

JVC

SERVICE MANUAL

WIDE LCD PANEL TELEVISION

Y0209

LT-Z32SX4B, LT-Z32SX4B_{/A}, LT-Z32SX4B_{/S}, LT-Z32SX4S_{/S}



BASIC CHASSIS

FL

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

**CINEMA
SURROUND**

BBE

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SPECIFICATION

Items		Contents
Dimensions (W × H × D)		83.4cm × 63.2 cm × 30.0 cm [Included stand] 83.4cm × 56.8 cm × 10.8 cm [TV only]
Mass		20.6kg [Included stand] 17.3kg [TV only]
Power Input		AC110V - AC240 V, 50 Hz / 60 Hz
Power Consumption		161W (Standby: 2.8W)
TV RF System		B, G, I, D, K, K1, M
Colour System		PAL / SECAM / NTSC 3.58 / NTSC 4.43
Stereo System		A2 (B/G, D/K), NICAM (B/G, I, D/K)
Teletext System		FLOF (Fastext), TOP, WST (World Standard System)
Receiving Frequency	VHF Low VHF High UHF CATV	46.25MHz - 168.25MHz 175.25MHz - 463.25MHz 471.25MHz - 863.25MHz Mid (X - Z+2, S1 - S10) / Super (S11 - S20) / Hyper (S21 - S41) bands
Intermediate Frequency	VIF SIF	38.0MHz (B, G, I, D, K, L) 32.26MHz (5.74MHz: B), 32.15MHz (5.85MHz: G), 31.45MHz (6.55MHz: I) 31.75MHz (6.25MHz: D), 32.15MHz (5.85MHz: K)
Colour Sub Carrier	PAL SECAM NTSC	4.43MHz 4.40625MHz / 4.25MHz 3.58MHz / 4.43MHz
LCD panel		32V-inch wide aspect (16:9)
Screen Size		Diagonal : 80cm (H:69.7cm × V : 39.2cm)
Display Pixels		Horizontal : 1366 dots × Vertical : 768 dots (W-XGA)
Audio Power Output		10W + 10W
Speaker		6.6cm, round type × 2 (Oblique corn)
Aerial terminal (VHF/UHF)		75Ω unbalanced, coaxial
Video / Audio Input-1/2/3	Component Video [Input-1/3] 1125i 625p / 525p 625i / 525i S-Video [Input-1/2] Video Audio	Component connector (2-row 14-pin × 1) (Input-1) RCA pin jack × 3 (Input-3) Y : 1V (p-p) (Sync signal: ±0.35V(p-p), 3-value sync.), 75 Ω Pb/Pr : ±0.35V(p-p), 75 Ω Y : 1V (p-p), Positive (Negative sync provided), 75 Ω Pb/Pr : 0.7V(p-p), 75 Ω Mini-DIN 4 pin connector × 2 Y: 1V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 3 500mV (rms), High impedance, RCA pin jack × 6
Video / Audio Output	S-Video Video Audio	Mini-DIN 4 pin connector × 1 Y: 1V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1 500mV (rms), Low impedance, RCA pin jack × 2
PC (RGB) Input		D-sub 15pin × 1 R/G/B : 0.7V (p-p), 75Ω HD / VD : 1V (p-p) to 5V (p-p), high impedance < Available signal > VGA : 640 pixels × 480 pixels (Horizontal : 31.5kHz / Vertical : 60Hz) XGA : 1024 pixels × 768 pixels (Horizontal : 48.4kHz / Vertical : 60Hz)
Audio Output		500mV (rms), Low impedance, RCA pin jack × 2
Headphone		3.5mm stereo mini jack × 1
Remote Control Unit		RM-C1830H (AA/R6 dry cell battery × 2)

Design & specifications are subject to change without notice.

SECTION 1 PRECAUTION

1.1 SAFETY PRECAUTIONS

- (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 (Δ) 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 : ($\perp$) side GND, the ISOLATED (NEUTRAL) : ($\equiv$) side GND and EARTH : ($\oplus$) 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) 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.

(6) 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

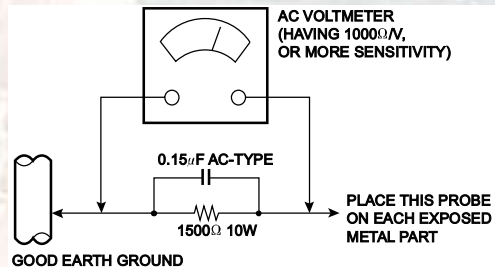
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated 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

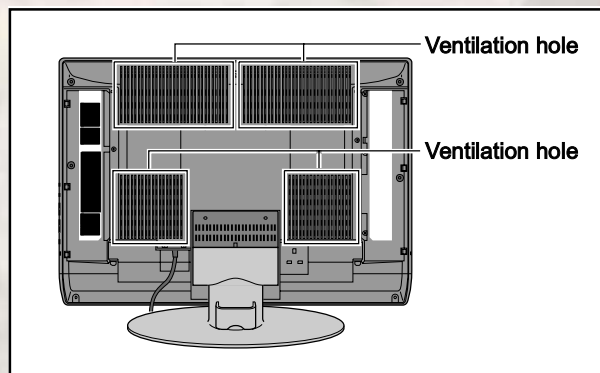
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 Ω per volt or more sensitivity in the following manner. Connect a 1500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part 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 INSTALLATION

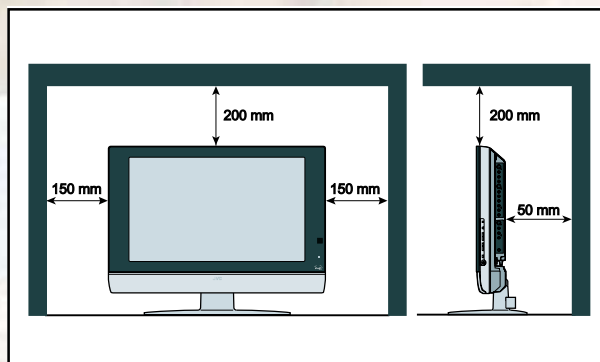
1.2.1 HEAT DISSIPATION

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.



1.2.2 INSTALLATION REQUIREMENTS

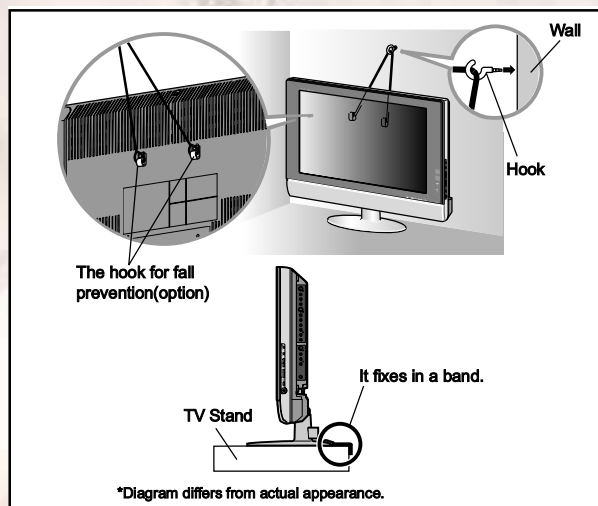
Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc. Install the unit on stable flooring or stands. Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.



1.2.3 INSTALLATION REQUIREMENTS

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 (OPTION) to the back of the TV, and use commercially available cord to fix the TV to rigid components such as walls and columns.



1.2.4 NOTES ON HANDLING

- (1) WHEN TAKING UNIT OUT OF A PACKING CASE
When taking the unit out of a packing case, do not grasp the upper part of the unit. If you take the unit out while grasping the upper part, the LCD PANEL may be damaged because of a pressure. Instead of grasping the upper part, put your hands on the lower backside or sides of the unit.
- (2) AS FOR PRESSING OR TOUCHING A SPEAKER
Be careful not to press the opening of the speaker in the lower part of the unit and around them since the decorative sheet on the surface of the openings may be deformed.

1.3 HANDLING LCD PANEL

1.3.1 PRECAUTIONS FOR TRANSPORTATION

When transporting the unit, pressure exerted on the internal LCD panel 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 before delivery, such as through explaining the handling instructions to transporters.

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

- (1) **USE A SPECIAL PACKING CASE FOR THE LCD PANEL**
When transporting the LCD panel of the unit, use a special packing case (packing materials). A special packing case is used when a LCD panel is supplied as a service spare part.
- (2) **ATTACH PROTECTION SHEET TO THE FRONT**
Since the front (display part) of the panel is vulnerable, attach the protection sheet to the front of the LCD panel before transportation. Protection sheet is used when a LCD panel is supplied as a service spare part.
- (3) **AVOID VIBRATIONS AND IMPACTS**
The unit may be broken if it is toppled sideways even when properly packed. Continuous vibration may shift the gap of the panel, and the unit may not be able to display images properly. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.
- (4) **DO NOT PLACE EQUIPMENT HORIZONTALLY**
Ensure that it is placed upright and not horizontally during transportation and storage as the LCD panel is very vulnerable to lateral impacts and may break. During transportation, ensure that the unit is loaded along the traveling direction 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.

1.3.2 OPTICAL FILTER (ON THE FRONT OF THE LCD PANEL)

- (1) Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and COLOUR.
- (2) Clean the filter surface by wiping it softly and lightly with a soft and lightly fuzz cloth (such as outing flannel).
- (3) Do not use solvents such as benzene 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. When cleaning the filter, usually use the neutral detergent diluted with water. When cleaning the dirty filter, use water-diluted ethanol.
- (4) Since the filter surface is fragile, do not scratch or hit it with hard materials. Be careful enough not to touch the front surface, especially when taking the unit out of the packing case or during transportation.

1.3.3 PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (REAR COVER, FRONT PANEL, etc.):

- (1) Do not exert pressure on the front of the LCD panel (filter surface). It may cause irregular COLOUR.
- (2) Pay careful attention not to scratch or stain the front of the LCD panel (filter surface) with hands.
- (3) When replacing exterior parts, the front (LCD panel) should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front (filter surface).

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

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

This system uses line interpolation to double the number of scanning lines and achieve high resolution, flicker-free picture.

COLOUR MANAGEMENT

This function ensures dull colours are compensated to produce natural hues.

PICTURE MANAGEMENT

This function makes it easier to see the dark areas when a picture has many dark areas, and makes it easier to see the bright areas when a picture has many bright areas.

ZOOM

This function can change the screen size according to the picture aspect ratio.

DIGITAL VNR

This function cuts down the amount of noise in the original picture.

SUPER DIGIPURE

This function uses the latest in digital technology to give you a natural-looking picture.

MOVIE THEATRE

This function displays a cinema film picture more smoothly and naturally on the screen.

3D CINEMA SOUND

You can enjoy sounds with a wider ambience.

2.2 MAIN DIFFERENCE LIST

Item	LT-Z32SX4B	LT-Z32SX4B/A	LT-Z32SX4B/S	LT-Z32SX4S/S
FRONT PANEL COLOUR	BLACK	←	←	SILVER
POWER CORD	Round pin (2-pin) type	Australia pin (2-pin) type	UK pin (3-pin) type	←
SHIELD COVER (DIGITAL SIGNAL PWB)	Not used	←	Used	←
TOP SHIELD CASE (DIGITAL SIGNAL PWB)	Not used	Not used	Used	←
SIDE SHIELD CASE (DIGITAL SIGNAL PWB)	Not used	Not used	Used	←
DIGITAL SIGNAL P.W.B	LCA10428-67B(SFL-0D305A)	LCA10428-69B(SFL-0D307A)	LCA10428-68B(SFL-0D306A)	←

2.3 TECHNICAL INFORMATION

2.3.1 LCD PANEL

This unit uses the flat type panel LCD (Liquid Crystal Display) panel that occupies as little space as possible, instead of the conventional CRT (Cathode Ray Tube), as a display unit.

Since the unit has the two polarizing filter that are at right angles to each other, the unit adopts "normally black" mode, where light does not pass through the polarizing filter and the screen is black when no voltage is applied to the liquid crystals.

2.3.1.1 SPECIFICATIONS

The following table shows the specifications of this unit.

Item	Specifications	Remarks
Maximum dimensions (W x H x D)	761mm x 451mm x 51mm	
Weight	8.0kg	
Effective screen size	Diagonal: 800.4mm (H:697.7mm x V : 392.3mm)	32V type
Aspect ratio	16 : 9	
Drive device / system	a-Si-TFT, active matrix system	
Resolution	Horizontally 1366 x Vertically 768 x RGB <W-XGA>	3147264 dots in total
Pixel pitch (pixel size)	Horizontally:0.51075mm, Vertically:0.51075mm	
Displayed colour	16777216 colours	256 colours for R, G, and B
Brightness	500cd/m ²	
Contrast ratio	1000: 1	
Response time	8ms	
View angle	Horizontally: 170°, Vertically: 170°	
Surface polarizer	Anti-Glare type, Low reflective coat	
Colour filter	Vertical stripe	
Backlight	Dyrect-type Cold cathode fluorescent lamp x 16	
Power supply voltage in LCD	6.5V	
Power supply voltage in inverter	18V	
Panel interface system	LVDS (Low Voltage Differential Signaling)	

2.3.1.2 PIXEL FAULT

There are three pixel faults - bright fault , dark fault and flicker fault - that are respectively defined as follows.

■ BRIGHT FAULT

In this pixel fault, a cell that should not light originally is lighting on and off.

For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

■ DARK FAULT

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting.

For checking this pixel fault, input 100% of each R/G/B colour and find out the cell that is not lighting.

■ FLICKER FAULT

In the pixel fault, a cell that should light originally or not light originally is flashing on and off.

For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB colour and find out the cell that is flashing on and off.

2.3.2 MAIN CPU PIN FUNCTION [IC7501 : DIGITAL SIGNAL PWB ASS'Y]

Pin	Pin name	I/O	Function	Pin	Pin name	I/O	Function
1	TCK	I	Test purpose	65	D2	I/O	Program ROM data for main CPU
2	TMS	I	Test purpose	66	D12	I/O	Program ROM data for main CPU
3	TDI	I	Test purpose	67	D10	I/O	Program ROM data for main CPU
4	TDO	O	Test purpose	68	VSS33	-	GND
5	P2.8	O	Not used	69	VDD33	I	3.3V
6	P2.9	O	Blue for OSD	70	D4	I/O	Program ROM data for main CPU
7	P2.10	O	Blue for OSD	71	D3	I/O	Program ROM data for main CPU
8	P2.11	O	Blue for OSD	72	D11	I/O	Program ROM data for main CPU
9	P2.12	O	Blue for OSD	73	RSTIN	I	Reset
10	P2.13	O	Blue for OSD	74	POWER	O	Sleep state release for chassis CPU [Release : L]
11	P2.14	I	Not used	75	P3.1	O	Not used
12	P2.15	O	Request for chassis CPU communication	76	REMOCN	I	Remote control
13	VSS33	-	GND	77	P3.3	I	Clock for OSD
14	VDD33	I	3.3V	78	P3.4	O	Red for OSD
15	P4.5	O	Not used	79	P3.5	O	Red for OSD
16	A20	O	Program ROM address for main CPU	80	P3.6	O	Red for OSD
17	A19	O	Program ROM address for main CPU	81	P3.7	O	Red for OSD
18	A18	O	Program ROM address for main CPU	82	MTST	O	Data transmission for chassis CPU communication
19	A17	O	Program ROM address for main CPU	83	MTSR	I	Data receive for chassis CPU communication
20	VSS25	-	GND	84	VSS33	-	GND
21	VDD25	I	2.5V	85	VDD33	I	3.3V
22	A16	O	Program ROM address for main CPU	86	VSS25	-	GND
23	A8	O	Program ROM address for main CPU	87	VDD25	I	2.5V
24	A7	O	Program ROM address for main CPU	88	TXD0	O	Communication for adjustment
25	A9	O	Program ROM address for main CPU	89	RXD0	O	Communication for adjustment
26	A6	O	Program ROM address for main CPU	90	P3.12	O	Red for OSD
27	A5	O	Program ROM address for main CPU	91	CLK	O	Clock for chassis CPU communication
28	A10	O	Program ROM address for main CPU	92	P3.15	O	Green for OSD
29	A11	O	Program ROM address for main CPU	93	P5.14	O	Green for OSD
30	A12	O	Program ROM address for main CPU	94	P5.15	O	Green for OSD
31	VSS33	-	GND	95	TRIG_IN	O	Green for OSD
32	VDD33	I	3.3V	96	TRIG_OUT	O	Green for OSD
33	A4	O	Program ROM address for main CPU	97	P6.2	O	Green for OSD
34	A3	O	Program ROM address for main CPU	98	P6.3	O	I ² C bus clock (for main memory)
35	A2	O	Program ROM address for main CPU	99	P6.4	I/O	I ² C bus Data (for main memory)
36	A1	O	Program ROM address for main CPU	100	P6.5	O	Teletext signal select [Analog RGB : H / Digital RGB : L]
37	A0	O	Program ROM address for main CPU	101	IRQ	O	Not used
38	A13	O	Program ROM address for main CPU	102	VSYNC	I	Vertical sync
39	ARAS/A14	O	Program ROM address for main CPU	103	HSYNC	I	Horizontal sync
40	CAS/A15	O	Program ROM address for main CPU	104	COR/RSTOUT	O	Not used
41	VSS33	-	GND	105	BLANK	O	Ys for OSD / Teletext
42	VDD33	I	3.3V	106	VDD33	I	3.3V
43	MEMCLK	O	Clock for memory	107	VSS33	-	GND
44	CSSDRAM	O	Chip select for memory	108	XTAL1	I	6MHz for system clock
45	CLKEN	O	Clock enable for memory	109	XTAL2	O	6MHz for system clock
46	CSROM	O	Chip select for memory	110	VSSA	-	GND
47	RD	O	Read for memory	111	VDDA	I	2.5V
48	UDQM	O	Control buffer of memory	112	R	O	R for OSD / Teletext
49	LDQM	O	Control buffer of memory	113	G	O	G for OSD / Teletext
50	WR	O	Write for memory	114	B	O	B for OSD / Teletext
51	D15	I/O	Program ROM data for main CPU	115	VSSA	-	GND
52	VSS33	-	GND	116	VDDA	I	2.5V
53	VDD33	I	3.3V	117	CVBS2	I	Video for Teletext
54	D7	I/O	Program ROM data for main CPU	118	VSSA	-	GND
55	D0	I/O	Program ROM data for main CPU	119	VDDA	I	2.5V
56	D14	I/O	Program ROM data for main CPU	120	CVBS1B	I	Video for Teletext
57	D8	I/O	Program ROM data for main CPU	121	CVBS1A	I	Video for Teletext
58	D6	I/O	Program ROM data for main CPU	122	VSSA	-	GND
59	D1	I/O	Program ROM data for main CPU	123	VDDA	I	2.5V
60	VSS33	-	GND	124	KEY1	I	Key scan data 1 [ON : H]
61	VDD33	I	3.3V	125	KEY2	I	Key scan data 2 [ON : H]
62	D13	I/O	Program ROM data for main CPU	126	MECA_SW	I	Main power ON / OFF control [ON : L]
63	D9	I/O	Program ROM data for main CPU	127	P5.3	I	Not used
64	D5	I/O	Program ROM data for main CPU	128	TMODE	I	Test purpose

2.3.3 SUB (CHASSIS) CPU PIN FUNCTION [IC7001 : DIGITAL SIGNAL PWB ASS'Y]

Pin	Pin name	I/O	Function	Pin	Pin name	I/O	Function
1	LB_PRO	O	Not used	51	BS_TXD	O	Not used : Data transmission for digital tuner communication
2	P_MU	O	Picture muting [Muting = H]	52	BS_RXD	I	Not used : Data receive for digital tuner communication
3	JP_CSB	O	Not used (NC)	53	NC	O	Not used (NC)
4	A_MU	O	Audio muting [Muting = H]	54	VREF+	I	3.3V power supply
5	M_MU	O	Audio muting (for AUDIO OUT) [Muting = H]	55	PDP_TX	O	Data transmission for SUB (DRIVE) CPU communication
6	PC_SEL	O	RGB(PC) INPUT select	56	PDP_RX	I	Data receive for SUB (DRIVE) CPU communication
7	ON_TIMER	O	POWER INDICATOR (LED) brightness [LOW = L]	57	SDA0	I/O	Data for Inter IC (serial) bus : EEPROM (IC7002)
8	ILA0	O	Not used : LCD back light lighting	58	SCL0	O	Clock for Inter IC (serial) bus : EEPROM (IC7002)
9	ILA1	O	Not used : LCD panel overshoot refresh timing	59	SDA_DVI	I/O	Not used : Data for Inter IC (serial) bus for panel communication
10	ILA2	O	Not used	60	SCL_DVI	O	Not used : Clock for Inter IC (serial) bus for panel communication
11	POW_LED	O	POWER LED lighting [ON = H]	61	AVSS	-	GND
12	WORD	O	Not used	62	DIGI_PHOT	I	Not used: Photo sensor for DIGITAL-IN illegal copy protection
13	MI_CK	I	Clock for main CPU communication	63	AGC	I	Not used
14	MI_TX	I	Data receive for main CPU communication	64	EXT_YS1	I	Not used
15	MI_RX	O	Data transmission for MAIN CPU communication	65	EXT_YS2	I	Not used
16	MI_REQ	O	Data request for main CPU communication [Request = L]	66	VDD	I	3.3V power supply
17	VDD	I	3.3V power supply	67	DIGI_PRO	O	Not used : For DIGITAL-IN (HDMI)
18	FOSC	O	Not used (NC)	68	GCR_RST	O	Not used (NC)
19	VSS	-	GND	69	GR_ON	O	Not used (NC)
20	X1	I	Not used : Low speed oscillator	70	SYNC_SEL	O	Not used : Sync select for digital tuner
21	X0	O	Not used : Low speed oscillator	71	NC	O	Not used (NC)
22	VDD	I	3.3V power supply	72	NC	O	Not used (NC)
23	OSC1	I	System clock oscillation (crystal) : 16MHz	73	SBD5	I/O	Not used : Data for writing on board (connect CN01P : for Frash ROM type)
24	OSC0	O	System clock oscillation (crystal) : 16MHz	74	SBT5	I	Not used : Clock for writing on board (connect CN01P : for Frash ROM type)
25	MODE	I	Single chip mode	75	NMI	I	3.3V power supply
26	BS1.5CTL	O	Not used : Digital tuner power / reset control	76	COMP	I	Not used : AV COMPULINK III control
27	A92RES	O	Reset for IC1001(3DYC SEP / COLOUR DEMODULAT) [Reset = H]	77	REMO	I	Remote control
28	BS_RST	O	Not used: Reset for Digital tuner power / reset control	78	VSYN	I	V. sync pulse
29	LIP_RST	O	Not used: Reset for Sound delay (Lip sync)	79	WAKE	I	Reset for sub(chassis) CPU
30	SOFT_OFF	O	Not used	80	POWERGOOD	I	Power error detection [NG = H]
31	VMUTE	I	Not used: Picture muting request from digital tuner	81	NC	O	Not used (NC)
32	VOUTENB	O	Not used: Video cutoff for digital tuner	82	RST	I	Reset for MAIN CPU [Reset = L]
33	MDR_CON	I	Not used: System cable connection monitor for PDP	83	VDD	I	3.3V power supply
34	AVDD	I	3.3V power supply	84	SCL3A	O	Clock for Inter IC (serial) bus control
35	BS_POW	O	Not used : Digital tuner power control	85	SDA3A	I/O	Data for Inter IC (serial) bus control
36	DsyncSW2	O	Sync select for DIGITAL-IN [Cotrolled with 99-pin]	86	SCL3B	O	Clock for Inter IC (serial) bus control
37	LB_POW	O	Not used : Power control for low bias line	87	SDA3B	I/O	Data for Inter IC (serial) bus control
38	NC	O	Not used (NC)	88	DIGI_SYNCSEL	O	Not used
39	HOTPLUG	I	Not used : Video communication monitor for receiver unit (PDP)	89	DIGI_LRSW	O	Not used : For DIGITAL-IN (HDMI)
40	MECA_SW	I	Mechanical monitor for POWER switch [Push = L]	90	DIGI_INT	I	Not used : Reset for HDMI process [Reset = L]
41	MAIN_POW	O	Main power control [ON = L]	91	DVI_RST	O	Not used : Reset for DVI format conversion
42	MSP_RST	O	AUDIO OUT output mode select [VARIABLE = L]	92	VSS	-	GND
43	VREF-	I	Not used	93	SCL5055	O	Clock for Inter IC (serial) bus : JCC5055 (DIST process)
44	AFT2	I	Not used : AFT voltage for sub tuner	94	VFORMATSEL	O	Not used : Digital tuner clock control
45	AFT1	I	AFT voltage for VHF/UHF tuner	95	SDA5055	I/O	Data for Inter IC (serial) bus : JCC5055 (DIST process)
46	KEY2	I	Key scan data for front switch (MENU/CH+/CH-)	96	OSD_MODE_SEL	O	Not used : OSD mode select
47	KEY1	I	Key scan data for front switch (VOL+/VOL-)	97	NC	O	Not used (NC)
48	NC	O	Not used (NC)	98	15K/OTH	O	Main video select [Fixed = H]
49	NC	O	Not used (NC)	99	DsyncSW1	O	Not used : Sync select for DIGITAL-IN [Cotrolled with 36-pin]
50	AC_IN	I	AC power pulse for timer clock	100	57 BUSY	I	Busy monitor for JCC5057 (New DIST process)

SECTION 3 DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

NOTE:

- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

3.1.1 REMOVING THE STAND (Fig.1)

- (1) Remove the 2 screws [A], then remove the STAND COVER.
- (2) Remove the 4 screws [B], then remove the STAND.

3.1.2 REMOVING THE REAR COVER (Fig.1)

- Remove the STAND.
 - (1) Remove the JACK COVER (L/R).
 - (2) Remove the 7 screws [C], the 4 screws [D], and the 1 screws [E].
 - (3) Remove the REAR COVER.

3.1.3 REMOVING THE POWER PWB / REGULATOR PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
 - (1) Remove the 5 screws [F], then remove the FAN BRACKET.
 - (2) Remove the 1 screw [G], then remove the POWER CORD HOLDER.
 - (3) Remove the POWER CORD from the POWER PWB.
 - (4) Remove the REGULATOR PWB.
 - (5) Remove the 5 screw [H], then remove the POWER PWB.

3.1.4 REMOVING THE ANALOG SIGNAL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
 - (1) Remove the 6 screws [J] then remove the TERMINAL BASE.
 - (2) Remove the 6 screws [K] and the 2 hex screws [W] then remove the ANALOG SIGNAL PWB.

3.1.5 REMOVING THE FRONT CONTROL PWB CONTROL / FRONT SENSOR PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
 - (1) Remove the 2 screws [L], then remove the CONTROL KNOB ASSY.
 - (2) Remove the 2 screws [M], then remove the FRONT CONTROL PWB.
 - (3) Remove the FRONT SENSOR PWB.

3.1.6 REMOVING THE RECEIVER PWB / CONNECTOR PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
 - (1) Remove the 3 screws [U], then remove the TUNER BASE and SIDE SHIELD CASE.
 - (2) Remove the 4 screws [O] then remove the RECEIVER PWB.
 - (3) Remove the 4 screws [P] then remove the RECEIVER PWB BRACKET.
 - (4) Remove the 2 screws [Q] then remove the CONNECTOR PWB.

3.1.7 REMOVING THE DIGITAL SIGNAL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the TUNER BASE.
 - (1) Remove the 9 screws [S] and the 3 screws [T], then remove the SHIELD COVER.
 - (2) Remove the 5 screws [V], then remove the DIGITAL SIGNAL PWB.

3.1.8 REMOVING THE SPEAKER (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
 - (1) Remove the 5 screws [a], then remove the SPEAKER BOX.
 - (2) Remove the 4 screws [b], then remove the SPEAKER (L /R).
 - (3) Remove the 4 screws [c], then remove the DUCT(L/R).

NOTE:

Since the speaker is attached in a certain direction, attach the speaker in the same correct direction as it has been attached.

3.1.9 REMOVING THE LCD PANEL UNIT (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
 - (1) Remove the 6 screws [d] and the 4 screws [e].
 - (2) Remove the LCD PANEL UNIT.
 - (3) Remove the 7 screws [f]. then remove the MAIN BASE.
 - (4) Remove the 2 screws [g]. then remove the TOP FRAME.
 - (5) Remove the 2 screws [h]. then remove the BOTTOM FRAME.

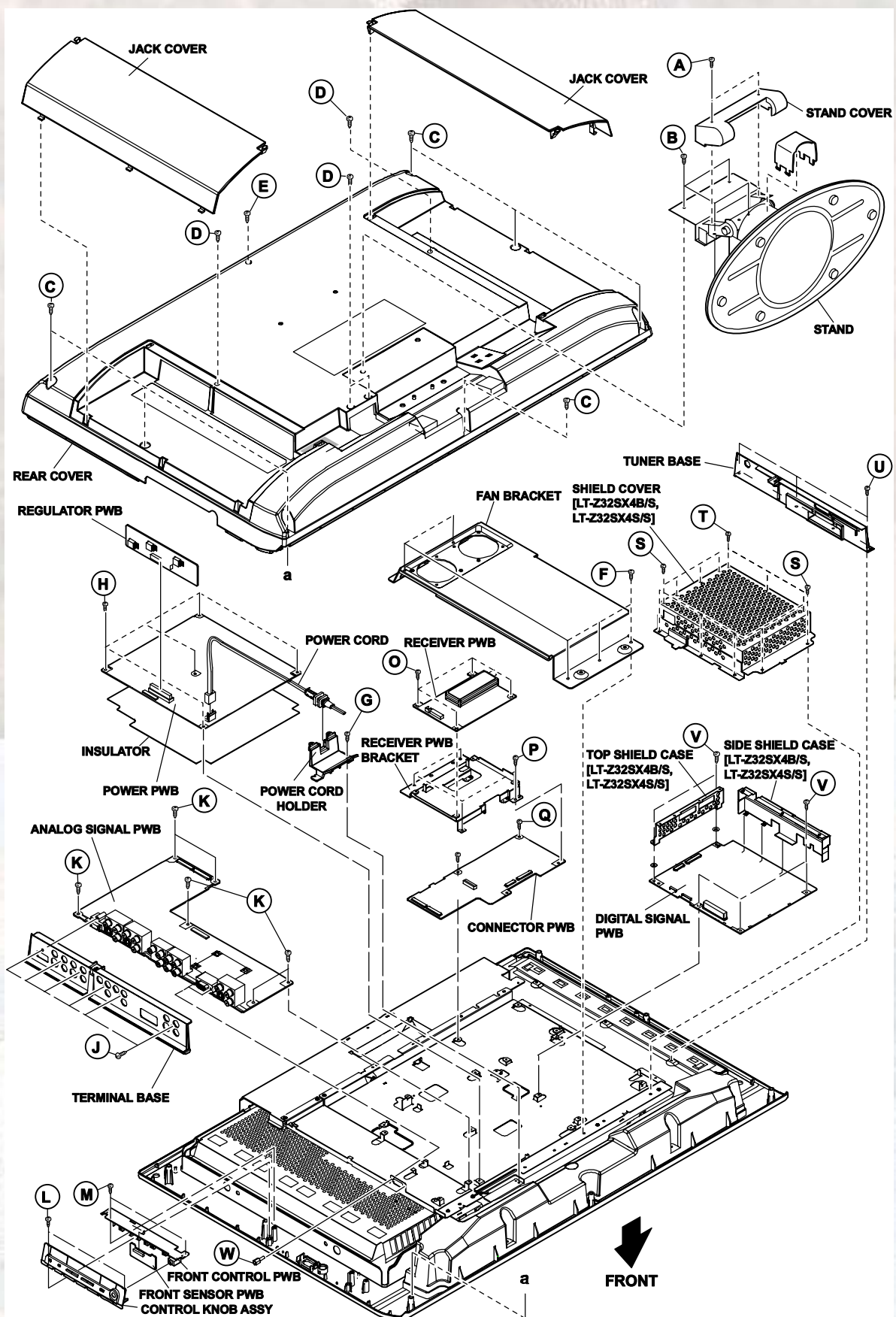


Fig.1

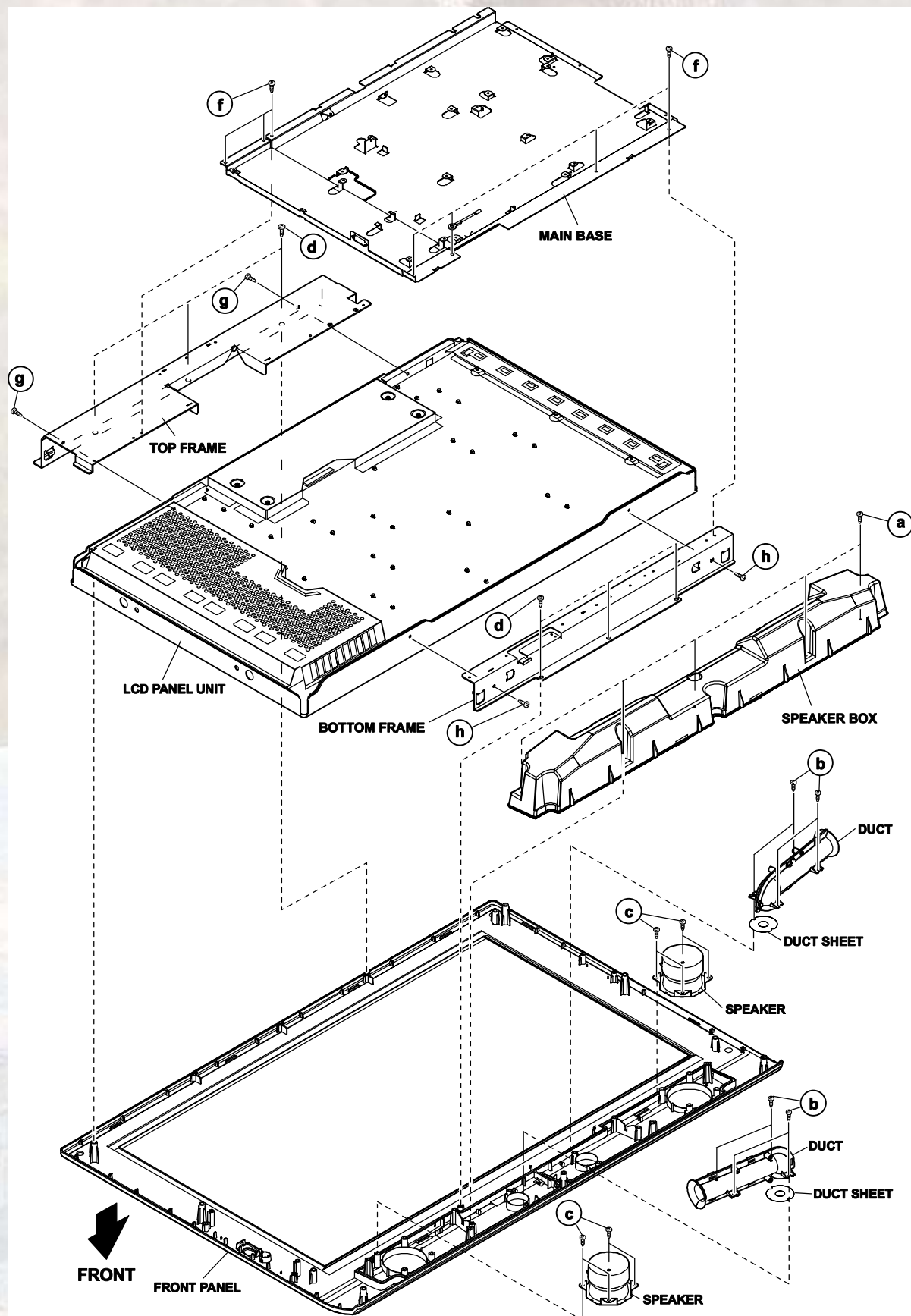


Fig.2

3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.2.1 MEMORY IC REPLACEMENT PROCEDURE

1. Power off

Switch off the power and disconnect the power plug from the AC outlet.

2. Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

3. Power on

Connect the power plug to the AC outlet and switch on the power.

4. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

5. User setting

Check the user setting items according to the given in page later. Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

6. SERVICE MODE setting

Verify what to set in the SERVICE MODE, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.

