | BAV99L-X | SI DIODE | | |
| D504 | BAV99L-X | SI DIODE | | |
| D505 | BAV99L-X | SI DIODE | | |
| D506 | BAV99L-X | SI DIODE | | |
| D507 | BAV99L-X | SI DIODE | | |
| D508 | BAV99L-X | SI DIODE | | |
| D509 | BAV99L-X | SI DIODE | | |
| D510 | BAV99L-X | SI DIODE | | |
| D611 | MA8056/M/-X | Z DIODE | | |
| D803 | MA111-X | SI DIODE | | |
| D804 | MA8056/M/-X | Z DIODE | | |
| D901 | 1SS355-X | SI DIODE | | |
| D902 | 1SS355-X | SI DIODE | | |
| C103 | QETM1EM-477 | E CAPACITOR | 470uF 25V M | |
| C104 | NCB11EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C105 | QETM0JM-108 | E CAPACITOR | 1000uF 6.3V M | |
| C108 | NEH71EM-336X | E CAPACITOR | 33uF 25V M | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C109 | NEH71EM-336X | E CAPACITOR | 33uF 25V M | |
| C112 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C113 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C114 | NEH71AM-107X | E CAPACITOR | 100uF 10V M | |
| C117 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C301 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C302 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C303 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C304 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C305 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C306 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C307 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C308 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C309 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C310 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C311 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C312 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C313 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C314 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C315 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C316 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C317 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C318 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C319 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C320 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C321 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C322 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C323 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C324 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C325 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C326 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C327 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C328 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C329 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C330 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C331 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C332 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C333 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C334 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C401 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C402 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C403 | NBE71CM-476X | TA E CAPACITOR | 47uF 16V M | |
| C404 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C405 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C406 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C407 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C408 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C409 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C410 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C411 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C412 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C413 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C414 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C415 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C416 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C417 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C418 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C419 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C420 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C421 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C501 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C502 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C503 | NEH70JM-226X | E CAPACITOR | 22uF 6.3V M | |
| C504 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C505 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C506 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C507 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C508 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C509 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C510 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C511 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C512 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C513 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C514 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C515 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C516 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C517 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C601 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C602 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C603 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C604 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C610 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C611 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C612 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C614 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C802 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C803 | NEH70JM-226X | E CAPACITOR | 22uF 6.3V M | |
| C804 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C805 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C806 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C807 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C809 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C810 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C811 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C812 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C813 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C814 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C815 | NEH70JM-226X | E CAPACITOR | 22uF 6.3V M | |
| C816 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C817 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C818 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C819 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C820 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C821 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C823 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C824 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C825 | NDC31HJ-220X | C CAPACITOR | 22pF 50V J | |
| C826 | NDC31HJ-220X | C CAPACITOR | 22pF 50V J | |
| C828 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C829 | NEH70JM-226X | E CAPACITOR | 22uF 6.3V M | |
| C832 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| R101 | NRSA63D-182X | MG RESISTOR | 1.8kΩ 1/16W D | |
| R102 | NRSA63D-122X | MG RESISTOR | 1.2kΩ 1/16W D | |
| R103 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R104 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R105 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R106 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R301 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R302 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R303 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R306 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R307 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R309 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R311 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R312 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R313 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R314 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R315 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R316 | NRSA63J-564X | MG RESISTOR | 560kΩ 1/16W J | |
| R317 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J | |
| R318 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R319 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R320 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J | |
| R321 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R323 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R324 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R325 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R327 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R330 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R331 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R401 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R402 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R403 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R404 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R405 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R406 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R407 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R408 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R409 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R410 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R412 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R413 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R414 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R415 | NRZ0040-103X | NET RESISTOR | 10kΩ 1/16W J x4 | |
| R416 | NRZ0040-103X | NET RESISTOR | 10kΩ 1/16W J x4 | |
| R417 | NRZ0040-103X | NET RESISTOR | 10kΩ 1/16W J x4 | |
| R418 | NRZ0040-103X | NET RESISTOR | 10kΩ 1/16W J x4 | |
| R419 | NRZ0040-103X | NET RESISTOR | 10kΩ 1/16W J x4 | |
| R420 | NRZ0040-103X | NET RESISTOR | 10kΩ 1/16W J x4 | |
| R421 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R422 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R423 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R424 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R425 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R426 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R427 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R428 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R441 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R501 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R502 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R505 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R506 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R507 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R510 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R511 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R512 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R513 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R514 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R515 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R516 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R517 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R525 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R526 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R528 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R531 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R532 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R533 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R602 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R603 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R618 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R619 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R621 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R626 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R628 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R801 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R802 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R803 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R804 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R805 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R806 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R807 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R808 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R809 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R810 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R811 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R812 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R813 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R814 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R815 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R816 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R817 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R818 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R821 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R822 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R824 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R828 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R829 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R830 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R831 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R833 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R837 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R838 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R839 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R842 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R843 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R844 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R845 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R846 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R847 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R848 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R849 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R850 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R851 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R852 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R853 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R854 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R855 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R856 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R857 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R858 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R859 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R861 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R864 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R865 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R866 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R867 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R868 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R870 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R871 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R872 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R873 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R875 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R876 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R877 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R878 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R879 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R880 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R881 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R882 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R883 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R884 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R885 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R886 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R887 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R890 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R891 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R892 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R893 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R894 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R895 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R896 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R897 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R898 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R899 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R900 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R903 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R904 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R906 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R908 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R911 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R912 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R914 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R915 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R917 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R918 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R919 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R920 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R921 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R927 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R933 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R934 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R940 | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J | |
| R943 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RA601 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA602 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA603 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA604 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA605 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA606 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| L101 | NQL63EM-680X | COIL | 68uH M | |
| L301 | NQR0351-001X | FERRITE BEADS | | |
| L302 | NQR0351-001X | FERRITE BEADS | | |
| L401 | NQR0351-001X | FERRITE BEADS | | |
| L402 | NQR0351-001X | FERRITE BEADS | | |
| L501 | NQR0351-001X | FERRITE BEADS | | |
| L601 | NQR0351-001X | FERRITE BEADS | | |
| L801 | NQR0351-001X | FERRITE BEADS | | |
| L802 | NQR0351-001X | FERRITE BEADS | | |
| K301 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| K801 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| K803 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| K804 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| X801 | QAX0534-001 | C RESONATOR | 16.000MHz | |
| Y101 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y102 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y801 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |

## TEMP. SENSOR PW BOARD ASS'Y (SMK-8381A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC8101 | TCN75-5.0MOA-X | IC | | |
| C8101 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| R8101 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R8102 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R8103 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |

## LINE FILTER PW BOARD ASS'Y (SMK-9267A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠C9901 | QFZ9075-225 | MPP CAPACITOR | 2.2uF AC275V M | |
| ⚠C9904 | QFZ9075-224 | MPP CAPACITOR | 0.22uF AC275V M | |
| ⚠C9912 | QCZ9079-681 | C CAPACITOR | 680pF AC250V K | |
| ⚠C9913 | QCZ9079-681 | C CAPACITOR | 680pF AC250V K | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R9902 | QRZ9046-105Z | C RESISTOR | 1MΩ 1/2W K | |
| ⚠F9901 | QMFZ041-100-J1 | FUSE | 10A 250V | |
| FC9901 | A49593 | CONNECTOR CLIP | | |
| FC9902 | A49593 | CONNECTOR CLIP | | |
| J9901 | QNC0099-001 | AC INLET(NOISE) | POWER CONNECTOR | |
| ⚠LF9901 | QQR1281-002 | LINE FILTER | | |
| ⚠LF9902 | QQR1281-002 | LINE FILTER | | |
| ⚠VA9901 | ERZV10V621CS | ZNR | | |
| | LC32345-001B | AC INLET SKT | | |

## DISPLAY LED PW BOARD ASS'Y (SMK0L268A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC1742 | GP1UA261XK | IR DETECT UNIT | 38kHz | |
| Q1741 | UN2212-X | DIGI TRANSISTOR | | |
| Q1742 | UN2212-X | DIGI TRANSISTOR | | |
| D1743 | SPR-39MVWF | LED | POWER | |
| C1742 | QER61CM-476Z | E CAPACITOR | 47uF 16V M | |
| R1741 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R1742 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R1743 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R1744 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R1748 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R1754 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R1757 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| | LC40656-002A | LED SPACER | | |

## DISPLAY SWITCH PW BOARD ASS'Y (SMK0L367A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R2701 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R2702 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R2703 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R2704 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| S2701 | QSW0619-003Z | TACT SWITCH | VOL+ | |
| S2702 | QSW0619-003Z | TACT SWITCH | CH- | |
| S2703 | QSW0619-003Z | TACT SWITCH | SIZE | |
| S2704 | QSW0619-003Z | TACT SWITCH | INPUT | |
| S2705 | QSW0619-003Z | TACT SWITCH | CH+ | |
| S2706 | QSW0619-003Z | TACT SWITCH | VOL- | |
| S2707 | QSW0619-003Z | TACT SWITCH | POWER | |

## VIDEO SMPS PW BOARD ASS'Y (LJ44-00050A)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠ | LJ44-00050A | VIDEO SMPS PWB | | |

## SMPS PW BOARD ASS'Y (LJ44-00053A)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠ | LJ44-00053A | SMPS PWB | | |

## X-MAIN PW BOARD ASS'Y (LJ92-00758A)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠ | LJ92-00758A | X-MAIN PWB | | |

## Y-MAIN PW BOARD ASS'Y (LJ92-00759A)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠ | LJ92-00759A | X-MAIN PWB | | |

## E-BUFFER PW BOARD ASS'Y (LJ92-00777A)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠ | LJ92-00777A | E-BUFFER PWB | | |

## F-BUFFER PW BOARD ASS'Y (LJ92-00778A)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠ | LJ92-00778A | F-BUFFER PWB | | |

## G-BUFFER PW BOARD ASS'Y (LJ92-00779A)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠ | LJ92-00779A | G-BUFFER PWB | | |

## LOGIC-MAIN PW BOARD ASS'Y (LJ92-00791A)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠ | LJ92-00791A | LOGIC-MAIN PWB | | |

## Y-BUFFER-U PW BOARD ASS'Y (LJ92-00796A)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠ | LJ29-00796A | Y-BUFFER-U PWB | | |

## Y-BUFFER-L PW BOARD ASS'Y (LJ92-00797A)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠ | LJ92-00797A | Y-BUFFER-L PWB | | |

# REMOTE CONTROL UNIT PARTS LIST (RM-C1808-1C)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| | 2AA070311 | BATTERY COVER | | |

# [RECEIVER UNIT : TU-42V31BJE, TU-42V31BSE, TU-42V31BUE]

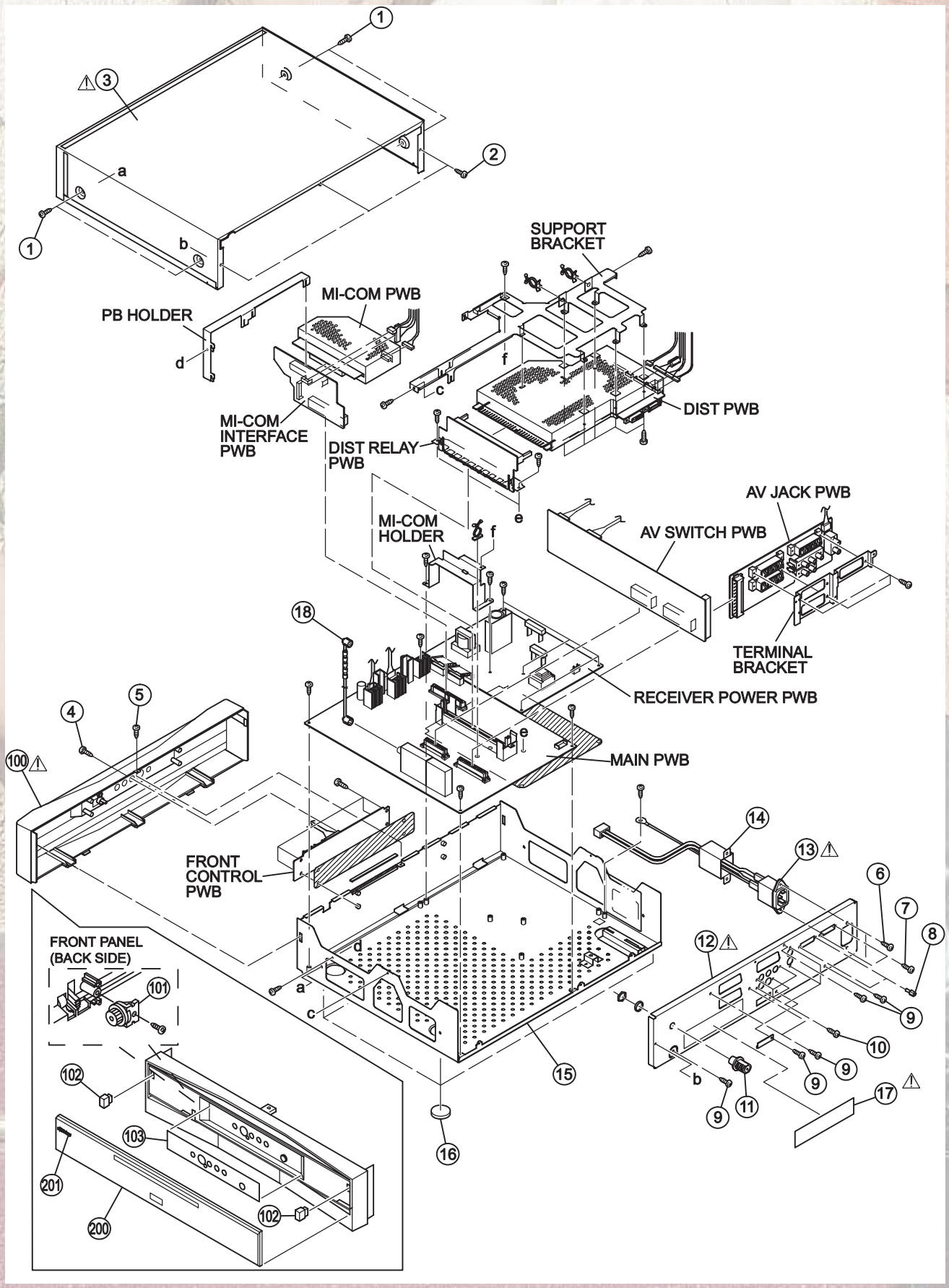
## USING P.W. BOARD

| P.W.B ASS'Y | TU-42V31BJE | TU-42V31BSE | TU-42V31BUE |
|---|---|---|---|
| MAIN P.W.B | SMK-1303A-U2 | ← | ← |
| FRONT CONTROL P.W.B | SMK-8302A-U2 | ← | ← |
| RECEIVER POWER P.W.B | SMK-9302A-U2 | ← | ← |
| MI-COM P.W.B | SMK0M302A-U2 | ← | ← |
| MI-COM INTERFACE P.W.B | SMK0M312A-U2 | ← | ← |
| AV JACK P.W.B | SMK0J303A-U2 | ← | ← |
| AV SWITCH P.W.B | SMK0S303A-U2 | ← | ← |
| DIST P.W.B | SMK0Z305A-U2 | ← | ← |
| DIST RELAY P.W.B | SMK0Z312A-U2 | ← | ← |

## EXPLODED VIEW PARTS LIST - 1

| ⚠ | Ref.No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|---|
| | 1 | CM43096-002 | SPECIAL SCREW | (x4) | |
| | 2 | QYSDSG3008N | TAP SCREW | 3mm x 8mm(x3) | |
| ⚠ | 3 | LC11331-006A-0K | TOP COVER | | |
| | 4 | QYSBSF3010M | TAP SCREW | 3mm x 10mm | |
| | 5 | QYSDSG3008N | TAP SCREW | 3mm x 8mm | |
| | 6 | QYSPSPL3008M | SCREW | 3mm x 8mm(x2) | |
| | 7 | QYSPSPL2608N | SCREW | 2.6mm x 8mm(x2) | |
| | 8 | QNB0036-001 | HEX SCREW | (x2) | |
| | 9 | QYSDSG3008N | TAP SCREW | 3mm x 8mm(x6) | |
| | 10 | QYSBSF3010M | TAP SCREW | 3mm x 10mm(x6) | |
| | 11 | CE42112-002 | PALJ CONNECTOR | | |
| ⚠ | 12 | LC21207-001C-0K | BACK COVER | | |
| ⚠ | 13 | QNC0085-002 | AC INLET(NOISE) | | |
| | 14 | LC31946-001A | INLET SHIELD | | |
| | 15 | LC11330-006A-0K | BOTTOM CASE | | |
| | 16 | LC41284-001A | FOOT | (x4) | |
| ⚠ | 17 | LC32328-003A-U | RATING LABEL | | |
| | 18 | CHGY0017-0A-YS | ANT. CABLE ASS'Y | | |
| ⚠ | 100 | LC11328-016A-0K | FRONT PANEL ASS'Y | Inc.101,102,103 | |
| | 101 | QZW0055-003 | DAMPER | | |
| | 102 | QZW0063-001 | MAGNET LATCH | | |
| | 103 | LC31917-002B | CONTROL PLATE | | |
| | 200 | LC21099-003B-OK | DOOR ASS'Y | Inc.201 | |
| | 201 | PQ45130-6 | JVC MARK | | |

# EXPLODED VIEW - 1



# PRINTED WIRING BOARD PARTS LIST

## MAIN PW BOARD ASS'Y (SMK-1303A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC101 | AN15851A-W | IC | | |
| IC201 | TA1318N | IC | | |
| IC202 | TC7W08F-X | IC | | |
| IC402 | SN74HC14NS-X | IC | | |
| IC601 | RC4558D-X | IC | | |
| IC602 | MM1562FF-X | IC | | |
| IC603 | NJU26103FR1 | IC | | |
| IC604 | AK4550VT-X | IC | | |
| IC701 | AT24C6442V31BUE | IC | (SERVICE) | |
| IC703 | R1141Q331B-X | IC | | |
| IC706 | JLC1562BF-X | IC | | |
| IC707 | JLC1562BF-X | IC | | |
| IC902 | SI-8090S | IC | | |
| IC903 | SI-8050S | IC | | |
| IC904 | SI-8033S/F1 | IC | | |
| IC905 | PQ070XH02Z-W | IC | | |
| IC908 | PQ15RW11 | IC | | |
| Q001 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q101 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q102 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q103 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q111 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q112 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q113 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q601 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q602 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q603 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q604 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q605 | 2SK2090-X | MOS FET | | |
| Q606 | 2SK2090-X | MOS FET | | |
| D421 | MA8150/M/-X | Z DIODE | | |
| D422 | MA111-X | SI DIODE | | |
| D601 | MA111-X | SI DIODE | | |
| D609 | MA111-X | SI DIODE | | |
| D771 | MA3056/M/-X | Z DIODE | | |
| D772 | MA3056/M/-X | Z DIODE | | |
| D773 | MA3056/M/-X | Z DIODE | | |
| D774 | MA3056/M/-X | Z DIODE | | |
| D902 | RK34-LFC4 | SB DIODE | | |
| D903 | SF5S4 | SB DIODE | | |
| D904 | SF5S4 | SB DIODE | | |
| D905 | PTZ6.8B-X | Z DIODE | | |
| D906 | MA111-X | SI DIODE | | |
| D992 | MA111-X | SI DIODE | | |
| D993 | MA111-X | SI DIODE | | |
| D994 | MA111-X | SI DIODE | | |
| D995 | MA111-X | SI DIODE | | |
| D996 | MA111-X | SI DIODE | | |
| C001 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | |
| C002 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C004 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C005 | QETN1AM-228Z | E CAPACITOR | 2200uF 10V M | |
| C006 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C007 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C008 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C009 | QETN1AM-108Z | E CAPACITOR | 1000uF 10V M | |
| C010 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C011 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C012 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C013 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C014 | NCB31HK-333X | C CAPACITOR | 0.033uF 50V K | |
| C104 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C105 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C106 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C107 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C108 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C109 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C110 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C111 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C112 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C113 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C114 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C115 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C116 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C117 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C118 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C119 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C120 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C121 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C122 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C123 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C124 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C201 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C202 | QETN1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C203 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C204 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C205 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C206 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C207 | NCF11CZ-475X | C CAPACITOR | 4.7uF 16V Z | |
| C208 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| C406 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C407 | QETN0JM-108Z | E CAPACITOR | 1000uF 6.3V M | |
| C421 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C431 | QETN1AM-107Z | E CAPACITOR | 100uF 10V M | |
| C432 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C433 | QETN1CM-108Z | E CAPACITOR | 1000uF 16V M | |
| C434 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C435 | QETN0JM-108Z | E CAPACITOR | 1000uF 6.3V M | |
| C437 | QETN0JM-108Z | E CAPACITOR | 1000uF 6.3V M | |
| C438 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C439 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C440 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C601 | NCB11EK-105X | C CAPACITOR | 1uF 25V K | |
| C602 | NDC31HJ-471X | C CAPACITOR | 470pF 50V J | |
| C603 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | |
| C604 | QETN1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C605 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C606 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C607 | QETN1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C608 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C609 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C610 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M | |
| C611 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M | |
| C612 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M | |
| C613 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M | |
| C614 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C615 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C616 | QENC1HM-475Z | BP E CAPACITOR | 4.7uF 50V M | |
| C617 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C618 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C619 | QETN1CM-106Z | E CAPACITOR | 10uF 16V M | |
| C620 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C623 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C624 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C625 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C626 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C627 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C628 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C629 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C630 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C631 | NDC31HJ-120X | C CAPACITOR | 12pF 50V J | |
| C701 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C705 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C711 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C715 | NCB31CK-563X | C CAPACITOR | 0.056uF 16V K | |
| C716 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C903 | QETM1EM-228 | E CAPACITOR | 2200uF 25V M | |
| C904 | QETN1HM-335Z | E CAPACITOR | 3.3uF 50V M | |
| C905 | QETN1CM-108Z | E CAPACITOR | 1000uF 16V M | |
| C906 | QETN1CM-477Z | E CAPACITOR | 470uF 16V M | |
| C907 | QETM1EM-228 | E CAPACITOR | 2200uF 25V M | |
| C908 | QETN1HM-335Z | E CAPACITOR | 3.3uF 50V M | |
| C909 | QEZ0256-128 | E CAPACITOR | 1200uF 10V M | |
| C911 | QETN0JM-108Z | E CAPACITOR | 1000uF 6.3V M | |
| C912 | QETM1EM-228 | E CAPACITOR | 2200uF 25V M | |
| C913 | QETN1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C914 | QEZ0256-128 | E CAPACITOR | 1200uF 10V M | |
| C916 | QETN0JM-108Z | E CAPACITOR | 1000uF 6.3V M | |
| C917 | QETN0JM-108Z | E CAPACITOR | 1000uF 6.3V M | |
| C918 | QETN0JM-228Z | E CAPACITOR | 2200uF 6.3V M | |
| C927 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| R002 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R003 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R004 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R005 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R006 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R007 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R008 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R009 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R012 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R013 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R101 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R102 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R103 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R107 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R108 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R109 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R111 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R112 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R113 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R117 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R118 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R119 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R123 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R124 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R201 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R202 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R203 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R204 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R205 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R206 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R207 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R208 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R209 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R210 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R211 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R212 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R215 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R216 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R421 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R422 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R601 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R602 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R603 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R604 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R605 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R606 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R607 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R608 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R609 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R610 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R611 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R612 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R613 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R614 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R615 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R616 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R617 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R618 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R619 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R620 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R621 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R622 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R623 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R625 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R626 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R627 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R628 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R629 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R630 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R631 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R632 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R633 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R636 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J | |
| R637 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R638 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R640 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R642 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R643 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R644 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R701 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R702 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R703 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R704 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R705 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R706 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R711 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R716 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R717 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R718 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R719 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R721 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R723 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R724 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R725 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R727 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R728 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R729 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R730 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R731 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R732 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R735 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R736 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R737 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R738 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R739 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R740 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R741 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R742 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R743 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R744 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R745 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R746 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R747 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R748 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R749 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R751 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R752 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R753 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R772 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R773 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R774 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R775 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R776 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R902 | QRK126J-5R6X | UNF C RESISTOR | 5.6Ω 1/2W J | |
| R903 | NRSA02J-152X | MG RESISTOR | 1.5kΩ 1/10W J | |
| R904 | NRSA02J-152X | MG RESISTOR | 1.5kΩ 1/10W J | |
| R906 | NRSA02J-152X | MG RESISTOR | 1.5kΩ 1/10W J | |
| R907 | QRK126J-220X | UNF C RESISTOR | 22Ω 1/2W J | |
| R908 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R910 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R911 | QRK126J-5R6X | UNF C RESISTOR | 5.6Ω 1/2W J | |
| R912 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R914 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R915 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R916 | NRSA63D-222X | MG RESISTOR | 2.2kΩ 1/16W D | |
| R917 | NRSA63D-222X | MG RESISTOR | 2.2kΩ 1/16W D | |
| R918 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J | |
| R920 | NRSA63D-152X | MG RESISTOR | 1.5kΩ 1/16W D | |
| R921 | NRSA63D-471X | MG RESISTOR | 470Ω 1/16W D | |
| R922 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| L001 | QQL244K-270Z | P COIL | 27uH K | |
| L002 | QQL244K-100Z | P COIL | 10uH K | |
| L003 | QQL244K-100Z | P COIL | 10uH K | |
| L201 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J | |
| L431 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J | |
| L432 | QQL26AK-100Z | COIL | 10uH K | |
| L433 | QQL26AK-100Z | COIL | 10uH K | |
| L601 | NQL092K-2R2X | P COIL | 2.2uH K | |
| L902 | QQR1129-003 | CHOKE COIL | | |
| L903 | QQL50AK-330Z | COIL | 33uH K | |
| L905 | QQR1127-003 | CHOKE COIL | | |
| L906 | QQL26AK-220Z | CHOKE COIL | 22uH K | |
| L907 | QQL26AK-820Z | CHOKE COIL | 82uH K | |
| L908 | QQR1127-003 | CHOKE COIL | | |
| L909 | QQL50AK-100Z | COIL | 10uH K | |
| K601 | NQR0413-002X | FERRITE BEADS | | |
| K901 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J | |
| K902 | QQR0582-001Z | FERRITE BEADS | | |
| K903 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J | |
| K904 | QQR0582-001Z | FERRITE BEADS | | |
| TU001 | QAU0270-002 | TUNER | | |
| X201 | CSB503F30-T2 | C RESONATOR | | |
| X601 | NAX0634-001X | CRYSTAL | | |
| Y001 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y002 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y003 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y008 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y011 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y601 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y701 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| | LC32118-001A | SHIELD PLATE | | (x2) |