3.2.2 SERVICE MODE SETTING

■SERVICE MODE SCREEN

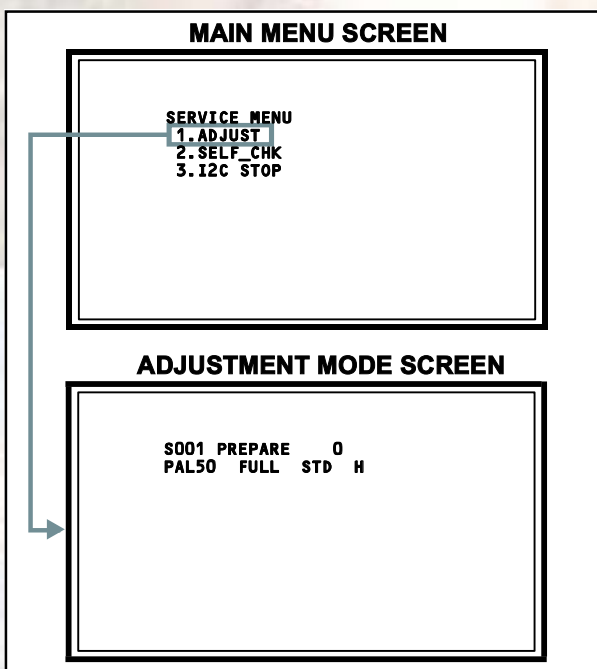


Fig.1

■SETTING ITEM

Setting items	Settings	Item No.
Video system setting	Adjust	S001 to S039
Audio system setting	Fixed	T001 to T010
Panel control system setting	Fixed	P001 to P010
Drive system setting	Fixed	D001 to D187
Main CPU system setting	Fixed	Z001 to Z010

3.2.3 SETTINGS OF FACTORY SHIPMENT

3.2.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	PR1
VOLUME	10
TV/VIDEO	TV
STANDBY MODE	OFF

3.2.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
CHANNEL	PR1
VOLUME	10
ZOOM	PANORAMIC
CINEMA	OFF
SUB PICTURE	VIDEO-1

3.2.3.3 REMOTE CONTROL MENU OPERATION

(1) PICTURE

Setting item	Setting position
PICTURE MODE	BRIGHT
WHITE BALANCE	COOL
FEATURES	
DIGITAL VNR	AUTO (LOW)
Super DigiPure	AUTO
PULL DOWN	AUTO
COLOUR MANAGEMENT	ON
PICTURE MANAGEMENT	ON
COLOUR SYSTEM	MAIN Depends on PR/CH
	SUB AUTO
4:3 AUTO ASPECT	PANORAMIC

(2) SOUND

Setting item	Setting position
STEREO / I+II	Stereo sound
BASS	Centre
TREBLE	Centre
BALANCE	Centre
CINEMA SURROUND	OFF
A.H.B.	ON
BBE	ON

(4) FEATURES

Setting item	Setting position
SLEEP TIMER	OFF
APPEARANCE	TYPE D
CHILD LOCK	ID NO.0000, All CH off
BLUE BACK	ON
AUTO SHUTOFF	OFF
FAVORITE SETTING	RESET

(5) SET UP

Setting item	Setting position
AUTO PROGRAM	TV channel automatically set
EDIT/MANUAL	PRESET CH only
LANGUAGE	ENGLISH
VIDEO-1 SETTING	COMPONENT
VIDEO-3 SETTING	COMPONENT
AI VOLUME	ON
TELETEXT LANGUAGE	GROUP-1

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 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.

3.3.2 SOLDERING IRON

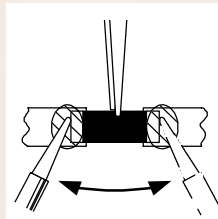
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

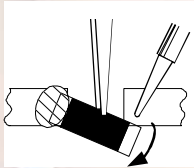
1. How to remove Chip parts

[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 the tweezers and remove the chip part.

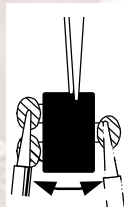


[Transistors, diodes, variable resistors, etc.]

- (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.



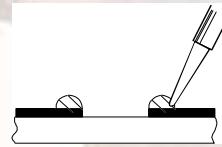
NOTE :

After removing the part, remove remaining solder from the pattern.

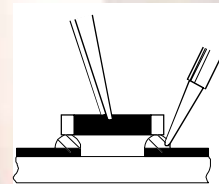
2. How to install Chip parts

[Resistors, capacitors, etc.]

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

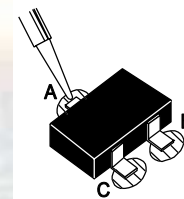


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

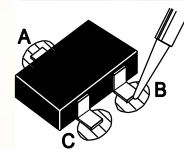


[Transistors, diodes, variable resistors, etc.]

- (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

- (1) There are 2 ways of adjusting this TV : One is with the **REMOTE CONTROL UNIT** and the other is the conventional method using adjustment parts and components.
- (2) The adjustment using the **REMOTE CONTROL UNIT** is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (3) Make sure that connection is correctly made AC to AC power source.
- (4) Turn on the power of the TV and measuring instruments for warning up for at least 30 minutes before starting adjustments.
- (5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

4.2 PRESET SETTING BEFORE ADJUSTMENTS

Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

Setting item	Settings position
PICTURE MODE	STANDARD
PICTURE adjustments	Centre
WHITE BALANCE	MID
DIGITAL VNR	MIN
Super DigiPure	AUTO
PULL DOWN	AUTO
COLOUR MANAGEMENT	ON
PICTURE MANAGEMENT	ON
SOUND adjustments	Centre
BBE	OFF
CINEMA SORROUND	OFF
A.H.B	OFF
ZOOM	FULL

4.3 MEASURING INSTRUMENT AND FIXTURES

- Oscilloscope
- Signal generator (Pattern generator)
[PAL / 625i / 625p / 1125i(50Hz)]
- Remote control unit

4.4 ADJUSTMENT ITEMS

■ VIDEO CIRCUIT

- 625i A-D OFFSET adjustment
- 1125i(50Hz) BRIGHTNESS adjustment
- 1125i(50Hz) A-D OFFSET adjustment
- SUB SCREEN A-D OFFSET adjustment
- WHITE BALANCE (HIGH LIGHT) adjustment

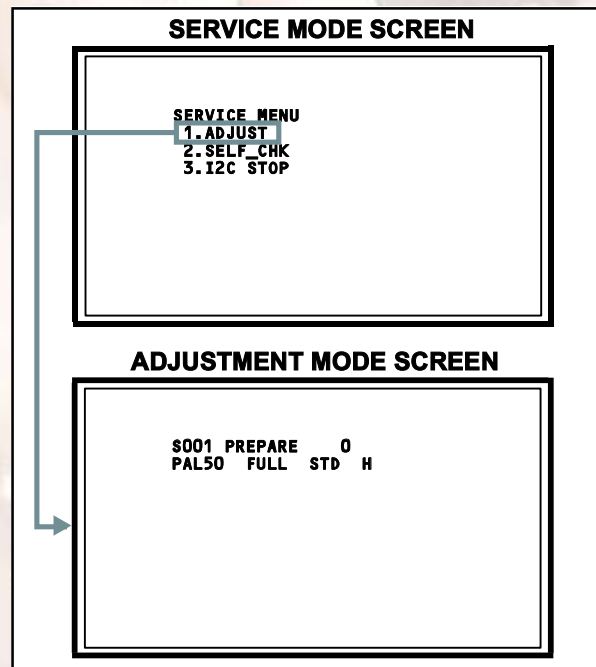
4.5 BASIC OPERATION OF SERVICE MODE

4.5.1 HOW TO ENTER THE SERVICE MODE

- (1) Press [DISPLAY] key and [MUTING] key on the remote control unit simultaneously to enter the SERVICE MODE SCREEN.
- (2) In the SERVICE MENU, press the [1] key to display ADJUSTMENT MODE SCREEN.

NOTE:

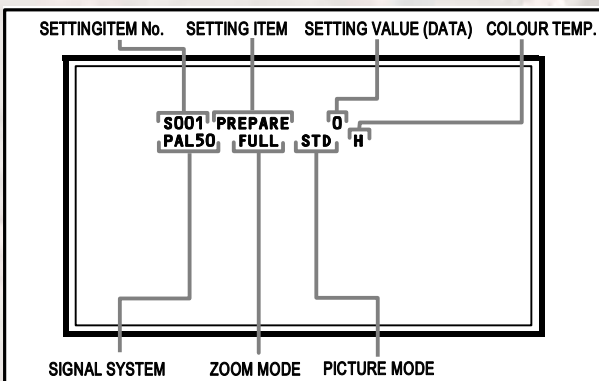
- Before entering the SERVICE MODE, confirm that the setting of PIP/TV/DVD switch is at the "TV" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.
- When a number key other than the [1] to [3] key is pressed in the SERVICE MODE SCREEN, the other relevant screen may be displayed.
This is not used in the adjustment procedure. Press the [MENU] key to return to the SERVICE MODE SCREEN.



4.5.2 HOW TO EXIT THE SERVICE MODE

Press the [MENU] key to exit the Service mode.

4.5.3 DESCRIPTION OF STATUS DISPLAY



(1) SIGNAL SYSTEM

The signal displayed on the screen is displayed.

PAL50	: PAL50Hz (Composite / S-video)
PAL60	: PAL60Hz (Composite / S-video)
SECAM	: SECAM
NTSC3	: NTSC3.58
NTSC4	: NTSC4.43
525I	: 525i (Component)
525P	: 525p
625I	: 625i (Component)
625P	: 625p
1125I5	: 1125i 50Hz
1125I6	: 1125i 60Hz
PCVGA	: PC (VGA)
PCXGA	: PC (XGA)

(2) ZOOM MODE

State of the SCREEN SIZE or MULTI PICTURE is displayed.

SINGLE SCREEN

FULL	: FULL
PANO	: PANORAMIC
1609	: 16:9 ZOOM
1609S	: 16:9 ZOOM SUBTITLE
1409	: 14:9 ZOOM
REGU	: REGULAR

MULTI SCREEN

M2	: 2-pictures multi
M12	: 12-pictures multi

(3) PICTURE MODE

STD	: STANDARD
BRI	: BRIGHT
SOFT	: SOFT

(4) WHITE BALANCE

L	: WARM
H	: MID, COOL

(5) SETTING ITEM NAME

Setting item name are displayed. The setting item numbers to be displayed are listed below.

Item No.	Setting item
S001 - S039	Video system setting
T001 - T010	Audio system setting
P001 - P010	Panel control system setting
D001 - D187	Drive system setting
Z001 - Z010	Main CPU system setting

(6) SETTING ITEM NO.

Setting item numbers are displayed. For the setting item names to be displayed, refer to "INITIAL SETTING VALUES IN THE SERVICE MODE".

(7) SETTING VALUE (DATA)

The SETTING VALUE is displayed.

4.5.4 CHANGE AND MEMORY OF SETTING VALUE

SELECTION OF SETTING ITEM

- [FUNCTION ▲ / ▼] key.
For scrolling up / down the setting items.

S001... ↔ T001... ↔ P001... ↔ D001... ↔ Z001...

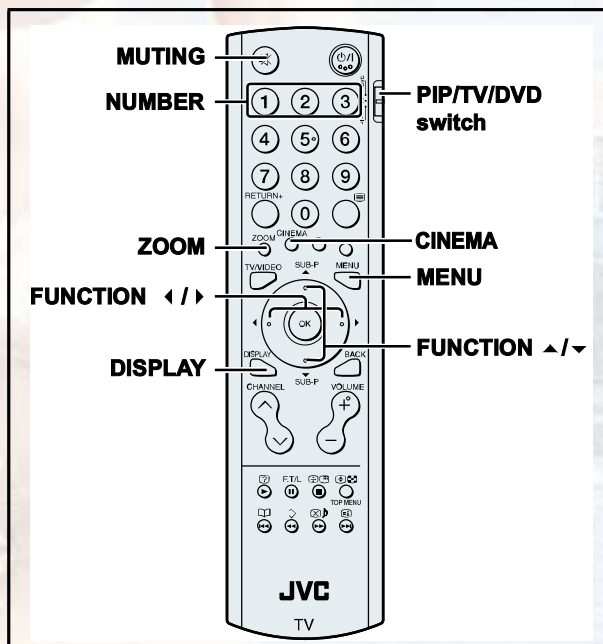
CHANGE OF SETTING VALUE (DATA)

- [FUNCTION ◀ / ▶] key.
For scrolling up / down the setting values.

MEMORY OF SETTING VALUE (DATA)

Changed setting value is memorized by pressing [MUTING] key.

4.5.5 SERVICE MODE SELECT KEY LOCATION



4.6 INITIAL SETTING VALUES IN THE SERVICE MODE

- Perform fine-tuning based on the "initial values" using the remote control when in the Service mode.
- The "initial 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 VIDEO SYSTEM SETTING

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
S001	PREPARE	0 - 31	0	0	0
S002	NTSC BL	0 - 15	0	0	0
S003	NTSC CNT	0 - 255	36	36	36
S004	NT CR OF	0 - 15	6	6	6
S005	NT CB OF	0 - 15	6	6	6
S006	525i BL	0 - 15	0	0	0
S007	525i CNT	0 - 255	36	36	36
S008	5i CB OF	0 - 15	0	0	0
S009	5i CR OF	0 - 15	0	0	0
S010	5i CR GN	0 - 15	6	6	6
S011	5i CB GN	0 - 15	6	6	6
S012	HD BL	0 - 63	55	55	55
S013	HD CB OF	0 - 63	56	56	56
S014	HD CR OF	0 - 63	58	58	58
S015	RT CONT	0 - 15	7	7	7
S016	RT CB OF	0 - 15	5	5	5
S017	RT CR OF	0 - 15	6	6	6
S018	RT CL GA	0 - 15	12	12	12
S019	PC CL MB	0 - 7	0	0	0
S020	PC CL LB	0 - 31	0	0	0
S021	PC CL MR	0 - 71	0	0	0
S022	PC CL LR	0 - 31	0	0	0
S023	(Not display)	0 - 255	0	0	0
S024	(Not display)	0 - 255	0	0	0
S025	(Not display)	0 - 255	0	0	0
S026	(Not display)	0 - 255	0	0	0
S027	(Not display)	0 - 255	0	0	0
S028	(Not display)	0 - 255	0	0	0
S029	(Not display)	0 - 255	0	0	0
S030	R DRIVE	0 - 255	133	133	133
S031	G DRIVE	0 - 255	130	130	130
S032	B DRIVE	0 - 255	132	132	132
S033	(Not display)	0 - 255	0	0	0
S034	(Not display)	0 - 255	0	0	0
S035	(Not display)	0 - 255	0	0	0
S036	(Not display)	0 - 255	0	0	0
S037	(Not display)	0 - 255	0	0	0
S038	(Not display)	0 - 255	0	0	0
S039	ILA COM	0 - 1	0	0	0

4.6.2 AUDIO SYSTEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
T001	IN LEVEL	0 - 255	0	0	0
T002	LOW SEP	0 - 255	0	0	0
T003	HIGH SEP	0 - 255	0	0	0
T004	AFC	0 - 255	4	4	4
T005	(Not display)	0 - 255	0	0	0
T006	ATT V ON	0 - 1	0	0	0
T007	ATT U ON	0 - 1	0	0	0
T008	ATT C ON	0 - 1	0	0	0
T009	(Not display)	0 - 255	0	0	0
T010	(Not display)	0 - 255	0	0	0

4.6.3 PANEL CONTOROL SYSTEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
P001	TM HOR H	00 - FF	00	00	00
P002	TM HOR L	00 - FF	00	00	00
P003	TM MIN	00 - FF	00	00	00
P004	TEMP0	0 - 255	0	0	0
P005	(Not display)	0 - 255	0	0	0
P006	(Not display)	0 - 255	0	0	0
P007	(Not display)	0 - 255	0	0	0
P008	(Not display)	0 - 255	0	0	0
P009	(Not display)	0 - 255	0	0	0
P010	(Not display)	0 - 255	0	0	0

4.6.4 DRIVE SYSTEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
D001	SLV GN	00 - 3F	15	15	15
D002	SLVH GN	00 - 3F	13	13	13
D003	SLH GN	00 - 3F	15	15	15
D004	SLV Pf	00 - 03	01	01	01
D005	SLH Pf H	00 - 01	01	01	01
D006	SLH Pf L	00 - 03	01	01	01
D007	SL EGCON	00 - 3F	08	08	08
D008	SL EGONF	00 - 01	01	01	01
D009	SL CRGON	00 - 3F	06	06	06
D010	SL CRGON	00 - 01	01	01	01
D011	SL ON OF	00 - 01	01	01	01
D012	SV GN	00 - 3F	1A	1A	1A
D013	SVH GN	00 - 3F	1B	1B	1B
D014	SH GN	00 - 3F	2E	2E	2E
D015	SV Pf	00 - 03	00	00	00
D016	SV PfH	00 - 01	01	01	01

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
D017	SV Pfl	00 - 03	00	00	00
D018	SYL CON	00 - 3F	30	30	30
D019	SYL CONF	00 - 01	01	01	01
D020	SYH CON	00 - 3F	00	00	00
D021	SYH CONF	00 - 01	01	01	01
D022	SC CON	00 - 3F	1A	1A	1A
D023	SC CNONF	00 - 01	01	01	01
D024	SPM BLC	00 - 3F	0B	0B	0B
D025	SPM BLCO	00 - 01	01	01	01
D026	SLIM	00 - 3F	20	20	20
D027	SLIMONF	00 - 01	01	01	01
D028	SCRG	00 - 3F	10	10	10
D029	SRGONF	00 - 01	01	01	01
D030	S ONF	00 - 01	01	01	01
D031	pb GN	00 - 3F	15	15	15
D032	pb PflH	00 - 01	01	01	01
D033	pb Pfl	00 - 03	00	00	00
D034	pb CRG	00 - 3F	04	04	04
D035	pb CRGON	00 - 01	01	01	01
D036	pb ONF	00 - 01	01	01	01
D037	pr GN	00 - 3F	15	15	15
D038	pr PflH	00 - 01	01	01	01
D039	pr Pfl	00 - 03	00	00	00
D040	pr CRG	00 - 3F	05	05	05
D041	pr CRGON	00 - 01	01	01	01
D042	pr ONF	00 - 01	01	01	01
D043	ENH ONF	00 - 01	01	01	01
D044	(Not display)	00 - FF	00	00	00
D045	(Not display)	00 - FF	00	00	00
D046	(Not display)	00 - FF	00	00	00
D047	(Not display)	00 - FF	00	00	00
D048	(Not display)	00 - FF	00	00	00
D049	(Not display)	00 - FF	00	00	00
D050	(Not display)	00 - FF	00	00	00
D051	(Not display)	00 - FF	00	00	00
D052	(Not display)	00 - FF	00	00	00
D053	(Not display)	00 - FF	00	00	00
D054	(Not display)	00 - FF	00	00	00
D055	(Not display)	00 - FF	00	00	00
D056	(Not display)	00 - FF	00	00	00
D057	(Not display)	00 - FF	00	00	00
D058	(Not display)	00 - FF	00	00	00
D059	(Not display)	00 - FF	00	00	00
D060	(Not display)	00 - FF	00	00	00
D061	(Not display)	00 - FF	00	00	00
D062	(Not display)	00 - FF	00	00	00
D063	(Not display)	00 - FF	00	00	00
D064	(Not display)	00 - FF	00	00	00
D065	(Not display)	00 - FF	00	00	00

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
D066	(Not display)	00 - FF	00	00	00
D067	(Not display)	00 - FF	00	00	00
D068	(Not display)	00 - FF	00	00	00
D069	(Not display)	00 - FF	00	00	00
D070	(Not display)	00 - FF	00	00	00
D071	(Not display)	00 - FF	00	00	00
D072	(Not display)	00 - FF	00	00	00
D073	(Not display)	00 - FF	00	00	00
D074	(Not display)	00 - FF	00	00	00
D075	(Not display)	00 - FF	00	00	00
D076	(Not display)	00 - FF	00	00	00
D077	(Not display)	00 - FF	00	00	00
D078	(Not display)	00 - FF	00	00	00
D079	(Not display)	00 - FF	00	00	00
D080	(Not display)	00 - FF	00	00	00
D081	(Not display)	00 - FF	00	00	00
D082	(Not display)	00 - FF	00	00	00
D083	(Not display)	00 - FF	00	00	00
D084	(Not display)	00 - FF	00	00	00
D085	(Not display)	00 - FF	00	00	00
D086	(Not display)	00 - FF	00	00	00
D087	(Not display)	00 - FF	00	00	00
D088	(Not display)	00 - FF	00	00	00
D089	(Not display)	00 - FF	00	00	00
D090	(Not display)	00 - FF	00	00	00
D091	(Not display)	00 - FF	00	00	00
D092	(Not display)	00 - FF	00	00	00
D093	(Not display)	00 - FF	00	00	00
D094	(Not display)	00 - FF	00	00	00
D095	(Not display)	00 - FF	00	00	00
D096	(Not display)	00 - FF	00	00	00
D097	(Not display)	00 - FF	00	00	00
D098	(Not display)	00 - FF	00	00	00
D099	(Not display)	00 - FF	00	00	00
D100	(Not display)	00 - FF	00	00	00
D101	(Not display)	00 - FF	00	00	00
D102	(Not display)	00 - FF	00	00	00
D103	(Not display)	00 - FF	00	00	00
D104	(Not display)	00 - FF	00	00	00
D105	(Not display)	00 - FF	00	00	00
D106	(Not display)	00 - FF	00	00	00
D107	(Not display)	00 - FF	00	00	00
D108	(Not display)	00 - FF	00	00	00
D109	(Not display)	00 - FF	00	00	00
D110	(Not display)	00 - FF	00	00	00
D111	(Not display)	00 - FF	00	00	00
D112	(Not display)	00 - FF	00	00	00
D113	(Not display)	00 - FF	00	00	00
D114	(Not display)	00 - FF	00	00	00

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
D115	(Not display)	00 - FF	00	00	00
D116	(Not display)	00 - FF	00	00	00
D117	(Not display)	00 - FF	00	00	00
D118	(Not display)	00 - FF	00	00	00
D119	(Not display)	00 - FF	00	00	00
D120	(Not display)	00 - FF	00	00	00
D121	(Not display)	00 - FF	00	00	00
D122	(Not display)	00 - FF	00	00	00
D123	(Not display)	00 - FF	00	00	00
D124	(Not display)	00 - FF	00	00	00
D125	(Not display)	00 - FF	00	00	00
D126	(Not display)	00 - FF	00	00	00
D127	(Not display)	00 - FF	00	00	00
D128	(Not display)	00 - FF	00	00	00
D129	(Not display)	00 - FF	00	00	00
D130	(Not display)	00 - FF	00	00	00
D131	(Not display)	00 - FF	00	00	00
D132	(Not display)	00 - FF	00	00	00
D133	(Not display)	00 - FF	00	00	00
D134	(Not display)	00 - FF	00	00	00
D135	(Not display)	00 - FF	00	00	00
D136	(Not display)	00 - FF	00	00	00
D137	(Not display)	00 - FF	00	00	00
D138	(Not display)	00 - FF	00	00	00
D139	(Not display)	00 - FF	00	00	00
D140	(Not display)	00 - FF	00	00	00
D141	(Not display)	00 - FF	00	00	00
D142	(Not display)	00 - FF	00	00	00
D143	(Not display)	00 - FF	00	00	00
D144	(Not display)	00 - FF	00	00	00
D145	(Not display)	00 - FF	00	00	00
D146	(Not display)	00 - FF	00	00	00
D147	(Not display)	00 - FF	00	00	00
D148	(Not display)	00 - FF	00	00	00
D149	(Not display)	00 - FF	00	00	00
D150	(Not display)	00 - FF	00	00	00
D151	(Not display)	00 - FF	00	00	00
D152	(Not display)	00 - FF	00	00	00
D153	(Not display)	00 - FF	00	00	00
D154	(Not display)	00 - FF	00	00	00
D155	(Not display)	00 - FF	00	00	00
D156	(Not display)	00 - FF	00	00	00
D157	(Not display)	00 - FF	00	00	00
D158	(Not display)	00 - FF	00	00	00
D159	(Not display)	00 - FF	00	00	00
D160	(Not display)	00 - FF	00	00	00
D161	(Not display)	00 - FF	00	00	00
D162	(Not display)	00 - FF	00	00	00
D163	(Not display)	00 - FF	00	00	00

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
D164	(Not display)	00 - FF	00	00	00
D165	(Not display)	00 - FF	00	00	00
D166	(Not display)	00 - FF	00	00	00
D167	(Not display)	00 - FF	00	00	00
D168	(Not display)	00 - FF	00	00	00
D169	(Not display)	00 - FF	00	00	00
D170	(Not display)	00 - FF	00	00	00
D171	(Not display)	00 - FF	00	00	00
D172	(Not display)	00 - FF	00	00	00
D173	(Not display)	00 - FF	00	00	00
D174	(Not display)	00 - FF	00	00	00
D175	(Not display)	00 - FF	00	00	00
D176	(Not display)	00 - FF	00	00	00
D177	(Not display)	00 - FF	00	00	00
D178	(Not display)	00 - FF	00	00	00
D179	(Not display)	00 - FF	00	00	00
D180	(Not display)	00 - FF	00	00	00
D181	(Not display)	00 - FF	00	00	00
D182	(Not display)	00 - FF	00	00	00
D183	(Not display)	00 - FF	00	00	00
D184	(Not display)	00 - FF	00	00	00
D185	(Not display)	00 - FF	00	00	00
D186	(Not display)	00 - FF	00	00	00
D187	(Not display)	00 - FF	00	00	00

4.6.5 MAIN CPU SYTEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value		
			PAL	SECAM	NTSC
Z001	(Not display)	00 - FF	00	00	00
Z002	(Not display)	00 - FF	00	00	00
Z003	(Not display)	00 - FF	00	00	00
Z004	(Not display)	00 - FF	00	00	00
Z005	(Not display)	00 - FF	00	00	00
Z006	(Not display)	00 - FF	00	00	00
Z007	(Not display)	00 - FF	00	00	00
Z008	(Not display)	00 - FF	00	00	00
Z009	(Not display)	00 - FF	00	00	00
Z010	(Not display)	00 - FF	00	00	00

4.7 ADJUSTMENT PROCEDURE

4.7.1 VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
625i A-D OFFSET	Remote control unit		[1.ADJUST] S001: PREPARE (Adjustment setting mode change)	(1) Receive a 625i component ramp pattern signal. (2) Set "PICTURE MODE" to STANDARD. (3) Set "ZOOM" to FULL. (4) Set "WHITE BALANCE" to MID. (5) Select "1.ADJUST" from the SERVICE MODE. (6) Set < S030 > (R DRIVE), < S031> (G DRIVE) and < S032 > (B DRIVE) to "133". (7) Set < S001 >(adjustment setting mode change) to set "8" and it change to the 625i A-D offset adjustment setting mode. (8) Adjust < S008 > (625i Cb offset) and < S009 > (625i Cr offset) to lose the gap (red line, green line and blue line) which appears at both ends of a white part at the centre of the screen. (9) Set < S001 > to set "0" and it change to the normal mode. (10) Press the [MUTING] key to memoirize the set value.
	Signal generator		S008: 5i CB OF(625i cb offset) S009: 5i CR OF(625i cr offset) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	
Disappears the color at both ends.				
1125i (50Hz) BRIGHTNESS	Remote control unit		[1.ADJUST] S001: PREPARE (Adjustment setting mode change)	(1) Receive a 1125i (50Hz) gray scale pattern signal. (2) Set "PICTURE MODE" to STANDARD. (3) Set "ZOOM" to FULL. (4) Set "WHITE BALANCE" to MID. (5) Select "1.ADJUST" from the SERVICE MODE. (6) Set < S030 > (R DRIVE), < S031> (G DRIVE) and < S032 > (B DRIVE) to "133". (7) Set < S001 > (adjustment setting mode change) to set the values "12" and it change to the 1125i black level adjustment setting mode. (8) Adjust < S012 > (1125i brightness) to set the 0% black part in the upper half of the screen to be brightest. (9) Set < S001 > to set "0" and it change to the normal mode. (10) Press the [MUTING] key to memoirize the set value.
	Signal generator		S012: HD BL(1125i brightness) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	
Set the 0% black part to be brightest.				
1125i (50Hz) A-D OFFSET	Remote control unit		[1.ADJUST] S001: PREPARE (Adjustment setting mode change)	(1) Receive a 1125i (50Hz) 30% all white pattern signal. (2) Set "PICTURE MODE" to STANDARD. (3) Set "ZOOM" to FULL. (4) Set "WHITE BALANCE" to MID. (5) Select "1.ADJUST" from the SERVICE MODE. (6) Set < S030 > (R DRIVE), < S031> (G DRIVE) and < S032 > (B DRIVE) to "133". (7) Set < S001 > (adjustment setting mode change) to set "13" and it change to the 1125i A-D offset adjustment setting mode. (8) Adjust < S013 > (1125i Cb offset) to minimize the blue noise in the upper half of the screen. (9) Adjust < S014 > (1125i Cr offset) to minimize the blue noise in the upper half of the screen. (10) Set < S001 > to set "0" and it change to the normal mode. (11) Press the [MUTING] key to memoirize the set value.
	Signal generator		S013: HD CB OF(1125i cb offset) S014: HD CR OF(1125i cr offset) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	
Minimize the red and blue noises in the upper half of the screen.				

Item	Measuring instrument	Test point	Adjustment part	Description
SUB SCREEN A-D OFFSET	Remote control unit		[1.ADJUST] S001: PREPARE (Adjustment setting mode change)	(1) Set "PICTURE MODE" to STANDARD. (2) Set "ZOOM" to FULL. (3) Set "WHITE BALANCE" to MID. (4) Set "MULTI PICTURE" to 2 pictures. (5) Receive a PAL 30% all white pattern signal on the Right screen. At the same time, set the Left screen in VIDEO-1 mode (No signal). (6) Select "1.ADJUST" from the SERVICE MODE. (7) Set < S030 > (R DRIVE), < S031> (G DRIVE) and < S032 > (B DRIVE) to "133". (8) Set < S001 > (adjustment setting mode change) to set "17" and it change to the sub screen A-D offset adjustment setting mode. (9) Adjust < S016 > (Sub screen cb offset) to minimize the blue noise in the upper half of the screen. If you select an adjustment item < S016 >, then the screen automatically turn to twin pictures mode. (10) Set < S017 > (Sub screen cr offset) to minimize the red noise in the upper half of the screen. (11) Readjust < S016 > and < S017 > to set the upper half of the screen to be the blackest. (See Fig.9) (12) Set < S001 > to set "0" and it change to the normal mode. (13) Press the [MUTING] key to memoirize the set value.
	Signal generator		S016: RT CB OF (Sub screen cb offset) S017: RT CR OF (Sub screen cr offset) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	
Set the 0% block part to be brightest. VIDEO-1 <NO SIGNAL> TV(RF) <30% all white>				
WHITE BALANCE (HIGHLIGHT)	Remote control unit Signal generator		[1.ADJUST] S030: R DRIVE (Red drive) S031: G DRIVE (Green drive) S032: B DRIVE (Blue drive)	(1) Receive a PAL 75% all white signal. (2) Set "PICTURE MODE" to STANDARD. (3) Set "ZOOM" to FULL. (4) Set "WHITE BALANCE" to MID. (5) Select "1.ADJUST" from the SERVICE MODE. (6) Adjust to keep one of < S030 > (Red drive), < S031 > (Green drive) or < S032 > (Blue drive) unchanged, then lower the other two so that the all-white screen is equally white throughout. NOTE: Set one or more of < S030 >, < S031 >, and < S032 > to "85". (7) Check that white balance is properly tracked from low light to high light. If the white balance tracking is deviated, adjust to correct it. (8) Press the [MUTING] key to memoirize the set value.

SECTION 5 TROUBLESHOOTING

5.1 SELF CHECK FEATURE

5.1.1 OUTLINE

This unit comes with the "Self check" feature, which checks the operational state of the circuit and displays/saves it during failure. Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time. Diagnosis is displayed in 2 ways via screen display and LED flashes. Failure detection is based on input state of I²C bus and the various control lines connected to the main microcomputer.

5.1.2 HOW TO ENTER THE SELF CHECK MODE

Before entering the SERVICE MODE, confirm that the setting of PIP/TV/ DVD switch is at the "TV" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.

- (1) Press [DISPLAY] key and [MUTING] key simultaneously, then enter the SERVICE MODE.
- (2) Press the [2] key SELF CHECK MODE.
- (3) Press the [ZOOM] key to enter Page 2 of the SELF CHECK MODE.

*Use the [CINEMA] key to toggle between Page 1 and Page 2.

NOTE:

When a number key other than the [1] to [3] key is pressed in the SERVICE MODE screen, the other relevant screen may be displayed.

This is not used in the adjustment procedure. Press the [MENU] key to return to the MAIN MENU SCREEN.

5.1.3 HOW TO EXIT THE SELF CHECK MODE

To Save Failure History:

Turn off the power by unplugging the AC power cord plug when in the Self check display mode.

To Clear (Reset) Failure History:

Turn off the power by pressing the [POWER] key on the remote control unit when in the Self check display mode.

5.1.4 FAILURE HISTORY

Failure history can be counted up to 9 times for each item. When the number exceeds 9, display will remain as 9. Failure history will be stored in the memory unless it has been deleted.

NOTE:

Only SYNC (with/without sync signals) will be neither counted nor stored.

5.1.5 POINTS TO NOTE WHEN USING THE SELF CHECK FEATURE

In addition to circuit failures (abnormal operation), the following cases may also be ignored as "Abnormal" and displayed and counted as "NG".

- (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.

Diagnosis may be impeded if a large number of items are displayed as "NG". As such, start Self check check only after 3 seconds in the case of receivers and 5 seconds in the case of panels upon turning on the power. If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnosis results.

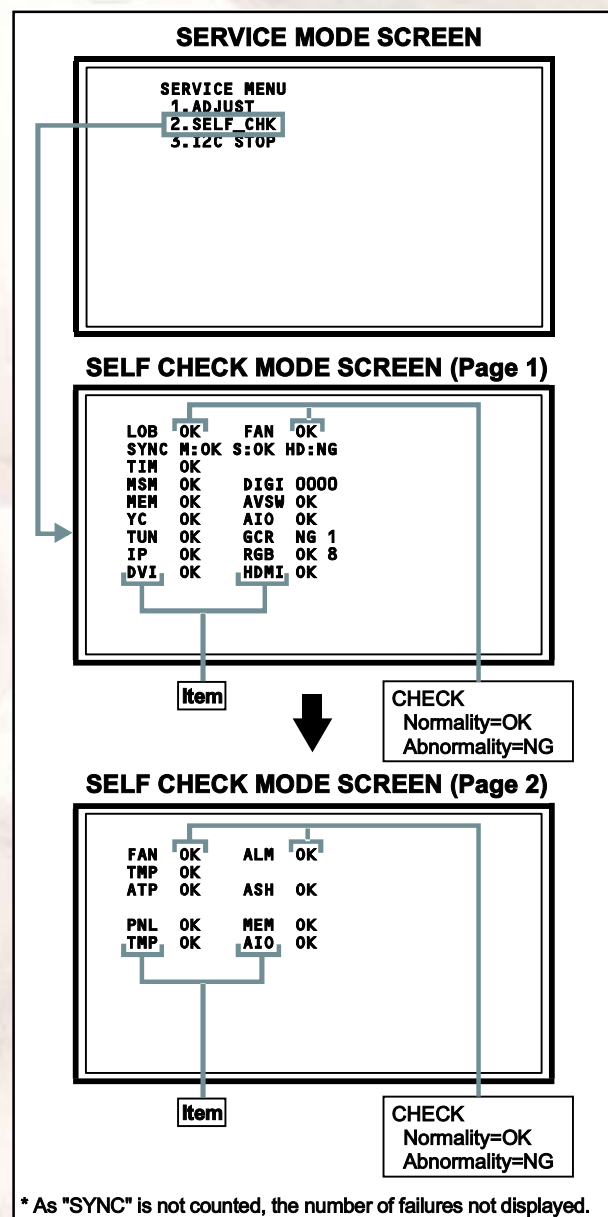


Fig.1

5.1.6 DETAILS

Self check is performed for the following items:

< Page 1 of screen >

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
Low bias line short protection	LOB	Confirmation of operation of the low bias (2.5V / 3.3V / 5V / 9V) protection circuit. Q9822 [REGULATOR PWB]	LB_PRO	Detection starts 3 seconds after the power is turned on. If error continues between 400ms the power is turned off.
Abnormal rise of temperature in audio circuit	FAN	Confirmation of the temperature of audio circuit. TH6661 [ANALOG SIGNAL PWB]	SDA	Detection starts 3 seconds after the power is turned on. If the temperature of 90°C is detected for 3 seconds the power is turned off.
Presence of sync signal	SYNC	Confirmation of presence of video sync signal. M : Main sync signal S : Sub sync signal HD : Component sync signal IC201 [ANALOG SIGNAL PWB]	SDA	Confirmation of presence of sync signal in video signal.
AC power input	TIM	Not used.	---	---
Main CPU communication	MSM	Not used.	---	---
Digital tuner	DIGI	Not used.	---	---
Main memory	MEM	Confirmation of reply of ACK signal which uses I ² C communication. IC7602 [DIGITAL SIGNAL PWB]	SDA	If it checks whenever I ² C communication is performed and no reply of ACK signal an error will be counted.
AV select switch	AVSW	Same as above. IC301, IC501 [ANALOG SIGNAL PWB]	SDA	Same as above.
3 dimensions YC separator	YC	Not used.	---	---
Multi sound process	AIO	Not used.	---	---
RF tuner	TUN	Confirmation of reply of ACK signal which uses I ² C communication. TU3001 [RECEIVER PWB]	SDA	If it checks whenever I ² C communication is performed and no reply of ACK signal an error will be counted.
Ghost reduction	GCR	Not used.	---	---
DIST process	IP	Confirmation of reply of ACK signal which uses I ² C communication. IC3001 [DIGITAL SIGNAL PWB]	SDA	If it checks whenever I ² C communication is performed and no reply of ACK signal an error will be counted.
RGB process	RGB	Confirmation of reply of ACK signal which uses I ² C communication. IC3001 [DIGITAL SIGNAL PWB]	SDA	If it checks whenever I ² C communication is performed and no reply of ACK signal an error will be counted.
DVI (Digital communication)	DVI	Not used.	---	---
Digital input	HDMI	Not used.	---	---

< Page 2 of screen >

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
Fan lock	FAN	Not used.	---	---
Abnormal of operation of PANEL	ALM	Not used.	---	---
Abnormal rise of temperature in PANEL	TMP	Not used.	---	---
Abnormal rise of temperature in audio circuit	ATP	Not used.	---	---
Short circuit detection of audio circuit	ASH	Not used.	---	---
Panel communication	PNL	Not used.	---	---
Sub memory	MEM	Not used.	---	---
Temp. sensor	TMP	Not used.	---	---
Audio control	AIO	Confirmation of reply of ACK signal which uses I ² C communication. IC6521 [ANALOG SIGNAL PWB]	SDA	If it checks whenever I ² C communication is performed and no reply of ACK signal an error will be counted.

5.1.7 METHOD OF DISPLAY WHEN A RASTER IS NOT OUTPUT

In the state where a raster is not output by breakdown of the set, an error is displayed by blink of the POWER LED.

Type of error	POWER LED flash cycle
Low bias line short protection	Low luminance blue turnig on and off at 1 second intervals.
Abnormal rise of temperature in audio circuit	High luminance blue turnig on and off at 0.1 second intervals.

< Explanation of operation >

If error is detected, the power is turned off.

Shortly after a power is turned off, POWER LED will be blinked.

Power cannot be turned on until the power cord takes out and inserts, after a power is turned off.



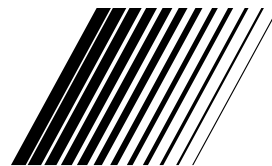
JVC

Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY VIDEO DISPLAY CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YA209)

 Printed in Japan
VPT

JVC



ENGLISH 

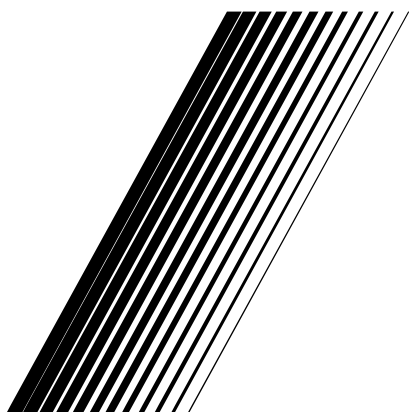
D.I.S.T.
Digital Image Scaling Technology

LT-Z32SX4B
LT-Z26SX4B
LT-Z32SX4S
LT-Z26SX4S

CINEMA
SURROUND

WIDE LCD PANEL TV

INSTRUCTIONS



LCT1732-001A-H

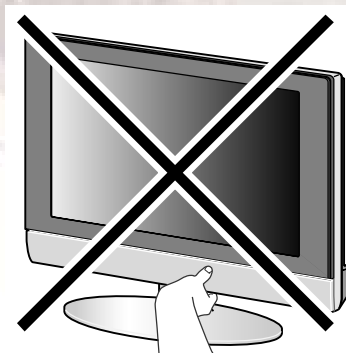
Thank you for buying this JVC LCD flat television.

To make sure you understand how to use your new TV, please read this manual thoroughly before you begin. ("LCD" stands for Liquid Crystal Display.)

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

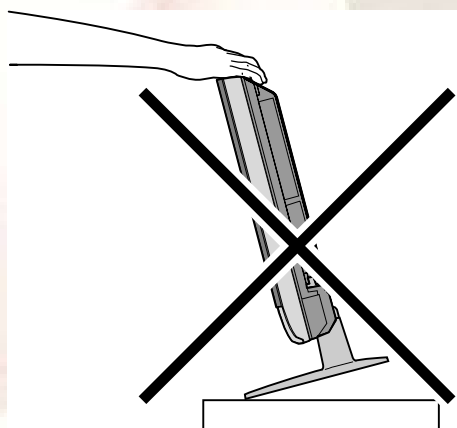
WARNING

- Fingers may be trapped under the TV causing injuries. Hold the TV at the bottom in the middle, and do not allow it to tilt up or down.



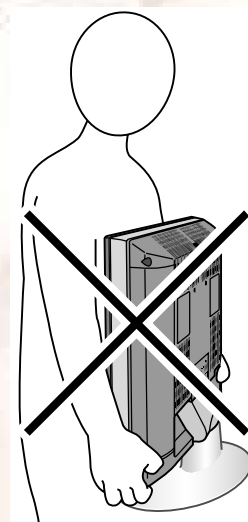
WARNING

- The TV may fall causing injuries. Hold the bottom of the stand with your hand and tilt the TV up and down.
- Do not allow children to hang from the TV, place their elbows on the TV or lean against the TV. Doing so may cause the TV to fall over and lead to injuries.



CAUTION

- The TV screen may be damaged if the TV is carried as shown in the diagram below. The TV should always be carried by two people.



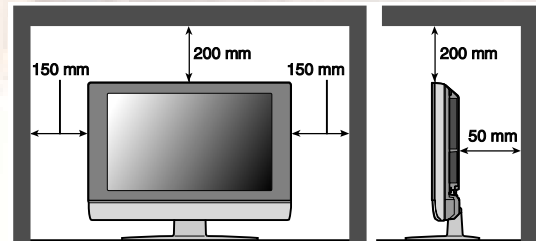
Pixel defects

LCDs use collections of fine points (“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.

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.



Failure to take the following precautions may cause damage to the television 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.

DO NOT subject the TV to direct sunlight.

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 forcefully. Never use any cleaner or detergent on it.

If there is a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

■ Cleaning the screen

The screen is coated with a special thin film to reduce reflection. If this film is damaged, uneven colours, discolouration, scratches, and other problems that cannot be repaired may occur. Pay attention to the following when handling the screen.

- Do not use glue or adhesive tape on the screen.
- Do not write on the screen.
- Do not allow the screen to come in contact with any hard objects.
- Do not allow condensation to form on the screen.
- Do not use alcohol, thinner, benzene or other solvents on the screen.
- Do not rub the screen hard.

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.
-

D.I.S.T. demonstration

To start the D.I.S.T. demonstration:

Press the **MENU** button to display the menu bar. 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, **BACK** button, **CHANNEL** $\vee/\wedge$ buttons or any of the number buttons.

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Setting up your TV

- When you install the TV on the wall, only use a JVC wall mounting unit (optional) which is designed for this TV.
- Make sure that the TV is installed on the wall by a skilled installer.

Installation

Cautions for installation

- 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 2.

Using the stand

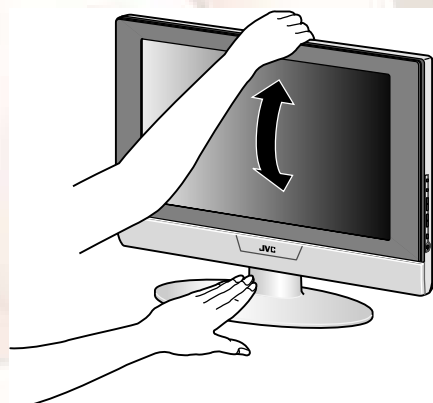
This TV comes with a table top stand already attached.

This stand can be used to adjust the direction of the TV screen 5° up, 10° down, and 20° to the left or right.

■ **Tilt the TV up and down:**

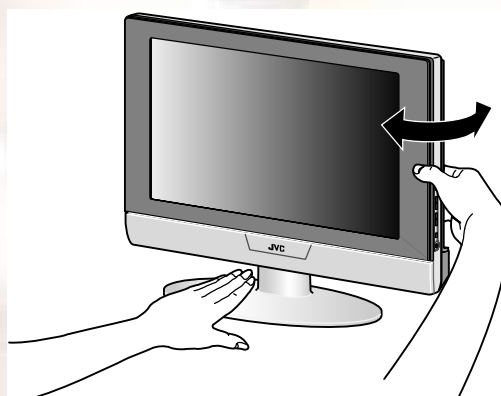
While holding the bottom of the stand with one hand, use your other hand to hold the middle of the top of the TV and slowly tilt the TV up and down.

- As a safety measure, the stand is constructed so that it requires a certain amount of force to tilt the TV.



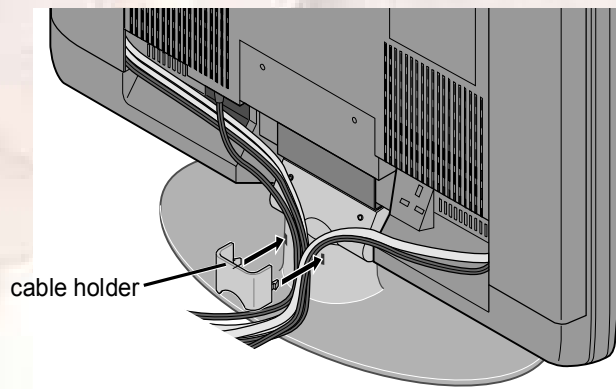
■ **Rotate the TV to the left and right:**

While holding the bottom of the stand with one hand, use your other hand to hold the edge of the panel and slowly adjust the direction of the TV screen.



■ Cable holder

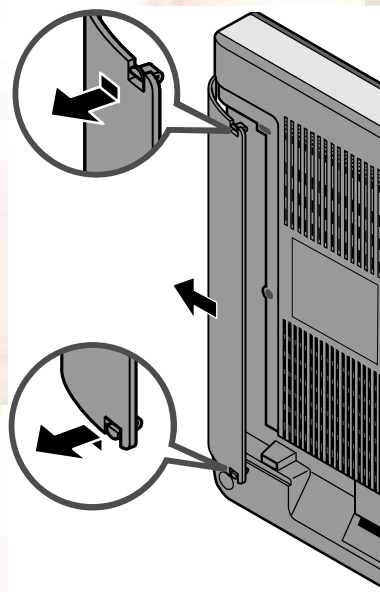
A cable holder which is used to keep the connection cables tidy is attached to the back of the stand. Gently squeeze the left and right of the cable holder and pull it to remove it from the stand. After putting the cables in the cable holder, attach it to the back of the stand again.



Removing the terminal covers

There are connection terminals behind the covers on the left and right of the rear of the TV. Remove these two covers before connecting an antenna or VCR.

Remove the covers by removing the hooks. When replacing the covers, place the side of the covers against the TV and insert the hooks.



-
- Leave the covers off if they do not fit properly. Do not force to replace the covers. Doing so may cause damage to the connection cables and the covers.
-

Connecting the aerial and video cassette recorder (VCR)

Caution

- Turn off all the equipment including the TV before connecting anything.
- Aerial cable is not supplied. Use a good quality 75-ohm coaxial cable.
- Read the manual that came with the VCR before connecting.

If not connecting a VCR (follow ①):
Connect an aerial cable to the aerial socket on this TV.

If connecting a VCR:

1 Connect the aerial cable to the aerial input socket on the VCR, and connect the VCR and TV with another aerial cable

2 Connect the VCR's VIDEO OUT (video output) terminal and the TV's VIDEO terminal with a video cable

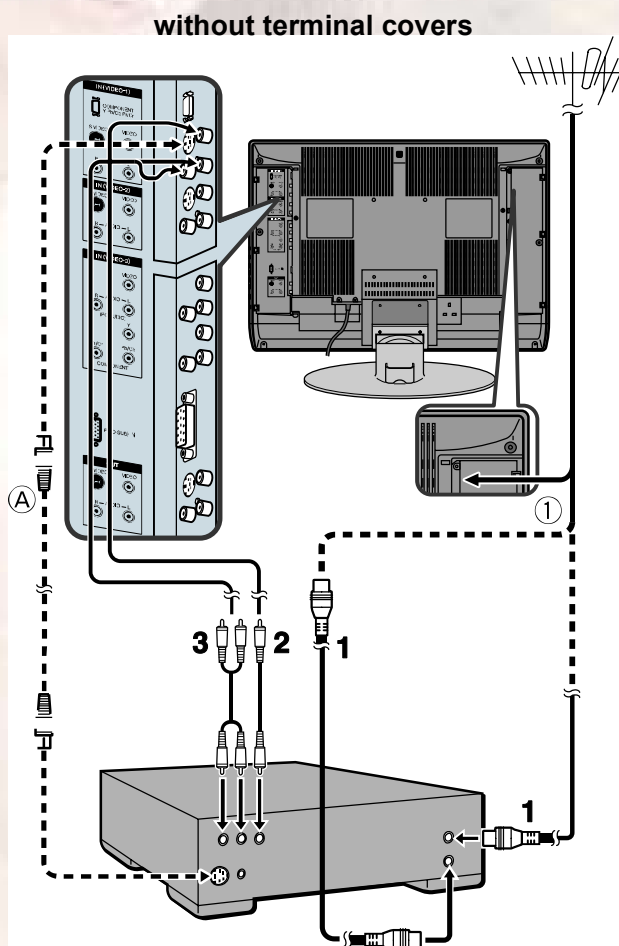
To connect a VCR to the TV with an S-VIDEO cable:

Connect the VCR's S-VIDEO OUT (S-VIDEO output) terminal and TV's S VIDEO terminal with an S-VIDEO cable ②, instead of connecting with a video cable.

Note that the connection with a video cable will be ignored in case you connect a VCR to the TV with both video cable and S-VIDEO cable.

3 Connect the VCR's VIDEO OUT (audio L/R output) terminals and the TV's AUDIO terminals with an audio cable

- To connect additional external devices, please see "Connecting external equipment" on page 41.



Connecting the power cord to the AC outlet

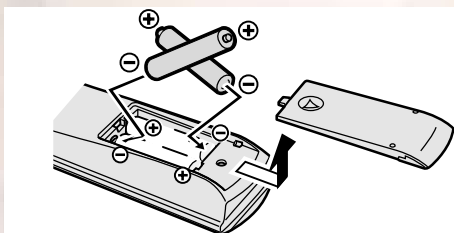
Insert the AC plug on the power cord from the TV into AC outlet.

Caution

- Operate only from the power source specified (AC 110 – 240 V, 50/60 Hz) on the unit.
- Remove the AC plug from the outlet to completely disconnect the TV from the power supply.

Putting the batteries into the remote control

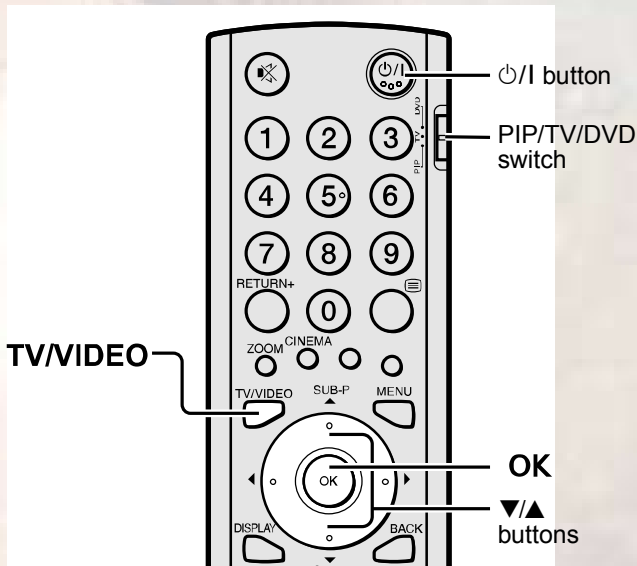
Use two AA/R6 dry cell batteries. Insert the batteries from the $\ominus$ end, making sure the $\oplus$ and $\ominus$ polarities are correct.



- Follow the warnings printed on the batteries.
- Battery life is about six months to one year, depending on how much you use the remote control.
- 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.

Initial settings (Setup tour)

When the TV is first turned on, it goes into the initial settings mode, and you will see the JVC logo. Follow the instructions on the screen display to make the initial settings.



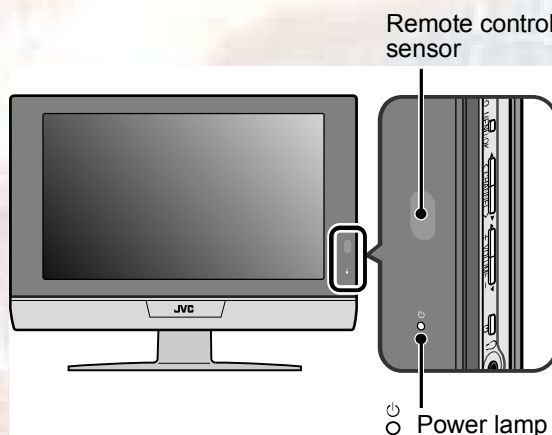
1 Make sure to set the PIP/TV/DVD switch on the remote control to the TV position

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

2 Press the $\odot$ /I button on the remote control

The TV turns on from standby mode and the JVC logo is displayed.

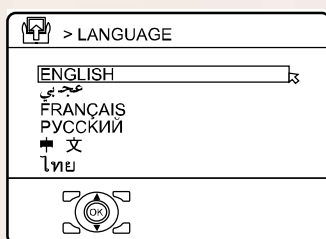
- Check that the AC plug on the power cord from the TV is connected to AC outlet.



- If the JVC logo does not appear this is because your TV has already been turned on for the first time: use the “LANGUAGE”, “TELETEXT LANGUAGE” and “AUTO PROGRAM” functions to make the initial settings. For details, see “SET UP menu” on page 34.

3 Press the **OK** button

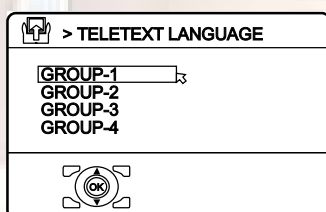
The LANGUAGE menu appears.



D0002(E)-EN

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

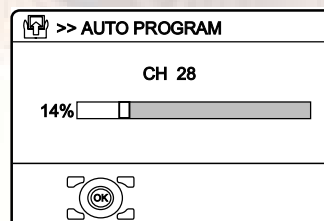
The TELETEXT LANGUAGE menu appears. Set the teletext language group that corresponds to the language of the teletext programme that you want to watch. For details, see “TELETEXT LANGUAGE” on page 39.



D1003-EN

5 Press the **▼/▲** buttons to choose a group. Then press the **OK** button

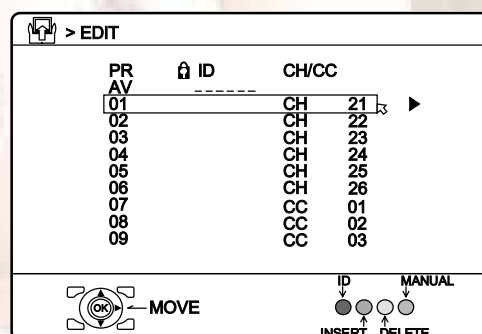
The AUTO PROGRAM function starts. The TV channels you receive are automatically stored in the programme numbers (PR) list.



D0004-EN

- To stop the AUTO PROGRAM function, press the **OK** button.

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

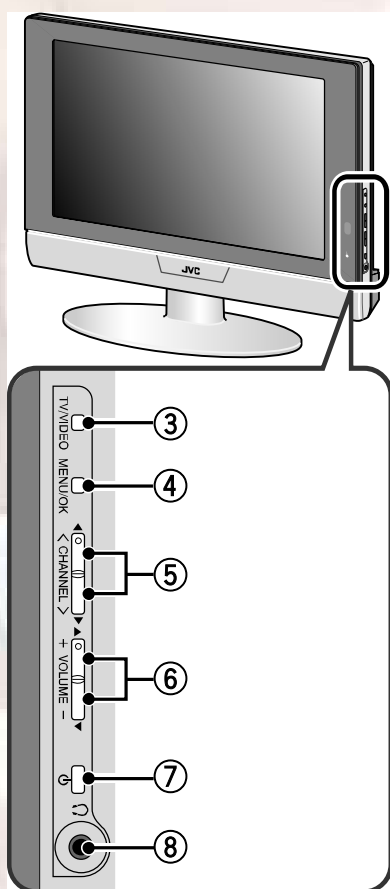
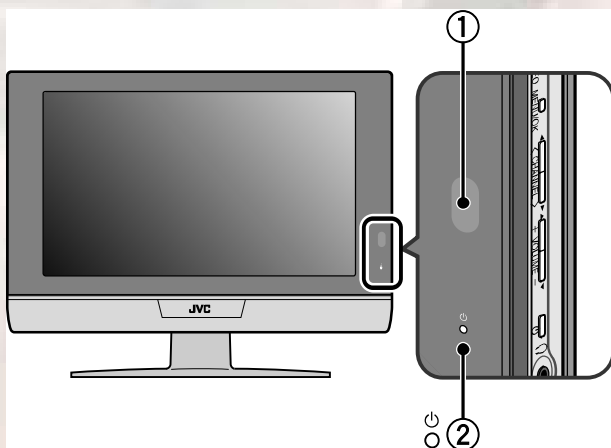


D0038-EN

- You can proceed to edit the programme numbers (PR) list using the EDIT/MANUAL function. For details, see “EDIT/MANUAL” on page 34.
- If a TV channel you want to view is not stored in the programme numbers (PR) list, you can register it using the MANUAL function. For details, see “EDIT/MANUAL” on page 34.
- The AUTO PROGRAM function does not store a TV channel to the programme number PR 0 (AV).
- If you do not need to use the EDIT/MANUAL function, press the **OK** button to close the EDIT menu.

Now, setting up is complete. Please enjoy your new JVC TV!

TV buttons and functions



Refer to the pages in parentheses for details.

- ① Remote control sensor
- ② Power lamp (page 8)
- ③ TV/VIDEO button
- ④ MENU/OK button (page 23)
- ⑤ CHANNEL ∇/Δ buttons
 ∇/Δ (page 23)
- ⑥ VOLUME $-/+$ buttons
 $\blacktriangleleft/\blacktriangleright$ (page 23)
- ⑦ ⏻ (Stand by) button
- ⑧ Headphone jack (mini jack) (page 41)

Turn the TV on from standby mode

Press the ⏻ button or the CHANNEL ∇/Δ buttons to turn the TV on from standby mode.

When the TV is turned on, the power lamp lights blue.

To turn the TV off:

Press the ⏻ button again.

The power lamp goes off.

Caution

- The ⏻ button on the TV does not fully isolate the TV from the AC supply. If you are not going to use the TV for a long period, be sure to disconnect the AC plug from the AC socket.

Choose a TV channel

Press the CHANNEL ∇/Δ buttons to choose a programme number (PR) or a VIDEO terminal

Press the TV/VIDEO button to choose a VIDEO terminal.

Adjust the volume

Press the VOLUME $-/+$ buttons

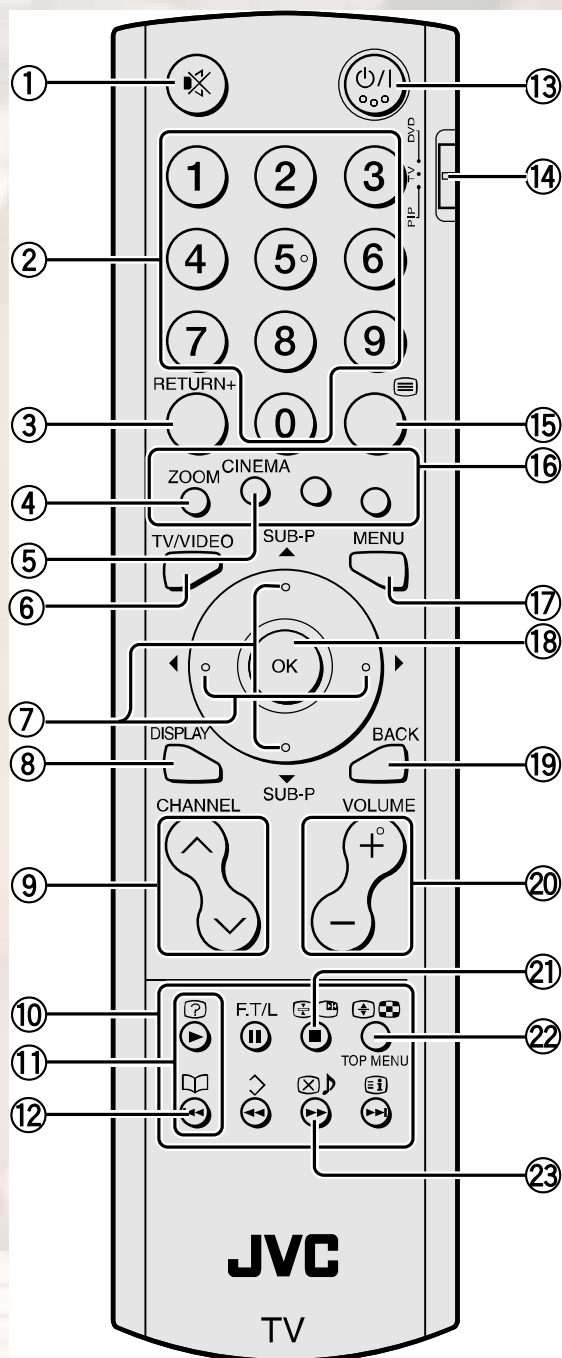
The volume level indicator appears.

Using the Menu

Use the MENU/OK button

Refer to “Using the TV’s menu” (see page 23) for details of using the menu.

Remote control buttons and functions



- ① Muting button
- ② Number buttons
- ③ **RETURN+** button
- ④ **ZOOM** button
- ⑤ **CINEMA** button
- ⑥ **TV/VIDEO** button
- ⑦ ◀/▶/▼/▲ buttons
- ⑧ **DISPLAY** button
- ⑨ **CHANNEL** V/Δ buttons
- ⑩ VCR/DVD/Teletext control buttons
- ⑪ V/Δ buttons
- ⑫ (Favourite) button
- ⑬ ⏻ (Standby) button
- ⑭ PIP/TV/DVD switch
- ⑮ (Text) button
- ⑯ Colour buttons
- ⑰ **MENU** button
- ⑱ **OK** button
- ⑲ **BACK** button
- ⑳ **VOLUME** -/+ buttons
- ㉑ (Freeze) button
- ㉒ (Multi) button
- ㉓ (Select) button

Turn the TV on or off from standby mode

Press the ⏻ (standby) button to turn the TV on or off

When the TV is turned on, the power lamp lights blue.

- The power can be turned on by pressing the **TV/VIDEO** button, **CHANNEL** V/Δ buttons or Number buttons.

To turn the TV on or off, set the PIP/TV/DVD switch on the remote control to the TV position and press the ⏻ button. If the PIP/TV/DVD switch on the remote control is set to the DVD position, the TV will not be turned on or off even if the ⏻ button is pressed.

Choose a TV channel and watch images from external devices

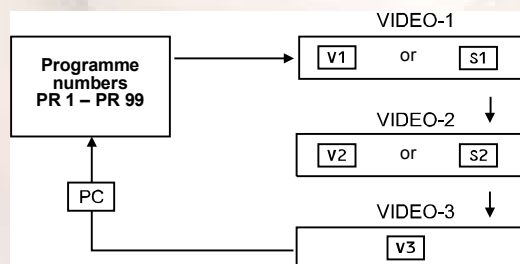
■ Use the number buttons: Enter the programme number (PR) of the channel using the number buttons.

Example:

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

■ Use the **CHANNEL** $\vee/\wedge$ buttons: Press the **CHANNEL** $\vee/\wedge$ buttons to choose the programme number (PR) you want or a VIDEO terminal.

■ Use the **TV/VIDEO** button: Press the **TV/VIDEO** button to choose a VIDEO terminal.



- The leading character is changed from V to S (eg V1 is changed to S1) when VIDEO-1 or VIDEO-2 is connected to the S terminal.
- If you do not have a clear picture or no colour appears, follow the operation procedure “COLOUR SYSTEM” on page 27.
- If you cannot hear the normal sound even if the picture of the TV channel appears normally. Follow the description “EDIT/MANUAL” on page 34 to use the MANUAL function to change the SYSTEM setting.

- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with progressive-scanning component signals.
- If this happens, change the output setting of the connected device to interlace-scanning component signal output. See the instructions that came with the device for more information.
- The PC sound is the same as the VIDEO-3 sound.

To return to a TV channel:

Press the **TV/VIDEO** button, the **CHANNEL** $\vee/\wedge$ 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 34.

Adjust the volume

Press the **VOLUME** $-/+$ buttons to adjust the volume.

The volume level indicator appears and the volume changes as you press the **VOLUME** $-/+$ buttons.

■ Muting the sound

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

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

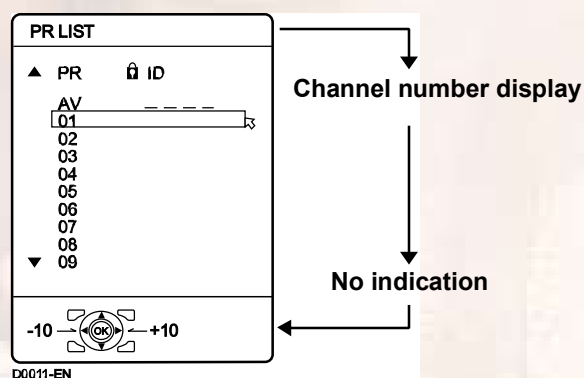
Display function

You can see the channel number of the programme you are watching or the PR LIST.

From the PR LIST, you can choose a channel or VIDEO terminal.

Press the **DISPLAY** button to display the information you want to see.

Pressing the **DISPLAY** button changes the display as follows:



Channel number display:

The channel number and channel name (when the channel name is registered) of the programme you are watching or the VIDEO terminal number is displayed.

PR LIST:

The programme number (PR) and VIDEO terminal list is displayed.

Pressing the **OK** button after choosing the programme number (PR) or VIDEO terminal with the $\blacktriangleleft/\blacktriangleright/\blacktriangledown/\blacktriangleup$ buttons will display the chosen programme or VIDEO terminal.

- For programme numbers (PR) for which the CHANNEL GUARD function is set, the **Ⓔ** (CHANNEL GUARD) mark is displayed. For details see “CHANNEL GUARD” on page 31.
- The VIDEO terminals are registered after the programme number PR 99.
- For programme numbers (PR) which is registered as a favourite channel, the **📖** (favourite) mark is displayed. For details see “Favourite channel function” on page 18.

ZOOM function

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

- The ZOOM mode is fixed at FULL when you are using the TV as a PC screen.

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 according to 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 28.
- 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:

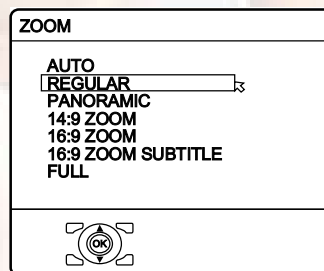
This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.



- 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



D0008-EN

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.



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.

The visible area adjustment is saved even after the TV channel is changed. However, it is cancelled if the following operations are performed.

- The power is turned off/on
- The ZOOM mode is changed
- The (Multi) button, (Freeze) button, or (Text) button is pressed
- The TV is switched between TV mode and VIDEO mode

CINEMA SURROUND function

You can enjoy sounds with a wider ambience.

- This function does not work for the sound from headphones.

Press the **CINEMA** button to select one of CINEMA SURROUND modes

HIGH/LOW:

When you listen to stereo sound, please select HIGH or LOW mode.

You can enjoy sound similar to the experience at the theatre.

When you combine the functions of A.H.B. and BBE, you can enjoy more powerful sound.

- When you set the CINEMA SURROUND function to HIGH mode, there may be slight volume distortion. If that occurs, please switch to LOW mode. The effect of CINEMA SURROUND functions will be less noticeable, but the volume distortion will be corrected.

MONO:

Select the MONO mode, when you listen to the mono sound.

You can enjoy the sound for a wider audience similar to stereo sound.

OFF:

The CINEMA SURROUND function switches off.

- You can choose the CINEMA SURROUND mode with the “SOUND menu” (see page 29).

Using the “Freeze” function

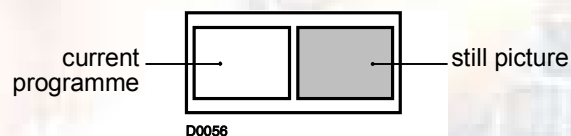
You can view the current programme as a still picture.

1 Set the PIP/TV/DVD switch to the **PIP** position

When using the “Freeze” function, set the PIP/TV/DVD switch to the PIP position.

2 Press the button

The still picture of the current picture will appear.



To cancel the "Freeze" function:

Press the  button, the **CHANNEL** $\nabla/\wedge$ 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 does not work for picture of PC signal.

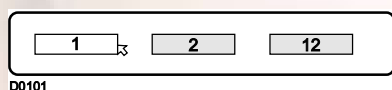
Using the "Multi-picture" function

1 Set the PIP/TV/DVD switch to the PIP position

When using the "Multi-picture" function, set the PIP/TV/DVD switch to the PIP position.

2 Press the button

The "Multi-picture" menu appears.



3 Press the $\blacktriangleleft/\blacktriangleright$ buttons to choose the number of screens and then press the OK button

 Choose to return to one screen.

D0102

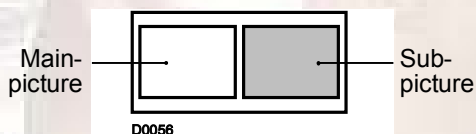
 Choose to change to 2-pictures multi.

D0103

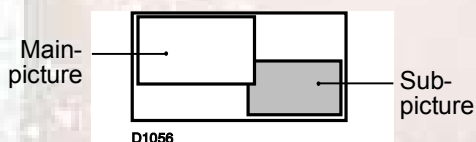
 Choose to change to 12-pictures multi.

D0104

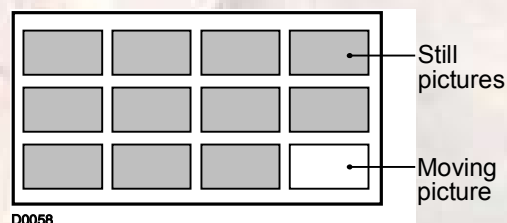
2-pictures multi:



With 1125i and 750p signals, the screen is split into two as shown below.



12-pictures multi:



- When set to 2-pictures multi, you can view a TV picture and a picture from an external device. You cannot view a TV picture on more than one screen at the same time.
- When 12-pictures multi is set, pictures from external devices are not displayed.
- When set to 2-pictures multi, the main-picture can be changed by pressing the **CHANNEL** $\nabla/\wedge$ buttons. The sub-picture screen can be changed by pressing the $\blacktriangledown/\blacktriangle$ buttons. When set to 12-pictures multi and there are more than 12 pictures, the next or previous 12 screens can be displayed by pressing the **CHANNEL** $\nabla/\wedge$ buttons.
- When set to 2-pictures multi, the main-picture sound from the TV speaker can be changed to the sub-picture sound by pressing the  button when the PIP/TV/DVD switch is set to the PIP position. (The speaker mark moves from the main-picture to the sub-picture.) The sound changes to the main-picture sound if the  button is pressed again. When the headphones are connected, you can listen to the sound from the side at which the headphones mark is displayed. No sound comes from the TV speaker.
- The pictures from VIDEO-1 (or VIDEO-3) cannot be displayed in the sub-picture when the VIDEO-1 SETTING (or VIDEO-3 SETTING) is set to COMPONENT (see page 38).
- The "Multi-picture" function does not work for a PC signal.
- When set to 12-pictures multi, press the $\blacktriangleleft/\blacktriangleright/\blacktriangledown/\blacktriangle$ buttons to choose the screen you want to view and the press the **OK** button to display that picture on the whole screen.

- The BLUE BACK function does not work when the “Multi-picture” function is being used.
- The ZOOM function does not work when the “Multi-picture” function is being used.

To return the “Multi-picture” to one screen:

Press the  button, press the  buttons to choose one screen, and then press the **OK** button.

- Pressing the **TV/VIDEO** button will also return the display to one screen.

RETURN PLUS function and Return function

The **RETURN+** button has two functions; the RETURN PLUS function and the Return function. If a channel has been registered as the “Return Channel”, the RETURN PLUS function operates. If there is no setting for the “Return Channel”, the Return function operates.

■ RETURN PLUS

By registering a channel you frequently view as the “Return Channel”, you can select that channel at any time simply by pressing the **RETURN+** button.

To register a TV channel as the “Return Channel”:

Choose the Programme number to which the channel you want to register has been set, and press the **RETURN+** button and hold for more than 3 seconds continuously. “RETURN PLUS PROGRAMMED!” is displayed and the registration is completed.

To cancel a TV channel registered as the “Return Channel”:

While viewing any TV channel, press the **RETURN+** button and hold for more than 3 seconds continuously. “RETURN PLUS CANCELED!” is displayed and the registration is cancelled.

- When you turn off the TV, the registration for the “Return Channel” is cancelled.

- If you want to view the “Return Channel” and another TV channel alternately, first choose a channel other than the “Return Channel”. And then press the **RETURN+** button to change the channel to the “Return Channel”. In this way, you can view two channels alternately by pressing the **RETURN+** button.

■ Return function

The TV temporarily memorises the TV channel that was chosen right before the current TV channel as the “Last Channel”. By pressing the **RETURN+** button, you can alternately view the current TV channel and the “Last Channel”.

If you want to view two channels alternately by using the Return function, first choose one TV channel and then choose the other TV channel with the number buttons. If you choose the TV channel without using the number buttons, there are cases where a channel other than the one you first chose is registered as the “Last Channel”.

Favourite channel function

You can register your favourite TV channels (PR 1 – PR 99) in the number buttons 1 to 4. After registering, the channel can be called by pressing the  (favourite) button and a number button 1 to 4.

■ Favourite channel registration

1 In the normal screen, choose a TV channel (PR 1 – PR 99) that you want to register

For details, refer to “Choose a TV channel and watch images from external devices” on page 12.

2 Press and hold the (favourite) button for three seconds or more

Then “SET 1-4?” appears on the screen.

3 Press one of the number buttons 1 to 4

The current channel is registered in the pressed number button. After “PROGRAMMED!” appears on the screen, the favourite channel icon appears at the top-right of the screen.