## FRONT CONTROL PW BOARD ASS'Y (SMK-8302A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| Q8801 | UN2112-X | DIGI TRANSISTOR | | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| Q8802 | UN2112-X | DIGI TRANSISTOR | | |
| Q8803 | UN2212-X | DIGI TRANSISTOR | | |
| D8601 | MA3039/H/-X | Z DIODE | | |
| D8801 | SPR-39MVWF | LED | POWER | |
| C8001 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C8002 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C8003 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C8004 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C8310 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C8311 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C8321 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| R8001 | QRE121J-271Y | C RESISTOR | 270Ω 1/2W J | |
| R8002 | QRE121J-271Y | C RESISTOR | 270Ω 1/2W J | |
| R8010 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R8021 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R8022 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R8023 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R8315 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R8316 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R8317 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R8801 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R8802 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R8804 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| L8001 | QQR0716-001Z | FERRITE BEADS | | |
| L8002 | QQL244K-5R6Z | P COIL | 5.6uH K | |
| L8003 | QQL244K-5R6Z | P COIL | 5.6uH K | |
| L8310 | QQL244K-270Z | P COIL | 27uH K | |
| L8311 | QQL244K-270Z | P COIL | 27uH K | |
| L8312 | QQR0716-001Z | FERRITE BEADS | | |
| J8001 | QNS0169-001 | 3.5 JACK | HEADPHONE | |
| J8303 | QNZ0438-001 | AV JACK | EXT-5 | |
| S8001 | QSW0619-003Z | TACT SWITCH | POWER | |
| Y8002 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| | LC30188-001B | LED HOLDER | | |

## RECEIVER POWER PW BOARD ASS'Y (SMK-9302A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC9901 | STR-G6653 | IC | | |
| ⚠IC9931 | QAL0515-001 | IC | | |
| IC9932 | MM1565AF-X | IC | | |
| Q9971 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q9972 | 2SC1627A/Y/-T | TRANSISTOR | | |
| D9901 | G2SBA60 | BRIDGE DIODE | | |
| D9902 | RG1C-LFA1 | SI DIODE | | |
| D9903 | MA3068/M/-X | Z DIODE | | |
| D9904 | AU01Z-T2 | FR DIODE | | |
| D9905 | AU01Z-T2 | FR DIODE | | |
| D9906 | MA3270/H/-X | Z DIODE | | |
| D9907 | MA111-X | SI DIODE | | |
| D9908 | MA3150/M/-X | Z DIODE | | |
| D9910 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| D9931 | S1WB/A/60-4101 | BRIDGE DIODE | | |
| D9941 | MA111-X | SI DIODE | | |
| D9951 | EU2-T3 | SI DIODE | | |
| D9952 | FMX-G12S | SI DIODE | | |
| D9953 | MTZJ33B-T2 | Z DIODE | | |
| D9954 | NJM431L-T | Z DIODE | | |
| D9971 | MA111-X | SI DIODE | | |
| ⚠C9901 | QFZ9072-104 | MM CAPACITOR | 0.1uF AC250V K | |
| ⚠C9902 | QFZ9072-104 | MM CAPACITOR | 0.1uF AC250V K | |
| ⚠C9903 | QFZ9072-473 | MM CAPACITOR | 0.047uF AC250V K | |
| ⚠C9904 | QCZ9054-472 | C CAPACITOR | 4700pF AC250V Z | |
| ⚠C9905 | QCZ9054-472 | C CAPACITOR | 4700pF AC250V Z | |
| ⚠C9906 | QCZ9054-472 | C CAPACITOR | 4700pF AC250V Z | |
| C9907 | QEZ0199-127 | E CAPACITOR | 120uF 400V M | |
| C9908 | QCB32HK-103 | C CAPACITOR | 0.01uF 500V K | |
| C9909 | QCZ0340-391 | C CAPACITOR | 390pF 2kV K | |
| C9910 | QCB32HK-152Z | C CAPACITOR | 1500pF 500V K | |
| C9911 | QETN1HM-107Z | E CAPACITOR | 100uF 50V M | |
| C9912 | QCZ0340-561 | C CAPACITOR | 560pF 2kV K | |
| C9913 | NDC21HJ-122X | C CAPACITOR | 1200pF 50V J | |
| C9915 | NDC21HJ-471X | C CAPACITOR | 470pF 50V J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| ⚠C9931 | QCZ9054-472 | C CAPACITOR | 4700pF AC250V Z | |
| ⚠C9932 | QCZ9054-472 | C CAPACITOR | 4700pF AC250V Z | |
| ⚠C9933 | QCZ9054-472 | C CAPACITOR | 4700pF AC250V Z | |
| C9934 | QETM2GM-226 | E CAPACITOR | 22uF 400V M | |
| C9941 | QTMN1CM-477Z | E CAPACITOR | 470uF 16V M | |
| C9942 | QETN1AM-337Z | E CAPACITOR | 330uF 10V M | |
| C9943 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | |
| C9944 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | |
| C9946 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | |
| C9952 | QETN1HM-227Z | E CAPACITOR | 220uF 50V M | |
| C9954 | QEZ0257-228 | E CAPACITOR | 2200uF 25V M | |
| C9955 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C9956 | NCB31EK-333X | C CAPACITOR | 0.033uF 25V K | |
| ⚠C9997 | QCZ9079-471 | C CAPACITOR | 470pF AC250V K | |
| ⚠C9999 | QCZ9079-222 | C CAPACITOR | 2200pF AC250V M | |
| R9901 | QRF074K-5R6 | UNF WW RESISTOR | 5.6Ω 7W K | |
| R9902 | QRE121J-334Y | C RESISTOR | 330kΩ 1/2W J | |
| R9903 | QRE121J-334Y | C RESISTOR | 330kΩ 1/2W J | |
| R9904 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R9905 | QRL029J-823 | OMF RESISTOR | 82kΩ 2W J | |
| R9906 | QRL029J-823 | OMF RESISTOR | 82kΩ 2W J | |
| R9907 | QRL029J-273 | OMF RESISTOR | 27kΩ 2W J | |
| ⚠R9908 | QRZ9017-4R7 | FUSI RESISTOR | 4.7Ω 1/4W J | |
| R9909 | QRE121J-182Y | C RESISTOR | 1.8kΩ 1/2W J | |
| R9911 | QRE121J-332Y | C RESISTOR | 3.3kΩ 1/2W J | |
| R9912 | QRE121J-681Y | C RESISTOR | 680Ω 1/2W J | |
| R9914 | QRT029J-R47 | MF RESISTOR | 0.47Ω 2W J | |
| R9931 | QRF054K-8R2 | UNF WW RESISTOR | 8.2Ω 5W K | |
| R9951 | QRL039J-561 | OMF RESISTOR | 560Ω 3W J | |
| R9952 | QRE121J-562Y | C RESISTOR | 5.6kΩ 1/2W J | |
| R9953 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R9954 | NRSA63J-154X | MG RESISTOR | 150kΩ 1/16W J | |
| R9955 | NRSA63J-154X | MG RESISTOR | 150kΩ 1/16W J | |
| R9956 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R9958 | NRSA63J-753X | MG RESISTOR | 75kΩ 1/16W J | |
| R9971 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R9972 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R9973 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| ⚠R9999 | QRZ9046-825Z | C RESISTOR | 8.2MΩ 1/2W K | |
| L9941 | QQL26AM-4R7Z | CHOKE COIL | 4.7uH M | |
| L9951 | QQL26AK-220Z | CHOKE COIL | 22uH K | |
| L9952 | QQLZ018-220 | COIL | 22uH | |
| L9971 | QQL26AK-220Z | CHOKE COIL | 22uH K | |
| ⚠T9901 | QQS0198-001 | SW TRANSF | | |
| ⚠PC9901 | PC123Y22 | PHOTO COUPLER | | |
| ⚠CP9901 | QMFZ043-2R0Z-J1 | FUSE | 2A AC250V | |
| ⚠CP9902 | QMFZ043-2R0Z-J1 | FUSE | 2A AC250V | |
| ⚠F9901 | QMF51D2-2R5-J1 | FUSE | 2.5A AC250V | |
| FC9901 | CEMG002-001Z | FUSE CLIP | | |
| FC9902 | CEMG002-001Z | FUSE CLIP | | |
| K9901 | QQR0679-001 | FERRITE BEADS | | |
| ⚠LF9901 | QQR1084-002 | LINE FILTER | | |
| ⚠LF9902 | QQR1084-002 | LINE FILTER | | |
| ⚠RY9951 | QSK0099-001 | RELAY | | |
| VA9901 | QAF0052-621 | VARISTOR | 620V | |
| W9201 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| W9202 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| W9203 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| W9204 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |

## MI-COM PW BOARD ASS'Y (SMK0M302A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC001 | SDA6000-B12 | IC | 128pin | |
| IC002 | S-80828CNNB-W | IC | | |
| IC003 | K4S641632F-TC75 | IC(DIGITAL) | | |
| IC004 | MBV160T90PTB05 | IC | | |
| IC901 | TA48M025F-X | IC | | |
| IC902 | TA48M033F-X | IC | | |
| Q001 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q003 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q007 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q008 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q009 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q010 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q011 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q012 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q013 | 2SK2090-X | MOS FET | | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| Q014 | 2SK2090-X | MOS FET | | |
| Q015 | 2SK2090-X | MOS FET | | |
| Q021 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q022 | 2SC3928A/QR/-X | TRANSISTOR | | |
| D001 | MA111-X | SI DIODE | | |
| D002 | MA111-X | SI DIODE | | |
| D003 | MA3068/M/-X | Z DIODE | | |
| D005 | MA3056/M/-X | Z DIODE | | |
| D006 | MA3056/M/-X | Z DIODE | | |
| D007 | MA3056/M/-X | Z DIODE | | |
| D008 | MA3056/M/-X | Z DIODE | | |
| C001 | QETN0JM-477Z | E CAPACITOR | 470uF 6.3V M | |
| C002 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C003 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | |
| C004 | QETN0JM-108Z | E CAPACITOR | 1000uF 6.3V M | |
| C005 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | |
| C006 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | |
| C007 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C008 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | |
| C012 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C019 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C020 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C021 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C022 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C023 | NCB31EK-333X | C CAPACITOR | 0.033uF 25V K | |
| C024 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C025 | NCB31EK-333X | C CAPACITOR | 0.033uF 25V K | |
| C026 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C027 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C028 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C029 | NDC31HJ-151X | C CAPACITOR | 150pF 50V J | |
| C030 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C031 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C032 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C034 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C035 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C036 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C037 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C038 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C039 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C040 | NDC31HJ-330X | C CAPACITOR | 33pF 50V J | |
| C041 | NDC31HJ-270X | C CAPACITOR | 27pF 50V J | |
| C042 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C043 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C045 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C046 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C047 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C048 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C049 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C050 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C051 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C052 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C053 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C054 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C055 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C056 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C057 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C059 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C060 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C061 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C062 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| C067 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| R001 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R002 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R003 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R004 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R005 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R006 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R007 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R008 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R009 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R010 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R011 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R012 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R013 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R014 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R015 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R016 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R017 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R018 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R019 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R020 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R022 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R024 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R027 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R030 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R032 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R034 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R035 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R036 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R037 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R038 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R039 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R040 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R041 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R042 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R046 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R047 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R048 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R049 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R050 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R051 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R052 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R053 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R055 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R056 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R057 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R058 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R059 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R060 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R061 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R062 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R063 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R064 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R065 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R066 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R067 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R068 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R069 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R070 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R071 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R072 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R073 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R074 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R075 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R076 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R077 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R087 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R089 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R090 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R095 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R096 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R097 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R098 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R099 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R100 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R101 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R102 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R104 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R105 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R106 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R107 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R108 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R109 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R110 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R111 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R112 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R113 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R114 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R117 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R122 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R123 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R124 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R125 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R126 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R127 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R128 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R129 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R130 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R131 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R132 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R133 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R135 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R136 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R137 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R138 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R139 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R147 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R148 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R149 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R151 | NRSA63J-183X | MG RESISTOR | 18kΩ 1/16W J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R152 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R153 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R154 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R155 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R156 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R158 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R166 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R167 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R168 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R169 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R170 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R171 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R172 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R173 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R174 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| L001 | NQL092K-4R7X | COIL | 4.7uH K | |
| L003 | NQL092K-4R7X | COIL | 4.7uH K | |
| L005 | NQL092K-4R7X | COIL | 4.7uH K | |
| L006 | NQL092K-4R7X | COIL | 4.7uH K | |
| L007 | NQL092K-4R7X | COIL | 4.7uH K | |
| L008 | NQL092K-4R7X | COIL | 4.7uH K | |
| L009 | NQL034K-4R7X | COIL | 4.7uH K | |
| L010 | NQL092K-4R7X | COIL | 4.7uH K | |
| L011 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| L012 | NQL092K-4R7X | COIL | 4.7uH K | |
| L013 | NQL092K-4R7X | COIL | 4.7uH K | |
| L014 | NQL092K-4R7X | COIL | 4.7uH K | |
| L015 | NQL034K-4R7X | COIL | 4.7uH K | |
| L016 | NQL034K-4R7X | COIL | 4.7uH K | |
| L017 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| L018 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| L019 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| L020 | NQL092K-1R5X | COIL | 1.5uH K | |
| L021 | NQL092K-1R5X | COIL | 1.5uH K | |
| L022 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| K001 | NRSA63J-390X | MG RESISTOR | 39Ω 1/16W J | |
| K002 | NQR0389-003X | FERRITE BEADS | | |
| K003 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| K004 | NQR0389-003X | FERRITE BEADS | | |
| LC001 | NQR0313-007X | EMI FILTER | 1000pF 50V M | |
| LC002 | NQR0431-001X | EMI FILTER | 0.22uF 50V Z | |
| X001 | QAX0669-001Z | CRYSTAL | 6MHz | |
| Y001 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| | LC21181-001B-C | SHIELD FRAME | | |
| | LC21182-001A-C | SHIELD TOP | | |
| | LC21183-001A-C | SHIELD BOTTOM | | |

## MI-COM INTERFACE PW BOARD ASS'Y (SMK0M312A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC101 | CD74HC4066E | IC | | |
| IC102 | CD74HC4053E | IC | | |
| Q101 | 2SC1815/YG/-T | TRANSISTOR | | |
| Q102 | DTC144ESA-T | DIGI TRANSISTOR | | |
| C101 | QCB31HK-103Z | C CAPACITOR | 0.01uF 50V K | |
| C102 | QCB31HK-103Z | C CAPACITOR | 0.01uF 50V K | |
| C103 | QCB31HK-103Z | C CAPACITOR | 0.01uF 50V K | |
| C104 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C105 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C106 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| R101 | QRK126J-103X | UNF C RESISTOR | 10kΩ 1/2W J | |
| R102 | QRK126J-103X | UNF C RESISTOR | 10kΩ 1/2W J | |
| R103 | QRK126J-473X | UNF C RESISTOR | 47kΩ 1/2W J | |
| R104 | QRK126J-471X | UNF C RESISTOR | 470Ω 1/2W J | |
| R105 | QRK126J-471X | UNF C RESISTOR | 470Ω 1/2W J | |
| R106 | QRK126J-103X | UNF C RESISTOR | 10kΩ 1/2W J | |
| R107 | QRK126J-103X | UNF C RESISTOR | 10kΩ 1/2W J | |
| R108 | QRK126J-103X | UNF C RESISTOR | 10kΩ 1/2W J | |

## AV JACK PW BOARD ASS'Y (SMK0J303A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| D101 | MA3056/M/-X | Z DIODE | | |
| D102 | MA3056/M/-X | Z DIODE | | |
| D103 | MA3056/M/-X | Z DIODE | | |
| D104 | MA3056/M/-X | Z DIODE | | |
| D111 | MA3056/M/-X | Z DIODE | | |
| D112 | MA3056/M/-X | Z DIODE | | |
| D113 | MA3056/M/-X | Z DIODE | | |
| D114 | MA3039/H/-X | Z DIODE | | |
| D115 | MA3120/M/-X | Z DIODE | | |
| D116 | MA3056/M/-X | Z DIODE | | |
| D117 | MA3056/M/-X | Z DIODE | | |
| D301 | MA3120/M/-X | Z DIODE | | |
| D302 | MA3120/M/-X | Z DIODE | | |
| D303 | MA3120/M/-X | Z DIODE | | |
| D304 | MA3120/M/-X | Z DIODE | | |
| D310 | MA3120/M/-X | Z DIODE | | |
| D311 | MTZJ12C-T2 | Z DIODE | | |
| C101 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C102 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C103 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C104 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C111 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C112 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C113 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C114 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C122 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C124 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C301 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J | |
| C311 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J | |
| C321 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J | |
| C341 | NCB31HK-152X | C CAPACITOR | 1500pF 50V K | |
| C342 | NCB31HK-152X | C CAPACITOR | 1500pF 50V K | |
| C651 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C652 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C653 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C654 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| R105 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R106 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R107 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R108 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R109 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R115 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R116 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R117 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R118 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R119 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R127 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R129 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R301 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R311 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R321 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| J001 | CE40529-006 | SCART CONNECTOR | EXT-1 | |
| J002 | CE40529-006 | SCART CONNECTOR | EXT-2 | |
| J003 | CE40529-006 | SCART CONNECTOR | EXT-3 | |
| J004 | QNN0463-001 | PIN JACK | EXT-4 COMP IN | |
| J005 | QNN0493-001 | PIN JACK | EXE-4 L,R IN | |
| J006 | QNN0571-001 | PIN JACK | AUDIO L,R OUT | |
| K101 | CE42681-001Y | CHIP BEADS CORE | | |
| K102 | CE42681-001Y | CHIP BEADS CORE | | |
| K103 | CE42681-001Y | CHIP BEADS CORE | | |
| K104 | CE42681-001Y | CHIP BEADS CORE | | |
| K105 | QQR0716-001Z | FERRITE BEADS | | |
| K601 | CE42681-001Y | CHIP BEADS CORE | | |
| K602 | CE42681-001Y | CHIP BEADS CORE | | |

## AV SWITCH PW BOARD ASS'Y (SMK0S303A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC101 | CXA2069Q | IC | | |
| IC501 | MSP3415DQGB3GHX | IC | | |
| IC601 | RC4558D-X | IC | | |
| IC602 | RC4558D-X | IC | | |
| IC603 | RC4558D-X | IC | | |
| IC662 | RC4558D-X | IC | | |
| IC901 | AN77L08-T | IC | | |
| Q101 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q102 | 2SC3928A/QR/-X | TRANSISTOR | | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| Q103 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q104 | DTC323TK-X | DIGI TRANSISTOR | | |
| Q105 | DTC323TK-X | DIGI TRANSISTOR | | |
| Q106 | KTC3199/YG/-T | TRANSISTOR | | |
| Q131 | 2SA933AS/QR/-T | TRANSISTOR | | |
| Q136 | DTC323TK-X | DIGI TRANSISTOR | | |
| Q137 | DTC323TK-X | DIGI TRANSISTOR | | |
| Q138 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q201 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q202 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q211 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q212 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q221 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q222 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q231 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q232 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q233 | DTC323TK-X | DIGI TRANSISTOR | | |
| Q234 | DTC323TK-X | DIGI TRANSISTOR | | |
| Q502 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q503 | UN2213-X | DIGI TRANSISTOR | | |
| Q601 | DTC323TK-X | DIGI TRANSISTOR | | |
| Q602 | DTC323TK-X | DIGI TRANSISTOR | | |
| Q603 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q604 | DTC323TK-X | DIGI TRANSISTOR | | |
| Q605 | DTC323TK-X | DIGI TRANSISTOR | | |
| Q606 | 2SA1530A/QR/-X | TRANSISTOR | | |
| D131 | MA3120/M/-X | Z DIODE | | |
| D161 | MA3120/M/-X | Z DIODE | | |
| D162 | MA3120/M/-X | Z DIODE | | |
| D163 | MA3120/M/-X | Z DIODE | | |
| D164 | MA3120/M/-X | Z DIODE | | |
| D681 | MA3150/M/-X | Z DIODE | | |
| D682 | MA3150/M/-X | Z DIODE | | |
| C105 | QETN1CM-477Z | E CAPACITOR | 470uF 16V M | |
| C115 | QETN1CM-477Z | E CAPACITOR | 470uF 16V M | |
| C125 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C131 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C132 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C133 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C141 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C142 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C143 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C144 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C145 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C146 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C147 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C148 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C149 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C150 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C151 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C152 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C153 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C161 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C162 | NDC31HJ-150X | C CAPACITOR | 15pF 50V J | |
| C163 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C164 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C165 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C166 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C167 | QENC1HM-105Z | BP E CAPACITOR | 1uF 50V M | |
| C168 | QENC1EM-106Z | BP E CAPACITOR | 10uF 25V M | |
| C169 | QENC1HM-105Z | BP E CAPACITOR | 1uF 50V M | |
| C170 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C171 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C172 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C173 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C174 | QETN1CM-477Z | E CAPACITOR | 470uF 16V M | |
| C175 | QENC1HM-225Z | BP E CAPACITOR | 2.2uF 50V M | |
| C176 | QENC1HM-225Z | BP E CAPACITOR | 2.2uF 50V M | |
| C177 | QENC1EM-106Z | BP E CAPACITOR | 10uF 25V M | |
| C178 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C179 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C181 | QENC1HM-105Z | BP E CAPACITOR | 1uF 50V M | |
| C182 | QENC1EM-106Z | BP E CAPACITOR | 10uF 25V M | |
| C183 | QENC1HM-105Z | BP E CAPACITOR | 1uF 50V M | |
| C184 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C185 | QETN1HM-476Z | E CAPACITOR | 47uF 50V M | |
| C190 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C191 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C192 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C193 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C213 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C214 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C343 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C344 | QETN1HM-105Z | E CAPACITOR | 1uF 50V M | |
| C502 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C507 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| C508 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C509 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C510 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C511 | NDC31HJ-2R0X | C CAPACITOR | 2pF 50V J | |
| C512 | NDC31HJ-2R0X | C CAPACITOR | 2pF 50V J | |
| C513 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C514 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C515 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C516 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C517 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C518 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C519 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C520 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C521 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C522 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C523 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C524 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C525 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C526 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C527 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C528 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C529 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C530 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C531 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C532 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C533 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C534 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C535 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | |
| C601 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C602 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C603 | QETN1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C604 | QETN1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C605 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C606 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C607 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C608 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C609 | QETN1EM-476Z | E CAPACITOR | 47uF 25V M | |
| C610 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C611 | QENC1HM-105Z | BP E CAPACITOR | 1uF 50V M | |
| C612 | QENC1HM-105Z | BP E CAPACITOR | 1uF 50V M | |
| C613 | QETN1HM-106Z | E CAPACITOR | 10uF 50V M | |
| C671 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C672 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| C673 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C678 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C679 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C681 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C683 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C901 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C902 | QETN1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C903 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| R101 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R102 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R103 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R104 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R111 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R112 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R113 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R114 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R131 | QRG01GJ-101 | OMF RESISTOR | 100Ω 1W J | |
| R132 | QRK126J-181X | UNF C RESISTOR | 180Ω 1/2W J | |
| R133 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R134 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R135 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R136 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R137 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R138 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R139 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R141 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R142 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R143 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R144 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R145 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R146 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R147 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R148 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R149 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R150 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R151 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R152 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R153 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R154 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R155 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R160 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R162 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R163 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R164 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R165 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R167 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R168 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R169 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R170 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R172 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R173 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R174 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R175 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R176 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R177 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R178 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R179 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R180 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R181 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R182 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R183 | QRK126J-151X | UNF C RESISTOR | 150Ω 1/2W J | |
| R184 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| R185 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R186 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R187 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R188 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R189 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R190 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R191 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R192 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R193 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R194 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R201 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R202 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R203 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R204 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R205 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R206 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R207 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R208 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R211 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R212 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R213 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R214 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R215 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R216 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R217 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R218 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R221 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R222 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R223 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R224 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R225 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R226 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R227 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R228 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R231 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R232 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R234 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R235 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R236 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R237 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R241 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R242 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R250 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R251 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R255 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R257 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R258 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R260 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R263 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R341 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R342 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R343 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R344 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R506 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R507 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R510 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R511 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R514 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R515 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R516 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R517 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R518 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R519 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R522 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R602 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R604 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R605 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R606 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R607 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R608 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R609 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R610 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R613 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R614 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R615 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R616 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R617 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R618 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R619 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R620 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R621 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R622 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R623 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R624 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R625 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R626 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R627 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R628 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J | |
| R629 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R630 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R631 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R632 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R633 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R634 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R635 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R636 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R637 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J | |
| R639 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R640 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R645 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R646 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R648 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R649 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R671 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R672 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R673 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R674 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R675 | NRSA63J-334X | MG RESISTOR | 330kΩ 1/16W J | |
| R677 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R678 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R680 | NRSA63J-334X | MG RESISTOR | 330kΩ 1/16W J | |
| R681 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R682 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R683 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R684 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R685 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R686 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| L503 | QRN143J-0R0X | C RESISTOR | 0Ω 1/4W J | |
| L504 | QQL244K-4R7Z | P COIL | 4.7uH K | |
| K501 | NQR0389-003X | FERRITE BEADS | | |
| K502 | NQR0389-003X | FERRITE BEADS | | |
| LC501 | NQR0431-001X | EMI FILTER | 0.22uF 50V Z | |
| X501 | CE42546-001Z | CRYSTAL | | |
| Y001 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y002 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y501 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y502 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y503 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y601 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y602 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y603 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y604 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y605 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |

## DIST PW BOARD ASS'Y (SMK0Z305A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC001 | TC90A90FG | IC | 100pin | |
| IC002 | SN74AHC2G34T-X | IC | | |
| IC003 | AD9883AKST-110 | IC | 80pin | |
| IC004 | SN74AHC2G34T-X | IC | | |
| IC005 | MSM514265E-60TS | IC | | |
| IC101 | TMC57128GJG | IC | 264pin | |
| IC102 | HY5DU283222Q-5 | IC | 100pin | |
| IC103 | MBV400TC90PFN41 | IC(MICRO C ROM) | | |
| IC104 | SN74AHC2G74T-X | IC | | |
| IC105 | SN74AHC1G08V-X | IC | | |
| IC106 | S-80828CLNB-W | IC | | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC107 | LP3964EMP-ADJ-X | IC | | |
| IC108 | LP3964EMP-ADJ-X | IC | | |
| IC201 | JCC5054 | IC | | 254pin |
| IC203 | R1170H151B-X | IC | | |
| IC206 | R1170H251B-X | IC | | |
| IC207 | BU2098F-X | IC | | |
| IC210 | TLC2932IPW-X | IC | | |
| IC251 | UPD64083GF | IC | | 100pin |
| IC253 | R1170H251B-X | IC | | |
| IC461 | JCC5056A | IC | | 256pin |
| IC464 | SN74LV574APW-X | IC | | |
| IC465 | SN74LVC1G04V-X | IC(DIGITAL) | | |
| IC466 | SN74AHC1G04V-X | IC | | |
| IC501 | THS8083APZP | IC | | 100pin |
| IC602 | ICL3221CA-X | IC | | |
| IC603 | CD74HC4053PW-X | IC | | |
| IC701 | TB1274AF | IC | | |
| IC702 | TC90A69AF-X | IC | | |
| IC703 | TC4053BF/N/-XE | IC | | |
| IC704 | BA05FP-X | IC | | |
| IC801 | TB1274AF | IC | | |
| IC802 | TC90A69AF-X | IC | | |
| IC803 | BA05FP-X | IC | | |
| IC901 | SII170BCL64 | IC | | |
| IC903 | IC-PST575M/J/-X | IC | | |
| IC904 | R1170H331B-X | IC | | |
| Q101 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q102 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q103 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q104 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q105 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q106 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q107 | UN2212-X | DIGI TRANSISTOR | | |
| Q401 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q402 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q403 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q431 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q432 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q433 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q434 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q501 | 2SA1022/BC/-X | TRANSISTOR | | |
| Q502 | 2SA1022/BC/-X | TRANSISTOR | | |
| Q503 | 2SA1022/BC/-X | TRANSISTOR | | |
| Q504 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q601 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q701 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q702 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q703 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q704 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q705 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q707 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q753 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q754 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q755 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q756 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q758 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q759 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q760 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q762 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q763 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q764 | HN1C01F/Y/-X | PAIR TRANSISTOR | | |
| Q791 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q792 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q793 | UN2212-X | DIGI TRANSISTOR | | |
| Q801 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q802 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q853 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q854 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q855 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q856 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q858 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q859 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q860 | 2SA1530A/QR/-X | TRANSISTOR | | |
| Q862 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q863 | 2SC3928A/QR/-X | TRANSISTOR | | |
| Q864 | HN1C01F/Y/-X | PAIR TRANSISTOR | | |
| Q903 | 2SK2090-X | MOS FET | | |
| Q904 | 2SK2090-X | MOS FET | | |
| QB001 | 2SC3928A/QR/-X | TRANSISTOR | | |
| QB002 | 2SC3928A/QR/-X | TRANSISTOR | | |
| QB003 | 2SA1530A/QR/-X | TRANSISTOR | | |
| QB005 | 2SC3928A/QR/-X | TRANSISTOR | | |
| QB006 | 2SC3928A/QR/-X | TRANSISTOR | | |
| QB007 | 2SA1530A/QR/-X | TRANSISTOR | | |
| QB009 | 2SC3928A/QR/-X | TRANSISTOR | | |
| QB010 | 2SC3928A/QR/-X | TRANSISTOR | | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| QB011 | 2SA1530A/QR/-X | TRANSISTOR | | |
| QB020 | 2SK2090-X | MOS FET | | |
| QB021 | 2SK2090-X | MOS FET | | |
| QB101 | 2SC3837K/NP/-X | TRANSISTOR | | |
| QB102 | 2SA1022/BC/-X | TRANSISTOR | | |
| QB103 | 2SC3837K/NP/-X | TRANSISTOR | | |
| QB104 | 2SA1022/BC/-X | TRANSISTOR | | |
| QB105 | 2SC3837K/NP/-X | TRANSISTOR | | |
| QB106 | 2SA1022/BC/-X | TRANSISTOR | | |
| QB107 | HN1C01F/Y/-X | PAIR TRANSISTOR | | |
| QB108 | HN1C01F/Y/-X | PAIR TRANSISTOR | | |
| QB109 | HN1C01F/Y/-X | PAIR TRANSISTOR | | |
| D601 | 1SS355-X | SI DIODE | | |
| D602 | 1SS355-X | SI DIODE | | |
| D902 | BAV99L-X | SI DIODE | | |
| D903 | BAV99L-X | SI DIODE | | |
| D904 | BAV99L-X | SI DIODE | | |
| D905 | BAV99L-X | SI DIODE | | |
| D906 | BAV99L-X | SI DIODE | | |
| D907 | BAV99L-X | SI DIODE | | |
| D908 | BAV99L-X | SI DIODE | | |
| D909 | BAV99L-X | SI DIODE | | |
| D910 | BAV99L-X | SI DIODE | | |
| D911 | BAV99L-X | SI DIODE | | |
| D912 | BAV99L-X | SI DIODE | | |
| C001 | NBE71CM-476X | TA E CAPACITOR | | 47uF 16V M |
| C002 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C003 | NCB21CK-334X | C CAPACITOR | | 0.33uF 16V K |
| C004 | NCB21AK-105X | C CAPACITOR | | 1uF 10V K |
| C005 | NBE71CM-476X | TA E CAPACITOR | | 47uF 16V M |
| C006 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C007 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C008 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C009 | NEH70JM-107X | E CAPACITOR | | 100uF 6.3V M |
| C010 | NCB11CK-225X | C CAPACITOR | | 2.2uF 16V K |
| C101 | NEN51AM-336X | BP E CAPACITOR | | 33uF 10V M |
| C102 | NDC31HJ-221X | C CAPACITOR | | 220pF 50V J |
| C103 | NDC31HJ-150X | C CAPACITOR | | 15pF 50V J |
| C104 | NDC31HJ-121X | C CAPACITOR | | 120pF 50V J |
| C105 | NCF11CZ-475X | C CAPACITOR | | 4.7uF 16V Z |
| C106 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C107 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C108 | NCB31HK-102X | C CAPACITOR | | 1000pF 50V K |
| C110 | NBE71CM-476X | TA E CAPACITOR | | 47uF 16V M |
| C111 | NEN51VM-225X | BP E CAPACITOR | | 2.2uF 35V M |
| C302 | NDC31HJ-100X | C CAPACITOR | | 10pF 50V J |
| C304 | NCB31HK-103X | C CAPACITOR | | 0.01uF 50V K |
| C305 | NDC31HJ-561X | C CAPACITOR | | 560pF 50V J |
| C307 | NCB31HK-103X | C CAPACITOR | | 0.01uF 50V K |
| C308 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C309 | NDC31HJ-470X | C CAPACITOR | | 47pF 50V J |
| C310 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C313 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C314 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C315 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C316 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C317 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C318 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C319 | NEH71CM-476X | E CAPACITOR | | 47uF 16V M |
| C321 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C322 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C323 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C324 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C325 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C326 | NDC31HJ-100X | C CAPACITOR | | 10pF 50V J |
| C401 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C402 | NDC31HJ-101X | C CAPACITOR | | 100pF 50V J |
| C403 | NDC31HJ-150X | C CAPACITOR | | 15pF 50V J |
| C404 | NDC31HJ-121X | C CAPACITOR | | 120pF 50V J |
| C405 | NDC31HJ-330X | C CAPACITOR | | 33pF 50V J |
| C406 | NCF11CZ-475X | C CAPACITOR | | 4.7uF 16V Z |
| C424 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C425 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C431 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C432 | NDC31HJ-221X | C CAPACITOR | | 220pF 50V J |
| C434 | NDC31HJ-221X | C CAPACITOR | | 220pF 50V J |
| C436 | NCF11CZ-475X | C CAPACITOR | | 4.7uF 16V Z |
| C461 | NEH70JM-107X | E CAPACITOR | | 100uF 6.3V M |
| C462 | NEH70JM-107X | E CAPACITOR | | 100uF 6.3V M |
| C463 | NEH70JM-107X | E CAPACITOR | | 100uF 6.3V M |
| C464 | NEH70JM-107X | E CAPACITOR | | 100uF 6.3V M |
| C465 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C466 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C467 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |
| C468 | NCF31CZ-104X | C CAPACITOR | | 0.1uF 16V Z |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C469 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C470 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C471 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C472 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C473 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C474 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C475 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C476 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C477 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C478 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C479 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C480 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C481 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C482 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C483 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C501 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C502 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C503 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C504 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C505 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C506 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C507 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C508 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C509 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C510 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C511 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C512 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C513 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C514 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C515 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C516 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C518 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C519 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C520 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C521 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C522 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C524 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C525 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C526 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C527 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C528 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C530 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C531 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C532 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C533 | NDC31HJ-331X | C CAPACITOR | 330pF 50V J | |
| C534 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C535 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C551 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C552 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C553 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C554 | NDC31HJ-390X | C CAPACITOR | 39pF 50V J | |
| C556 | NDC31HJ-3R0X | C CAPACITOR | 3pF 50V J | |
| C557 | NDC31HJ-390X | C CAPACITOR | 39pF 50V J | |
| C559 | NDC31HJ-3R0X | C CAPACITOR | 3pF 50V J | |
| C560 | NDC31HJ-390X | C CAPACITOR | 39pF 50V J | |
| C562 | NDC31HJ-3R0X | C CAPACITOR | 3pF 50V J | |
| C563 | NEN51HM-474X | BP E CAPACITOR | 0.47uF 50V M | |
| C564 | NEN51HM-474X | BP E CAPACITOR | 0.47uF 50V M | |
| C565 | NEN51HM-474X | BP E CAPACITOR | 0.47uF 50V M | |
| C640 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C651 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C652 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C653 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C654 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C655 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C656 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C691 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C692 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C701 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C702 | NCF31CZ-224X | C CAPACITOR | 0.22uF 16V Z | |
| C703 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C704 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C705 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C706 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C707 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C708 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C709 | NCF11CZ-475X | C CAPACITOR | 4.7uF 16V Z | |
| C710 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C711 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C712 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C713 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C714 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C715 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C716 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C717 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C718 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C719 | NDC31HJ-6R0X | C CAPACITOR | 6pF 50V J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C720 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| C721 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C722 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | |
| C723 | NCB31HK-223X | C CAPACITOR | 0.022uF 50V K | |
| C724 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C726 | NDC31HJ-271X | C CAPACITOR | 270pF 50V J | |
| C728 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C731 | NEH71EM-226X | E CAPACITOR | 22uF 25V M | |
| C732 | NCF31CZ-334X | C CAPACITOR | 0.33uF 16V Z | |
| C750 | NDC31HJ-180X | C CAPACITOR | 18pF 50V J | |
| C751 | NDC31HJ-181X | C CAPACITOR | 180pF 50V J | |
| C752 | NDC31HJ-820X | C CAPACITOR | 82pF 50V J | |
| C753 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C754 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C755 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C756 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C757 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C758 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C759 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| C760 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C761 | NDC31HJ-681X | C CAPACITOR | 680pF 50V J | |
| C762 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C763 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C764 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C765 | NDC31HJ-560X | C CAPACITOR | 56pF 50V J | |
| C766 | NDC31HJ-560X | C CAPACITOR | 56pF 50V J | |
| C767 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C768 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C769 | NDC31HJ-560X | C CAPACITOR | 56pF 50V J | |
| C770 | NDC31HJ-560X | C CAPACITOR | 56pF 50V J | |
| C771 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C772 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C773 | NDC31HJ-330X | C CAPACITOR | 33pF 50V J | |
| C774 | NDC31HJ-150X | C CAPACITOR | 15pF 50V J | |
| C775 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C776 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C777 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C778 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C779 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C780 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C781 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C782 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C783 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C784 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C785 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C786 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C787 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C788 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C789 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C790 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C791 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C792 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C793 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C794 | NDC31HJ-180X | C CAPACITOR | 18pF 50V J | |
| C795 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C796 | NDC31HJ-180X | C CAPACITOR | 18pF 50V J | |
| C797 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C801 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C802 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C803 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C804 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C805 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C806 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C807 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C808 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C809 | NCF11CZ-475X | C CAPACITOR | 4.7uF 16V Z | |
| C810 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C811 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C812 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C813 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C814 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C815 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C816 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C817 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C818 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C819 | NDC31HJ-4R0X | C CAPACITOR | 4pF 50V J | |
| C820 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| C821 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C822 | NCB11CK-225X | C CAPACITOR | 2.2uF 16V K | |
| C823 | NCB31HK-223X | C CAPACITOR | 0.022uF 50V K | |
| C824 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C826 | NEH71EM-226X | E CAPACITOR | 22uF 25V M | |
| C827 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C828 | NCF31CZ-334X | C CAPACITOR | 0.33uF 16V Z | |
| C849 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C850 | NDC31HJ-180X | C CAPACITOR | 18pF 50V J | |
| C851 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C852 | NDC31HJ-820X | C CAPACITOR | 82pF 50V J | |
| C853 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C854 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C855 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C856 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C857 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C858 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C859 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| C860 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C861 | NDC31HJ-681X | C CAPACITOR | 680pF 50V J | |
| C862 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C863 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C864 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C865 | NDC31HJ-560X | C CAPACITOR | 56pF 50V J | |
| C866 | NDC31HJ-560X | C CAPACITOR | 56pF 50V J | |
| C867 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C868 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C869 | NDC31HJ-560X | C CAPACITOR | 56pF 50V J | |
| C870 | NDC31HJ-560X | C CAPACITOR | 56pF 50V J | |
| C871 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C872 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C873 | NDC31HJ-330X | C CAPACITOR | 33pF 50V J | |
| C874 | NDC31HJ-150X | C CAPACITOR | 15pF 50V J | |
| C875 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C876 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C877 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C878 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C879 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C880 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C881 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C882 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C883 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C884 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C885 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C886 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C887 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C888 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| C889 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C890 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| C891 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| C892 | NDC31HJ-180X | C CAPACITOR | 18pF 50V J | |
| C893 | NDC31HJ-100X | C CAPACITOR | 10pF 50V J | |
| C894 | NDC31HJ-180X | C CAPACITOR | 18pF 50V J | |
| C901 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C902 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C904 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C905 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C906 | NCF41CZ-106X | C CAPACITOR | 10uF 16V Z | |
| C907 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C908 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C909 | NCF41CZ-106X | C CAPACITOR | 10uF 16V Z | |
| C910 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C911 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C912 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C913 | NCF41CZ-106X | C CAPACITOR | 10uF 16V Z | |
| C914 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C915 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C916 | NCF41CZ-106X | C CAPACITOR | 10uF 16V Z | |
| C917 | NCF41CZ-106X | C CAPACITOR | 10uF 16V Z | |
| C918 | NCF41CZ-106X | C CAPACITOR | 10uF 16V Z | |
| C919 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C920 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C921 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C922 | NDC31HJ-102X | C CAPACITOR | 1000pF 50V J | |
| C930 | NEH71HM-475X | E CAPACITOR | 4.7uF 50V M | |
| C931 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| C932 | NEH71HM-225X | E CAPACITOR | 2.2uF 50V M | |
| C934 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB001 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| CB002 | NDC31HJ-120X | C CAPACITOR | 12pF 50V J | |
| CB003 | NDC31HJ-220X | C CAPACITOR | 22pF 50V J | |
| CB004 | NDC31HJ-820X | C CAPACITOR | 82pF 50V J | |
| CB006 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB007 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| CB008 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | |
| CB009 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | |
| CB010 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB011 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| CB012 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | |
| CB013 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | |
| CB014 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB021 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| CB022 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| CB023 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| CB024 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB025 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| CB026 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| CB027 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB028 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB029 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| CB030 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB031 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB032 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB033 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB034 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| CB035 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB036 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB037 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB038 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB039 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| CB040 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| CB041 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| CB042 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB043 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB044 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| CB045 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB046 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB047 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB048 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB049 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB050 | NEH71CM-476X | E CAPACITOR | 47uF 16V M | |
| CB051 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| CB052 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB053 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB101 | NDC31HJ-390X | C CAPACITOR | 39pF 50V J | |
| CB104 | NDC31HJ-470X | C CAPACITOR | 47pF 50V J | |
| CB105 | NDC31HJ-3R0X | C CAPACITOR | 3pF 50V J | |
| CB106 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB107 | NDC31HJ-390X | C CAPACITOR | 39pF 50V J | |
| CB110 | NDC31HJ-470X | C CAPACITOR | 47pF 50V J | |
| CB111 | NDC31HJ-3R0X | C CAPACITOR | 3pF 50V J | |
| CB112 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB113 | NDC31HJ-390X | C CAPACITOR | 39pF 50V J | |
| CB116 | NDC31HJ-470X | C CAPACITOR | 47pF 50V J | |
| CB117 | NDC31HJ-3R0X | C CAPACITOR | 3pF 50V J | |
| CB118 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB119 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| CB120 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| CB121 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| CB122 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| CB123 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB124 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB125 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB126 | NCB31EK-393X | C CAPACITOR | 0.039uF 25V K | |
| CB127 | NCB31HK-392X | C CAPACITOR | 3900pF 50V K | |
| CB128 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB129 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB130 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB131 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB132 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB133 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB134 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB135 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB136 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB137 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB138 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB139 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| CB140 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| CB144 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB145 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB146 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB201 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB202 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB208 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| CB209 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB219 | NBE71CM-476X | TA E CAPACITOR | 47uF 16V M | |
| CB220 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB223 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| CB225 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| CB226 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB233 | NDC31HJ-330X | C CAPACITOR | 33pF 50V J | |
| CB234 | NDC31HJ-330X | C CAPACITOR | 33pF 50V J | |
| CB301 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| CB302 | NBZ0007-107X | SP E CAPACITOR | 100uF 4V M | |
| CB303 | NBZ0007-107X | SP E CAPACITOR | 100uF 4V M | |
| CB304 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB305 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB306 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB307 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB308 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB309 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB310 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| CB311 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB312 | NCB31AK-334X | C CAPACITOR | 0.33uF 10V K | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| CB313 | NCB31HK-682X | C CAPACITOR | 6800pF 50V K | |
| CB314 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB315 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB316 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB317 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB318 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB319 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB320 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB321 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB322 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB323 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB324 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB325 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB326 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB327 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB328 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB329 | NCB31AK-334X | C CAPACITOR | 0.33uF 10V K | |
| CB330 | NCB31HK-822X | C CAPACITOR | 8200pF 50V K | |
| CB331 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB332 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB333 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB334 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB335 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB336 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB337 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB340 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB341 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB342 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB343 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB344 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB345 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB346 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB347 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB348 | NEH71EM-336X | E CAPACITOR | 33uF 25V M | |
| CB349 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB350 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB351 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB352 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB353 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB354 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB355 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB356 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB357 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB359 | NDC31HJ-221X | C CAPACITOR | 220pF 50V J | |
| CB360 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB361 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB362 | NCF31CZ-474X | C CAPACITOR | 0.47uF 16V Z | |
| CB363 | NCF31CZ-474X | C CAPACITOR | 0.47uF 16V Z | |
| CB364 | NBE71CM-476X | TA E CAPACITOR | 47uF 16V M | |
| CB365 | NBE71CM-476X | TA E CAPACITOR | 47uF 16V M | |
| CB371 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| CB375 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| CB376 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| CB379 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| CB380 | NBZ0007-107X | SP E CAPACITOR | 100uF 4V M | |
| CB401 | NEH70JM-107X | E CAPACITOR | 100uF 6.3V M | |
| CB402 | NBE71CM-476X | TA E CAPACITOR | 47uF 16V M | |
| CB403 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB404 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB405 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB407 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB409 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB410 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB411 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB412 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB414 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB424 | NCF31AZ-105X | C CAPACITOR | 1uF 10V Z | |
| CB427 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB431 | NDC31HJ-151X | C CAPACITOR | 150pF 50V J | |
| CB501 | NBE71CM-476X | TA E CAPACITOR | 47uF 16V M | |
| CB502 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB503 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB504 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB505 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB506 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB507 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB511 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB512 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB531 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB532 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB551 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB552 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB571 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB572 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB601 | NCF31CZ-104X | C CAPACITOR | 0.1uF 16V Z | |
| CB602 | NEH71CM-106X | E CAPACITOR | 10uF 16V M | |
| CB603 | NCB21HK-472X | C CAPACITOR | 4700pF 50V K | |
| CB604 | NEH71HM-474X | E CAPACITOR | 0.47uF 50V M | |
| R002 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R003 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R101 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R102 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| R103 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R104 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R105 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | |
| R106 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R107 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R108 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R109 | NRSA63D-102X | MG RESISTOR | 1kΩ 1/16W D | |
| R110 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R112 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R113 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R114 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J | |
| R115 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R116 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R117 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R118 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R119 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R122 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R302 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R303 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R304 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R306 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R307 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R308 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R310 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R313 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R314 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R315 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R319 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R401 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R402 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R403 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J | |
| R404 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | |
| R405 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R407 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R408 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R409 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R410 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R412 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R413 | NRSA63J-680X | MG RESISTOR | 68Ω 1/16W J | |
| R424 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R426 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R427 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| R431 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R432 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R433 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J | |
| R434 | NRSA63J-121X | MG RESISTOR | 120Ω 1/16W J | |
| R437 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R438 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R439 | NRSA63D-102X | MG RESISTOR | 1kΩ 1/16W D | |
| R442 | NRSA63D-221X | MG RESISTOR | 220Ω 1/16W D | |
| R443 | NRSA63J-680X | MG RESISTOR | 68Ω 1/16W J | |
| R444 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R461 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R463 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R464 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R465 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R466 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R467 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R468 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R469 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R471 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R472 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R473 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R474 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R475 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R477 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R479 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R480 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R481 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R482 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R483 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R484 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R485 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R486 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R498 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R501 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R503 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R504 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R505 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R506 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R510 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R515 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R516 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R517 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R551 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R552 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R553 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R554 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R555 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R556 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R557 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R558 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R559 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R560 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R561 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R562 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R563 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R565 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R651 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R652 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R655 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R656 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R657 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R658 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R660 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R661 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R663 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R664 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R666 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R667 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R670 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R671 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R672 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R673 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R674 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R675 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R676 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R677 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R678 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R679 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R680 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R701 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R702 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R703 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R704 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R705 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R706 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R707 | NRSA63J-752X | MG RESISTOR | 7.5kΩ 1/16W J | |
| R708 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R709 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R716 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R717 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R718 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | |
| R719 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R720 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R723 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R724 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R725 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R726 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R727 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R728 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R731 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R732 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R748 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R751 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | |
| R752 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R753 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R754 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R755 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R756 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J | |
| R759 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R760 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R761 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R762 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R763 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R764 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R765 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R766 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R767 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R768 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R769 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R770 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R771 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R773 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R774 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R775 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R776 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R777 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R778 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R779 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R780 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R781 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R783 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R784 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R785 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R786 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R787 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R788 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R789 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R790 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R791 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R792 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R793 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R798 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R799 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R801 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R802 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R803 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R804 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R805 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R806 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R807 | NRSA63J-752X | MG RESISTOR | 7.5kΩ 1/16W J | |
| R808 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R809 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R816 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R817 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R818 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | |
| R819 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R849 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R851 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | |
| R852 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R853 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R854 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R855 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R856 | NRSA63J-155X | MG RESISTOR | 1.5MΩ 1/16W J | |
| R859 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R860 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R861 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R862 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| R863 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R864 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R865 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R866 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R867 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R868 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R869 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R870 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R873 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R874 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R875 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R876 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R877 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R878 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R879 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R880 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R883 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R884 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R885 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R886 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R887 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R888 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R889 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R890 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R893 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R899 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R901 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R903 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R904 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R905 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R906 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R907 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R909 | NRSA63J-511X | MG RESISTOR | 510Ω 1/16W J | |
| R911 | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4 | |
| R912 | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4 | |
| R913 | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4 | |
| R914 | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4 | |
| R915 | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4 | |
| R916 | NRZ0040-220X | NET RESISTOR | 22Ω 1/16W J x4 | |
| R918 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R920 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R921 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R927 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R930 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R931 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R932 | NRSA63J-474X | MG RESISTOR | 470kΩ 1/16W J | |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R934 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R937 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R938 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R939 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R940 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R941 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R942 | NRSA63J-683X | MG RESISTOR | 68kΩ 1/16W J | |
| R943 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R946 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R964 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R967 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R968 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R991 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R992 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R993 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R997 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R998 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R999 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RA001 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA002 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA003 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA004 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA005 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA006 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA007 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA008 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA009 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA010 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA011 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA012 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA013 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA014 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA015 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA016 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA017 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA101 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA102 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA103 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA104 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA105 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA106 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA107 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA108 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA109 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA110 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA111 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA112 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA113 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA114 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA115 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA116 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA117 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA118 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA119 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA120 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA121 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA122 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA123 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA124 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA125 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA126 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA127 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA128 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA129 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA130 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA131 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA132 | NRZ0034-122W | NET RESISTOR | 1.2kΩ 1/32W J | |
| RA133 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA134 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA135 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA201 | NRZ0040-103X | NET RESISTOR | 10kΩ 1/16W J x4 | |
| RA203 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA204 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA205 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA206 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA207 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA208 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA209 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA210 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA211 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA212 | NRZ0040-101X | NET RESISTOR | 100Ω 1/16W J x4 | |
| RA213 | NRZ0040-102X | NET RESISTOR | 1kΩ 1/16W J x4 | |
| RA214 | NRZ0040-102X | NET RESISTOR | 1kΩ 1/16W J x4 | |
| RA461 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA462 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA463 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA464 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA465 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA466 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA467 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RA468 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J x4 | |
| RB001 | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J | |
| RB002 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J | |
| RB003 | NRSA63J-560X | MG RESISTOR | 56Ω 1/16W J | |
| RB004 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| RB005 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB006 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| RB009 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| RB010 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| RB011 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| RB015 | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J | |
| RB016 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J | |
| RB017 | NRSA63J-560X | MG RESISTOR | 56Ω 1/16W J | |
| RB018 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB019 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB020 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| RB021 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB022 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| RB023 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| RB024 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| RB028 | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J | |
| RB029 | NRSA63J-563X | MG RESISTOR | 56kΩ 1/16W J | |
| RB030 | NRSA63J-560X | MG RESISTOR | 56Ω 1/16W J | |
| RB031 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB032 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB033 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| RB034 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB035 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| RB036 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| RB037 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| RB051 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB052 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB053 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB054 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| RB055 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| RB056 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB057 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| RB058 | NRSA63J-155X | MG RESISTOR | 1.5MΩ 1/16W J | |
| RB060 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| RB061 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB062 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB067 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB103 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB105 | NRSA63J-331X | MG RESISTOR | 330Ω 1/16W J | |
| RB106 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB108 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| RB110 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB111 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| RB114 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB116 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| RB117 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB119 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| RB121 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB122 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| RB125 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB127 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| RB128 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB130 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| RB132 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB133 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| RB134 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB135 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB136 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB138 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB139 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB140 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| RB141 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB142 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB144 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB145 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB148 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB149 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| RB151 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB152 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB153 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB154 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB155 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB156 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB157 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| RB158 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| RB159 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| RB160 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| RB161 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| RB162 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |

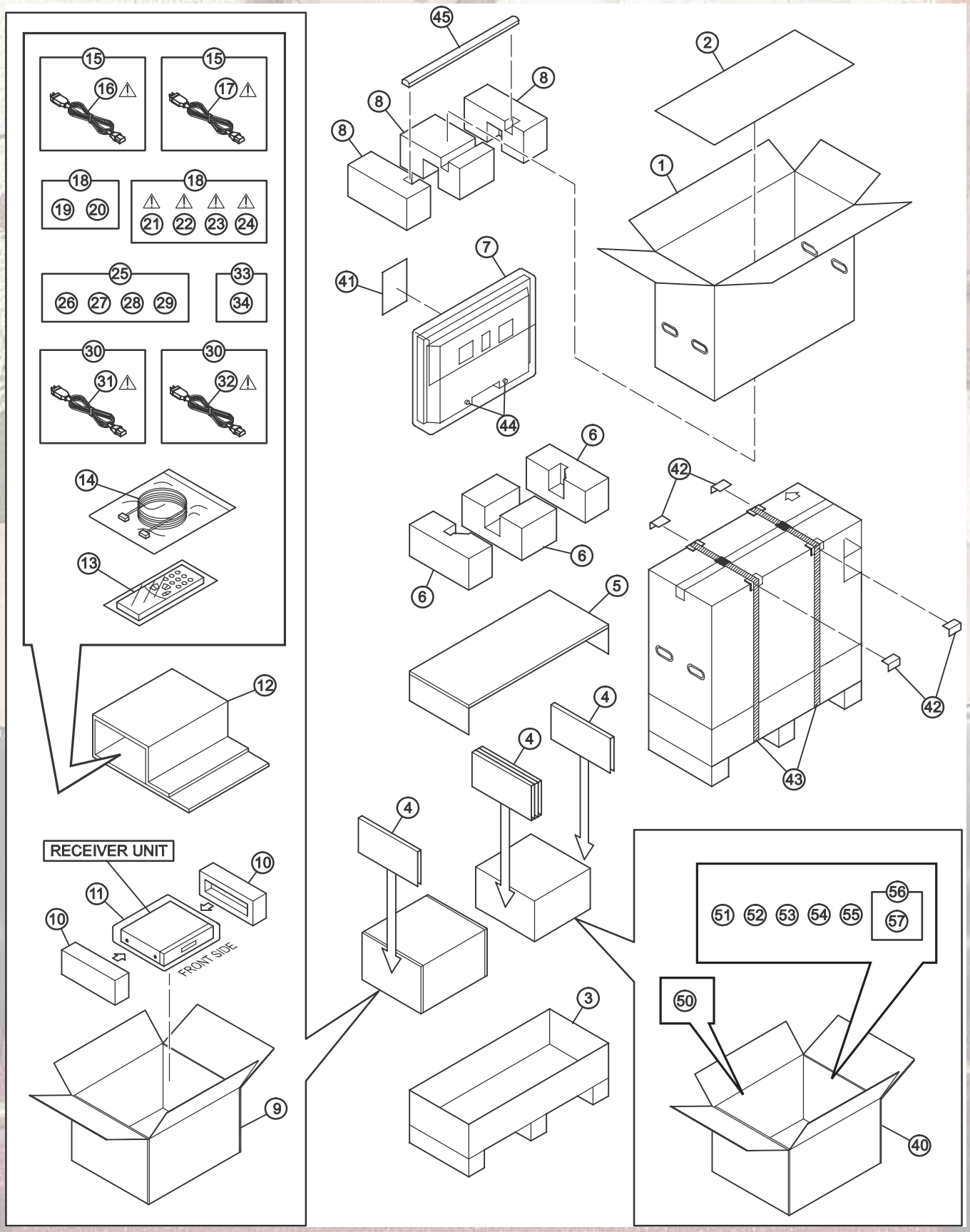
| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| RB206 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| RB211 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB212 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB223 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| RB224 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB225 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB226 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB227 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB228 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| RB229 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| RB230 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| RB235 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB240 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| RB241 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB242 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB243 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB244 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| RB245 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB246 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB247 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| RB248 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| RB249 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| RB250 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| RB251 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| RB252 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| RB253 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB254 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| RB255 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB256 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB257 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| RB258 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB260 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB261 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB262 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB263 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB264 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB265 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB266 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB267 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB301 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB302 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB304 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB305 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB306 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB307 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB308 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB309 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB310 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB311 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB312 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB318 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB319 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| RB320 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB324 | NRSA63J-470X | MG RESISTOR | 47Ω 1/16W J | |
| RB325 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB328 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB329 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB331 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB332 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB333 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| RB334 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| RB335 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| RB336 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| RB337 | NRSA63D-471X | MG RESISTOR | 470Ω 1/16W D | |
| RB338 | NRSA63D-471X | MG RESISTOR | 470Ω 1/16W D | |
| RB339 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB340 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB341 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB342 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB343 | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J | |
| RB344 | NRSA63J-151X | MG RESISTOR | 150Ω 1/16W J | |
| RB345 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB346 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB347 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB349 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB350 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB351 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB352 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB353 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB354 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| RB355 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | |
| RB361 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB362 | NRSA63D-103X | MG RESISTOR | 10kΩ 1/16W D | |
| RB363 | NRVA02D-103X | CMF RESISTOR | 10kΩ 1/10W D | |
| RB364 | NRVA02D-222X | CMF RESISTOR | 2.2kΩ 1/10W D | |
| RB365 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB366 | NRSA63D-473X | MG RESISTOR | 47kΩ 1/16W D | |
| RB367 | NRVA02D-103X | CMF RESISTOR | 10kΩ 1/10W D | |
| RB368 | NRVA02D-682X | CMF RESISTOR | 6.8kΩ 1/10W D | |
| RB375 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB376 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB377 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB401 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB402 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB403 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| RB404 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB405 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB406 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB407 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB408 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB411 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB413 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB415 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB417 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB418 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB420 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB421 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB422 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB424 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB425 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB429 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB431 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB442 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB443 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB444 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB445 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB446 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB447 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB448 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB457 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB458 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB459 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB460 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB461 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB462 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB473 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| RB474 | NRVA02D-562X | CMF RESISTOR | 5.6kΩ 1/10W D | |
| RB475 | NRVA02D-103X | CMF RESISTOR | 10kΩ 1/10W D | |
| RB482 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB483 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| RB502 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| RB511 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB512 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| RB513 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB514 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB515 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB516 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB531 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB532 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| RB533 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB534 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB535 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB536 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB551 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB552 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| RB553 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB554 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB555 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB556 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB571 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB572 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| RB573 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB574 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB575 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB576 | NRSA63J-750X | MG RESISTOR | 75Ω 1/16W J | |
| RB601 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB602 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB604 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| RB605 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB606 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB607 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB608 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB609 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB610 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| RB612 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| RB613 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| RB621 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| L001 | NQR0413-003X | FERRITE BEADS | | |
| L002 | NQR0413-003X | FERRITE BEADS | | |
| L003 | NQR0413-003X | FERRITE BEADS | | |
| L004 | NQR0413-003X | FERRITE BEADS | | |
| L005 | NQR0413-003X | FERRITE BEADS | | |
| L101 | NQL092K-6R8X | P COIL | | 6.8uH K |