- If the channel you are trying to register is already registered in one of the other number buttons 1 to 4, “NOT AVAILABLE” appears on the screen.
- Channels locked with the CHANNEL GUARD function cannot be registered.
- If AUTO PROGRAM is performed, the registered favourite channels are reset.

- When you want to delete a favourite channel, delete the set channel and set contents with FAVOURITE SETTING (see page 33) in the FEATURES menu.

■ Calling the favourite channel

1 In the normal screen, press the (favourite) button

Then “FAVOURITE1-4?” appears.

2 Press one of the number buttons 1 to 4

The called favourite channel appears on the screen.

- If a number button in which no channel is registered is pressed, “NO MEMORY” appears on the screen.

■ Setting the picture effect

When a favourite channel has been chosen with the  (favourite) button and number buttons 1 to 4, picture effect settings can be memorised for each favourite channel by setting the picture effects in the PICTURE menu (see page 25).

The following items in the PICTURE menu (see page 25) are memorised.

PICTURE MODE
BACK LIGHT
CONTRAST
BRIGHT
SHARP
COLOUR
TINT
WHITE BALANCE
DIGITAL VNR
COLOUR SYSTEM

The last setting made for each item is memorised.

Operating a JVC brand DVD player

These buttons will operate a JVC brand 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 PIP/TV/DVD switch to the DVD position

When you are operating the DVD player, set the switch to the DVD position.

- You can turn the DVD player on or off with the  (standby) button.
- You can also press the **MENU** or **TOP MENU** button and display the DVD disc menu screen, and then operate by pressing the , , ,  buttons.

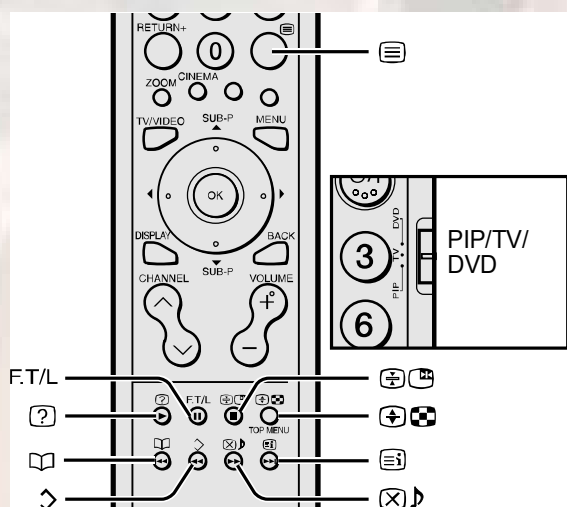
2 Press the DVD control button to control your DVD player

- If your DVD player 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 cannot turn the TV on or off when the PIP/TV/DVD switch is set to the DVD position.

When you turn the TV on or off, set the PIP/TV/DVD switch to the TV position.

Teletext function



Basic operation

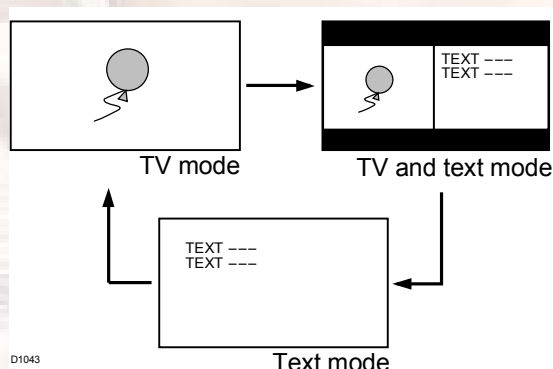
1 Choose a TV channel with a teletext broadcast

2 Set the PIP/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 **CHANNEL  buttons, number buttons or colour buttons**

To return to the TV mode:

Press the **TV/VIDEO** button, **BACK** 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.
- If characters on a teletext programme do not appear properly, change the TELETEXT LANGUAGE setting. For details, see “TELETEXT LANGUAGE” on page 39.

Using the List Mode

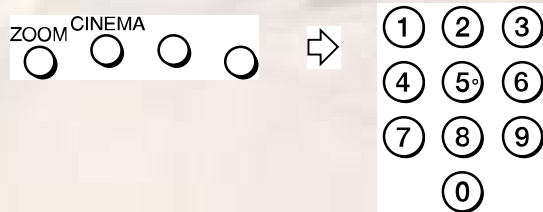
You can store the numbers of your favourite teletext pages in memory and call them up quickly using the colour buttons.

■ 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 the $\triangleright$ (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 enter the List mode**

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



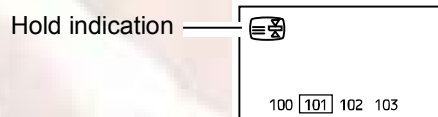
To exit the List mode:

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 (Hold) button**



To cancel the Hold function:

Press HOLD (Hold) button again.

Sub-page

Some teletext pages include sub-pages that are automatically displayed.

- 1 Choose a teletext page that includes sub-pages**

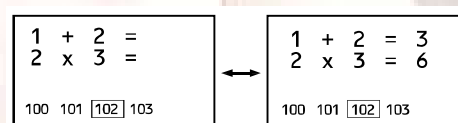
Sub-page numbers that can be viewed are automatically displayed at the top of the screen.

- 2 Press the $\triangleleft/\triangleright$ buttons to choose a sub-page number**

Reveal

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

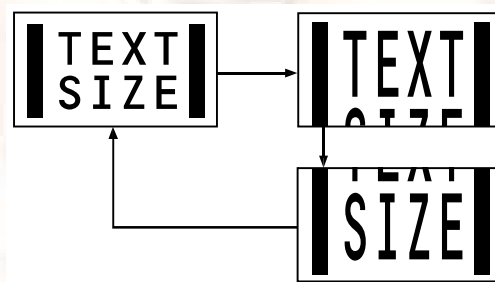
Each time you press the REVEAL (Reveal) button, text is hidden or revealed



Size

You can double the height of the teletext display.

- Press the SIZE (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 (Cancel) button

The TV programme appears. When the TV finds the teletext page, its page number appears in the upper left of the screen.

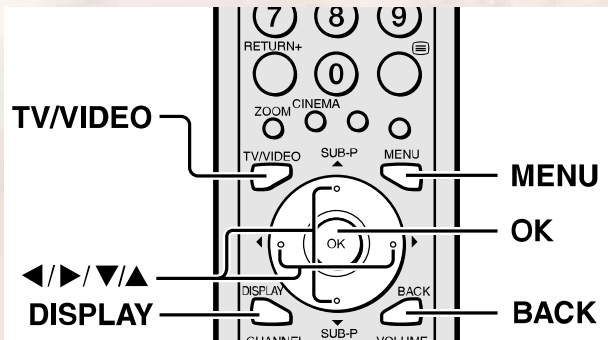
3 Press (Cancel) button to return to a teletext page when the page number is on the screen

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

Using the TV's menu

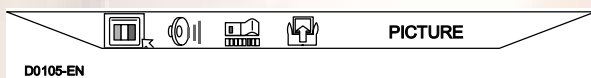
This TV has a number of functions you can operate using menus. To use all your TV's functions, you need to understand the basic menu operating techniques fully.

Buttons used to operate the menus

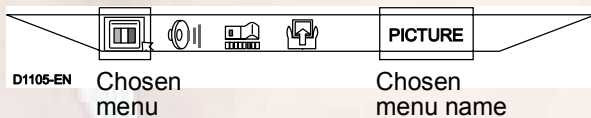


Basic operation

- 1 Press the **MENU** button to display the menu bar



- 2 Press the **◀/▶** buttons to choose the menu you want to use and then press the **OK** button



- 3 Press the **▼/▲** buttons to choose the item to be set, press the **◀/▶** buttons to set the item, and then press the **OK** button

If there are sub-menus, use the **◀/▶/▼/▲** buttons to operate them.

- Press the **BACK** button to return to the previous menu.
- Press the **TV/VIDEO** or **MENU** button to exit from the menu.
- Some menu items may not be operated or set depending on the TV status or other menu item settings. Menu items that cannot be operated or set are displayed in grey in the menu and cannot be chosen.

Types of menu



D0106

PICTURE menu

Choose to set the screen settings.



D0107

SOUND menu

Choose to set the sound settings.



D0108

FEATURES menu

Choose to set the sleep timer and child lock settings.



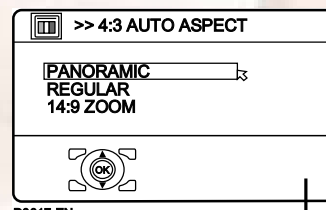
D0109

SET UP menu

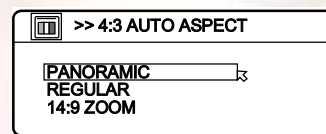
Choose to edit the channels or set the display language settings.

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

The menu guide area can be made to appear and disappear for some menus. While the menu is displayed, press the **DISPLAY** button to change between the guide area being displayed and not displayed.



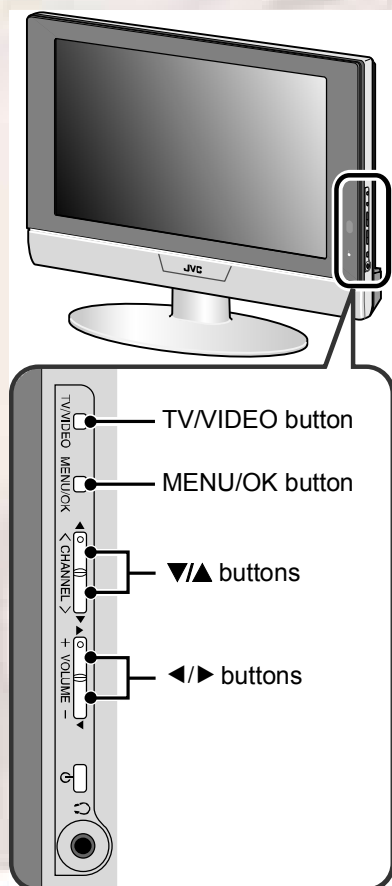
Guide area



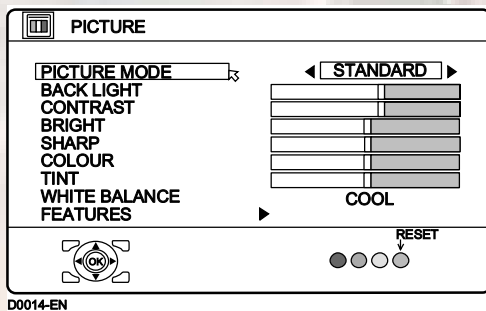
- The guide area for some menus will still be displayed even if the **DISPLAY** button is pressed. This is not a fault.

Operation with the buttons on the TV

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



PICTURE menu



- While the PICTURE menu is displayed, pressing the blue button will set the BACK LIGHT, CONTRAST, BRIGHT, SHARP, COLOUR, TINT settings to their default settings.
- When watching the picture from VIDEO-1 to VIDEO-3 or the PC, picture effect settings can be memorised for each external input by setting the picture effects in the PICTURE menu. The following items in the PICTURE menu are memorised.
 PICTURE MODE
 BACK LIGHT
 CONTRAST
 BRIGHT
 SHARP
 COLOUR
 TINT
 WHITE BALANCE
 DIGITAL VNR
 COLOUR SYSTEM
 The last setting made for each item is memorised.

PICTURE MODE

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

BRIGHT:

Heightens contrast and sharpness.

STANDARD:

Standardises picture adjustment.

SOFT:

Softens contrast and sharpness.

BACK LIGHT

You can adjust the back light.

- ◀ : darker
- ▶ : brighter

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

TINT

You can adjust the picture tint.

- ◀ : reddish
- ▶ : greenish
- You can change the TINT setting (picture hue) when the colour system is NTSC 3.58, or NTSC 4.43.

WHITE BALANCE

You can select one of three WHITE BALANCE 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 WHITE BALANCE 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.

MID:

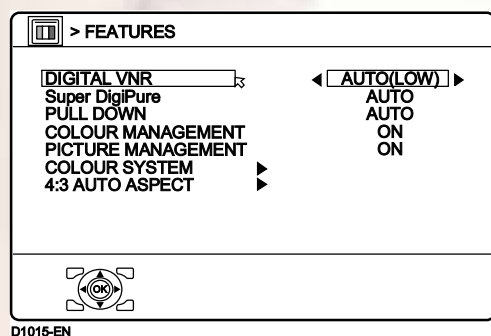
The normal white colour.

WARM:

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

FEATURES

Choose FEATURES and press the **OK** or ► button to display the sub-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(LOW)/AUTO(HIGH):

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 you use the AUTO(LOW) setting if you can. If you set the DIGITAL VNR function to AUTO(LOW) but still notice some noise, change the setting from AUTO(LOW) to AUTO(HIGH).

MIN:

The level of the DIGITAL VNR effect is set to the minimum. If you set the DIGITAL VNR function to AUTO(LOW) but feel that the sharpness of the original picture has not been reproduced fully, change the setting from AUTO(LOW) 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(HIGH) but still notice some noise, change the setting from AUTO(HIGH) to MAX.

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

■ 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.

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.

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.

■ PULL DOWN

The PULL DOWN function displays a cinema film picture more smoothly and naturally on the screen.

AUTO:

The television automatically recognises the type of signal and turns the function on and off.

ON:

This function is turned on.

OFF:

This function is turned off.

■ 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.

■ PICTURE MANAGEMENT

The PICTURE MANAGEMENT function makes it easier to see the dark areas when a picture has many dark areas, and makes it easier to see the bright areas when a picture has many bright areas.

Normally use with this function on.

ON:

PICTURE MANAGEMENT function is turned on.

OFF:

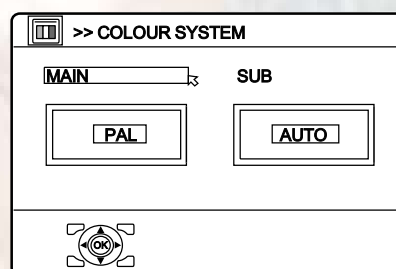
PICTURE MANAGEMENT function is turned off.

■ 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 or ► 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.

- 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.
- COLOUR SYSTEM cannot be chosen when you are watching the PC picture.

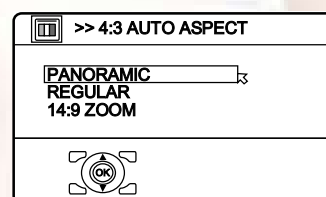
For colour system in your country or region, refer to the table below:

Area	Country or Region	System
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, India, etc.	PAL
	China, Vietnam, etc.	PAL
	Hong Kong, etc.	PAL
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM
	Philippines, Taiwan, Myanmar, etc.	NTSC
Europe	Russia, etc.	SECAM
	Czech Republic, Poland, etc.	PAL
	Germany, Holland, Belgium, etc.	PAL
	UK, etc.	PAL
Oceania	Australia, New Zealand, etc.	PAL
Africa	Republic of South Africa, etc.	PAL
	Nigeria, etc.	PAL
	Egypt, Morocco, etc.	SECAM

■ 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).

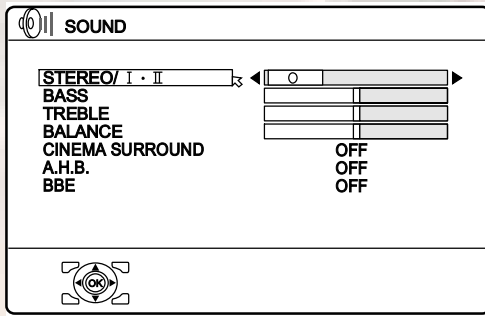
1 Choose 4:3 AUTO ASPECT then press the OK button



D0017-EN

2 Press the ▼/▲ buttons to choose a ZOOM mode

SOUND menu



D0019-EN

- When the headphones are connected, only “STEREO / I • II” can be used.

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 VIDEO modes.

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.

CINEMA SURROUND

You can enjoy Surround sound with a “live” effect by using the CINEMA SURROUND function.

- You can choose a CINEMA SURROUND mode from HIGH, LOW, MONO and OFF modes. For details, see “CINEMA SURROUND function” on page 15.
- You can also operate the CINEMA SURROUND function with the **CINEMA** button. For details, see “CINEMA SURROUND function” on page 15.

A.H.B. (Active Hyper Bass)

Used when you want to emphasise the bass sound.

ON:

This function is turned on.

OFF:

This function is turned off.

BBE

BBE function restores clarity and presence for better speech intelligibility and musical realism.

ON:

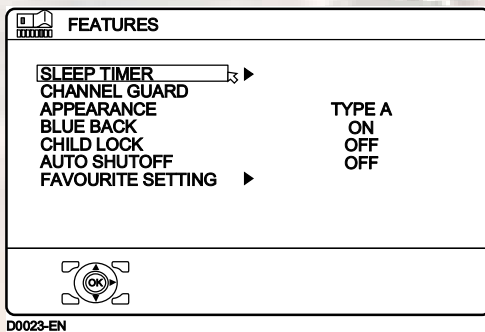
This function is turned on.

OFF:

This function is turned off.

-
- Manufactured under license from BBE Sound, Inc. Licensed by BBE Sound, Inc. under USP4638258, 5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.
-

FEATURES menu



To cancel the SLEEP TIMER function:

Press the ◀ button to set the period of time to “OFF”.

CHANNEL GUARD

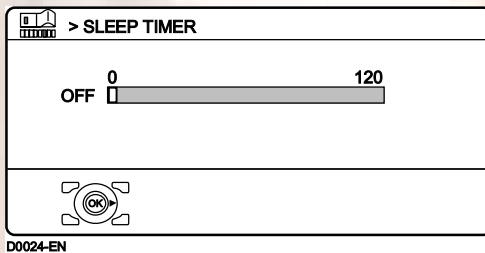
When there is a TV channel you do not want your children to watch, you can use the CHANNEL GUARD function to lock out the TV channel. Even when a child chooses a programme number (PR) for a locked TV channel the screen will change to blue and display  (CHANNEL GUARD) so the TV channel cannot be viewed. 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.

SLEEP TIMER

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

1 Choose SLEEP TIMER. Then press the OK or ▶ 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

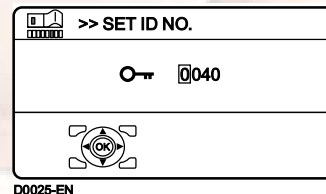
You can set the period of time for up to 120 minutes (2 hours) in 10 minute steps.

- 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 set the CHANNEL GUARD function

1 Choose CHANNEL GUARD, then press the 0 button

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



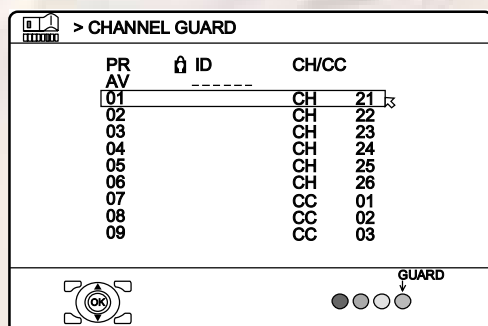
2 Set the ID number to your liking

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 CHANNEL GUARD 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 **CHANNEL GUARD** function. Then press the **OK** button

⏏ (CHANNEL GUARD) appears and the TV channel is locked.

To reset the **CHANNEL GUARD** function:

Press the blue button again.

⏏ (CHANNEL GUARD) disappears.

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

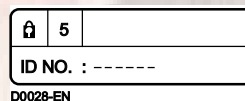
■ To view a locked TV channel

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 **⏏** (CHANNEL GUARD) appears. You cannot view the TV channel.



2 Press the **DISPLAY** 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 CHANNEL GUARD function". After confirming the ID number, press the **TV/VIDEO** button to exit the menu.

- Even if you reset the lock temporarily, it does not mean that the CHANNEL GUARD 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 CHANNEL GUARD function, you must perform the operation "To set the CHANNEL GUARD 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 **DISPLAY** button.

APPEARANCE

Press the ◀/▶ button and choose the format in which the channel number is displayed from the four types: TYPE A, TYPE B, TYPE C, and TYPE D.

- Set to TYPE D when shipped from factory. TYPE D sets all screens to semitransparent. The menu screens are not semitransparent when set to a type other than TYPE D.

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

You can disable the front control buttons of the TV. When this function is set to ON, the TV can be operated only by using the remote control.

Use this function to prevent children from operating the TV at their own discretion (without parent consent).

ON:

This function is turned on.

OFF:

This function is turned off.

When you disconnect the AC plug, the CHILD LOCK will be cancelled.

AUTO SHUTOFF

You can set the power to turn off if no signal is received and no operation is performed for about 15 minutes or longer after the end of a broadcast.

ON:

This function is turned on.

OFF:

This function is turned off.

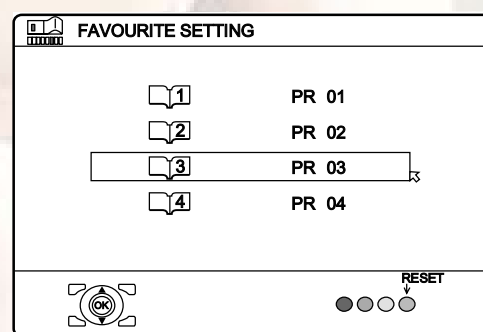
- The AUTO SHUTOFF function does not turn off the TV's main power.
- The AUTO SHUTOFF function does not work for the VIDEO mode or a picture from a PC signal.

FAVOURITE SETTING

Chose when deleting the favourite channels registered in the buttons 1 to 4.

1 Choose FAVOURITE SETTING, then press the OK or ▶ button

The FAVOURITE SETTING menu appears.



D0112-EN

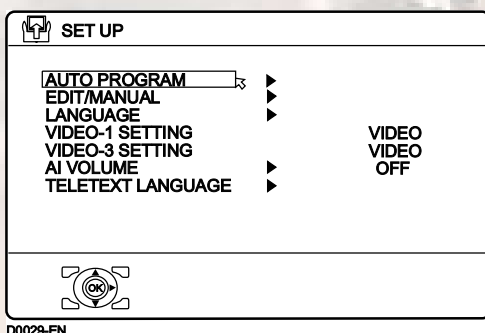
2 Press the ▼/▲ buttons and chose the favourite channel that you want to delete

3 Press the blue button

The chosen favourite channel and set contents are deleted.

- For details of the favourite channels, see "Favourite channel function" on page 18.

SET UP menu



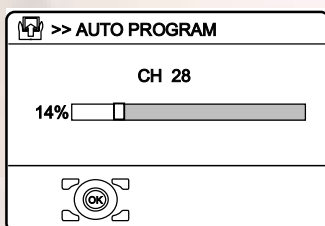
D0029-EN

AUTO PROGRAM

You can again perform the AUTO PROGRAM function TV channel automatic registration which was performed in the “Initial settings (Setup tour)” (page 8).

1 Choose **AUTO PROGRAM**, then press the **OK** or **▶** button

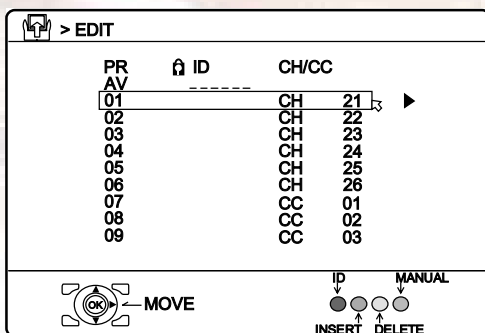
The AUTO PROGRAM function starts. The TV channels you receive are automatically stored in the programme numbers list.



D0004-EN

- To stop the AUTO PROGRAM function, press the **OK** button.

2 After the TV channels have been stored in the programme number list, the **EDIT** menu appears



D0038-EN

- You can proceed to edit the programme numbers list using the **EDIT/MANUAL** function. For details, see “**EDIT/MANUAL**” on page 34.
- If a TV channel you want to view is not stored in the programme numbers list, you can register it using the **MANUAL** function. For details, see “**EDIT/MANUAL**” on page 34.
- The **AUTO PROGRAM** function does not store a TV channel to the programme number PR 0 (AV).
- If you do not need to use the **EDIT/MANUAL** function, press the **OK** button to exit the **EDIT** menu.
- Starting the **AUTO PROGRAM** deletes the registered favourite channel.

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:

MOVE:

This function changes the 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 the 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).

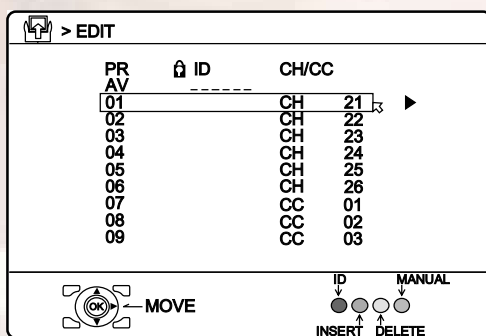
Caution

- 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 CHANNEL GUARD function has been set cancels the CHANNEL GUARD function for that channel.
- When a TV channel has already been registered in PR 99, using the INSERT function deletes that TV channel.

Basic operation

- Choose EDIT/MANUAL, then press the OK or ► button

The EDIT menu appears.



- Follow the description for the function you want to use

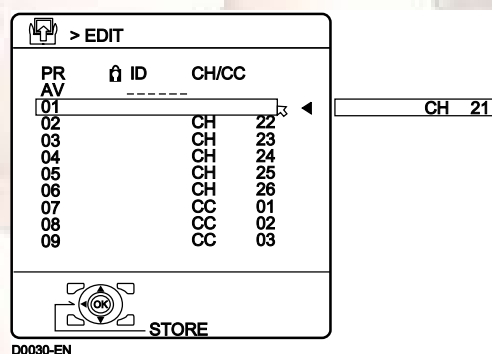
3 Press the OK button to complete the settings

- For programme number PR 0, "AV" appears in the programme numbers (PR) list.
- A VIDEO 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 44.

MOVE

- Press the ▼/▲ buttons to choose a TV channel

- Press the ► button to start the MOVE function



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

To cancel the MOVE function:
Press the **BACK** button.

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

■ DELETE

- 1 Press the ▼/▲ buttons to choose a TV channel
- 2 Press the yellow button to delete the TV channel
The TV channel is deleted from the programme numbers (PR) list.

■ ID

- 1 Press the ▼/▲ buttons to choose a TV channel
- 2 Press the red button to start the ID function
- 3 Enter a channel name (ID). Press the ▼/▲ buttons to choose a character. Press the ◀/▶ buttons to move the cursor

PR	AV	ID	CH/CC
01			CH 21
02			CH 22
03			CH 23
04			CH 24
05			CH 25
06			CH 26
07			CH 01
08			CC 02
09			CC 03

D0032-EN

To cancel the ID function:
Press the **BACK** button.

- 4 Press the **OK** button to give a channel name to a TV channel

Before performing INSERT operation

- 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 44 based on the Channel number of the TV channel.

■ INSERT

- 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

PR	AV	ID	CH/CC
01			CH 21
02			CH 22
03			CH 23
04			CH 24
05			CH 25
06			CH 26
07			CH 01
08			CC 02
09			CC 03

D0034-EN

- 3 Press the ▼/▲ buttons to choose “CC” or “CH” according to the CH/CC number of the TV channel

To cancel the INSERT function:
Press the **BACK** button.

- 4 Press the number buttons to enter the remaining CH/CC number

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.

■ MANUAL

- 1 Press the ▼/▲ buttons to choose a programme number (PR) for a new TV channel

- 2 Press the blue button to activate the MANUAL function

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

> MANUAL

PR	ID	CH/CC	SYSTEM
01	----	CH 21	
02		CH 22	
03		CH 23	
04		CH 24	
05		CH 25	
06		CH 26	
07		CC 01 (B/G)	
08		CC 02	
09		CC 03	

SEARCH+ FINE-
SEARCH- FINE+

D0035-EN

To cancel the MANUAL function:
Press the **BACK** button.

- 3 Press the ► button to choose the SYSTEM (sound system) for a TV channel you want to register

- For the sound systems in each country or region, refer to the table below:

Area	Country or Region	System
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, etc.	B/G
	Indonesia, Malaysia, Singapore, Thailand, India, etc.	
	China, Vietnam, etc.	D/K
	Hong Kong, etc.	I
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	B/G
Europe	Philippines, Taiwan, Myanmar, etc.	M
	Russia, etc.	D/K
	Czech Republic, Poland, etc.	D/K
	Germany, Holland, Belgium, etc.	B/G
Oceania	UK, etc.	I
	Australia, New Zealand, etc.	B/G
Africa	Republic of South Africa, etc.	I
	Nigeria, etc.	B/G
	Egypt, Morocco, etc.	B/G

- 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)

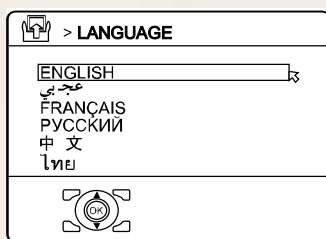
The normal EDIT menu is resumed.

LANGUAGE

The LANGUAGE setting which was performed in the “Initial settings (Setup tour)” (page 8) can be changed.

1 Choose LANGUAGE, then press the OK or ► button

A sub-menu of the LANGUAGE function appears.



D1002-EN

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

VIDEO-1 SETTING/VIDEO-3 SETTING

Set the VIDEO-1 SETTING or VIDEO-3 SETTING correctly according to the video signal input from the external device connected to the VIDEO-1 or VIDEO-3 terminal. If this setting is incorrect, images will not be displayed.

VIDEO:

If a normal video signal (composite video signal) is input.

COMPONENT:

If a Component video signal (Y, Cb/Pb, Cr/Pr signals) is input.

- For detailed connecting methods, see “Additional preparation” on page 41. This Television is compatible with the 1125i, 625p or 525p video signal only when the component video signal is input.
- When the input signal is 1125i, 625p or 525p, each signal type is displayed at the upper right side on the TV screen by setting the input to VIDEO-1 or VIDEO-3.

AI VOLUME

You can prevent the sudden increase or decrease of sound that occurs when changing the channel to another channel.

ON:

This function is turned on.

OFF:

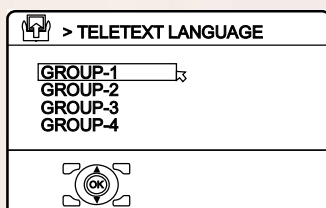
This function is turned off.

- The AI VOLUME function may not operate as expected if the sound input level from a broadcast station is extremely low.
- This function does not work in the VIDEO mode.

TELETEXT LANGUAGE

There are four types of teletext language groups. Set the teletext language group that corresponds to the language of the teletext programme that you want to watch.

1 Choose TELETEXT LANGUAGE, then press the OK or ► button



D1003-EN

2 Press the ▼/▲ buttons to choose a group

Group	Languages
GROUP-1	Turkish, Hungarian, English, German, French, Italian, Spanish, Portuguese, Greek, Swedish, Finnish
GROUP-2	Polish, Serbian, Croatian, Slovenian, Czech, Slovak, Rumanian, Hungarian, German, French, Italian, Swedish, Finnish
GROUP-3	Russian, Bulgarian, Lettish, Lithuanian, Estonian, Ukrainian, Serbian, Croatian, Slovenian, Czech, Slovak, English, German
GROUP-4	Arabic, Czech, Slovak, Hungarian, English, German, French, Italian, Spanish, Portuguese, Swedish, Finnish

3 Press the OK button to complete the setting

The menu disappears.

- Languages that are not included in the teletext language group that you select, the sub-titles of the teletext programme will not be displayed properly.

Displaying a computer screen

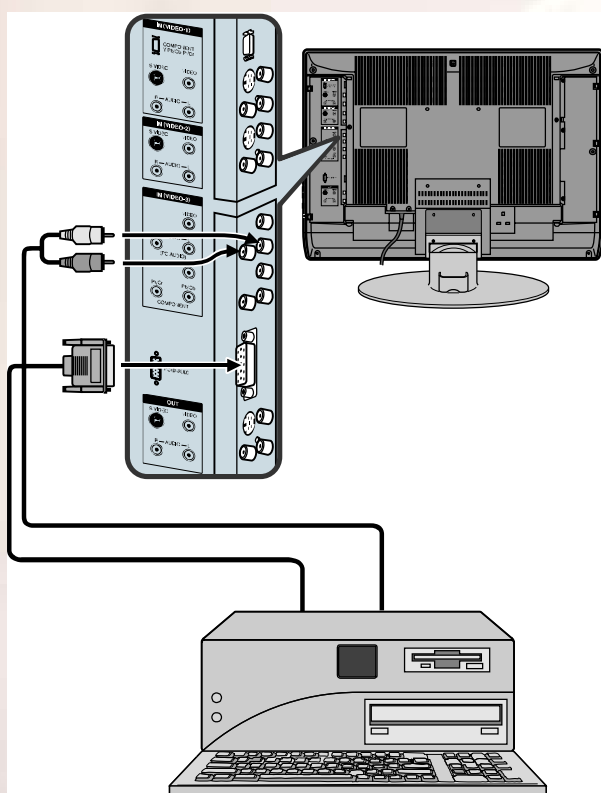
This TV can be used as a computer screen.

Connecting to the computer

Use a D-SUB cable to connect the TV's PC IN terminal to the computer's analogue RGB output terminal.

If you want to listen to the sound from the computer, use an audio cable to connect the VIDEO-3 AUDIO L/R sound input terminal to the computer's sound output terminal.

When the sound from the computer is mono, connect to the VIDEO-3 AUDIO L terminal.



- Refer to the computer manual for a detailed explanation of the connections at the computer side.
- Ensure that the connectors are facing the correct way when connecting.
- After connecting the D-SUB cable, tighten the two screws to fix the connector in place.

Watching images from a computer

After starting the computer, press the TV/VIDEO or CHANNEL V/Δ buttons to choose "PC"

You can listen to the sound when the sound from the computer is connected to the VIDEO-3 AUDIO L/R sound input terminal.

- When the sound from the computer is connected to VIDEO-3, by choosing external input VIDEO-3 the sound from the computer can be listened to, but the images from the computer cannot be seen.

Table of signals for each type of computer

Resolution	Vertical frequency (Hz)	Horizontal frequency (kHz)
640 × 480 (VGA)	60.0	31.5
1024 × 768 (XGA)	60.0	42.0

- * Only the above formats are supported.
- * Even with the above formats and at 60 Hz, some problems may be experienced depending on the quality of the synchronous signal. (Depending on the quality, some pictures may not be displayed properly.)
- * Apple Macintosh* computers are not supported.

When a picture is not displayed

Check the computer's refresh rate and set it to 60 Hz. Refer to the computer's instruction manual.

Computers which cannot have their refresh rate set to 60 Hz cannot be used with this unit.

- * Apple Macintosh is a registered trademark of Apple Computer, Inc.

Additional preparation

Connecting external equipment

Connect the equipment to the TV, making the correct rear panel and front panel connections.

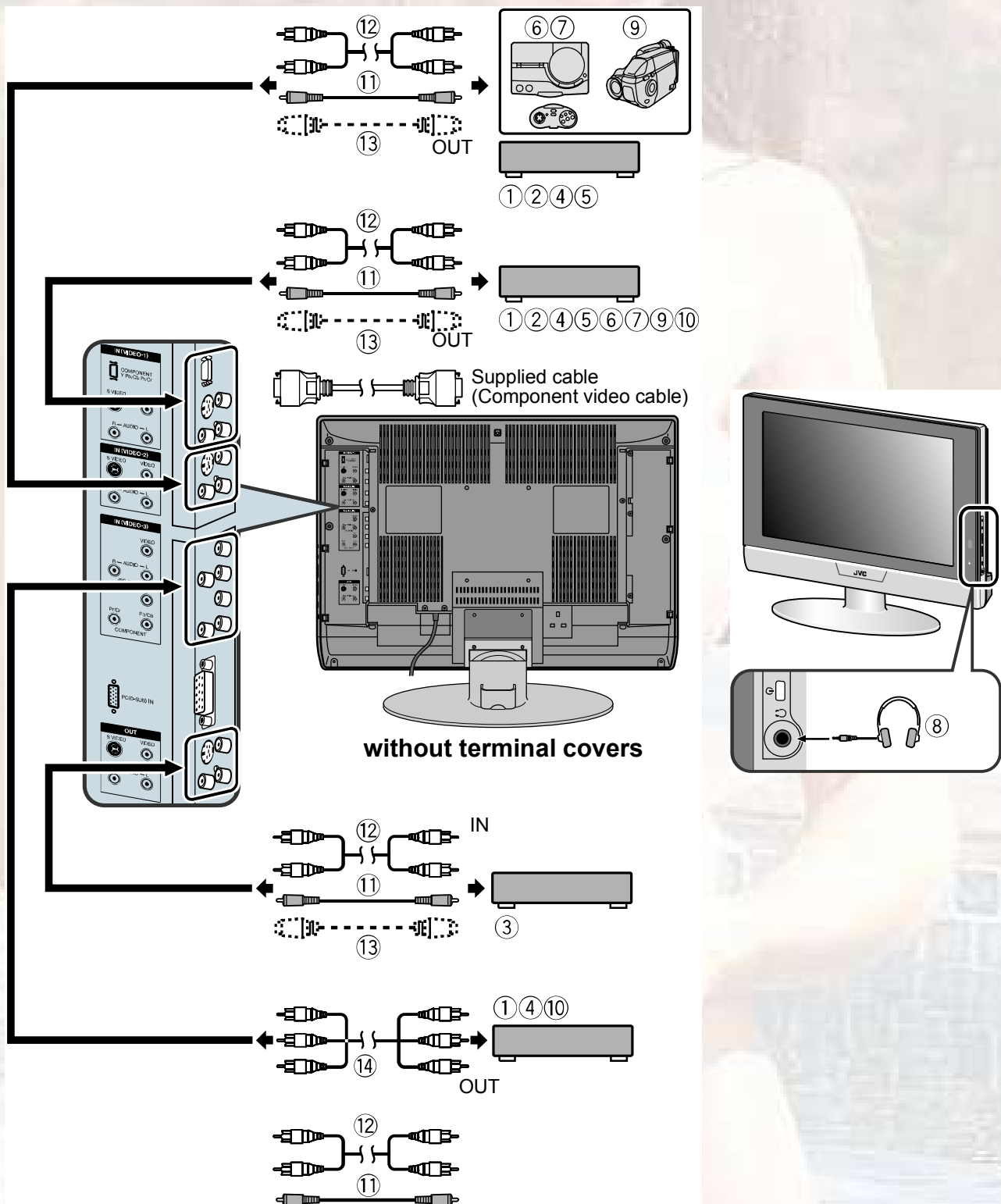
Before connecting anything:

- 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 47 give the details of the VIDEO terminals. If you are connecting equipment not listed in the following connection diagram, see the table to choose the best VIDEO terminal.
- Connecting cables are not supplied.
- If the VCR’s audio output is in mono, connect the VCR’s AUDIO OUT (audio output) terminal and the TV’s VIDEO-3 AUDIO L terminal with an audio cable.
- Use the supplied cable to connect the component device to the VIDEO-1 COMPONENT Y Pb/Cb Pr/Cr terminal.

- ① VCR (composite signal)
- ② VCR (S-VIDEO signal; Y/C)
- ③ VCR for recording (composite signal)
- ④ DVD player (composite signal)
- ⑤ DVD player (S-VIDEO signal; Y/C)
- ⑥ TV game (composite signal)
- ⑦ TV game (S-VIDEO signal; Y/C)
- ⑧ Headphones
- ⑨ Camcorder (composite signal/S-VIDEO signal; Y/C)
- ⑩ DVD player (component video signals; Y, Pb/Cb, Pr/Cr)
- ⑪ Video cable
- ⑫ Audio cable
- ⑬ S-VIDEO cable
- ⑭ Component cable

■ Connecting the PC

For details, see “Connecting to the computer” on page 40.



■ Connecting headphones

Connect the headphones with a stereo mini-jack (3.5 mm diameter) to the headphone jack.

- No sound comes from the TV speakers when the headphones are connected.

■ TV output from the OUT terminal

The video/sound signal of a TV channel you are viewing is always output from the OUT terminal.

- No signal will output through the S VIDEO terminal when you are not viewing images coming from the S VIDEO input. In this case, use the VIDEO terminal instead of the S VIDEO terminal.
- Changing over a programme number (PR) also changes over the TV output from the OUT terminal.
- When using the VIDEO-1 COMPONENT Y Pb/Cb Pr/Cr terminal input, VIDEO-3 COMPONENT input or PC IN input, the sound signal is output from the OUT terminal but the picture signal is not output.
- Teletext programmes cannot be output.

■ Connecting speakers/amplifier

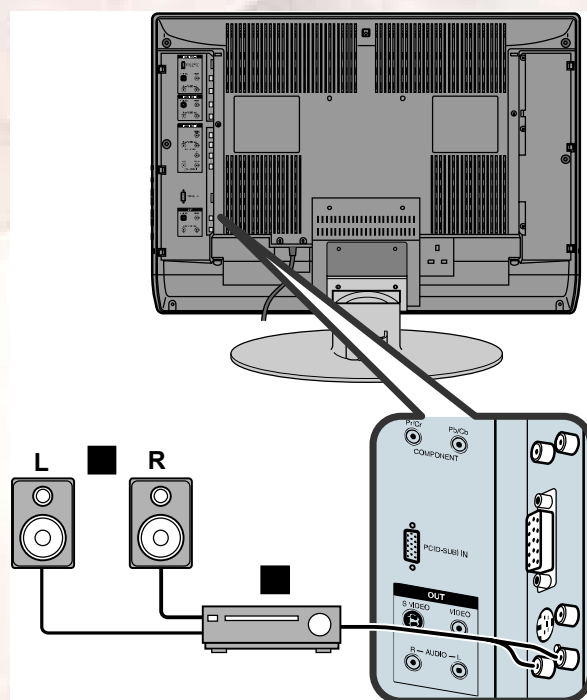
While referring to the audio equipment connection diagram, connect the audio equipment you want to the TV.

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 effecting the TV screen, use magnetic-shielded speakers for the front speakers.
- Note that connecting cables are not supplied.

without terminal covers



- 1 Amplifier
- 2 External speakers (Magnetic-shielded type)

- The output from the 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 36, find the CH/CC number corresponding to the Channel number of the TV channel from this table.

US: The US channel numbers are the channel numbers used in the United States, Philippines, etc.

CCIR: The CCIR channel numbers are the channel numbers used in the Middle East, Southeast Asia, etc.

OIRT: The OIRT channel numbers are the channel numbers used in Eastern Europe, Russia, Vietnam, etc.

AUSTRALIA: The AUSTRALIA channel numbers are the channel numbers used in Australia, etc.

ENGLISH

CH	Channel			
	US	CCIR	OIRT	AUSTRALIA
CH02	US-2	E2		AU-0
CH03	US-3	E3		AU-1
CH04	US-4	E4	R2	AU-2
CH05	US-5	E5	R6	AU-6
CH06	US-6	E6	R7	AU-7
CH07	US-7	E7	R8	AU-8
CH08	US-8	E8	R9	AU-9
CH09	US-9	E9		
CH10	US-10	E10	R10	AU-10
CH11	US-11	E11	R11	AU-11
CH12	US-12	E12	R12	
CH13	US-13			
CH14	US-14, W+29			
CH15	US-15, W+30			
CH16	US-16, W+31			
CH17	US-17, W+32			
CH18	US-18, W+33			
CH19	US-19, W+34			
CH20	US-20, W+35			
CH21	US-21, W+36	E21		
CH22	US-22, W+37	E22		
CH23	US-23, W+38	E23		
CH24	US-24, W+39	E24		
CH25	US-25, W+40	E25		
CH26	US-26, W+41	E26		
CH27	US-27, W+42	E27		
CH28	US-28, W+43	E28		
CH29	US-29, W+44	E29		
CH30	US-30, W+45	E30		
CH31	US-31, W+46	E31		
CH32	US-32, W+47	E32		
CH33	US-33, W+48	E33		
CH34	US-34, W+49	E34		
CH35	US-35, W+50	E35		
CH36	US-36, W+51	E36		
CH37	US-37, W+52	E37		
CH38	US-38, W+53	E38		
CH39	US-39, W+54	E39		
CH40	US-40, W+55	E40		
CH41	US-41, W+56	E41		
CH42	US-42, W+57	E42		
CH43	US-43, W+58	E43		
CH44	US-44, W+59	E44		
CH45	US-45, W+60	E45		
CH46	US-46, W+61	E46		
CH47	US-47, W+62	E47		
CH48	US-48, W+63	E48		
CH49	US-49, W+64	E49		
CH50	US-50, W+65	E50		
CH51	US-51, W+66	E51		
CH52	US-52, W+67	E52		
CH53	US-53, W+68	E53		
CH54	US-54, W+69	E54		
CH55	US-55, W+70	E55		
CH56	US-56, W+71	E56		
CH57	US-57, W+72	E57		
CH58	US-58, W+73	E58		
CH59	US-59, W+74	E59		
CH60	US-60, W+75	E60		
CH61	US-61, W+76	E61		
CH62	US-62, W+77	E62		
CH63	US-63, W+78	E63		
CH64	US-64, W+79	E64		
CH65	US-65, W+80	E65		
CH66	US-66, W+81	E66		
CH67	US-67, W+82	E67		
CH68	US-68, W+83	E68		
CH69	US-69, W+84	E69		

CC	Channel			
	US	CCIR	OIRT	AUSTRALIA
CC01		S-1		AU-5
CC02		S-2		
CC03		S-3		
CC04		S-4		
CC05		S-5		
CC06		S-6		AU-5A
CC07		S-7		
CC08		S-8		
CC09		S-9		
CC10		S-10		
CC11		S-11		
CC12		S-12		
CC13		S-13		
CC14	A	S-14		
CC15	B	S-15		
CC16	C	S-16		
CC17	D	S-17		
CC18	E	S-18		
CC19	F	S-19		
CC20	G	S-20		
CC21	H	S-21		
CC22	I	S-22		
CC23	J	S-23		
CC24	K	S-24		
CC25	L	S-25		
CC26	M	S-26		
CC27	N	S-27		
CC28	O	S-28		
CC29	P	S-29		
CC30	Q	S-30		
CC31	R	S-31		
CC32	S	S-32		
CC33	T	S-33		
CC34	U	S-34		
CC35	V	S-35		
CC36	W	S-36		
CC37	W+1	S-37		
CC38	W+2	S-38		
CC39	W+3	S-39		
CC40	W+4	S-40		
CC41	W+5	S-41		
CC42	W+6			
CC43	W+7			
CC44	W+8			
CC45	W+9			
CC46	W+10			
CC47	W+11			
CC48	W+12			
CC49	W+13			
CC50	W+14			
CC51	W+15			
CC52	W+16			
CC53	W+17			
CC54	W+18			
CC55	W+19			
CC56	W+20			
CC57	W+21			
CC58	W+22			
CC59	W+23			
CC60	W+24			
CC61	W+25			
CC62	W+26			
CC63	W+27			
CC64	W+28			
CC75		X		
CC76		Y	R3	
CC77		Z	R4	AU-3
CC78		Z+1	R5	
CC79		Z+2		AU-4
CC95	A-5			
CC96	A-4			
CC97	A-3			
CC98	A-2			
CC99	A-1			

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

- Is the mains plug connected to the mains outlet?
- Make sure you set the PIP/TV/DVD switch to the TV position. You cannot turn the TV on when the PIP/TV/DVD switch is set to the DVD position.

■ If you cannot turn off the TV

- Make sure you set the PIP/TV/DVD switch to the TV position. You cannot turn the TV off when the PIP/TV/DVD switch is set to the 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 33 to change the BLUE BACK function setting to OFF.
- 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 34 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 27 to try to solve the trouble.
- Have the COLOUR and BRIGHT settings been adjusted properly? Follow the description “BRIGHT” and “COLOUR” on page 25 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.
- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with progressive-scanning component signals. If this occurs, change the output setting of the connected device to interlace-scanning component signal output. See the instructions that came with the device for more information.

■ Poor sound

- Have you adjusted BASS or TREBLE properly? If not, follow the description "BASS" or "TREBLE" on page 29.
- 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 29 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 8 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 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/VIDEO** button to return to the ordinary TV programme, and then try operating the menus.
- If the TV suddenly stops responding, disconnect the power cord of the TV from the AC outlet. Connect them to the AC outlet again to turn on the TV. If the TV returns to a normal state, it is not a failure.

■ Other issues

- If the CHILD LOCK function set to ON, you cannot operate the TV with the front control buttons of the TV. Set the CHILD LOCK function to OFF.
- When the SLEEP TIMER function or AUTO SHUTOFF 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 fault. This is the time needed for the image to stabilise 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.
- The top of the TV and the screen may become hot during use but this has no affect on the performance of the TV. Make sure that the ventilation holes are not blocked.
- When the picture is unstable, the screen may become white for a moment. This happens when the signal which drives the liquid crystal is missing. This is not a fault.
- When a still image has been displayed for a long period, a faint residual image may remain on the screen for a short time after the power has been turned off or when another image is displayed. This is not a fault and the image will eventually disappear.

Specifications

Model	LT-Z32SX4B/LT-Z32SX4S
Broadcasting systems	B, G, I, D, K, K1, M
Colour systems	PAL, SECAM, NTSC 3.58/4.43 MHz
Channels and frequencies	VHF low channel (VL) = 46.25 to 168.25 MHz VHF high channel (VH) = 175.25 to 463.25 MHz UHF channel (U) = 471.25 to 863.25 MHz • Receives cable channels in mid band (X to Z+2, S1 to S10), super band (S11 to S20) and hyper band (S21 to S41).
Sound-multiplex systems	NICAM (B/G, I, D/K) system, A2 (B/G, D/K) system
Languages displayed by teletext	Please see the table in the description "TELETEXT LANGUAGE" on page 39.
Teletext systems	FLOF (Fastext), TOP, WST (World Standard System)
Power requirements	110 - 240 V AC, 50/60 Hz
Power consumption	161 W (Standby: 2.8 W)
Screen size	Viewable area 80 cm (measured diagonally)
Audio output	Rated Power output: 10 W + 10 W
Speakers	6.6 cm round × 4
VIDEO-1 terminal (COMPONENT)	RCA connector × 3, S VIDEO connector × 1, Component connector × 1 • Video input, S VIDEO (Y/C) input, Component video (Y, Cb/Pb, Cr/Pr) input and Audio L/R inputs are available. • 625p, 525p and 1125i signals are available.
VIDEO-2 terminal	RCA connector × 3, S VIDEO connector × 1 • Video input, S VIDEO (Y/C) input and Audio L/R inputs are available.
VIDEO-3 terminal (COMPONENT)	RCA connector × 3 • Video input, Component video (Y, Cb/Pb, Cr/Pr) input and Audio L/R inputs are available. • 625p, 525p and 1125i signals are available.
OUT terminal	RCA connectors × 3, S VIDEO connector × 1 • Video output, S VIDEO (Y/C) output and Audio L/R outputs are available. • Output level 0.5 Vrms.
PC IN terminal	Analogue RGB D-SUB (15 pin) × 1 • PC signal is available. Refer to page 40 for details of the signals which can be input.
Headphone jack	Stereo mini-jack (3.5 mm in diameter)
Dimensions (W × H × D)	834 mm × 632 mm × 300 mm 834 mm × 568 mm × 108 mm (without stand)
Weight	20.6 kg 17.3 kg (without stand)
Accessories	Remote control unit × 1 (RM-C1830) AA/R6 dry cell battery × 2 Component video cable × 1

We may change the design and specifications 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 would be an infringement of copyright.

Specifications

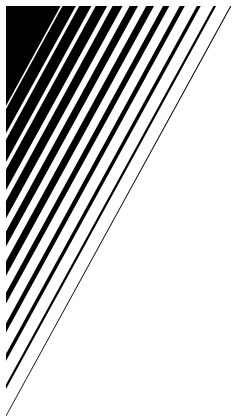
ENGLISH

Model	LT-Z26SX4B/LT-Z26SX4S
Broadcasting systems	B, G, I, D, K, K1, M
Colour systems	PAL, SECAM, NTSC 3.58/4.43 MHz
Channels and frequencies	VHF low channel (VL) = 46.25 to 168.25 MHz VHF high channel (VH) = 175.25 to 463.25 MHz UHF channel (U) = 471.25 to 863.25 MHz • Receives cable channels in mid band (X to Z+2, S1 to S10), super band (S11 to S20) and hyper band (S21 to S41).
Sound-multiplex systems	NICAM (B/G, I, D/K) system, A2 (B/G, D/K) system
Languages displayed by teletext	Please see the table in the description "TELETEXT LANGUAGE" on page 39.
Teletext systems	FLOF (Fastext), TOP, WST (World Standard System)
Power requirements	110 - 240 V AC, 50/60 Hz
Power consumption	125 W (Standby: 2.8 W)
Screen size	Viewable area 64.8 cm (measured diagonally)
Audio output	Rated Power output: 10 W + 10 W
Speakers	6.6 cm round × 4
VIDEO-1 terminal (COMPONENT)	RCA connector × 3, S VIDEO connector × 1, Component connector × 1 • Video input, S VIDEO (Y/C) input, Component video (Y, Cb/Pb, Cr/Pr) input and Audio L/R inputs are available. • 625p, 525p and 1125i signals are available.
VIDEO-2 terminal	RCA connector × 3, S VIDEO connector × 1 • Video input, S VIDEO (Y/C) input and Audio L/R inputs are available.
VIDEO-3 terminal (COMPONENT)	RCA connector × 3 • Video input, Component video (Y, Cb/Pb, Cr/Pr) input and Audio L/R inputs are available. • 625p, 525p and 1125i signals are available.
OUT terminal	RCA connectors × 3, S VIDEO connector × 1 • Video output, S VIDEO (Y/C) output and Audio L/R outputs are available. • Output level 0.5 Vrms.
PC IN terminal	Analogue RGB D-SUB (15 pin) × 1 • PC signal is available. Refer to page 40 for details of the signals which can be input.
Headphone jack	Stereo mini-jack (3.5 mm in diameter)
Dimensions (W × H × D)	703 mm × 555 mm × 300 mm 703 mm × 491 mm × 107 mm (without stand)
Weight	16.1 kg 12.8 kg (without stand)
Accessories	Remote control unit × 1 (RM-C1830) AA/R6 dry cell battery × 2 Component video cable × 1

We may change the design and specifications 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 would be an infringement of copyright.

JVC



JVC

PARTS LIST

CAUTION

- The parts identified by the Δ 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		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	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% -10%	+50% -10%	+80% -20%	+100% -0%

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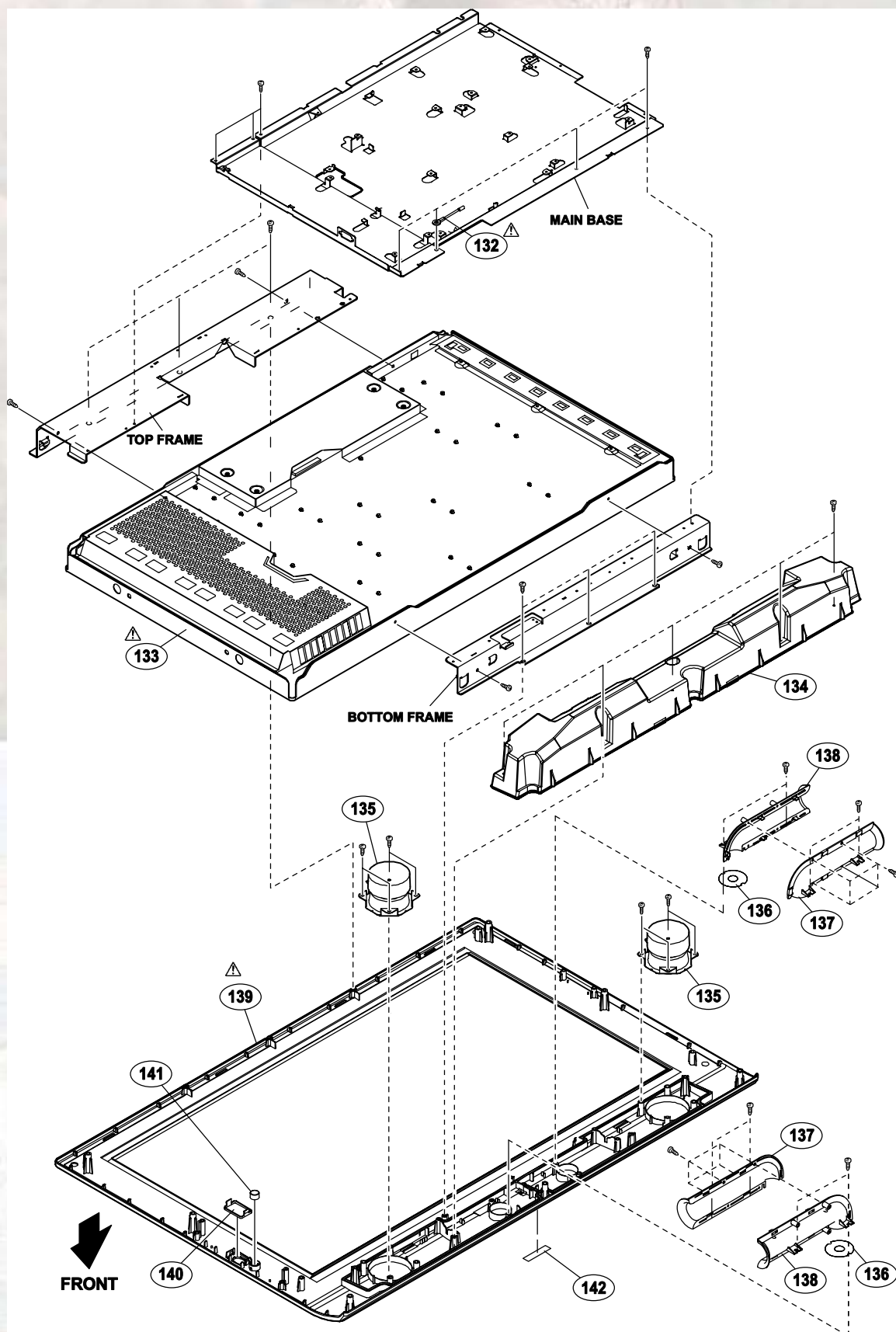
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y NAME	LT-Z32SX4B	LT-Z32SX4B/A	LT-Z32SX4B/S	LT-Z32SX4S/S
ANALOG SIGNAL P.W.B	LCA90350-15B (SFL-1031A)	←	←	←
CONNECTOR P.W.B	LCA90353-14A (SFL-4031A)	←	←	←
FRONT CONTROL P.W.B	LCA90351-18B (SFL-7031A)	←	←	←
FRONT SENSOR P.W.B	LCA90352-18A (SFL-8031A)	←	←	←
POWER P.W.B	LCA90348-10D (SFL-9014A)	←	←	←
REGULATOR P.W.B	LCA90349-10B (SFL-9114A)	←	←	←
DIGITAL SIGNAL P.W.B	LCA10428-67B (SFL-0D305A)	LCA10428-69B (SFL-0D307A)	LCA10428-68B (SFL-0D306A)	←
RECEIVER P.W.B	LCA10476-51A (SFL-0F301A)	←	←	←
REMOTE CONTROL UNIT	RM-C1830-1C	←	←	←

EXPLODED VIEW PARTS LIST

△	Ref.No.	Part No.	Part Name	Description	Local
△	101	LC12040-001B-U	JACK COVER	(x2)	
△	102	LC21562-003A-0L	RATING LABEL		LT-Z32SX4B/A
△	102	LC21562-002A-0L	RATING LABEL		LT-Z32SX4B,LT-Z32SX4B/S,LT-Z32SX4S/S
△	103	LC42090-002A-H	LICENSE LABEL		
	104	LC32748-004A-H	OPERATION SHEET		
	105	LC32749-003A-H	OPERATION SHEET		
△	106	LC41999-002A	CAUTION LABEL		
△	107	LC41967-001C-C	STAND ASSY	Inc.No. 107A/107B	
	107A	128-023	STAND COVER		
	107B	128-020	CORD COVER		
	108	QYSPSPD5014MA	SCREW	M5 x 14mm(x4)	
	109	QYSPSPD3016ZA	SCREW	M3 x 16mm(x2)	
	110	LC42002-001B	STAND SHEET		LT-Z32SX4B,LT-Z32SX4B/S
	110	LC42002-002B-C	STAND SHEET		LT-Z32SX4B/A,LT-Z32SX4S/S
△	111	LC12039-001B-U	REAR COVER		
	112	LC30599-078A	STICK SHEET	(x2)	LT-Z32SX4B,LT-Z32SX4B/A,LT-Z32SX4B/S
	112	LC32864-001A-C	STICK SHEET	(x2)	LT-Z32SX4S/S
	113	QYSBSFG4016MA	TAP SCREW	M4 x 16mm(x7)	
	114	QYSBSF3010MA	TAP SCREW	M3 x 10mm(x4)	
	115	QYSPSPD3008MA	SCREW	M3 x 8mm	
△	116	LC32760-001A-HK	SERVICE COVER		
	117	QYSBSF3010MA	TAP SCREW	M3 x 10mm	
△	118	QMPK300-170-JC	POWER CORD(EU)	1.7m BLACK	LT-Z32SX4B
△	118	QMPG110-170-JC	POWER CORD(AST)	1.7m BLACK	LT-Z32SX4B/A
△	118	QMPN260-170-JC	POWER CORD(EK)	1.7m BLACK	LT-Z32SX4B/S,LT-Z32SX4S/S
△	119	LC21348-001D-HK	POWER CORD HOLDER		
△	120	QQR0491-001	FERRITE CORE		LT-Z32SX4B/S,LT-Z32SX4S/S
△	121	LC21596-001B-HK	TERMINAL BASE		
	122	QNB0036-001	HEX SCREW	(x2)	
	123	QUQ105-5009AE	FFC WIRE	50pin 9cm(x2)	
	124	QUQK12-1906CH	FFC WIRE	19pin 6cm	
△	125	LC32351-011A	CONTROL KNOB ASSY		
	126	QUQ105-4006AL	FFC WIRE	40pin 6cm	
	127	QUQ105-3004AA	FFC WIRE	30pin 4cm	
	128	QUQ105-5004AA	FFC WIRE	50pin 4cm	
△	129	LC32698-002B-HK	SIDE BASE		
△	130	QQR0490-001	NOISE FILTER		LT-Z32SX4B/S,LT-Z32SX4S/S
△	131	LC21597-003B-HK	TUNER BASE		
△	132	QUB190-12FXHM	SIN TWIST WIRE		
△	133	QLD0343-001	LCD PANEL UNIT		
	134	LC11633-001B	SPEAKER BOX		
	135	QAS0142-001	SPEAKER	SP01/SP02(x2)	
	136	LC42001-001B	DUCT SHEET	(x2)	LT-Z32SX4B,LT-Z32SX4B/S
	136	LC42001-002B-C	DUCT SHEET	(x2)	LT-Z32SX4B/A,LT-Z32SX4S/S
	137	LC21339-001A-HK	DUCT BASE	(x2)	
	138	LC21340-001B-HK	DUCT COVER	(x2)	
△	139	LC12036-005B-UK	FRONT PANEL ASSY		LT-Z32SX4B,LT-Z32SX4B/A
△	139	LC12036-005A-UK	FRONT PANEL ASSY		LT-Z32SX4B/S
△	139	LC12036-006B-UK	FRONT PANEL ASSY		LT-Z32SX4S/S
	140	LC32747-001C-HK	SENSOR WINDOW		LT-Z32SX4B,LT-Z32SX4B/A,LT-Z32SX4B/S
	140	LC32747-002C-HK	SENSOR WINDOW		LT-Z32SX4S/S
	141	LC41901-001C-HK	LED LENS		
	142	LC41852-001A	JVC MARK ASSY		
△	201	LCA90349-10B	REGULATOR PWB		
△	202	LCA90348-10D	POWER PWB		
△	203	LCA10476-51A	RECEIVER PWB		
△	204	LCA90353-14A	CONNECTOR PWB		
△	205	LCA90350-15B	ANALOG SIGNAL PWB		
△	206	LCA90351-18B	FRONT CONTROL PWB		
△	207	LCA90352-18A	FRONT SENSOR PWB		
△	208	LCA10428-67B	DIGITAL SIGNAL PWB		LT-Z32SX4B
△	208	LCA10428-69B	DIGITAL SIGNAL PWB		LT-Z32SX4B/A
△	208	LCA10428-68B	DIGITAL SIGNAL PWB		LT-Z32SX4B/S,LT-Z32SX4S/S

[illegible]



PRINTED WIRING BOARD PARTS LIST [LT-Z32SX4B]

ANALOG SIGNAL P.W. BOARD ASS'Y (LCA90350-15B) (SFL-1031A)

△Ref No.	Part No.	Part Name	Description	Local
IC201	TA1370FG-X	IC		
IC301	AN15852A	IC		
IC501	CXA2069Q	IC		
IC502	MM1510XN-X	IC		
IC503	MM1510XN-X	IC		
IC504	MM1510XN-X	IC		
IC711	CXA1875AM-X	IC		
IC801	TB1274AF	IC		
IC802	TC90A69AF-X	IC		
IC902	TA48M033F-X	IC		
IC903	BA90BC0FP-X	IC		
IC6001	NJM2777M-X	IC		
IC6201	PQ20WZ11-X	IC		
IC6521	NJW1137M-W	IC		
IC6551	RC4558D-X	IC		
IC6552	RC4558D-X	IC		
IC6621	LM393DR-X	IC		
IC6661	TDA8925ST/N1	IC		
Q301	2SC3837K/NP/-X	TRANSISTOR		
Q302	2SC3837K/NP/-X	TRANSISTOR		
Q303	2SC3837K/NP/-X	TRANSISTOR		
Q307	2SA1530A/QR/-X	TRANSISTOR		
Q402	2SK1374-X	MOS FET		
Q403	2SK1374-X	MOS FET		
Q404	2SK1374-X	MOS FET		
Q405	2SK1374-X	MOS FET		
Q507	2SA1530A/QR/-X	TRANSISTOR		
Q508	2SA1530A/QR/-X	TRANSISTOR		
Q509	2SA1530A/QR/-X	TRANSISTOR		
Q801	2SA1530A/QR/-X	TRANSISTOR		
Q802	2SA1530A/QR/-X	TRANSISTOR		
Q851	2SA1530A/QR/-X	TRANSISTOR		
Q853	2SC3928A/QR/-X	TRANSISTOR		
Q854	2SC3928A/QR/-X	TRANSISTOR		
Q855	2SA1530A/QR/-X	TRANSISTOR		
Q858	2SC3928A/QR/-X	TRANSISTOR		
Q859	2SA1530A/QR/-X	TRANSISTOR		
Q862	2SC3928A/QR/-X	TRANSISTOR		
Q863	2SC3928A/QR/-X	TRANSISTOR		
Q902	2SC3074/OY/-X	TRANSISTOR		
Q2051	UN2226-X	DIGI TRANSISTOR		
Q2052	UN2226-X	DIGI TRANSISTOR		
Q2055	UN2110-X	DIGI TRANSISTOR		
Q6301	2SC3928A/QR/-X	TRANSISTOR		
Q6302	2SC3928A/QR/-X	TRANSISTOR		
Q6421	2SC3928A/QR/-X	TRANSISTOR		
Q6431	2SA1530A/QR/-X	TRANSISTOR		
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		
Q6538	2SC3928A/QR/-X	TRANSISTOR		
Q6539	2SC3928A/QR/-X	TRANSISTOR		
Q6661	UN2112-X	DIGI TRANSISTOR		
Q6662	2SC3928A/QR/-X	TRANSISTOR		
Q6663	UN2212-X	DIGI TRANSISTOR		
Q6672	2SC3928A/QR/-X	TRANSISTOR		
Q6673	2SA1530A/QR/-X	TRANSISTOR		
D901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
D903	PTZ11B-X	Z DIODE		
D904	PTZ6.8B-X	Z DIODE		
D2001	MA8100/M/-X	Z DIODE		
D2002	MA8100/M/-X	Z DIODE		
D2003	MA8100/M/-X	Z DIODE		
D2004	MA8100/M/-X	Z DIODE		
D2005	MA8100/M/-X	Z DIODE		
D2006	MA8100/M/-X	Z DIODE		
D2007	MA8100/M/-X	Z DIODE		
D2008	MA8100/M/-X	Z DIODE		
D2009	MA8100/M/-X	Z DIODE		
D2010	MA8100/M/-X	Z DIODE		
D2011	MA8100/M/-X	Z DIODE		
D2012	MA8100/M/-X	Z DIODE		
D2013	MA8100/M/-X	Z DIODE		
D2014	MA8100/M/-X	Z DIODE		
D2015	MA8100/M/-X	Z DIODE		
D2016	MA8100/M/-X	Z DIODE		
D2017	MA8100/M/-X	Z DIODE		
D2201	MA8100/M/-X	Z DIODE		
D2202	MA8100/M/-X	Z DIODE		
D2203	MA8100/M/-X	Z DIODE		
D2204	MA8100/M/-X	Z DIODE		
D2205	MA8100/M/-X	Z DIODE		
D2206	MA8100/M/-X	Z DIODE		
D2207	MA8100/M/-X	Z DIODE		
D6001	MA111-X	SI DIODE		
D6002	MA111-X	SI DIODE		
D6201	MA111-X	SI DIODE		
D6431	MA111-X	SI DIODE		
D6432	MA111-X	SI DIODE		
D6433	MA111-X	SI DIODE		
D6501	MA111-X	SI DIODE		
D6502	MA111-X	SI DIODE		
D6503	MA111-X	SI DIODE		
D6504	MA111-X	SI DIODE		
D6601	MA8062/M/-X	Z DIODE		
D6663	MA8033-X	Z DIODE		
D6664	MA111-X	SI DIODE		
D6671	MA8200-X	Z DIODE		
D6672	MA8200-X	Z DIODE		
D6673	MA8200-X	Z DIODE		
D6674	MA8200-X	Z DIODE		
D6681	MA111-X	SI DIODE		
D6682	MA111-X	SI DIODE		
D6683	MA111-X	SI DIODE		
DB201	MA8033-X	Z DIODE		
C201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C202	NEH71HM-225X	E CAPACITOR	2.2uF 50V M	
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C204	NEZ0022-157X	E CAPACITOR	150uF 10V M	
C205	NEH71HM-105X	E CAPACITOR	1uF 50V M	
C206	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C207	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C301	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C302	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C303	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
C304	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
C305	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
C306	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C307	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C308	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C309	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C310	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C313	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C314	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C315	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C316	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C317	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C318	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C319	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C321	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C322	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C323	QETM1AM-228	E CAPACITOR	2200uF 10V M	
C324	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C325	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C326	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C327	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C328	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C329	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C330	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C341	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C342	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C344	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C345	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C349	NEN51EM-106X	BP E CAPACITOR	10uF 25V M	
C372	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C382	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C501	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C502	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C503	NEN51EM-106X	BP E CAPACITOR	10uF 25V M	
C505	NEN51EM-106X	BP E CAPACITOR	10uF 25V M	
C506	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C515	NCB11CK-105X	C CAPACITOR	1uF 16V K	
C516	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C518	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C519	NEH71CM-106X	E CAPACITOR	10uF 16V M	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C520	NCB11CK-105X	C CAPACITOR	1uF 16V K	C916	NEX50JM-156X	E CAPACITOR	15uF 6.3V M
C521	NEH71CM-106X	E CAPACITOR	10uF 16V M	C2001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C522	NEH71AM-107X	E CAPACITOR	100uF 10V M	C2003	NCB31CK-105X	C CAPACITOR	1uF 16V K
C523	NEH71CM-106X	E CAPACITOR	10uF 16V M	C2005	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C524	NCB11CK-105X	C CAPACITOR	1uF 16V K	C2006	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C525	NEH71CM-106X	E CAPACITOR	10uF 16V M	C2007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C526	NEH71AM-107X	E CAPACITOR	100uF 10V M	C2009	NCB31CK-105X	C CAPACITOR	1uF 16V K
C527	NEH71CM-106X	E CAPACITOR	10uF 16V M	C2011	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2012	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C542	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2014	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C543	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2015	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C544	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2016	NCB11AK-106X	C CAPACITOR	10uF 10V K
C545	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2017	NCB11AK-106X	C CAPACITOR	10uF 10V K
C711	NEH71CM-106X	E CAPACITOR	10uF 16V M	C2018	NCB11AK-106X	C CAPACITOR	10uF 10V K
C712	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C2019	NCB11AK-106X	C CAPACITOR	10uF 10V K
C801	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2020	NCB11AK-106X	C CAPACITOR	10uF 10V K
C802	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2051	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C803	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2052	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C804	NEH71CM-476X	E CAPACITOR	47uF 16V M	C2055	NCB31CK-105X	C CAPACITOR	1uF 16V K
C805	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2201	NCB31CK-105X	C CAPACITOR	1uF 16V K
C806	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2202	NCB31CK-105X	C CAPACITOR	1uF 16V K
C807	NEH71CM-476X	E CAPACITOR	47uF 16V M	C2203	NCB31CK-105X	C CAPACITOR	1uF 16V K
C808	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2204	NCB31CK-105X	C CAPACITOR	1uF 16V K
C809	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C2205	NCB31CK-105X	C CAPACITOR	1uF 16V K
C813	NEH71CM-476X	E CAPACITOR	47uF 16V M	C2206	NCB31CK-105X	C CAPACITOR	1uF 16V K
C814	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2241	NCB31CK-105X	C CAPACITOR	1uF 16V K
C818	NEH71HM-106X	E CAPACITOR	10uF 50V M	C2242	NCB31CK-105X	C CAPACITOR	1uF 16V K
C819	NDC31HJ-100X	C CAPACITOR	10pF 50V J	C2243	NCB31CK-105X	C CAPACITOR	1uF 16V K
C820	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	C6001	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C821	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6002	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C822	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C6003	NEH71AM-107X	E CAPACITOR	100uF 10V M
C823	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	C6004	NEH71AM-107X	E CAPACITOR	100uF 10V M
C824	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6005	NEH71HM-105X	E CAPACITOR	1uF 50V M
C825	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C6006	NEH71HM-105X	E CAPACITOR	1uF 50V M
C826	NEH71EM-226X	E CAPACITOR	22uF 25V M	C6007	QETM1CM-477	E CAPACITOR	470uF 16V M
C827	NEH70JM-107X	E CAPACITOR	100uF 6.3V M	C6008	NEH71HM-106X	E CAPACITOR	10uF 50V M
C835	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6009	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C850	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C6201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C851	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C6202	NEH71EM-336X	E CAPACITOR	33uF 25V M
C852	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C6203	NEH71EM-336X	E CAPACITOR	33uF 25V M
C853	NEH71CM-476X	E CAPACITOR	47uF 16V M	C6204	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C854	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C6205	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C855	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6301	NEN51CM-475X	BP E CAPACITOR	4.7uF 16V M
C856	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6302	NEN51CM-475X	BP E CAPACITOR	4.7uF 16V M
C857	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6421	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C858	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6431	NEH71CM-476X	E CAPACITOR	47uF 16V M
C859	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	C6505	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C860	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6510	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C861	NDC31HJ-681X	C CAPACITOR	680pF 50V J	C6517	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C862	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C6518	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C863	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6521	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C864	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6522	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C865	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C6523	NCB31HK-333X	C CAPACITOR	0.033uF 50V K
C866	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C6525	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C868	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C6526	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C869	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C6527	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C870	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C6528	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C872	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C6529	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C873	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C6530	NCB31HK-333X	C CAPACITOR	0.033uF 50V K
C874	NDC31HJ-150X	C CAPACITOR	15pF 50V J	C6532	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C875	NDC31HJ-100X	C CAPACITOR	10pF 50V J	C6533	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C876	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6534	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C877	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6535	NEH71HM-105X	E CAPACITOR	1uF 50V M
C878	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C6536	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C879	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C6537	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C880	NEH71AM-107X	E CAPACITOR	100uF 10V M	C6538	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C881	NEH71AM-107X	E CAPACITOR	100uF 10V M	C6539	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C882	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6540	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C883	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6541	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C884	NEH71AM-107X	E CAPACITOR	100uF 10V M	C6542	NEH71EM-475X	E CAPACITOR	4.7uF 25V M
C885	NEH71AM-107X	E CAPACITOR	100uF 10V M	C6543	NEH71CM-476X	E CAPACITOR	47uF 16V M
C886	NEH71HM-106X	E CAPACITOR	10uF 50V M	C6544	NEH71HM-105X	E CAPACITOR	1uF 50V M
C887	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C6545	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C888	NEH71AM-107X	E CAPACITOR	100uF 10V M	C6546	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C889	NEH71HM-106X	E CAPACITOR	10uF 50V M	C6551	NEH71HM-105X	E CAPACITOR	1uF 50V M
C890	NEH71HM-106X	E CAPACITOR	10uF 50V M	C6552	NEH71HM-105X	E CAPACITOR	1uF 50V M
C891	NEH71CM-476X	E CAPACITOR	47uF 16V M	C6553	NCB31CK-683X	C CAPACITOR	0.068uF 16V K
C892	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C6554	NCB31CK-683X	C CAPACITOR	0.068uF 16V K
C894	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C6555	NCB31CK-683X	C CAPACITOR	0.068uF 16V K
C895	NDC31HJ-680X	C CAPACITOR	68pF 50V J	C6556	NCB31CK-683X	C CAPACITOR	0.068uF 16V K
C904	NCB11AK-106X	C CAPACITOR	10uF 10V K	C6557	NEH71CM-476X	E CAPACITOR	47uF 16V M
C905	NEHM1CM-476X	E CAPACITOR	47uF 16V M	C6559	NEH71CM-476X	E CAPACITOR	47uF 16V M
C906	NEHM1CM-476X	E CAPACITOR	47uF 16V M	C6561	NEH71HM-105X	E CAPACITOR	1uF 50V M
C912	NEHM1CM-476X	E CAPACITOR	47uF 16V M	C6562	NEH71HM-225X	E CAPACITOR	2.2uF 50V M
C913	NEX51CM-335X	E CAPACITOR	3.3uF 16V M	C6563	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C914	NEX50JM-156X	E CAPACITOR	15uF 6.3V M	C6564	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C915	NEHM1CM-476X	E CAPACITOR	47uF 16V M	C6567	NCB11EK-105X	C CAPACITOR	1uF 25V K