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| L302 | NQL092K-3R3X | COIL | 3.3uH K | |
| L401 | NQL092K-6R8X | P COIL | 6.8uH K | |
| L403 | NQR0413-003X | FERRITE BEADS | | |
| L431 | NQL092K-100X | COIL | 10uH K | |
| L461 | NQR0413-003X | FERRITE BEADS | | |
| L462 | NQR0413-003X | FERRITE BEADS | | |
| L501 | NQL092K-2R2X | P COIL | 2.2uH K | |
| L502 | NQL092K-2R2X | P COIL | 2.2uH K | |
| L503 | NQL092K-2R2X | P COIL | 2.2uH K | |
| L504 | NQL092M-220X | P COIL | 22uH M | |
| L691 | NQR0413-003X | FERRITE BEADS | | |
| L707 | NQR0413-003X | FERRITE BEADS | | |
| L708 | NQR0413-003X | FERRITE BEADS | | |
| L751 | NQL092K-6R8X | P COIL | 6.8uH K | |
| L752 | NQL092K-6R8X | P COIL | 6.8uH K | |
| L753 | NQL092K-6R8X | P COIL | 6.8uH K | |
| L754 | NQL092M-270X | P COIL | 27uH M | |
| L761 | NQL034K-220X | P COIL | 22uH K | |
| L762 | NQL034K-101X | P COIL | 100uH K | |
| L763 | NQL034K-220X | P COIL | 22uH K | |
| L764 | NQL034K-101X | P COIL | 100uH K | |
| L765 | NQL034K-101X | P COIL | 100uH K | |
| L766 | NQL034K-220X | P COIL | 22uH K | |
| L767 | NQL034K-220X | P COIL | 22uH K | |
| L768 | NQR0413-003X | FERRITE BEADS | | |
| L769 | NQL092M-180X | P COIL | 18uH M | |
| L807 | NQR0413-003X | FERRITE BEADS | | |
| L808 | NQR0413-003X | FERRITE BEADS | | |
| L809 | NQR0413-003X | FERRITE BEADS | | |
| L851 | NQL092K-6R8X | P COIL | 6.8uH K | |
| L852 | NQL092K-6R8X | P COIL | 6.8uH K | |
| L853 | NQL092K-6R8X | P COIL | 6.8uH K | |
| L854 | NQL092M-270X | P COIL | 27uH M | |
| L861 | NQL034K-220X | P COIL | 22uH K | |
| L862 | NQL034K-101X | P COIL | 100uH K | |
| L863 | NQL034K-101X | P COIL | 100uH K | |
| L864 | NQL034K-101X | P COIL | 100uH K | |
| L865 | NQL034K-220X | P COIL | 22uH K | |
| L866 | NQL034K-220X | P COIL | 22uH K | |
| L867 | NQL034K-220X | P COIL | 22uH K | |
| L868 | NQR0413-003X | FERRITE BEADS | | |
| L869 | NQL092M-180X | P COIL | 18uH M | |
| LB001 | NQL092M-180X | P COIL | 18uH M | |
| LB002 | NQL085J-101X | COIL | 100uH J | |
| LB003 | NQL085J-101X | COIL | 100uH J | |
| LB005 | NQR0413-003X | FERRITE BEADS | | |
| LB007 | NQL092K-2R2X | P COIL | 2.2uH K | |
| LB008 | NQL092K-2R2X | P COIL | 2.2uH K | |
| LB009 | NQL092K-2R2X | P COIL | 2.2uH K | |
| LB101 | NQR0413-003X | FERRITE BEADS | | |
| LB102 | NQR0413-003X | FERRITE BEADS | | |
| LB104 | NQR0413-003X | FERRITE BEADS | | |
| LB106 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| LB107 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| LB109 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| LB201 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| LB202 | NQR0413-003X | FERRITE BEADS | | |
| LB204 | NQR0413-003X | FERRITE BEADS | | |
| LB207 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| K501 | NQR0413-003X | FERRITE BEADS | | |
| K502 | NQR0413-003X | FERRITE BEADS | | |
| K503 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| K901 | NQR0413-003X | FERRITE BEADS | | |
| K902 | NQR0413-003X | FERRITE BEADS | | |
| K903 | NQR0413-003X | FERRITE BEADS | | |
| K905 | NQR0413-003X | FERRITE BEADS | | |
| KB002 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| KB003 | NQR0413-002X | FERRITE BEADS | | |
| KB004 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| KB008 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| KB012 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| KB013 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| KB014 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| KB015 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| KB020 | NQR0413-002X | FERRITE BEADS | | |
| KB021 | NQR0413-002X | FERRITE BEADS | | |
| KB022 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| KB201 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| KB202 | NQR0413-003X | FERRITE BEADS | | |
| LC005 | NQR0483-005X | EMI FILTER | | |
| LC006 | NQR0483-005X | EMI FILTER | | |
| LC008 | NQR0483-005X | EMI FILTER | | |
| LC009 | NQR0483-005X | EMI FILTER | | |
| LC010 | NQR0483-005X | EMI FILTER | | |
| LC011 | NQR0483-005X | EMI FILTER | | |
| LC012 | NQR0416-001X | EMI FILTER | 240pF 16V M | |
| LC013 | NQR0416-001X | EMI FILTER | 240pF 16V M | |
| LC017 | NQR0483-005X | EMI FILTER | | |
| LC018 | NQR0483-005X | EMI FILTER | | |
| LC019 | NQR0483-005X | EMI FILTER | | |
| LC020 | NQR0483-005X | EMI FILTER | | |
| LC021 | NQR0483-005X | EMI FILTER | | |
| LC025 | NQR0483-005X | EMI FILTER | | |
| LC029 | NQR0483-005X | EMI FILTER | | |
| LC030 | NQR0483-005X | EMI FILTER | | |
| LC031 | NQR0483-005X | EMI FILTER | | |
| LC032 | NQR0483-005X | EMI FILTER | | |
| LC051 | NQR0450-008X | EMI FILTER | 2200pF 50V M | |
| LC052 | NQR0450-008X | EMI FILTER | 2200pF 50V M | |
| LC053 | NQR0450-008X | EMI FILTER | 2200pF 50V M | |
| LC401 | NQR0450-004X | EMI FILTER | 100pF 50V M | |
| LC601 | NQR0483-005X | EMI FILTER | | |
| X101 | NAX0539-001X | CXO | 10.000MHz | |
| X301 | NAX0118-001X | CRYSTAL | 20.000MHz | |
| X401 | NAX0632-001X | CXO | | |
| X701 | QAX0305-001 | CRYSTAL | 16.200MHz | |
| X801 | QAX0305-001 | CRYSTAL | 16.200MHz | |
| Y802 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| Y803 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| | LC21236-001C | SHIELD BASE | | |
| | LC21237-001B | SHIELD COVER(1) | | |
| | LC21238-001B | SHIELD COVER(2) | | |