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
C6568	NCB11EK-105X	C CAPACITOR	1uF 25V K		R372	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C6585	NEH71CM-106X	E CAPACITOR	10uF 16V M		R374	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C6586	NEH71CM-106X	E CAPACITOR	10uF 16V M		R375	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
C6601	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R382	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C6602	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R384	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C6605	NEH71CM-476X	E CAPACITOR	47uF 16V M		R385	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
C6621	NCB31HK-332X	C CAPACITOR	3300pF 50V K		R392	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C6622	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R394	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C6623	NEH71EM-226X	E CAPACITOR	22uF 25V M		R395	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
C6624	NCB31HK-222X	C CAPACITOR	2200pF 50V K		R402	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C6625	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R403	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C6626	NCB31HK-222X	C CAPACITOR	2200pF 50V K		R404	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C6627	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R405	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C6628	NEH71EM-226X	E CAPACITOR	22uF 25V M		R409	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C6629	NCB31HK-222X	C CAPACITOR	2200pF 50V K		R410	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C6630	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R513	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C6631	NCB31HK-222X	C CAPACITOR	2200pF 50V K		R514	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C6632	NCB31HK-332X	C CAPACITOR	3300pF 50V K		R516	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C6661	NCB11EK-105X	C CAPACITOR	1uF 25V K		R517	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C6662	NCB11EK-105X	C CAPACITOR	1uF 25V K		R518	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C6663	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R519	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C6664	QETM1HM-226	E CAPACITOR	22uF 50V M		R520	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C6665	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R521	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C6666	QETM1HM-226	E CAPACITOR	22uF 50V M		R522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C6667	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R523	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C6668	NDC31HJ-561X	C CAPACITOR	560pF 50V J		R524	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C6669	QFV21HJ-224	MF CAPACITOR	0.22uF 50V J		R526	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C6670	QFVE1HJ-474	MF CAPACITOR	0.47uF 50V J		R527	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C6671	NCB31HK-153X	C CAPACITOR	0.015uF 50V K		R528	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C6672	QETM1EM-477	E CAPACITOR	470uF 25V M		R529	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C6673	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R530	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C6674	QETM1EM-477	E CAPACITOR	470uF 25V M		R531	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C6675	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R532	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C6676	NDC31HJ-561X	C CAPACITOR	560pF 50V J		R533	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C6677	NDC31HJ-561X	C CAPACITOR	560pF 50V J		R534	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C6678	QFV21HJ-224	MF CAPACITOR	0.22uF 50V J		R538	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C6679	QFVE1HJ-474	MF CAPACITOR	0.47uF 50V J		R539	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C6680	NCB31HK-153X	C CAPACITOR	0.015uF 50V K		R540	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C6681	NDC31HJ-561X	C CAPACITOR	560pF 50V J		R541	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C6682	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R573	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C6683	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R574	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C6684	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R575	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C6685	QETM1EM-477	E CAPACITOR	470uF 25V M		R576	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C6687	QETM1EM-477	E CAPACITOR	470uF 25V M		R577	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C6688	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R578	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C6691	NEH71HM-106X	E CAPACITOR	10uF 50V M		R579	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C6692	NEH71CM-106X	E CAPACITOR	10uF 16V M		R580	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C6693	QETM1CM-477	E CAPACITOR	470uF 16V M		R581	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
CB501	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R582	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CB502	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R583	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CB503	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R584	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CB504	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CB505	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
CB506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R714	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CB507	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
CB508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R716	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
					R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R718	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R203	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R720	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R204	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R722	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R207	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R801	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R208	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R802	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R210	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R803	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R211	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R804	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R212	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R805	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R806	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R216	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R807	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R218	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R808	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R219	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R809	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R220	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R816	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R302	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R817	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R818	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R819	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R308	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R851	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R316	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R852	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R853	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R318	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R854	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R855	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R322	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R856	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R323	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R859	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R326	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R860	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R327	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R861	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R328	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R862	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R334	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R863	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R335	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R864	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R336	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R865	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R866	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6518	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R867	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6519	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R869	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R6520	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R873	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	R6521	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R874	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R6522	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R876	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6523	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R877	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	R6524	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R879	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R6525	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R6526	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R884	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R6527	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R885	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R6528	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R886	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R6529	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R887	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R6530	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R888	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R6531	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R889	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R6532	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R893	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R6533	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R907	NRS12BJ-0R0W	MG RESISTOR	0Ω 1/2W J	R6534	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R908	NRS12BJ-471W	MG RESISTOR	470Ω 1/2W J	R6535	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R2001	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6536	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2002	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6537	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2003	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6538	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2004	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R6539	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2005	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R6540	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R2006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6541	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R2007	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R2008	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6543	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R2009	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R6551	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R2010	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R6552	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R2011	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6553	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R2012	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R6554	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R2013	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R6555	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R2051	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6556	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R2052	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R6557	NRSA63J-561X	MG RESISTOR	560kΩ 1/16W J
R2053	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R6558	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J
R2054	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R6559	NRSA63J-561X	MG RESISTOR	560kΩ 1/16W J
R2055	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R6560	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J
R2058	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R6563	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R2059	NRSA63J-680X	MG RESISTOR	68kΩ 1/16W J	R6564	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2060	NRSA63J-680X	MG RESISTOR	68kΩ 1/16W J	R6567	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R2061	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R6568	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2062	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R6569	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R2065	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R6577	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R2066	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R6578	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R2069	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R6579	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R2071	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	R6580	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R2202	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6601	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R2203	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6602	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R2204	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6603	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2205	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R6605	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R2207	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6606	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R2208	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6607	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2209	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6617	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R2241	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6621	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2242	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R2243	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R6623	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R2245	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R6624	QRJ149J-102	UNF C RESISTOR	1kΩ 1/4W J
R2246	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R6625	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6001	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R6626	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R6002	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R6627	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R6003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R6629	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R6004	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R6630	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R6005	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R6631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6006	QRL039J-330	OMF RESISTOR	33Ω 3W J	R6632	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R6201	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R6633	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R6202	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R6634	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6203	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	R6661	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6204	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R6662	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6205	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R6663	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R6301	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6664	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6302	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6665	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R6303	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R6666	QRK129J-5R6	UNF C RESISTOR	5.6Ω 1/2W J
R6304	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R6667	QRK129J-220	UNF C RESISTOR	22Ω 1/2W J
R6305	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R6668	QRK129J-5R6	UNF C RESISTOR	5.6Ω 1/2W J
R6306	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R6669	QRK129J-220	UNF C RESISTOR	22Ω 1/2W J
R6307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R6670	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R6308	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R6671	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6309	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R6673	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R6310	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R6674	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6409	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R6675	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R6423	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R6676	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6424	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R6677	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6425	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R6680	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6431	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	R6681	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R6432	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R6682	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R6515	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R6683	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6516	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R6684	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R6517	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R6685	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description	Local
R6686	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R6688	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6691	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
RB203	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
RB801	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L201	NQL914K-101X	COIL	100uH K	
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	
L855	NQL904J-560X	COIL	56uH J	
L861	NQL914K-220X	COIL	22uH K	
L862	NQL914K-101X	COIL	100uH K	
L863	NQL914K-101X	COIL	100uH K	
L864	NQL914K-101X	COIL	100uH K	
L865	NQL914K-220X	COIL	22uH K	
L866	NQL914K-220X	COIL	22uH K	
L867	NQL914K-220X	COIL	22uH K	
L902	NQL52EM-220X	COIL	22uH M	
L903	NQL52EM-220X	COIL	22uH M	
L904	NQL52EM-220X	COIL	22uH M	
L6661	QQL28AK-560	COIL	56uH K	
L6662	QQL28AK-560	COIL	56uH K	
CN000H	QGF1201C2-19	CONNECTOR	FFC/FPC (1-19)	
CN0011	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
CN0012	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
J2001	QNZ0726-001	AV JACK	INPUT-1(S/V/L/R)	
J2002	QNZ0693-001	D CONNECTOR	INPUT-1(COMPONENT)	
J2003	QNZ0726-001	AV JACK	INPUT-2(S/V/L/R)	
J2004	QNN0651-001	PIN JACK	INPUT-3(V/L/R)	
J2006	QNN0650-001	PIN JACK	INPUT-3(COMPONENT)	
J2007	QNZ0561-001	D CONNECTOR	PC IN(RGD)	
J2008	QNZ0726-001	AV JACK	MONITOR OUT(V/L/R)	
K6601	NQR0413-002X	FERRITE BEADS		
K6602	NQR0413-002X	FERRITE BEADS		
K6661	NQR0413-002X	FERRITE BEADS		
K6662	NQR0413-002X	FERRITE BEADS		
K6663	NQR0413-002X	FERRITE BEADS		
K6664	NQR0413-002X	FERRITE BEADS		
TH6661	NAD0035-471X	P THERMISTOR	470Ω	
X201	CSB503F30	C RESONATOR		
X801	NAX0621-001X	CRYSTAL	16.200MHz	

CONNECTOR P.W. BOARD ASS'Y (LCA90353-14A) (SFL-4031A)

△Ref No.	Part No.	Part Name	Description	Local
IC4201	SN74AHC1G08V-X	IC		
D4201	MA8033-X	Z DIODE		
C4202	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
R4202	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R4203	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
CN0001	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
CN0002	QGF0508F1-30X	CONNECTOR	FFC/FPC (1-30)	
CN000T	QGF0540C1-40X	CONNECTOR	FFC/FPC (1-40)	
CN1011	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
CN1012	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	

FRONT CONTROL P.W. BOARD ASS'Y (LCA90351-18B) (SFL-7031A)

△Ref No.	Part No.	Part Name	Description	Local
Q7701	UN2212-X	DIGI TRANSISTOR		
Q7705	UN2110-X	DIGI TRANSISTOR		
Q7706	UN2110-X	DIGI TRANSISTOR		
Q7709	UN2212-X	DIGI TRANSISTOR		
D7011	MA8062/M/-X	Z DIODE		

△Ref No.	Part No.	Part Name	Description	Local
D7702	HLMPNS30J00-T16	LED	POWER	
C7011	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C7012	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
R7011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7012	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7013	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7019	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7701	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7702	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7703	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7704	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7711	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R7714	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
L7001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L7002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
CN0008	QGB2542K1-08	CONNECTOR	B-B (1-8)	
J7001	QMS3004-C01	H.P.JACK	HEADPHONE	
K7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
S7701	QSW0797-001	TACT SWITCH	CH-	
S7702	QSW0797-001	TACT SWITCH	CH+	
S7703	QSW0797-001	TACT SWITCH	TV/VIDEO	
S7704	QSW0797-001	TACT SWITCH	MENU/OK	
S7705	QSW0797-001	TACT SWITCH	VOL+	
S7706	QSW0797-001	TACT SWITCH	VOL-	
S7707	QSW0797-001	TACT SWITCH	POWER	

FRONT SENSOR P.W. BOARD ASS'Y (LCA90352-18A) (SFL-8031A)

△Ref No.	Part No.	Part Name	Description	Local
IC8751	S9066-11	PHOTO CONDUCTOR		
IC8752	GP1UM281QKVF	IR DETECT UNIT		
C8751	NEH71HM-105X	E CAPACITOR	1uF 50V M	
C8752	NEH71CM-476X	E CAPACITOR	47uF 16V M	
R8751	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R8752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R8753	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R8754	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R8757	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8759	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
CN1008	QGB2542J1-08	CONNECTOR	B-B (1-8)	

POWER P.W. BOARD ASS'Y (LCA90348-10D) (SFL-9014A)

△Ref No.	Part No.	Part Name	Description	Local
IC9141	BA50BC0FP-X	IC		
△IC9211	FA5500AN-W	IC		
IC9501	F9222L-F219	IC		
△IC9541	UTCTL431-T	IC		
IC9602	M62320FP-X	IC		
IC9603	SI-3025B-F1	IC		
IC9901	MP1580HS-X	IC		
Q9021	UN2211-X	TRANSISTOR		
Q9211	2SK3522-01-F1	POWER MOS FET		
Q9212	2SD601A/QR/-X	TRANSISTOR		
Q9213	IMD3A-W	DIGI TRANSISTOR		
Q9215	2SD601A/QR/-X	TRANSISTOR		
Q9216	UN2212-X	DIGI TRANSISTOR		
Q9251	UN2213-X	DIGI TRANSISTOR		
Q9252	UN2212-X	DIGI TRANSISTOR		
Q9501	2SD601A/QR/-X	TRANSISTOR		
Q9502	2SK2071-01S-W	POWER MOS FET		
Q9503	2SD601A/QR/-X	TRANSISTOR		
Q9504	2SK2018-01S-W	POWER MOS FET		
Q9506	UN2213-X	DIGI TRANSISTOR		

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
Q9541	UN2212-X	DIGI TRANSISTOR			C9551	NCB11EK-474X	C CAPACITOR	0.47uF 25V K	
Q9602	2SB1188/QR-W	TRANSISTOR			C9552	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
Q9603	UN2212-X	DIGI TRANSISTOR			C9606	QEHR1HM-106Z	E CAPACITOR	10uF 50V M	
Q9901	2SD601A/QR-X	TRANSISTOR			C9608	QEHR1EM-107Z	E CAPACITOR	100uF 25V M	
D9021	MA111-X	SI DIODE			C9609	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D9111	S1WB/A/60-4101	BRIDGE DIODE			C9610	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
△D9201	D25XB60	BRIDGE DIODE			C9611	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
D9202	MA111-X	SI DIODE			C9902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
D9211	YG972S6R	SI DIODE			C9903	QECR1CM-477Z	E CAPACITOR	470uF 16V M	
D9213	MA111-X	SI DIODE			C9904	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
D9214	MA111-X	SI DIODE			C9906	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
D9215	D1FL20U-X	SI DIODE			C9907	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
D9251	MA3100/M-X	Z DIODE			C9908	QEHR2AM-106Z	E CAPACITOR	10uF 100V M	
D9252	MA111-X	SI DIODE			C9909	QEHR1HM-106Z	E CAPACITOR	10uF 50V M	
D9253	MA111-X	SI DIODE			C9910	QECR1VM-227Z	E CAPACITOR	220uF 35V M	
D9254	D1FL20U-X	SI DIODE			C9911	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J	
D9501	MA8220/M-X	Z DIODE			C9912	QEHR1CM-477Z	E CAPACITOR	470uF 16V M	
D9502	MA8110/H-X	Z DIODE			C9913	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
D9503	D1FL20U-X	SI DIODE			C9914	QTNC1HM-106Z	E CAPACITOR	10uF 50V M	
D9504	D1FL20U-X	SI DIODE			C9915	NCB11EK-104X	C CAPACITOR	0.1uF 25V K	
D9505	MA8220/M-X	Z DIODE			C9917	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
D9507	D1FL20U-X	SI DIODE			△R9001	QRZ9046-105Z	C RESISTOR	1MΩ 1/2W K	
D9508	MA8056/M-X	Z DIODE			R9101	QRZ0216-4R7	UNF WW RESISTOR	4.7Ω 7W K	
D9509	SD883-04-X	SB DIODE			R9141	QRT01EJ-1R0X	MF RESISTOR	1Ω 1W J	
D9510	RD27E/B2-T5	Z DIODE			R9142	QRT01EJ-R82X	MF RESISTOR	0.82Ω 1W J	
D9511	RD27E/B2-T5	Z DIODE			△R9199	QRZ0107-685Z	C RESISTOR	6.8MΩ 1/2W K	
D9512	D1FS4-X	SB DIODE			△R9202	QRZ9055-8R2	FUSI RESISTOR	8.2Ω 2W K	
D9542	FMB-2306	SB DIODE			R9203	MTZJ8.2C-T2	Z DIODE		
D9543	FMB-2306	SB DIODE			R9211	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J	
D9544	FME-220A	SB DIODE			R9212	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J	
D9545	FME-220A	SB DIODE			R9213	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J	
D9546	FMB-2306	SB DIODE			R9214	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
D9605	D1FS4-X	SB DIODE			R9215	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
D9901	EC30HA03L-X	SB DIODE			R9216	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
D9902	MA111-X	SI DIODE			R9217	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
D9905	D1FL20U-X	SI DIODE			R9218	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D	
D9906	PTZ11B-X	Z DIODE			R9219	NRS12BJ-223W	MG RESISTOR	22kΩ 1/2W J	
D9907	RD16E/B-T5	Z DIODE			R9220	QRM059J-R27	MP RESISTOR	0.27Ω 5W J	
D9908	RD16E/B-T5	Z DIODE			R9221	QRM059J-R15	MP RESISTOR	0.15Ω 5W J	
D9909	D1FL20U-X	SI DIODE			R9222	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
D9910	MA111-X	SI DIODE			R9223	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
△C9001	QFZ9072-105	MM CAPACITOR	1uF AC250V K		R9224	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
△C9002	QFZ9072-105	MM CAPACITOR	1uF AC250V K		R9225	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J	
△C9011	QCZ9079-102	C CAPACITOR	1000pF AC250V M		R9226	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J	
△C9013	QCZ9079-102	C CAPACITOR	1000pF AC250V M		R9227	NRS12BJ-394W	MG RESISTOR	390kΩ 1/2W J	
△C9101	QCZ9082-472Z	C CAPACITOR	4700pF AC250V M		R9228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
△C9102	QCZ9082-472Z	C CAPACITOR	4700pF AC250V M		R9229	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
△C9103	QCZ9082-472Z	C CAPACITOR	4700pF AC250V M		R9233	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
C9111	QE20709-106	E CAPACITOR	10uF 450V M		R9236	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J	
C9141	QECR1CM-477Z	E CAPACITOR	470uF 16V M		R9237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C9142	QEHR1AM-337Z	E CAPACITOR	330uF 10V M		R9238	NRS12BJ-220W	MG RESISTOR	22Ω 1/2W J	
C9143	QEHR1CM-107Z	E CAPACITOR	100uF 16V M		R9239	NRS12BJ-1R0W	MG RESISTOR	1Ω 1/2W J	
△C9197	QCZ9079-102	C CAPACITOR	1000pF AC250V M		R9251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
△C9198	QCZ9079-102	C CAPACITOR	1000pF AC250V M		R9253	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
△C9201	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M		R9254	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
△C9203	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M		R9255	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
△C9204	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M		R9256	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
△C9205	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M		R9257	NRS12BJ-102W	MG RESISTOR	1kΩ 1/2W J	
C9211	QFZ0222-105	MM CAPACITOR	1uF 450V K		R9501	QRL03EJ-822X	OMF RESISTOR	8.2kΩ 3W J	
C9212	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R9502	QRL03EJ-822X	OMF RESISTOR	8.2kΩ 3W J	
C9213	NCB11CK-105X	C CAPACITOR	1uF 16V K		R9503	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
C9214	NDC31HJ-102X	C CAPACITOR	1000pF 50V J		R9504	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
C9215	QEHR1VM-476Z	E CAPACITOR	47uF 35V M		R9505	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J	
C9216	QE20650-227	E CAPACITOR	220uF 450V M		R9506	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C9218	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R9507	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C9221	NCB31HK-222X	C CAPACITOR	2200pF 50V K		R9508	QRT029J-R56	MF RESISTOR	0.56Ω 2W J	
C9251	QEHR1HM-107Z	E CAPACITOR	100uF 50V M		R9509	QRM059J-R39	MP RESISTOR	0.39Ω 5W J	
C9252	NCB21HK-104X	C CAPACITOR	0.1uF 50V K		R9510	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C9501	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R9511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C9502	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R9512	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
C9503	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R9513	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C9504	NCB31HK-223X	C CAPACITOR	0.022uF 50V K		R9514	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C9505	NCB11EK-474X	C CAPACITOR	0.47uF 25V K		R9515	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C9506	NCB31HK-332X	C CAPACITOR	3300pF 50V K		△R9516	QRZ9009-2R2	FUSI RESISTOR	2.2Ω 1/2W J	
C9507	NCB31HK-472X	C CAPACITOR	4700pF 50V K		R9517	NRS12BJ-332W	MG RESISTOR	3.3kΩ 1/2W J	
C9508	NCB11AK-335X	C CAPACITOR	3.3uF 10V K		R9518	QRK126J-271X	UNF C RESISTOR	270Ω 1/2W J	
C9509	QECR1VM-227Z	E CAPACITOR	220uF 35V M		R9519	NRSA02J-180X	MG RESISTOR	18Ω 1/10W J	
C9510	QEHR2AM-107Z	E CAPACITOR	100uF 100V M		R9520	QRE121J-105Y	C RESISTOR	1MΩ 1/2W J	
C9511	QFZ0209-393	MPP CAPACITOR	0.039uF		R9521	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C9541	QEQC1EM-188	E CAPACITOR	1800uF 25V M		R9525	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
C9544	QEQC1EM-188	E CAPACITOR	1800uF 25V M		R9526	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
C9545	QEQC1EM-188	E CAPACITOR	1800uF 25V M		R9529	QRL039J-561	OMF RESISTOR	560Ω 3W J	
C9546	QEQC1EM-687Z	E CAPACITOR	680uF 25V M		R9541	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C9547	QEQC1EM-687Z	E CAPACITOR	680uF 25V M		R9542	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C9550	QEQC1EM-228	E CAPACITOR	2200uF 25V M		R9543	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
					R9544	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D	

△Ref No.	Part No.	Part Name	Description	Local
R9545	NRSA63D-221X	MG RESISTOR	220Ω 1/16W D	
R9546	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9548	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D	
R9549	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9551	QRE141J-0R0Y	C RESISTOR	0Ω 1/4W J	
R9552	QRE141J-0R0Y	C RESISTOR	0Ω 1/4W J	
R9602	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9615	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R9616	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R9617	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R9618	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R9620	NRSA63D-822X	MG RESISTOR	8.2kΩ 1/16W D	
R9622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9623	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R9624	NRSA63D-331X	MG RESISTOR	330Ω 1/16W D	
R9625	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R9629	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9631	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R9632	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9635	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R9636	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9638	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9640	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9643	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9645	NRS12BJ-0R0W	MG RESISTOR	0Ω 1/2W J	
R9647	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R9901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9902	NRSA63D-104X	MG RESISTOR	100kΩ 1/16W D	
R9903	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R9904	NRSA63D-184X	MG RESISTOR	180kΩ 1/16W D	
R9905	QRK126J-332X	UNF C RESISTOR	3.3kΩ 1/2W J	
R9906	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R9907	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R9908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9910	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R9911	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9913	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9916	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9923	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L9141	NQL52EN-4R7X	COIL	4.7uH N	
L9201	QQR1399-001	CHOKO COIL		
L9202	QQR1513-001	CHOKO COIL		
L9541	NQL71EM-150X	COIL	15uH M	
L9902	NQL80CL-100X	COIL	10uH L	
L9903	NQL80CL-100X	COIL	10uH L	
L9904	NQL63EM-470X	COIL	47uH M	
△T9121	QAL0425-001	POWER TRANSF		
△T9501	QQS0319-001	SW TRANSF		
△T9502	QQS0319-001	SW TRANSF		
CN0006	QGB2501J1-13	CONNECTOR	B-B (1-13)	
CN000H	QGF1201C2-19	CONNECTOR	FFC/FPC (1-19)	
CN00E1	CE41507-001P	LV CONNECTOR		
△CP9121	QMFZ052-2R0-E	FUSE	2A AC250V	
△CP9211	QMFZ043-2R0Z-J1	FUSE	2A AC250V	
△CP9501	QMFZ034-5R0Z-J1	FUSE	5A 125V	
△CP9502	QMFZ034-5R0Z-J1	FUSE	5A 125V	
△F9001	QMF51D2-6R3-J1	FUSE	6.3A AC250V	
K9001	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J	
K9212	QQR0621-002Z	FERRITE BEADS		
K9501	NQR0413-002X	FERRITE BEADS		
K9502	NQR0413-002X	FERRITE BEADS		
K9503	NQR0413-002X	FERRITE BEADS		
K9504	NQR0413-002X	FERRITE BEADS		
K9505	NQR0413-002X	FERRITE BEADS		
K9508	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K9541	NQR0413-003X	FERRITE BEADS		
△L F9001	QQR1514-001	LINE FILTER		
△L F9002	QQR1467-001	LINE FILTER		
△L F9003	QQR1514-001	LINE FILTER		
△PC9541	PS2581AL1/QW/	PHOTO COUPLER		
△PC9542	PS2581AL1/QW/	PHOTO COUPLER		
△RY9021	QSK0119-001	RELAY		
△RY9201	QSK0117-001	RELAY		
△VA9001	QAF0060-621	VARISTOR	620V	

REGULATOR P.W. BOARD ASS'Y (LCA90349-10B) (SFL-9114A)

△Ref No.	Part No.	Part Name	Description	Local
IC9802	MP1580HS-X	IC		

△Ref No.	Part No.	Part Name	Description	Local
IC9803	MP1583DN-X	IC		
Q9802	2SD601A/QR/-X	TRANSISTOR		
Q9803	2SD601A/QR/-X	TRANSISTOR		
D9803	SD883-04-X	SB DIODE		
D9804	MA111-X	SI DIODE		
D9805	MA3051M/-X	Z DIODE		
D9806	SD883-04-X	SB DIODE		
D9807	PTZ6.8B-X	Z DIODE		
D9808	MA111-X	SI DIODE		
D9810	PTZ6.8B-X	Z DIODE		
D9813	MA111-X	SI DIODE		
C9805	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C9806	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9809	NEHM1HM-105X	E CAPACITOR	1uF 50V M	
C9810	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C9812	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9813	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9814	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C9818	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9819	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C9821	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9822	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C9823	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9824	NCB11EK-104X	C CAPACITOR	0.1uF 25V K	
C9826	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
R9810	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9811	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9812	NRVA02D-473X	CMF RESISTOR	47kΩ 1/10W D	
R9813	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R9814	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D	
R9815	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R9816	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9817	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R9818	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9819	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9820	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R9821	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9822	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D	
R9823	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R9824	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D	
R9825	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9826	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9827	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R9828	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9830	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R9831	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
L9804	NQL71EM-150X	COIL	15uH M	
L9806	NQL71EM-150X	COIL	15uH M	
L9807	NQL80CL-100X	COIL	10uH L	
CN1006	QGB2501K2-13	CONNECTOR	B-B (1-13)	

DIGITAL SIGNAL P.W. BOARD ASS'Y (LCA10428-67B) (SFL-0D305A)

△Ref No.	Part No.	Part Name	Description	Local
IC0401	SN74AHCT1G32V-X	IC		
IC1001	TC90A92AFG	IC		
IC1002	MM1572FN-X	IC		
IC1502	NJM2235V-X	IC		
IC3001	JCC5055	IC		
IC3403	S-80928CLNB-W	IC		
IC3501	K4D263238F-UC50	IC		
IC3502	K4D263238F-UC50	IC		
IC3503	LP2996MR-X	IC		
IC4001	JCC5057	IC		
IC4003	AT29LV01-26D50BJ	IC(MICRO C ROM)	(SERVICE)	
IC4004	ATE256-Z32SX4B1	IC	(SERVICE)	
IC6502	THC63LVD83R-W	IC		
IC7001	MN102H60KCC	IC(MCU)		
IC7002	ATE256-Z32SX4B2	IC	(SERVICE)	
IC7401	S-80828CLNB-W	IC		
IC7501	SDA6000-B12	IC		
IC7502	S-80828CNNB-W	IC		
IC7503	K4S641632H-UC75	IC		
IC7504	MBV160-Z26SX4B	IC(MICRO C ROM)	(SERVICE)	
IC7505	PQ2L3252MS-X	IC		