## DIST RELAY PW BOARD ASS'Y (SMK0Z312A-U2)

| ⚠Ref No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| CN015 | QGC2507C1-96 | CONNECTOR | | |
| | LC32119-001B | SHIELD FRAME | | |

# PACKING PARTS LIST

| ⚠ | Ref.No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|---|
| | 1 | AEM1102-001A-U | CARTON SLEEVE | | |
| | 2 | AEM3394-001A-U | TOP PAD | | |
| | 3 | AEM1101-001A-U | CARTON BASE | | |
| | 4 | AEM3393-001A-U | SEPARATOR | (x5) | |
| | 5 | AEM3390-001A-U | LAYER PAD | | |
| | 6 | AEM1100-001A-E | BOTTOM CUCHION ASS'Y | 3pcs in 1set | |
| | 7 | AEM1047-A02-E | FOAM BAG | | |
| | 8 | AEM1099-001A-E | TOP CUSHION ASS'Y | 3pcs in 1set | |
| | 9 | AEM3396-001A-U | RECEIVER BOX | | |
| | 10 | AEM3364-001B-U | RECEIVER CUSHION | (x2) | |
| | 11 | PQM30021-105 | POLY BAG | | |
| | 12 | AEM3395-001A-U | ACCESSORY PAD | | |
| | 13 | RM-C1808-1C | REMOCON UNIT | Inc.POLY BAG | |
| | 14 | QAM0449-001 | PDP I/F CABLE | SYSTEM CABLE 3m Inc.POLY BAG | |
| | 15 | QPA01203005 | POLY BAG | 12cm x 30cm(x2) | PD-42V31BJE,PD-42V31BUE |
| | 15 | QPA01203005 | POLY BAG | 12cm x 30cm | PD-42V31BSE |
| ⚠ | 16 | QMPL050-250-K | POWER CORD(EU) | 2.5m BLACK | PD-42V31BJE,PD-42V31BUE |
| ⚠ | 16 | QMPL238-250-K | POWER CORD(EU) | 2.5m GRAY | PD-42V31BSE |
| ⚠ | 17 | QMPP070-250-K | POWER CORD(EK) | 2.5m BLACK | PD-42V31BJE,PD-42V31BUE |
| | 18 | AEM3021-002B-E | DOCUMENT BAGS | (x2) | |
| | 19 | LCT1444-001A-U | CAUTION BOOK | English/German/French/Russian/Spanish/Italian/Dutch | |
| | 20 | BT-54013-6E | WARRANTY CARD | | PD-42V31BJE,PD-42V31BUE |
| | 20 | BT-54013-7E | WARRANTY CARD | | PD-42V31BSE |
| | 21 | LCT1440-001A-U | INST BOOK | English/German/French | |
| | 22 | LCT1441-001A-U | INST BOOK | Dutch/Italian/Spanish/Portuguese | PD-42V31BJE,PD-42V31BUE |
| | 23 | LCT1442-001A-U | INST BOOK | Norwegian/Finn/Danish/Swedish | PD-42V31BJE,PD-42V31BUE |
| | 24 | LCT1443-001A-U | INST BOOK | Bularion/Czech/Hungarian/Polish/Romanian/Russian | PD-42V31BJE,PD-42V31BUE |
| | 25 | QPA02503505P | POLY BAG | 25cm x 35cm | |
| | 26 | ---------- | BATTERY | AA/R6 (x2) | |
| | 27 | QYSPSPD5016M | SCREW | For MOUNTING HOOK 5mm x 16mm(x2) | |
| | 28 | QQR1193-002 | CORE FILTER | For POWER CORD(x2) | |
| | 29 | LC41320-001A | NYRON CLUMP | HOOK(x2) | |
| | 30 | QPA01203005 | POLY BAG | 12cm x 30cm(x2) | PD-42V31BJE,PD-42V31BUE |
| | 30 | QPA01203005 | POLY BAG | 12cm x 30cm | PD-42V31BSE |
| ⚠ | 31 | QMPL050-250-K | POWER CORD(EU) | 2.5m BLACK | PD-42V31BJE,PD-42V31BUE |
| ⚠ | 31 | QMPL238-250-K | POWER CORD(EU) | 2.5m GRAY | PD-42V31BSE |
| ⚠ | 32 | QMPP070-250-K | POWER CORD(EK) | 2.5m BLACK | PD-42V31BJE,PD-42V31BUE |
| | 33 | QPA01001607 | POLY BAG | 10cm x 16cm | |
| | 34 | QQR1193-002 | CORE FILTER | For POWER CORD(x2) | |
| | 40 | AEM3392-001A-U | STAND/BKT BOX | | |
| | 41 | LC41750-001A | INST SHEET | Caution of carrying | |
| | 42 | AEM3363-001A-U | EDGE PROTECTOR | (x4) | |
| | 43 | AEM4119-002A-U | BANDING | (x2) | |
| | 44 | AEM4160-001A-U | ADJUSTER | (x2) | PD-42V31BUE |
| | 45 | AEM2290-001A-U | CABLE PAD | | PD-42V31BUE |
| | 50 | LC32465-001A-U | STAND UNIT | | PD-42V31BJE |
| | 51 | AEM3397-001A-U | PANEL BRACKET | Inc.POLY BAG(x2) | PD-42V31BUE |
| | 52 | AEM2294-001A-U | WALL BRACKET | Inc.POLY BAG | PD-42V31BUE |
| | 53 | LCT1500-001B-U | INST BOOK | English/German/French/Dutch/Spanish/Italian | PD-42V31BUE |
| | 54 | AEM1095-004A-U | LOCATION SHEET | For WALL BRACKET | PD-42V31BUE |
| | 55 | AEM2293-001B-U | CAUTION SHEET | | PD-42V31BUE |
| | 56 | AEM4171-001A-U | POLY BAG | | PD-42V31BUE |
| | 57 | QYSPSPD5016N | SCREW | For WALL BRACKET | PD-42V31BUE |

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