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC7506	CD74HC4053PW-X	IC	(SERVICE)	C0115	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
IC7602	ATE32-Z32SX4B	IC		C0116	NCB11AK-106X	C CAPACITOR	10uF 10V K
IC9001	MP1580HS-X	IC		C0117	NDC31HJ-560X	C CAPACITOR	56pF 50V J
IC9101	MP1580HS-X	IC		C0118	NDC31HJ-151X	C CAPACITOR	150pF 50V J
IC9201	MP1580HS-X	IC		C0203	NDC31HJ-330X	C CAPACITOR	33pF 50V J
Q0101	2SC3837K/NP/-X	TRANSISTOR		C0205	NDC31HJ-270X	C CAPACITOR	27pF 50V J
Q0102	2SA1022/BC/-X	TRANSISTOR		C0207	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
Q0104	2SA1022/BC/-X	TRANSISTOR		C0209	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0105	2SC3928A/QR/-X	TRANSISTOR		C0210	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0107	2SA1530A/QR/-X	TRANSISTOR		C0211	NDC31HJ-820X	C CAPACITOR	82pF 50V J
Q0108	2SC3928A/QR/-X	TRANSISTOR		C0212	NDC31HJ-820X	C CAPACITOR	82pF 50V J
Q0109	HN1C01F/Y/-X	PAIR TRANSISTOR		C0213	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0110	HN1C01F/Y/-X	PAIR TRANSISTOR		C0214	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
Q0201	2SC3837K/NP/-X	TRANSISTOR		C0215	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
Q0202	2SA1022/BC/-X	TRANSISTOR		C0217	NDC31HJ-560X	C CAPACITOR	56pF 50V J
Q0203	2SC3928A/QR/-X	TRANSISTOR		C0218	NDC31HJ-151X	C CAPACITOR	150pF 50V J
Q0204	2SA1022/BC/-X	TRANSISTOR		C0303	NDC31HJ-330X	C CAPACITOR	33pF 50V J
Q0205	2SC3928A/QR/-X	TRANSISTOR		C0305	NDC31HJ-270X	C CAPACITOR	27pF 50V J
Q0207	2SA1530A/QR/-X	TRANSISTOR		C0307	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
Q0208	2SC3928A/QR/-X	TRANSISTOR		C0309	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0209	HN1C01F/Y/-X	PAIR TRANSISTOR		C0310	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0210	HN1C01F/Y/-X	PAIR TRANSISTOR		C0311	NDC31HJ-820X	C CAPACITOR	82pF 50V J
Q0301	2SC3837K/NP/-X	TRANSISTOR		C0312	NDC31HJ-820X	C CAPACITOR	82pF 50V J
Q0302	2SA1022/BC/-X	TRANSISTOR		C0313	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0303	2SC3928A/QR/-X	TRANSISTOR		C0314	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
Q0304	2SA1022/BC/-X	TRANSISTOR		C0315	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
Q0305	2SC3928A/QR/-X	TRANSISTOR		C0317	NDC31HJ-560X	C CAPACITOR	56pF 50V J
Q0307	2SA1530A/QR/-X	TRANSISTOR		C0318	NDC31HJ-151X	C CAPACITOR	150pF 50V J
Q0308	2SC3928A/QR/-X	TRANSISTOR		C0401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q0309	HN1C01F/Y/-X	PAIR TRANSISTOR		C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q0310	HN1C01F/Y/-X	PAIR TRANSISTOR		C1004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1001	UN2213-X	DIGI TRANSISTOR		C1005	NCB31HK-152X	C CAPACITOR	1500pF 50V K
Q1003	2SC3928A/QR/-X	TRANSISTOR		C1006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1004	2SA1530A/QR/-X	TRANSISTOR		C1009	NDC31HJ-220X	C CAPACITOR	22pF 50V J
Q1101	2SC3928A/QR/-X	TRANSISTOR		C1010	NDC31HJ-180X	C CAPACITOR	18pF 50V J
Q1103	2SA1530A/QR/-X	TRANSISTOR		C1011	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q1201	2SC3928A/QR/-X	TRANSISTOR		C1012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1203	2SA1530A/QR/-X	TRANSISTOR		C1013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1301	2SC3928A/QR/-X	TRANSISTOR		C1014	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1303	2SA1530A/QR/-X	TRANSISTOR		C1015	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q1401	2SC3928A/QR/-X	TRANSISTOR		C1016	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q1403	2SA1530A/QR/-X	TRANSISTOR		C1017	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q3001	2SC3928A/QR/-X	TRANSISTOR		C1018	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q3002	2SA1530A/QR/-X	TRANSISTOR		C1019	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q3003	2SC3928A/QR/-X	TRANSISTOR		C1021	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q3004	2SA1530A/QR/-X	TRANSISTOR		C1023	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q6501	2SC3928A/QR/-X	TRANSISTOR		C1025	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q6502	2SC3928A/QR/-X	TRANSISTOR		C1026	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q7206	UN2213-X	DIGI TRANSISTOR		C1028	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q7207	DTA144EKA-X	DIGI TRANSISTOR		C1029	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q7501	2SA1162/Y/G/-X	TRANSISTOR		C1030	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q7508	DTC114EKA-X	DIGI TRANSISTOR		C1031	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1001	EC30HA03L-X	SB DIODE		C1032	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1002	EC30HA03L-X	SB DIODE		C1033	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D7001	MA111-X	SI DIODE		C1034	NDC31HJ-390X	C CAPACITOR	39pF 50V J
D7003	MA111-X	SI DIODE		C1035	NDC31HJ-680X	C CAPACITOR	68pF 50V J
D7005	MA8082/M/-X	Z DIODE		C1037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
D7006	MA8082/M/-X	Z DIODE		C1038	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D7007	MA8082/M/-X	Z DIODE		C1039	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D7008	MA8082/M/-X	Z DIODE		C1040	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D7009	MA8082/M/-X	Z DIODE		C1041	NCB10JK-106X	C CAPACITOR	10uF 6.3V K
D7010	MA111-X	SI DIODE		C1042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
D7203	MA111-X	SI DIODE		C1043	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D7210	RB501V-40-X	SB DIODE		C1045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
D7501	MA111-X	SI DIODE		C1046	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D7502	MA111-X	SI DIODE		C1047	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D9001	EC30HA03L-X	SB DIODE		C1048	NCB11CK-105X	C CAPACITOR	1uF 16V K
D9003	PTZ3.9B-X	Z DIODE		C1049	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D9101	EC30HA03L-X	SB DIODE		C1050	NCB11CK-105X	C CAPACITOR	1uF 16V K
D9102	EC30HA03L-X	SB DIODE		C1051	NCB11CK-105X	C CAPACITOR	1uF 16V K
D9103	PTZ3.9B-X	Z DIODE		C1061	NDC31HJ-4R0X	C CAPACITOR	4pF 50V J
D9104	MA111-X	SI DIODE		C1062	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M
D9201	EC30HA03L-X	SB DIODE		C1063	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
D9203	PTZ3.9B-X	Z DIODE		C1064	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D9204	MA111-X	SI DIODE		C1065	NCB30JK-105X	C CAPACITOR	1uF 6.3V K
C0103	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1066	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M
C0105	NDC31HJ-270X	C CAPACITOR	27pF 50V J	C1102	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C0107	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C1103	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C0109	NCB11AK-106X	C CAPACITOR	10uF 10V K	C1104	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C0110	NCB11AK-106X	C CAPACITOR	10uF 10V K	C1105	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C0111	NDC31HJ-820X	C CAPACITOR	82pF 50V J	C1106	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C0112	NDC31HJ-820X	C CAPACITOR	82pF 50V J	C1109	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C0113	NCB11AK-106X	C CAPACITOR	10uF 10V K	C1202	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C0114	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C1203	NDC31HJ-330X	C CAPACITOR	33pF 50V J
				C1204	NDC31HJ-560X	C CAPACITOR	56pF 50V J
				C1205	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
				C1206	NCB31HK-104X	C CAPACITOR	0.1uF 50V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1209	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C3549	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C1302	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3550	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1303	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3551	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C1304	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C3552	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1305	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C4002	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1306	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C4003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1309	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C4005	NCB31AK-105X	C CAPACITOR	1uF 10V K
C1402	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C4006	NCB31AK-105X	C CAPACITOR	1uF 10V K
C1403	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C4008	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C1404	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C4009	NCB31AK-105X	C CAPACITOR	1uF 10V K
C1405	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C4010	NCB31AK-105X	C CAPACITOR	1uF 10V K
C1406	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C4011	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C1409	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C4012	NCB31AK-105X	C CAPACITOR	1uF 10V K
C1502	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	C4013	NCB31AK-105X	C CAPACITOR	1uF 10V K
C1508	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C4016	NCB31AK-105X	C CAPACITOR	1uF 10V K
C1509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C4020	NCB31AK-105X	C CAPACITOR	1uF 10V K
C1511	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	C4022	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C3004	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4023	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C3006	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4029	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C3008	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4030	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C3009	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4901	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3010	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4906	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3018	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3019	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4908	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3021	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4909	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3022	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	C4910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3023	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4911	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3028	NDC31HJ-221X	C CAPACITOR	220pF 50V J	C4913	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3030	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4914	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3031	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4915	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3032	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4916	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3037	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4917	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3040	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C4919	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3041	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C4920	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3042	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4921	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3043	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C4922	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3044	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4923	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3045	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4925	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3047	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4926	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3049	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4931	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3051	NCB31HK-472X	C CAPACITOR	4700pF 50V K	C4932	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3052	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	C4933	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3056	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	C4934	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3059	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C4935	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3060	NCB31HK-152X	C CAPACITOR	1500pF 50V K	C4936	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3063	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4937	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3065	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4938	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3066	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4939	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3067	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4940	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3068	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4941	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3069	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C4942	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3070	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C6013	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3071	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C6014	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3072	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C6015	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3074	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C6512	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3076	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C6513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3097	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C6514	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3101	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C6515	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3105	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C6516	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3111	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C6520	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3126	NDC31HJ-390X	C CAPACITOR	39pF 50V J	C6521	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3406	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C6522	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3501	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C6523	NCB31AK-106X	C CAPACITOR	10uF 10V K
C3503	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C7001	NCB31AK-105X	C CAPACITOR	1uF 10V K
C3506	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C7002	NCB31AK-105X	C CAPACITOR	1uF 10V K
C3507	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C7003	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C3508	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C7006	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C3509	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C7007	NCB31AK-105X	C CAPACITOR	1uF 10V K
C3511	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C7010	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3515	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C7011	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3516	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C7012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3517	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C7013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3518	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C7017	NDC31HJ-391X	C CAPACITOR	390pF 50V J
C3519	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C7018	NCB31AK-105X	C CAPACITOR	1uF 10V K
C3524	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C7025	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3527	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C7203	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3530	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C7401	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3531	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C7402	NCB31AK-105X	C CAPACITOR	1uF 10V K
C3532	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C7501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3533	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C7502	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3535	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C7503	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3539	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C7504	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3540	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C7505	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3542	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	C7506	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3543	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C7507	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3548	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C7508	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C7509	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0208	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
C7510	NEH71CM-106X	E CAPACITOR	10uF 16V M	R0209	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7511	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0210	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7512	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0211	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7513	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0214	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7514	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0216	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7515	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0219	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7516	NDC31HJ-330X	C CAPACITOR	33pF 50V J	R0221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7517	NDC31HJ-270X	C CAPACITOR	27pF 50V J	R0222	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7518	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R0225	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C7520	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0226	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7521	NEH71CM-106X	E CAPACITOR	10uF 16V M	R0227	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
C7522	NEH71CM-106X	E CAPACITOR	10uF 16V M	R0228	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7523	NEH71CM-476X	E CAPACITOR	47uF 16V M	R0229	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7524	NEH71CM-476X	E CAPACITOR	47uF 16V M	R0231	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7525	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0232	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7526	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0233	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7527	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0234	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7528	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0237	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
C7529	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0238	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
C7530	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0240	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C7531	NEH71CM-476X	E CAPACITOR	47uF 16V M	R0241	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7532	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0305	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7533	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0306	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C7534	NCB11AK-106X	C CAPACITOR	10uF 10V K	R0307	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C7535	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0308	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
C7541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0309	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7542	NEH70GM-227X	E CAPACITOR	220uF 4V M	R0310	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7543	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	R0311	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7544	NEH70JM-107X	E CAPACITOR	100uF 6.3V M	R0314	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7545	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	R0316	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7546	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0319	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7547	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	R0321	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7548	NEH70GM-227X	E CAPACITOR	220uF 4V M	R0322	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7550	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0325	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C7552	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0326	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7553	NCB31HK-471X	C CAPACITOR	470pF 50V K	R0327	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
C7616	NCB11CK-105X	C CAPACITOR	1uF 16V K	R0328	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C9002	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	R0329	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0331	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C9005	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R0332	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C9007	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R0333	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9008	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R0334	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C9010	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R0337	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
C9012	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R0338	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
C9102	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	R0340	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C9104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0341	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C9105	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R0501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9106	NDC31HJ-121X	C CAPACITOR	120pF 50V J	R0502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9107	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R0504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9108	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R0506	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9111	NCB31HK-822X	C CAPACITOR	8200pF 50V K	R0507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9112	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R0508	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9202	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	R0516	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9205	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R0520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9207	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R0522	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9209	NEZ0022-157X	E CAPACITOR	150uF 10V M	R0523	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9211	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	R0524	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9212	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R0525	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
				R0527	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1001	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J
R0106	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1002	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D
R0107	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1003	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0109	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0110	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0114	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0116	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1007	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1010	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R0121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1011	NQL093K-R10X	P COIL	0.1uH K
R0122	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1012	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R0125	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1013	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R0126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0127	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1017	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0128	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1018	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0129	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0131	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0132	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1101	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R0133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0134	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1104	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0137	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R1105	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R0138	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	R1106	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R0140	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R1107	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R0141	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1113	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R0205	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1201	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R0206	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1203	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0207	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1204	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J

3-16(No.YA209)

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R7715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L1002	NQR0489-002X	FERRITE BEADS		
R7716	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L1003	NQL092K-1R5X	P COIL	1.5uH K	
R7717	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L1004	NQR0489-002X	FERRITE BEADS		
R7718	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L1005	NQR0489-002X	FERRITE BEADS		
R7719	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J		L1006	NQR0489-002X	FERRITE BEADS		
R7720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		L1008	NQL79GM-220X	COIL	22uH M	
R9001	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L1010	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		L1011	NQL79GM-470X	COIL	47uH M	
R9003	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D		L1101	NQL092K-6R8X	P COIL	6.8uH K	
R9004	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D		L1102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9005	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D		L1103	NQL092K-1R0X	P COIL	1uH K	
R9006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L1201	NQL092K-6R8X	P COIL	6.8uH K	
R9007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		L1203	NQL092K-1R0X	P COIL	1uH K	
R9008	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J		L1301	NQL092K-6R8X	P COIL	6.8uH K	
R9101	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L1303	NQL092K-1R0X	P COIL	1uH K	
R9102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		L1401	NQL092K-6R8X	P COIL	6.8uH K	
R9103	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D		L1403	NQL092K-1R0X	P COIL	1uH K	
R9104	NRSA63D-223X	MG RESISTOR	22kΩ 1/16W D		L1501	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9105	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D		L3001	NQR0489-002X	FERRITE BEADS		
R9106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L3005	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9107	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		L3006	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9108	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		L3007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9109	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J		L3008	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9201	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L3009	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9202	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		L3010	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9204	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D		L3012	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9205	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D		L3501	NQR0413-003X	FERRITE BEADS		
R9206	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		L4001	NQR0413-003X	FERRITE BEADS		
R9207	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		L4002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9208	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		L4003	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9209	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J		L6501	NQR0351-001X	FERRITE BEADS		
R9210	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L6502	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
RA1001	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4		L6508	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA1002	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4		L6509	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA1003	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4		L6510	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
RA3002	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4		L7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
RA3004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4		L7002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
RA3013	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4		L7003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
RA3014	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4		L7004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
RA3015	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4		L7005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
RA3016	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4		L7006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
RA3018	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		L7501	NQL092K-4R7X	P COIL	4.7uH K	
RA3020	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		L7502	NQL092K-4R7X	P COIL	4.7uH K	
RA3022	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		L7503	NQL092K-4R7X	P COIL	4.7uH K	
RA3023	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4		L7504	NQL092K-4R7X	P COIL	4.7uH K	
RA3024	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4		L7505	NQL092K-4R7X	P COIL	4.7uH K	
RA3025	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4		L7506	NQL914M-4R7X	COIL	4.7uH M	
RA3026	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4		L7507	NQL092K-4R7X	P COIL	4.7uH K	
RA3028	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		L7508	NQL092K-4R7X	P COIL	4.7uH K	
RA3030	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		L7509	NQL092K-4R7X	P COIL	4.7uH K	
RA3032	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		L7510	NQL092K-4R7X	P COIL	4.7uH K	
RA3502	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		L7511	NQL092K-4R7X	P COIL	4.7uH K	
RA3506	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4		L7512	NQL914M-4R7X	COIL	4.7uH M	
RA3508	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		L7513	NQL914M-4R7X	COIL	4.7uH M	
RA3512	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		L7514	NQL092K-4R7X	P COIL	4.7uH K	
RA3516	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4		L9001	NQL71EM-150X	COIL	15uH M	
RA3518	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4		L9101	NQL71EM-150X	COIL	15uH M	
RA3521	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		L9201	NQL71EM-150X	COIL	15uH M	
RA3523	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4						
RA3526	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		CN001	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
RA3530	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4		CN002	QGF0508F1-30X	CONNECTOR	FFC/FPC (1-30)	
RA3531	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		K1001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
RA3536	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		K1004	NQR0489-002X	FERRITE BEADS		
RA3540	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4		K3003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
RA3542	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4		K3006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
RA3545	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J		K7002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
RA3547	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4		K7501	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
RA4007	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4		K7502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
RA4008	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4		K7503	NQR0389-003X	FERRITE BEADS		
RA4009	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4		LC0102	NQR0483-005X	EMI FILTER	100uF 25V Z	
RA4010	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4		LC0519	NQR0416-001X	EMI FILTER	240pF 16V M	
RA4011	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4		LC0524	NQR0415-005X	EMI FILTER	0.1uF 25V M	
RA4012	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4		LC0525	NQR0470-003X	EMI FILTER	100pF 50V +50%-20%	
RA6515	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4		LC6501	NQR0479-001X	EMI FILTER		
RA7007	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4		LC7501	NQR0313-007X	EMI FILTER	1000pF 50V M	
RB2001	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J		LC7502	NQR0431-001X	EMI FILTER	0.22uF 50V Z	
RB2002	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J		SL7001	NAX0613-001X	C RESONATOR		
RB2003	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J		X1001	NAX0642-001X	CRYSTAL		
L0101	NQL092K-2R2X	P COIL	2.2uH K		X3001	NAX0635-001X	CXO		
L0102	NQL092K-1R0X	P COIL	1uH K		X3003	NAX0668-001X	CXO		
L0201	NQL092K-2R2X	P COIL	2.2uH K		X4001	NAX0669-001X	C RESONATOR		
L0202	NQL092K-1R0X	P COIL	1uH K		X7501	NAX0618-001X	CRYSTAL		
L0301	NQL092K-2R2X	P COIL	2.2uH K						
L0302	NQL092K-1R0X	P COIL	1uH K						
L0401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J						
L1001	NQR0489-002X	FERRITE BEADS							

RECEIVER P.W. BOARD ASS'Y (LCA10476-51A) (SFL-0F301A)

△Ref No.	Part No.	Part Name	Description	Local
IC3101	M62320FP-X	IC		
IC3501	MSP3415GQGB8V3M	IC		
IC3504	BA80BC0FP-X	IC		
IC3601	AN5285K	IC		
IC3651	HA17558AF-X	IC		
Q3001	2SC3928A/QR/-X	TRANSISTOR		
Q3502	2SC3928A/QR/-X	TRANSISTOR		
Q3503	UN2213-X	DIGI TRANSISTOR		
C3003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3004	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C3007	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3008	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3009	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C3010	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3011	NEH71HM-106X	E CAPACITOR	10uF 50V M	
C3012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3101	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C3501	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3503	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3504	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3505	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C3511	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3512	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3513	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
C3514	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
C3515	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3516	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C3517	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3518	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C3523	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C3524	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C3525	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C3526	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3527	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3528	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C3529	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C3530	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3531	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3532	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3533	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3534	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3535	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3536	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C3537	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3544	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C3545	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3546	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C3547	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3601	NEH71EM-475X	E CAPACITOR	4.7uF 25V M	
C3602	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C3603	NEH71AM-107X	E CAPACITOR	100uF 10V M	
C3604	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3605	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C3607	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C3608	NEH71CM-106X	E CAPACITOR	10uF 16V M	
C3609	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C3610	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C3651	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C3652	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C3653	NEH71CM-476X	E CAPACITOR	47uF 16V M	
C3654	NEH71CM-476X	E CAPACITOR	47uF 16V M	
R3004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3007	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3009	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3010	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3014	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3103	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3104	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	

△Ref No.	Part No.	Part Name	Description	Local
R3502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3508	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3512	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3514	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3515	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3516	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3517	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3522	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3523	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3546	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3547	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3601	NRSA63J-225X	MG RESISTOR	2.2kΩ 1/16W J	
R3602	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R3605	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R3606	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3607	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R3608	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R3611	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R3651	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3652	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3654	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3655	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R3656	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3657	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3658	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3702	QRE141J-0R0Y	C RESISTOR	0Ω 1/4W J	
L3001	NQL79GM-220X	COIL	22uH M	
L3002	NQL79GM-100X	COIL	10uH M	
L3503	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3504	NQL79GM-4R7X	COIL	4.7uH M	
L3506	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3507	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K3501	NQR0389-003X	FERRITE BEADS		
K3502	NQR0389-003X	FERRITE BEADS		
LC3501	NQR0431-001X	EMI FILTER	0.22uF 50V Z	
△TU3001	QAU0390-001	TUNER		
X3501	QAX0773-001Z	CRYSTAL	18.432000MHz	

PRINTED WIRING BOARD PARTS LIST [LT-Z32SX4B/A]

ANALOG SIGNAL P.W. BOARD ASS'Y (LCA90350-15B) (SFL-1031A)

REFER TO PARTS LIST IN PAGE 3-6 FOR THIS P.W. BOARD.

CONNECTOR P.W. BOARD ASS'Y (LCA90353-14A) (SFL-4031A)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

FRONT CONTROL P.W. BOARD ASS'Y (LCA90351-18B) (SFL-7031A)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

FRONT SENSOR P.W. BOARD ASS'Y (LCA90352-18A) (SFL-8031A)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

POWER P.W. BOARD ASS'Y (LCA90348-10D) (SFL-9014A)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

REGULATOR P.W. BOARD ASS'Y (LCA90349-10B) (SFL-9114A)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

DIGITAL SIGNAL P.W. BOARD ASS'Y (LCA10428-69B) (SFL-0D307A)

△Ref No.	Part No.	Part Name	Description	Local
IC0401	SN74AHCT1G32V-X	IC		
IC1001	TC90A92AFG	IC		
IC1002	MM1572FN-X	IC		
IC1502	NJM2235V-X	IC		
IC3001	JCC5055	IC		
IC3403	S-80928CLNB-W	IC		
IC3501	K4D263238F-UC50	IC		
IC3502	K4D263238F-UC50	IC		
IC3503	LP2996MR-X	IC		
IC4001	JCC5057	IC		
IC4003	AT29LV01-26D50BJ	IC(MICRO C ROM)	(SERVICE)	
IC4004	ATE256-Z32SX4B1	IC	(SERVICE)	
IC6502	THC63LVDM83R-W	IC		
IC7001	MN102H60KKC	IC(MCU)		
IC7002	ATE256-Z32SX4B2	IC	(SERVICE)	
IC7401	S-80828CLNB-G-W	IC		
IC7501	SDA6000-B12	IC		
IC7502	S-80828CNNB-G-W	IC		
IC7503	K4S641632H-UC75	IC		
IC7504	MBV160-Z26SX4B	IC(MICRO C ROM)	(SERVICE)	
IC7505	PQ2L3252MS-X	IC		
IC7506	CD74HC4053PW-X	IC		
IC7602	ATE32-Z32SX4B	IC	(SERVICE)	
IC9001	MP1580HS-X	IC		
IC9101	MP1580HS-X	IC		
IC9201	MP1580HS-X	IC		
Q0101	2SC3837K/NP/-X	TRANSISTOR		
Q0102	2SA1022/BC/-X	TRANSISTOR		
Q0104	2SA1022/BC/-X	TRANSISTOR		
Q0105	2SC3928A/QR/-X	TRANSISTOR		
Q0107	2SA1530A/QR/-X	TRANSISTOR		
Q0108	2SC3928A/QR/-X	TRANSISTOR		
Q0109	HN1C01F/Y/-X	PAIR TRANSISTOR		

△Ref No.	Part No.	Part Name	Description	Local
Q0110	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0201	2SC3837K/NP/-X	TRANSISTOR		
Q0202	2SA1022/BC/-X	TRANSISTOR		
Q0203	2SC3928A/QR/-X	TRANSISTOR		
Q0204	2SA1022/BC/-X	TRANSISTOR		
Q0205	2SC3928A/QR/-X	TRANSISTOR		
Q0207	2SA1530A/QR/-X	TRANSISTOR		
Q0208	2SC3928A/QR/-X	TRANSISTOR		
Q0209	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0210	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0301	2SC3837K/NP/-X	TRANSISTOR		
Q0302	2SA1022/BC/-X	TRANSISTOR		
Q0303	2SC3928A/QR/-X	TRANSISTOR		
Q0304	2SA1022/BC/-X	TRANSISTOR		
Q0305	2SC3928A/QR/-X	TRANSISTOR		
Q0307	2SA1530A/QR/-X	TRANSISTOR		
Q0308	2SC3928A/QR/-X	TRANSISTOR		
Q0309	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0310	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q1001	UN2213-X	DIGI TRANSISTOR		
Q1003	2SC3928A/QR/-X	TRANSISTOR		
Q1004	2SA1530A/QR/-X	TRANSISTOR		
Q1101	2SC3928A/QR/-X	TRANSISTOR		
Q1103	2SA1530A/QR/-X	TRANSISTOR		
Q1201	2SC3928A/QR/-X	TRANSISTOR		
Q1203	2SA1530A/QR/-X	TRANSISTOR		
Q1301	2SC3928A/QR/-X	TRANSISTOR		
Q1303	2SA1530A/QR/-X	TRANSISTOR		
Q1401	2SC3928A/QR/-X	TRANSISTOR		
Q1403	2SA1530A/QR/-X	TRANSISTOR		
Q3001	2SC3928A/QR/-X	TRANSISTOR		
Q3002	2SA1530A/QR/-X	TRANSISTOR		
Q3003	2SC3928A/QR/-X	TRANSISTOR		
Q3004	2SA1530A/QR/-X	TRANSISTOR		
Q6501	2SC3928A/QR/-X	TRANSISTOR		
Q6502	2SC3928A/QR/-X	TRANSISTOR		
Q7206	UN2213-X	DIGI TRANSISTOR		
Q7207	DTA144EKA-X	DIGI TRANSISTOR		
Q7501	2SA1162/YG/-X	TRANSISTOR		
Q7508	DTC114EKA-X	DIGI TRANSISTOR		
D1001	EC30HA03L-X	SB DIODE		
D1002	EC30HA03L-X	SB DIODE		
D7001	MA111-X	SI DIODE		
D7003	MA111-X	SI DIODE		
D7005	MA8082/M/-X	Z DIODE		
D7006	MA8082/M/-X	Z DIODE		
D7007	MA8082/M/-X	Z DIODE		
D7008	MA8082/M/-X	Z DIODE		
D7009	MA8082/M/-X	Z DIODE		
D7010	MA111-X	SI DIODE		
D7203	MA111-X	SI DIODE		
D7210	RB501V-40-X	SB DIODE		
D7501	MA111-X	SI DIODE		
D7502	MA111-X	SI DIODE		
D9001	EC30HA03L-X	SB DIODE		
D9003	PTZ3.9B-X	Z DIODE		
D9101	EC30HA03L-X	SB DIODE		
D9102	EC30HA03L-X	SB DIODE		
D9103	PTZ3.9B-X	Z DIODE		
D9104	MA111-X	SI DIODE		
D9201	EC30HA03L-X	SB DIODE		
D9203	PTZ3.9B-X	Z DIODE		
D9204	MA111-X	SI DIODE		
C0103	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C0105	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C0107	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0109	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0110	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0111	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C0112	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C0113	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0114	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0115	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0116	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0117	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C0118	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C0203	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C0205	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C0207	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0209	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0210	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0211	NDC31HJ-820X	C CAPACITOR	82pF 50V J	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C0212	NDC31HJ-820X	C CAPACITOR	82pF 50V J	C1405	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C0213	NCB11AK-106X	C CAPACITOR	10uF 10V K	C1406	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C0214	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C1409	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C0215	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C1502	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C0217	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C1508	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C0218	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C1509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C0303	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C1511	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C0305	NDC31HJ-270X	C CAPACITOR	27pF 50V J	C3004	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0307	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3006	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0309	NCB11AK-106X	C CAPACITOR	10uF 10V K	C3008	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0310	NCB11AK-106X	C CAPACITOR	10uF 10V K	C3009	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0311	NDC31HJ-820X	C CAPACITOR	82pF 50V J	C3010	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0312	NDC31HJ-820X	C CAPACITOR	82pF 50V J	C3016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0313	NCB11AK-106X	C CAPACITOR	10uF 10V K	C3018	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0314	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3019	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0315	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3021	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0317	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C3022	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C0318	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C3023	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C0401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C3028	NDC31HJ-221X	C CAPACITOR	220pF 50V J
C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3030	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3031	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1005	NCB31HK-152X	C CAPACITOR	150pF 50V K	C3032	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3037	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1009	NDC31HJ-220X	C CAPACITOR	22pF 50V J	C3040	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1010	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C3041	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1011	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	C3042	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3043	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3044	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1014	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3045	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1015	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3047	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1016	NCB11AK-106X	C CAPACITOR	10uF 10V K	C3049	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1017	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3051	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C1018	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3052	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C1019	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3056	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C1021	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3059	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C1023	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3060	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C1025	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3063	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1026	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3065	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1028	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3066	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1029	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3067	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1030	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3068	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1031	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3069	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1032	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3070	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1033	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3071	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1034	NDC31HJ-390X	C CAPACITOR	39pF 50V J	C3072	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1035	NDC31HJ-680X	C CAPACITOR	68pF 50V J	C3074	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C3076	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1038	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3097	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1039	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3101	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1040	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3105	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1041	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	C3111	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C3126	NDC31HJ-390X	C CAPACITOR	39pF 50V J
C1043	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3406	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C3501	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1046	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3503	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1047	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3506	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1048	NCB11CK-105X	C CAPACITOR	1uF 16V K	C3507	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1049	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3508	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1050	NCB11CK-105X	C CAPACITOR	1uF 16V K	C3509	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1051	NCB11CK-105X	C CAPACITOR	1uF 16V K	C3511	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1061	NDC31HJ-4R0X	C CAPACITOR	4pF 50V J	C3515	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1062	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	C3516	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1063	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C3517	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1064	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3518	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1065	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	C3519	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1066	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	C3524	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1102	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3527	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1103	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3530	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1104	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C3531	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1105	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C3532	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1106	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C3533	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1109	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C3535	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1202	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3539	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1203	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3540	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1204	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C3542	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1205	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C3543	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1206	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C3548	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1209	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C3549	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C1302	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3550	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1303	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3551	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C1304	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C3552	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1305	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C4002	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1306	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C4003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C1309	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C4005	NCB31AK-105X	C CAPACITOR	1uF 10V K
C1402	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C4006	NCB31AK-105X	C CAPACITOR	1uF 10V K
C1403	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C4008	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C1404	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C4009	NCB31AK-105X	C CAPACITOR	1uF 10V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C4010	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7520	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4011	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C7521	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C4012	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7522	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C4013	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7523	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C4016	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7524	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C4020	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7525	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4022	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C7526	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4023	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C7527	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4029	NDC31HJ-470X	C CAPACITOR	47pF 50V J	C7528	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4030	NDC31HJ-470X	C CAPACITOR	47pF 50V J	C7529	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4901	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7530	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7531	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C4906	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7532	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7533	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4908	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7534	NCB11AK-106X	C CAPACITOR	10uF 10V K
C4909	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7535	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4911	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7542	NEHLOGM-227X	E CAPACITOR	220uF 4V M
C4913	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7543	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C4914	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7544	NEHLOGM-107X	E CAPACITOR	100uF 6.3V M
C4915	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7545	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C4916	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7546	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4917	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7547	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C4919	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7548	NEHLOGM-227X	E CAPACITOR	220uF 4V M
C4920	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7550	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4921	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7552	NCB31AK-105X	C CAPACITOR	1uF 10V K
C4922	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7553	NCB31HK-471X	C CAPACITOR	470pF 50V K
C4923	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7616	NCB11CK-105X	C CAPACITOR	1uF 16V K
C4925	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9002	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C4926	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4931	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9005	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4932	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9007	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C4933	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9008	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4934	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9010	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4935	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9012	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C4936	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9102	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C4937	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4938	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9105	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4939	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9106	NDC31HJ-121X	C CAPACITOR	120pF 50V J
C4940	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9107	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C4941	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9108	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4942	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9111	NCB31HK-822X	C CAPACITOR	8200pF 50V K
C6013	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C9112	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C6014	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C9202	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C6015	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C9204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C6512	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C9205	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C6513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C9207	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C6514	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C9209	NEZ0022-157X	E CAPACITOR	150uF 10V M
C6515	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C9211	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C6516	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C9212	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C6520	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z				
C6521	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6522	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0106	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C6523	NCB11AK-106X	C CAPACITOR	10uF 10V K	R0107	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C7001	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0109	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7002	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0110	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7003	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	R0114	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7006	NDC31HJ-150X	C CAPACITOR	15pF 50V J	R0116	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7007	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7010	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7011	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0122	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0125	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C7013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7017	NDC31HJ-391X	C CAPACITOR	390pF 50V J	R0127	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7018	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0128	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7025	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0129	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7203	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0131	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7401	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0132	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7402	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0134	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7502	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0137	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7503	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0138	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
C7504	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0140	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C7505	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0141	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7506	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0205	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7507	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0206	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C7508	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0207	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C7509	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0208	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
C7510	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R0209	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7511	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0210	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7512	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0211	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7513	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0214	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7514	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0216	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7515	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0219	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7516	NDC31HJ-330X	C CAPACITOR	33pF 50V J	R0221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7517	NDC31HJ-270X	C CAPACITOR	27pF 50V J	R0222	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7518	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R0225	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R0226	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R1313	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J
R0227	NRSA63J-181X	MG RESISTOR	180Ω	1/16W J	R1401	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J
R0228	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R1403	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R0229	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R1404	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J
R0231	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R1405	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J
R0232	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R1406	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J
R0233	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R1407	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J
R0234	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R1413	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J
R0237	NRSA63J-271X	MG RESISTOR	270Ω	1/16W J	R1523	NCF31CZ-104X	C CAPACITOR	0.1uF	16V Z
R0238	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J	R1524	NRSA63J-474X	MG RESISTOR	470kΩ	1/16W J
R0240	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	R1525	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0241	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R1584	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0305	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R2010	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0306	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	R3001	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R0307	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	R3003	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0308	NRSA63J-681X	MG RESISTOR	680Ω	1/16W J	R3004	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R0309	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	R3006	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0310	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3007	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0311	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3008	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0314	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3009	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0316	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3018	NRSA02J-3R3X	MG RESISTOR	3.3Ω	1/10W J
R0319	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3019	NRSA02J-3R3X	MG RESISTOR	3.3Ω	1/10W J
R0321	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3020	NRSA02J-3R3X	MG RESISTOR	3.3Ω	1/10W J
R0322	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R3021	NRSA63D-102X	MG RESISTOR	1kΩ	1/16W D
R0325	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	R3022	NRSA63D-332X	MG RESISTOR	3.3kΩ	1/16W D
R0326	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3023	NRSA63D-332X	MG RESISTOR	3.3kΩ	1/16W D
R0327	NRSA63J-181X	MG RESISTOR	180Ω	1/16W J	R3024	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R0328	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R3028	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R0329	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R3029	NRSA63D-392X	MG RESISTOR	3.9kΩ	1/16W D
R0331	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3030	NRSA63D-102X	MG RESISTOR	1kΩ	1/16W D
R0332	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3031	NRSA63D-151X	MG RESISTOR	150Ω	1/16W D
R0333	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3032	NRSA63J-5R6X	MG RESISTOR	5.6Ω	1/16W J
R0334	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3033	NRSA63J-5R6X	MG RESISTOR	5.6Ω	1/16W J
R0337	NRSA63J-271X	MG RESISTOR	270Ω	1/16W J	R3034	NRSA63J-5R6X	MG RESISTOR	5.6Ω	1/16W J
R0338	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J	R3036	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R0340	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	R3037	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R0341	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3038	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J
R0501	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3040	NRSA63J-201X	MG RESISTOR	200Ω	1/16W J
R0502	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3041	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R0504	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3042	NRSA63J-201X	MG RESISTOR	200Ω	1/16W J
R0506	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3043	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R0507	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3044	NRSA63J-821X	MG RESISTOR	820Ω	1/16W J
R0508	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3045	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R0516	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3047	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R0517	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3048	NRSA63J-821X	MG RESISTOR	820Ω	1/16W J
R0520	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3053	NRSA63J-272X	MG RESISTOR	2.7kΩ	1/16W J
R0522	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3054	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0523	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3056	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0524	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3063	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R0525	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3064	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R0527	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3065	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R1001	NRSA63J-274X	MG RESISTOR	270kΩ	1/16W J	R3066	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R1002	NRSA63D-101X	MG RESISTOR	100Ω	1/16W D	R3069	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1003	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R3070	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1004	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	R3071	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1005	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R3072	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1006	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3089	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1007	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3090	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1010	NRSA63J-183X	MG RESISTOR	18kΩ	1/16W J	R3091	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1011	NQL093K-R10X	P COIL	0.1uH	K	R3092	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1012	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J	R3093	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1013	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J	R3094	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1014	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3095	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1017	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3096	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1018	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	R3097	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1019	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3098	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1021	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3099	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1101	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	R3100	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1102	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3101	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1104	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	R3102	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1105	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J	R3103	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1106	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J	R3104	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1107	NRSA63J-331X	MG RESISTOR	330Ω	1/16W J	R3105	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1113	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J	R3106	NRS144J-0R0X	MG RESISTOR	0Ω	1/4W J
R1201	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	R3122	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1203	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3126	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1204	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	R3131	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1205	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J	R3132	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1206	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	R3151	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1207	NRSA63J-331X	MG RESISTOR	330Ω	1/16W J	R3152	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1213	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J	R3153	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1301	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	R3155	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1303	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3157	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1304	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	R3159	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1305	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J	R3160	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1306	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	R3161	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1307	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J	R3163	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R3164	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6514	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3165	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6515	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3166	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6521	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3167	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6529	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R3168	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6531	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3169	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6532	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3170	NRS144J-0R0X	MG RESISTOR	0Ω 1/4W J	R6533	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3171	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6534	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3178	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6536	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3181	NRS144J-0R0X	MG RESISTOR	0Ω 1/4W J	R6537	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3207	NRS144J-0R0X	MG RESISTOR	0Ω 1/4W J	R6538	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3502	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R6540	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3503	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R6541	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3505	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R6542	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3507	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R6544	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3509	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R6548	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3511	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R6550	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3514	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R6558	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3516	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7001	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3518	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3520	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3522	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3524	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3525	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7007	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3527	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7008	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3529	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7010	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3531	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7011	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3533	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3536	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3538	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7016	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3540	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3542	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3544	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J	R7019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R7021	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R4005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R7022	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R4006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7023	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7024	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4008	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R7025	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7026	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4016	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R7029	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R4018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7031	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7033	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R4023	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R7034	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4024	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R7035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4027	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R7038	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4035	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R7039	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R4037	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R7040	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4039	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R7041	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R7042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4042	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7043	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R4044	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7046	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4046	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R7047	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4055	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7048	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4056	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R7049	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4057	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R7057	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4058	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R7058	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R4059	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7059	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R4060	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R7060	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R4061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7061	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R4064	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7063	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R4065	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7064	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4068	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7065	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R4101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R4102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7067	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R4103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7068	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R4104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7069	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R7070	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4106	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R7071	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7077	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6025	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R7080	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6028	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R7081	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6031	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R7082	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R7085	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6036	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R7086	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6038	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R7087	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6039	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R7088	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6040	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7089	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6043	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7090	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6048	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R7091	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R6057	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7092	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R6058	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7093	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6059	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7094	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7095	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6510	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R7096	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6512	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R7097	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R7098	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R7099	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9005	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R7100	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R9006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7101	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R9007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R9008	NRSA63J-680X	MG RESISTOR	68kΩ 1/16W J
R7107	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9101	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7108	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7109	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9103	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D
R7110	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9104	NRSA63D-223X	MG RESISTOR	22kΩ 1/16W D
R7111	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9105	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R7112	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9107	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9108	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7118	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9109	NRSA63J-680X	MG RESISTOR	68kΩ 1/16W J
R7119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9201	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R7120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9202	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7123	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9204	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D
R7132	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9205	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R7134	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R9206	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7135	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R9207	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7136	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R9208	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R7137	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R9209	NRSA63J-680X	MG RESISTOR	68kΩ 1/16W J
R7140	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R9210	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7143	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA1001	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4
R7144	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	RA1002	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4
R7145	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	RA1003	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4
R7146	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	RA3002	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4
R7148	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA3004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4
R7149	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3013	NRZ0034-220W	NET RESISTOR	22kΩ 1/32W J x4
R7150	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3014	NRZ0034-220W	NET RESISTOR	22kΩ 1/32W J x4
R7151	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	RA3015	NRZ0034-220W	NET RESISTOR	22kΩ 1/32W J x4
R7152	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	RA3016	NRZ0034-220W	NET RESISTOR	22kΩ 1/32W J x4
R7153	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA3018	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7158	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3020	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7159	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3022	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3023	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7215	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	RA3024	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7216	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3025	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3026	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7404	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3028	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7501	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3030	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7510	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA3032	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7511	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA3502	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7514	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA3506	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7515	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA3508	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7518	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA3512	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7553	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3516	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7556	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3518	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7557	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	RA3521	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7558	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3523	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7559	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA3526	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7560	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	RA3530	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7561	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA3531	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7565	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3536	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7566	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	RA3540	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7567	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	RA3542	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7568	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	RA3545	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7576	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA3547	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7588	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	RA4007	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7590	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA4008	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7599	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA4009	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7602	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA4010	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7603	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA4011	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7692	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA4012	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7701	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA6515	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA7007	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R7703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB2001	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J
R7704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB2002	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J
R7705	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB2003	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J
R7706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R7707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L0101	NQL092K-2R2X	P COIL	2.2uH K
R7708	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	L0102	NQL092K-1R0X	P COIL	1uH K
R7709	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L0201	NQL092K-2R2X	P COIL	2.2uH K
R7710	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L0202	NQL092K-1R0X	P COIL	1uH K
R7711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L0301	NQL092K-2R2X	P COIL	2.2uH K
R7712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L0302	NQL092K-1R0X	P COIL	1uH K
R7713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L0401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1001	NQR0489-002X	FERRITE BEADS	
R7715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1002	NQR0489-002X	FERRITE BEADS	
R7716	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1003	NQL092K-1R5X	P COIL	1.5uH K
R7717	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1004	NQR0489-002X	FERRITE BEADS	
R7718	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1005	NQR0489-002X	FERRITE BEADS	
R7719	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	L1006	NQR0489-002X	FERRITE BEADS	
R7720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1008	NQL79GM-220X	COIL	22uH M
R9001	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	L1010	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	L1011	NQL79GM-470X	COIL	47uH M
R9003	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D	L1101	NQL092K-6R8X	P COIL	6.8uH K
R9004	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D	L1102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J

△Ref No.	Part No.	Part Name	Description	Local
L1103	NQL092K-1R0X	P COIL	1uH K	
L1201	NQL092K-6R8X	P COIL	6.8uH K	
L1203	NQL092K-1R0X	P COIL	1uH K	
L1301	NQL092K-6R8X	P COIL	6.8uH K	
L1303	NQL092K-1R0X	P COIL	1uH K	
L1401	NQL092K-6R8X	P COIL	6.8uH K	
L1403	NQL092K-1R0X	P COIL	1uH K	
L1501	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3001	NQR0489-002X	FERRITE BEADS		
L3005	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3006	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3008	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3009	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3010	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3012	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3501	NQR0413-003X	FERRITE BEADS		
L4001	NQR0413-003X	FERRITE BEADS		
L4002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L4003	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L6501	NQR0351-001X	FERRITE BEADS		
L6502	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L6508	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L6509	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L6510	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
L7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L7501	NQL092K-4R7X	P COIL	4.7uH K	
L7502	NQL092K-4R7X	P COIL	4.7uH K	
L7503	NQL092K-4R7X	P COIL	4.7uH K	
L7504	NQL092K-4R7X	P COIL	4.7uH K	
L7505	NQL092K-4R7X	P COIL	4.7uH K	
L7506	NQL914M-4R7X	COIL	4.7uH M	
L7507	NQL092K-4R7X	P COIL	4.7uH K	
L7508	NQL092K-4R7X	P COIL	4.7uH K	
L7509	NQL092K-4R7X	P COIL	4.7uH K	
L7510	NQL092K-4R7X	P COIL	4.7uH K	
L7511	NQL092K-4R7X	P COIL	4.7uH K	
L7512	NQL914M-4R7X	COIL	4.7uH M	
L7513	NQL914M-4R7X	COIL	4.7uH M	
L7514	NQL092K-4R7X	P COIL	4.7uH K	
L9001	NQL71EM-150X	COIL	15uH M	
L9101	NQL71EM-150X	COIL	15uH M	
L9201	NQL71EM-150X	COIL	15uH M	
CN001	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
CN002	QGF0508F1-30X	CONNECTOR	FFC/FPC (1-30)	
K1001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1004	NQR0489-002X	FERRITE BEADS		
K3003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K3006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K7501	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
K7502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7503	NQR0389-003X	FERRITE BEADS		
LC0102	NQR0483-005X	EMI FILTER	100uF 25V Z	
LC0519	NQR0416-001X	EMI FILTER	240pF 16V M	
LC0524	NQR0415-005X	EMI FILTER	0.1uF 25V M	
LC0525	NQR0470-003X	EMI FILTER	100pF 50V +50%-20%	
LC6501	NQR0479-001X	EMI FILTER		
LC7501	NQR0313-007X	EMI FILTER	1000pF 50V M	
LC7502	NQR0431-001X	EMI FILTER	0.22uF 50V Z	
SL7001	NAX0613-001X	C RESONATOR		
X1001	NAX0642-001X	CRYSTAL		
X3001	NAX0635-001X	CXO		
X3003	NAX0668-001X	CXO		
X4001	NAX0669-001X	C RESONATOR		
X7501	NAX0618-001X	CRYSTAL		

RECEIVER P.W. BOARD ASS'Y (LCA10476-51A) (SFL-0F301A)

REFER TO PARTS LIST IN PAGE 3-19 FOR THIS P.W. BOARD.

PRINTED WIRING BOARD PARTS LIST [LT-Z32SX4B/S, LT-Z32SX4S/S]

ANALOG SIGNAL P.W. BOARD ASS'Y (LCA90350-15B) (SFL-1031A)

REFER TO PARTS LIST IN PAGE 3-6 FOR THIS P.W. BOARD.

CONNECTOR P.W. BOARD ASS'Y (LCA90353-14A) (SFL-4031A)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

FRONT CONTROL P.W. BOARD ASS'Y (LCA90351-18B) (SFL-7031A)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

FRONT SENSOR P.W. BOARD ASS'Y (LCA90352-18A) (SFL-8031A)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

POWER P.W. BOARD ASS'Y (LCA90348-10D) (SFL-9014A)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

REGULATOR P.W. BOARD ASS'Y (LCA90349-10B) (SFL-9114A)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

DIGITAL SIGNAL P.W. BOARD ASS'Y (LCA10428-68B) (SFL-0D306A)

△Ref No.	Part No.	Part Name	Description	Local
IC0401	SN74AHCT1G32V-X	IC		
IC1001	TC90A92AFG	IC		
IC1002	MM1572FN-X	IC		
IC1502	NJM2235V-X	IC		
IC3001	JCC5055	IC		
IC3403	S-80928CLNB-W	IC		
IC3501	K4D263238F-UC50	IC		
IC3502	K4D263238F-UC50	IC		
IC3503	LP2996MR-X	IC		
IC4001	JCC5057	IC		
IC4003	AT29LV01-26D50BJ	IC(MICRO C ROM)	(SERVICE)	
IC4004	ATE256-Z32SX4B1	IC	(SERVICE)	
IC6502	THC63LVDIM83R-W	IC		
IC7001	MN102H60KKC	IC(MCU)		
IC7002	ATE256-Z32SX4B2	IC	(SERVICE)	
IC7401	S-80828CLNB-W	IC		
IC7501	SDA6000-B12	IC		
IC7502	S-80828CNNB-W	IC		
IC7503	K4S641632H-UC75	IC		
IC7504	MBV160-Z26SX4B	IC(MICRO C ROM)	(SERVICE)	
IC7505	PQ2L3252MS-X	IC		
IC7506	CD74HC4053PW-X	IC		
IC7602	ATE32-Z32SX4B	IC	(SERVICE)	
IC9001	MP1580HS-X	IC		
IC9101	MP1580HS-X	IC		
IC9201	MP1580HS-X	IC		
Q0101	2SC3837K/NP/-X	TRANSISTOR		
Q0102	2SA1022/BC/-X	TRANSISTOR		
Q0104	2SA1022/BC/-X	TRANSISTOR		
Q0105	2SC3928A/QR/-X	TRANSISTOR		
Q0107	2SA1530A/QR/-X	TRANSISTOR		
Q0108	2SC3928A/QR/-X	TRANSISTOR		
Q0109	HN1C01F/Y/-X	PAIR TRANSISTOR		

△Ref No.	Part No.	Part Name	Description	Local
Q0110	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0201	2SC3837K/NP/-X	TRANSISTOR		
Q0202	2SA1022/BC/-X	TRANSISTOR		
Q0203	2SC3928A/QR/-X	TRANSISTOR		
Q0204	2SA1022/BC/-X	TRANSISTOR		
Q0205	2SC3928A/QR/-X	TRANSISTOR		
Q0207	2SA1530A/QR/-X	TRANSISTOR		
Q0208	2SC3928A/QR/-X	TRANSISTOR		
Q0209	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0210	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0301	2SC3837K/NP/-X	TRANSISTOR		
Q0302	2SA1022/BC/-X	TRANSISTOR		
Q0303	2SC3928A/QR/-X	TRANSISTOR		
Q0304	2SA1022/BC/-X	TRANSISTOR		
Q0305	2SC3928A/QR/-X	TRANSISTOR		
Q0307	2SA1530A/QR/-X	TRANSISTOR		
Q0308	2SC3928A/QR/-X	TRANSISTOR		
Q0309	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q0310	HN1C01F/Y/-X	PAIR TRANSISTOR		
Q1001	UN2213-X	DIGI TRANSISTOR		
Q1003	2SC3928A/QR/-X	TRANSISTOR		
Q1004	2SA1530A/QR/-X	TRANSISTOR		
Q1101	2SC3928A/QR/-X	TRANSISTOR		
Q1103	2SA1530A/QR/-X	TRANSISTOR		
Q1201	2SC3928A/QR/-X	TRANSISTOR		
Q1203	2SA1530A/QR/-X	TRANSISTOR		
Q1301	2SC3928A/QR/-X	TRANSISTOR		
Q1303	2SA1530A/QR/-X	TRANSISTOR		
Q1401	2SC3928A/QR/-X	TRANSISTOR		
Q1403	2SA1530A/QR/-X	TRANSISTOR		
Q3001	2SC3928A/QR/-X	TRANSISTOR		
Q3002	2SA1530A/QR/-X	TRANSISTOR		
Q3003	2SC3928A/QR/-X	TRANSISTOR		
Q3004	2SA1530A/QR/-X	TRANSISTOR		
Q6501	2SC3928A/QR/-X	TRANSISTOR		
Q6502	2SC3928A/QR/-X	TRANSISTOR		
Q7206	UN2213-X	DIGI TRANSISTOR		
Q7207	DTA144EKA-X	DIGI TRANSISTOR		
Q7501	2SA1162/YG/-X	TRANSISTOR		
Q7508	DTC114EKA-X	DIGI TRANSISTOR		
D1001	EC30HA03L-X	SB DIODE		
D1002	EC30HA03L-X	SB DIODE		
D7001	MA111-X	SI DIODE		
D7003	MA111-X	SI DIODE		
D7005	MA8082/M/-X	Z DIODE		
D7006	MA8082/M/-X	Z DIODE		
D7007	MA8082/M/-X	Z DIODE		
D7008	MA8082/M/-X	Z DIODE		
D7009	MA8082/M/-X	Z DIODE		
D7010	MA111-X	SI DIODE		
D7203	MA111-X	SI DIODE		
D7210	RB501V-40-X	SB DIODE		
D7501	MA111-X	SI DIODE		
D7502	MA111-X	SI DIODE		
D9001	EC30HA03L-X	SB DIODE		
D9003	PTZ3.9B-X	Z DIODE		
D9101	EC30HA03L-X	SB DIODE		
D9102	EC30HA03L-X	SB DIODE		
D9103	PTZ3.9B-X	Z DIODE		
D9104	MA111-X	SI DIODE		
D9201	EC30HA03L-X	SB DIODE		
D9203	PTZ3.9B-X	Z DIODE		
D9204	MA111-X	SI DIODE		
C0103	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C0105	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C0107	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0109	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0110	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0111	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C0112	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C0113	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0114	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0115	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0116	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0117	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C0118	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C0203	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C0205	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C0207	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0209	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0210	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C0211	NDC31HJ-820X	C CAPACITOR	82pF 50V J	

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
C0212	NDC31HJ-820X	C CAPACITOR	82pF 50V J		C1405	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C0213	NCB11AK-106X	C CAPACITOR	10uF 10V K		C1406	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C0214	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C1409	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C0215	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C1502	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C0217	NDC31HJ-560X	C CAPACITOR	56pF 50V J		C1508	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C0218	NDC31HJ-151X	C CAPACITOR	150pF 50V J		C1509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C0303	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C1511	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C0305	NDC31HJ-270X	C CAPACITOR	27pF 50V J		C3004	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0307	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C3006	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0309	NCB11AK-106X	C CAPACITOR	10uF 10V K		C3008	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0310	NCB11AK-106X	C CAPACITOR	10uF 10V K		C3009	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0311	NDC31HJ-820X	C CAPACITOR	82pF 50V J		C3010	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0312	NDC31HJ-820X	C CAPACITOR	82pF 50V J		C3016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0313	NCB11AK-106X	C CAPACITOR	10uF 10V K		C3018	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0314	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C3019	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0315	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C3021	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0317	NDC31HJ-560X	C CAPACITOR	56pF 50V J		C3022	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	
C0318	NDC31HJ-151X	C CAPACITOR	150pF 50V J		C3023	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C0401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3028	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3030	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3031	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1005	NCB31HK-152X	C CAPACITOR	1500pF 50V K		C3032	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3037	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1009	NDC31HJ-220X	C CAPACITOR	22pF 50V J		C3040	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1010	NDC31HJ-180X	C CAPACITOR	18pF 50V J		C3041	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1011	NDC31HJ-102X	C CAPACITOR	1000pF 50V J		C3042	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3043	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3044	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1014	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3045	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1015	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3047	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1016	NCB11AK-106X	C CAPACITOR	10uF 10V K		C3049	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1017	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3051	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1018	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3052	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1019	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3056	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C1021	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3059	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1023	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3060	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C1025	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3063	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1026	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3065	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1028	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3066	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1029	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3067	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1030	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3068	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1031	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3069	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1032	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3070	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1033	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3071	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1034	NDC31HJ-390X	C CAPACITOR	39pF 50V J		C3072	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1035	NDC31HJ-680X	C CAPACITOR	68pF 50V J		C3074	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1037	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		C3076	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1038	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3097	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C1039	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3101	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C1040	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3105	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C1041	NCB10JK-106X	C CAPACITOR	10uF 6.3V K		C3111	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1042	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		C3126	NDC31HJ-390X	C CAPACITOR	39pF 50V J	
C1043	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3406	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1045	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		C3501	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1046	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3503	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1047	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3506	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C1048	NCB11CK-105X	C CAPACITOR	1uF 16V K		C3507	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1049	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3508	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1050	NCB11CK-105X	C CAPACITOR	1uF 16V K		C3509	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C1051	NCB11CK-105X	C CAPACITOR	1uF 16V K		C3511	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1061	NDC31HJ-4R0X	C CAPACITOR	4pF 50V J		C3515	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1062	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M		C3516	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1063	NCB21AK-225X	C CAPACITOR	2.2uF 10V K		C3517	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1064	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C3518	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1065	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3519	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1066	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M		C3524	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1102	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C3527	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1103	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C3530	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1104	NDC31HJ-560X	C CAPACITOR	56pF 50V J		C3531	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1105	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z		C3532	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C1106	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		C3533	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C1109	NDC31HJ-151X	C CAPACITOR	150pF 50V J		C3535	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1202	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C3539	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1203	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C3540	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1204	NDC31HJ-560X	C CAPACITOR	56pF 50V J		C3542	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z	
C1205	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z		C3543	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1206	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		C3548	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1209	NDC31HJ-151X	C CAPACITOR	150pF 50V J		C3549	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	
C1302	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C3550	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1303	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C3551	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	
C1304	NDC31HJ-560X	C CAPACITOR	56pF 50V J		C3552	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C1305	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z		C4002	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1306	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		C4003	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1309	NDC31HJ-151X	C CAPACITOR	150pF 50V J		C4005	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C1402	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C4006	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C1403	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C4008	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	
C1404	NDC31HJ-560X	C CAPACITOR	56pF 50V J		C4009	NCB31AK-105X	C CAPACITOR	1uF 10V K	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C4010	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7520	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4011	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C7521	NEH71CM-106X	E CAPACITOR	10uF 16V M
C4012	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7522	NEH71CM-106X	E CAPACITOR	10uF 16V M
C4013	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7523	NEH71CM-476X	E CAPACITOR	47uF 16V M
C4016	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7524	NEH71CM-476X	E CAPACITOR	47uF 16V M
C4020	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7525	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4022	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C7526	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4023	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C7527	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4029	NDC31HJ-470X	C CAPACITOR	47pF 50V J	C7528	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4030	NDC31HJ-470X	C CAPACITOR	47pF 50V J	C7529	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4901	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7530	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7531	NEH71CM-476X	E CAPACITOR	47uF 16V M
C4906	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7532	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7533	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4908	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7534	NCB11AK-106X	C CAPACITOR	10uF 10V K
C4909	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7535	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4911	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7542	NEH70GM-227X	E CAPACITOR	220uF 4V M
C4913	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7543	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C4914	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7544	NEH70JM-107X	E CAPACITOR	100uF 6.3V M
C4915	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7545	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C4916	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7546	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4917	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7547	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C4919	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7548	NEH70GM-227X	E CAPACITOR	220uF 4V M
C4920	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7550	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4921	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7552	NCB31AK-105X	C CAPACITOR	1uF 10V K
C4922	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7553	NCB31HK-471X	C CAPACITOR	470pF 50V K
C4923	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7616	NCB11CK-105X	C CAPACITOR	1uF 16V K
C4925	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9002	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C4926	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4931	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9005	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4932	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9007	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C4933	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9008	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4934	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9010	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4935	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9012	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C4936	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9102	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C4937	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4938	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9105	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4939	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9106	NDC31HJ-121X	C CAPACITOR	120pF 50V J
C4940	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9107	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C4941	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9108	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4942	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9111	NCB31HK-822X	C CAPACITOR	8200pF 50V K
C6013	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C9112	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C6014	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C9202	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C6015	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C9204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C6512	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C9205	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C6513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C9207	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C6514	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C9209	NEZ0022-157X	E CAPACITOR	150uF 10V M
C6515	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C9211	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C6516	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C9212	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C6520	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6521	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0106	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C6522	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0107	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C6523	NCB11AK-106X	C CAPACITOR	10uF 10V K	R0109	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7001	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0110	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7002	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0114	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7003	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	R0116	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7006	NDC31HJ-150X	C CAPACITOR	150pF 50V J	R0119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7007	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7010	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0122	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7011	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0125	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C7012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0127	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7017	NDC31HJ-391X	C CAPACITOR	390pF 50V J	R0128	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7018	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0129	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7025	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0131	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7203	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0132	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7401	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7402	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0134	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0137	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7502	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0138	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
C7503	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0140	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C7504	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0141	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7505	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0205	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7506	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0206	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C7507	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0207	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C7508	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0208	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
C7509	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0209	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C7510	NEH71CM-106X	E CAPACITOR	10uF 16V M	R0210	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7511	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0211	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7512	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0214	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7513	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0216	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7514	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0219	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7515	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7516	NDC31HJ-330X	C CAPACITOR	33pF 50V J	R0222	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7517	NDC31HJ-270X	C CAPACITOR	27pF 50V J	R0225	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C7518	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R0226	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R1313	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J
R0227	NRSA63J-181X	MG RESISTOR	180Ω	1/16W J	R1401	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J
R0228	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R1403	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R0229	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R1404	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J
R0231	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R1405	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J
R0232	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R1406	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J
R0233	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R1407	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J
R0234	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R1413	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J
R0237	NRSA63J-271X	MG RESISTOR	270Ω	1/16W J	R1523	NCF31CZ-104X	C CAPACITOR	0.1uF	16V Z
R0238	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J	R1524	NRSA63J-474X	MG RESISTOR	470kΩ	1/16W J
R0240	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	R1525	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0241	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R1584	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0305	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R2010	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0306	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	R3001	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R0307	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	R3003	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0308	NRSA63J-681X	MG RESISTOR	680Ω	1/16W J	R3004	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R0309	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	R3006	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0310	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3007	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0311	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3008	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0314	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3009	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0316	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3018	NRSA02J-3R3X	MG RESISTOR	3.3Ω	1/10W J
R0319	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3019	NRSA02J-3R3X	MG RESISTOR	3.3Ω	1/10W J
R0321	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3020	NRSA02J-3R3X	MG RESISTOR	3.3Ω	1/10W J
R0322	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R3021	NRSA63D-102X	MG RESISTOR	1kΩ	1/16W D
R0325	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	R3022	NRSA63D-332X	MG RESISTOR	3.3kΩ	1/16W D
R0326	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3023	NRSA63D-332X	MG RESISTOR	3.3kΩ	1/16W D
R0327	NRSA63J-181X	MG RESISTOR	180Ω	1/16W J	R3024	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R0328	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R3028	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R0329	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R3029	NRSA63D-392X	MG RESISTOR	3.9kΩ	1/16W D
R0331	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3030	NRSA63D-102X	MG RESISTOR	1kΩ	1/16W D
R0332	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3031	NRSA63D-151X	MG RESISTOR	150Ω	1/16W D
R0333	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3032	NRSA63J-5R6X	MG RESISTOR	5.6Ω	1/16W J
R0334	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3033	NRSA63J-5R6X	MG RESISTOR	5.6Ω	1/16W J
R0337	NRSA63J-271X	MG RESISTOR	270Ω	1/16W J	R3034	NRSA63J-5R6X	MG RESISTOR	5.6Ω	1/16W J
R0338	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J	R3036	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R0340	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	R3037	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R0341	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R3038	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J
R0501	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3040	NRSA63J-201X	MG RESISTOR	200Ω	1/16W J
R0502	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3041	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R0504	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3042	NRSA63J-201X	MG RESISTOR	200Ω	1/16W J
R0506	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3043	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R0507	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3044	NRSA63J-821X	MG RESISTOR	820Ω	1/16W J
R0508	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3045	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R0516	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3047	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R0517	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3048	NRSA63J-821X	MG RESISTOR	820Ω	1/16W J
R0520	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3053	NRSA63J-272X	MG RESISTOR	2.7kΩ	1/16W J
R0522	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3054	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0523	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3056	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R0524	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3063	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R0525	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3064	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R0527	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3065	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R1001	NRSA63J-274X	MG RESISTOR	270kΩ	1/16W J	R3066	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R1002	NRSA63D-101X	MG RESISTOR	100Ω	1/16W D	R3069	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1003	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R3070	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1004	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	R3071	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1005	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R3072	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1006	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3089	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1007	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3090	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1010	NRSA63J-183X	MG RESISTOR	18kΩ	1/16W J	R3091	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1011	NQL093K-R10X	P COIL	0.1uH	K	R3092	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1012	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J	R3093	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1013	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J	R3094	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1014	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3095	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1017	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3096	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1018	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	R3097	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1019	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3098	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1021	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R3099	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1101	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	R3100	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1102	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3101	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1104	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	R3102	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1105	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J	R3103	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1106	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J	R3104	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1107	NRSA63J-331X	MG RESISTOR	330Ω	1/16W J	R3105	NRSA63J-510X	MG RESISTOR	51Ω	1/16W J
R1113	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J	R3106	NRS144J-0R0X	MG RESISTOR	0Ω	1/4W J
R1201	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	R3122	NRSA63J-220X	MG RESISTOR	22Ω	1/16W J
R1203	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3126	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1204	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	R3131	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1205	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J	R3132	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1206	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	R3151	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1207	NRSA63J-331X	MG RESISTOR	330Ω	1/16W J	R3152	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1213	NRSA63J-330X	MG RESISTOR	33Ω	1/16W J	R3153	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1301	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	R3155	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1303	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R3157	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1304	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	R3159	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1305	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J	R3160	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1306	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	R3161	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1307	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J	R3163	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R7099	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9005	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R7100	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R9006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7101	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		R9007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R7106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R9008	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R7107	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R9101	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7108	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R9102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R7109	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R9103	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D	
R7110	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9104	NRSA63D-223X	MG RESISTOR	22kΩ 1/16W D	
R7111	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9105	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R7112	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R9107	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R7117	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9108	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R7118	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9109	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R7119	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R9201	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R9202	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R7123	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9204	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D	
R7132	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R9205	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R7134	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		R9206	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7135	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		R9207	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R7136	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R9208	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R7137	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R9209	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	
R7140	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R9210	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7143	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA1001	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
R7144	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		RA1002	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
R7145	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		RA1003	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
R7146	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		RA3002	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
R7148	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		RA3004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
R7149	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		RA3013	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4	
R7150	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		RA3014	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4	
R7151	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		RA3015	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4	
R7152	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		RA3016	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4	
R7153	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		RA3018	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7158	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		RA3020	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7159	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA3022	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		RA3023	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7215	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		RA3024	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7216	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA3025	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		RA3026	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7404	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA3028	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7501	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		RA3030	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7510	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		RA3032	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7511	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		RA3502	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7514	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		RA3506	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7515	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		RA3508	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7518	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		RA3512	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7553	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA3516	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7556	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		RA3518	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7557	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		RA3521	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7558	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA3523	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7559	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		RA3526	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7560	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		RA3530	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7561	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		RA3531	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7565	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA3536	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7566	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		RA3540	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7567	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		RA3542	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7568	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		RA3545	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	
R7576	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		RA3547	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	
R7588	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		RA4007	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
R7590	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		RA4008	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
R7599	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		RA4009	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
R7602	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		RA4010	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
R7603	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		RA4011	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
R7692	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		RA4012	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
R7701	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		RA6515	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4	
R7702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		RA7007	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
R7703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		RB2001	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
R7704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		RB2002	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
R7705	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		RB2003	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	
R7706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J						
R7707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L0101	NQL092K-2R2X	P COIL	2.2uH K	
R7708	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J		L0102	NQL092K-1R0X	P COIL	1uH K	
R7709	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L0201	NQL092K-2R2X	P COIL	2.2uH K	
R7710	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L0202	NQL092K-1R0X	P COIL	1uH K	
R7711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L0301	NQL092K-2R2X	P COIL	2.2uH K	
R7712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L0302	NQL092K-1R0X	P COIL	1uH K	
R7713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L0401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R7714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L1001	NQR0489-002X	FERRITE BEADS		
R7715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L1002	NQR0489-002X	FERRITE BEADS		
R7716	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L1003	NQL092K-1R5X	P COIL	1.5uH K	
R7717	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L1004	NQR0489-002X	FERRITE BEADS		
R7718	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L1005	NQR0489-002X	FERRITE BEADS		
R7719	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J		L1006	NQR0489-002X	FERRITE BEADS		
R7720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		L1008	NQL79GM-220X	COIL	22uH M	
R9001	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L1010	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		L1011	NQL79GM-470X	COIL	47uH M	
R9003	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D		L1101	NQL092K-6R8X	P COIL	6.8uH K	
R9004	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D		L1102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
L1103	NQL092K-1R0X	P COIL	1uH K		L7510	NQL092K-4R7X	P COIL	4.7uH K	
L1201	NQL092K-6R8X	P COIL	6.8uH K		L7511	NQL092K-4R7X	P COIL	4.7uH K	
L1203	NQL092K-1R0X	P COIL	1uH K		L7512	NQL914M-4R7X	COIL	4.7uH M	
L1301	NQL092K-6R8X	P COIL	6.8uH K		L7513	NQL914M-4R7X	COIL	4.7uH M	
L1303	NQL092K-1R0X	P COIL	1uH K		L7514	NQL092K-4R7X	P COIL	4.7uH K	
L1401	NQL092K-6R8X	P COIL	6.8uH K		L9001	NQL71EM-150X	COIL	15uH M	
L1403	NQL092K-1R0X	P COIL	1uH K		L9101	NQL71EM-150X	COIL	15uH M	
L1501	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		L9201	NQL71EM-150X	COIL	15uH M	
L3001	NQR0489-002X	FERRITE BEADS			CN001	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
L3005	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		CN002	QGF0508F1-30X	CONNECTOR	FFC/FPC (1-30)	
L3006	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		K1001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		K1004	NQR0489-002X	FERRITE BEADS		
L3008	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		K3003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L3009	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		K3006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L3010	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		K7002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L3012	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		K7501	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
L3501	NQR0413-003X	FERRITE BEADS			K7502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L4001	NQR0413-003X	FERRITE BEADS			K7503	NQR0389-003X	FERRITE BEADS		
L4002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		LC0102	NQR0483-005X	EMI FILTER	100uF 25V Z	
L4003	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		LC0519	NQR0416-001X	EMI FILTER	240pF 16V M	
L6501	NQR0351-001X	FERRITE BEADS			LC0524	NQR0415-005X	EMI FILTER	0.1uF 25V M	
L6502	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		LC0525	NQR0470-003X	EMI FILTER	100pF 50V +50%-20%	
L6508	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4		LC6501	NQR0479-001X	EMI FILTER		
L6509	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4		LC7501	NQR0313-007X	EMI FILTER	1000pF 50V M	
L6510	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4		LC7502	NQR0431-001X	EMI FILTER	0.22uF 50V Z	
L7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		SL7001	NAX0613-001X	C RESONATOR		
L7002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X1001	NAX0642-001X	CRYSTAL		
L7003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X3001	NAX0635-001X	CXO		
L7004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X3003	NAX0668-001X	CXO		
L7005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X4001	NAX0669-001X	C RESONATOR		
L7006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X7501	NAX0618-001X	CRYSTAL		
L7501	NQL092K-4R7X	P COIL	4.7uH K		RECEIVER P.W. BOARD ASS'Y (LCA10476-51A) (SFL-0F301A)				
L7502	NQL092K-4R7X	P COIL	4.7uH K						
L7503	NQL092K-4R7X	P COIL	4.7uH K		REFER TO PARTS LIST IN PAGE 3-19 FOR THIS P.W. BOARD.				
L7504	NQL092K-4R7X	P COIL	4.7uH K						
L7505	NQL092K-4R7X	P COIL	4.7uH K						
L7506	NQL914M-4R7X	COIL	4.7uH M						
L7507	NQL092K-4R7X	P COIL	4.7uH K						
L7508	NQL092K-4R7X	P COIL	4.7uH K						
L7509	NQL092K-4R7X	P COIL	4.7uH K						

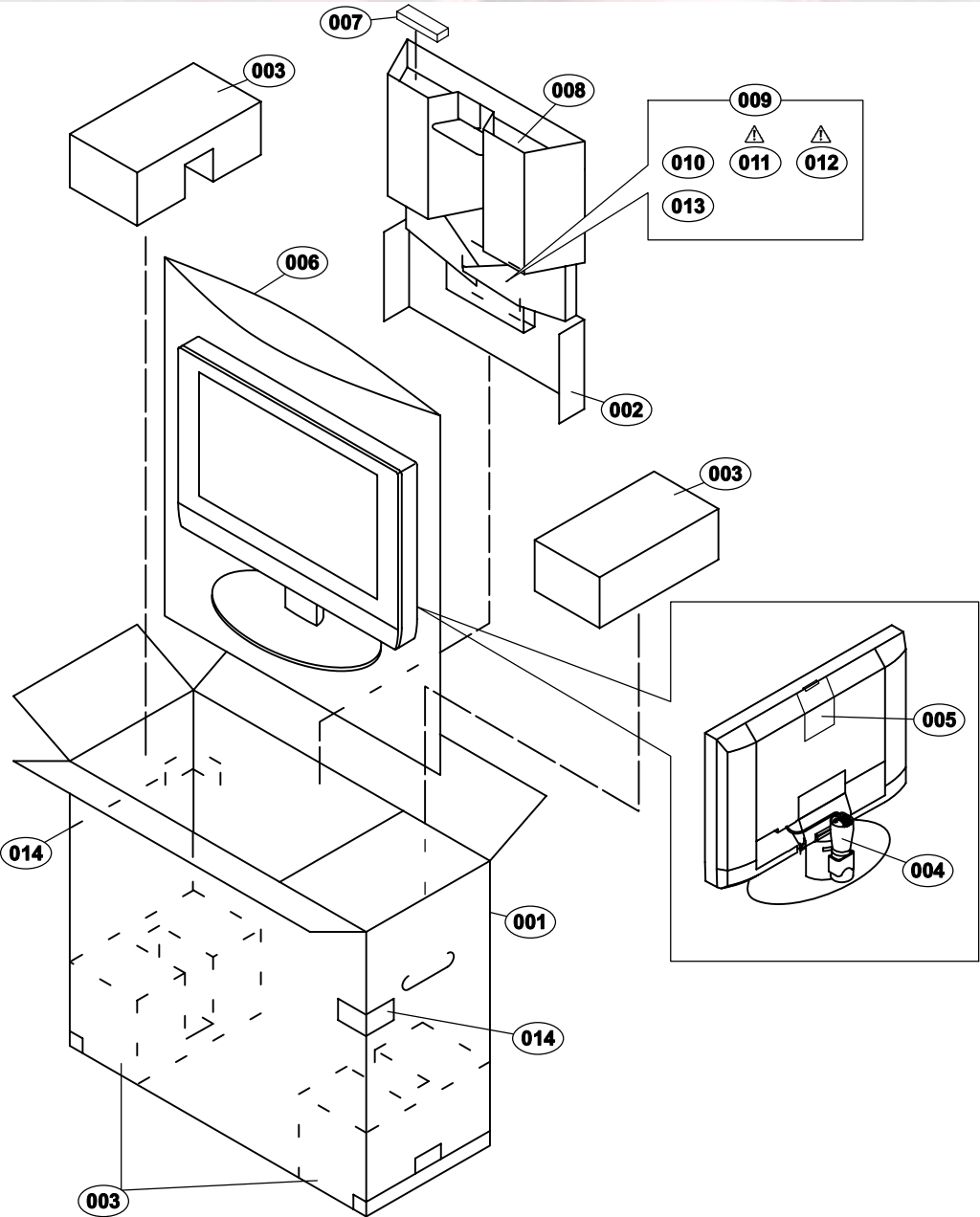
REMOTE CONTROL UNIT PARTS LIST (RM-C1830-1C)

△ Ref No.	Part No.	Part Name	Description	Local
	2AA070311	BATTERY COVER		

PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
001	LC10006-048A	PACKING CASE		
002	LC21688-001A	CUSHION		
003	LC11983-001B	CUSHION ASSY	4pcs in 1set	
004	QPA01002305	POLY BAG	10cm x 23cm	
005	LCT1516-002A	CAUTION SHEET		LT-Z32SX4B,LT-Z32SX4B/A
006	GG30097-004A-H	POLY BAG		
007	RM-C1830-1C	REMOCON UNIT	Inc.POLY BAG	
008	QAM0690-001	D CABLE	Inc.POLY BAG	
009	QPA02503505P	POLY BAG	25cm x 35cm	
010	-----	WARRANTY CARD	BT-56012-1	LT-Z32SX4B/A
△ 011	LCT1732-002A	INST BOOK	English	
△ 012	LCT1733-002A	INST BOOK	French/Russian/Traditional Chinese/Arabic/Persian	LT-Z32SX4B,LT-Z32SX4B/S,LT-Z32SX4S/S
013	-----	BATTERY	R6P/AA(x2)	
014	GG20025-001A-H	CORNER LABEL	2pcs in 1set	

PACKING



JVC

SCHEMATIC DIAGRAMS

WIDE LCD PANEL TELEVISION

YA209

LT-Z32SX4B, LT-Z32SX4B/A, LT-Z32SX4B/s, LT-Z32SX4S/s

CD-ROM No.SML200501

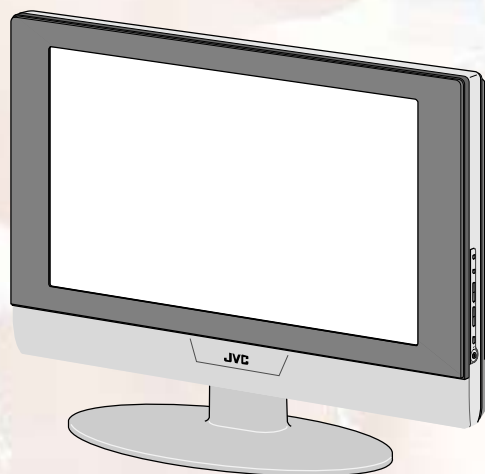
BASIC CHASSIS

FL

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

**CINEMA
SURROUND**

BBE



LT-Z32SX4B, LT-Z32SX4B/A, LT-Z32SX4B/s, LT-Z32SX4S/s

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the $\triangle$ 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 20k Ω /V
- (4)Oscilloscope sweeping time : H $\Rightarrow$ 20 μ s / div
: V $\Rightarrow$ 5ms / div
: Others $\Rightarrow$ 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 : R209 $\rightarrow$ R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

- No unit : [Ω]
- K : [k Ω]
- M : [M Ω]

● 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 : Uninflamable 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 : [μ F]

● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]: Capacitance value [μ F]/withstand voltage[V]

● Type

- No indication : Ceramic 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 : [μ H]
- Others : As specified

(4)Power Supply

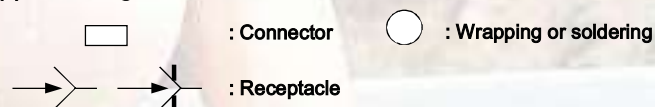


* Respective voltage values are indicated

(5)Test point



(6)Connecting method



(7)Ground symbol

- $\perp$: LIVE side ground
- $\nmid$: ISOLATED(NEUTRAL) side ground
- $\equiv$: 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 ($\perp$) side GND and the ISOLATED(NEUTRAL) ($\nmid$) 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 with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. 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.

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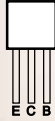
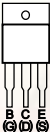
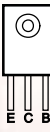
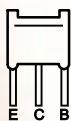
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POWER PWB PATTERN	2-71
VOLTAGE CHARTS	2-75
WAVE FORMS	2-78

USING P.W. BOARD

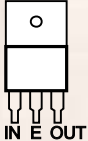
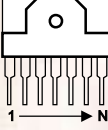
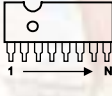
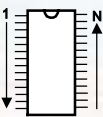
P.W.B ASS'Y name	LT-Z32SX4B	LT-Z32SX4B/A	LT-Z32SX4B/S	LT-Z32SX4S/S
RECEIVER PWB	LCA10476-51A (SFL-0F301A)	←	←	←
ANALOG SIGNAL PWB	LCA90350-15B (SFL-1031A)	←	←	←
DIGITAL SIGNAL PWB	LCA10428-67B (SFL-0D305A)	LCA10428-69B (SFL-0D307A)	LCA10428-68B (SFL-0D306A)	←
CONNECTOR PWB	LCA90353-14A (SFL-4031A)	←	←	←
FRONT CONTROL PWB	LCA90351-18B (SFL-7031A)	←	←	←
FRONT SENSOR PWB	LCA90352-18A (SFL-8031A)	←	←	←
REGULATOR PWB	LCA90349-10B (SFL-9114A)	←	←	←
POWER PWB	LCA90348-10D (SFL-9014A)	←	←	←

SEMICONDUCTOR SHAPES

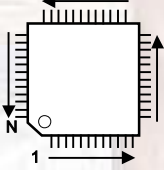
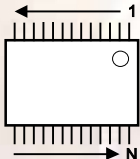
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

IC

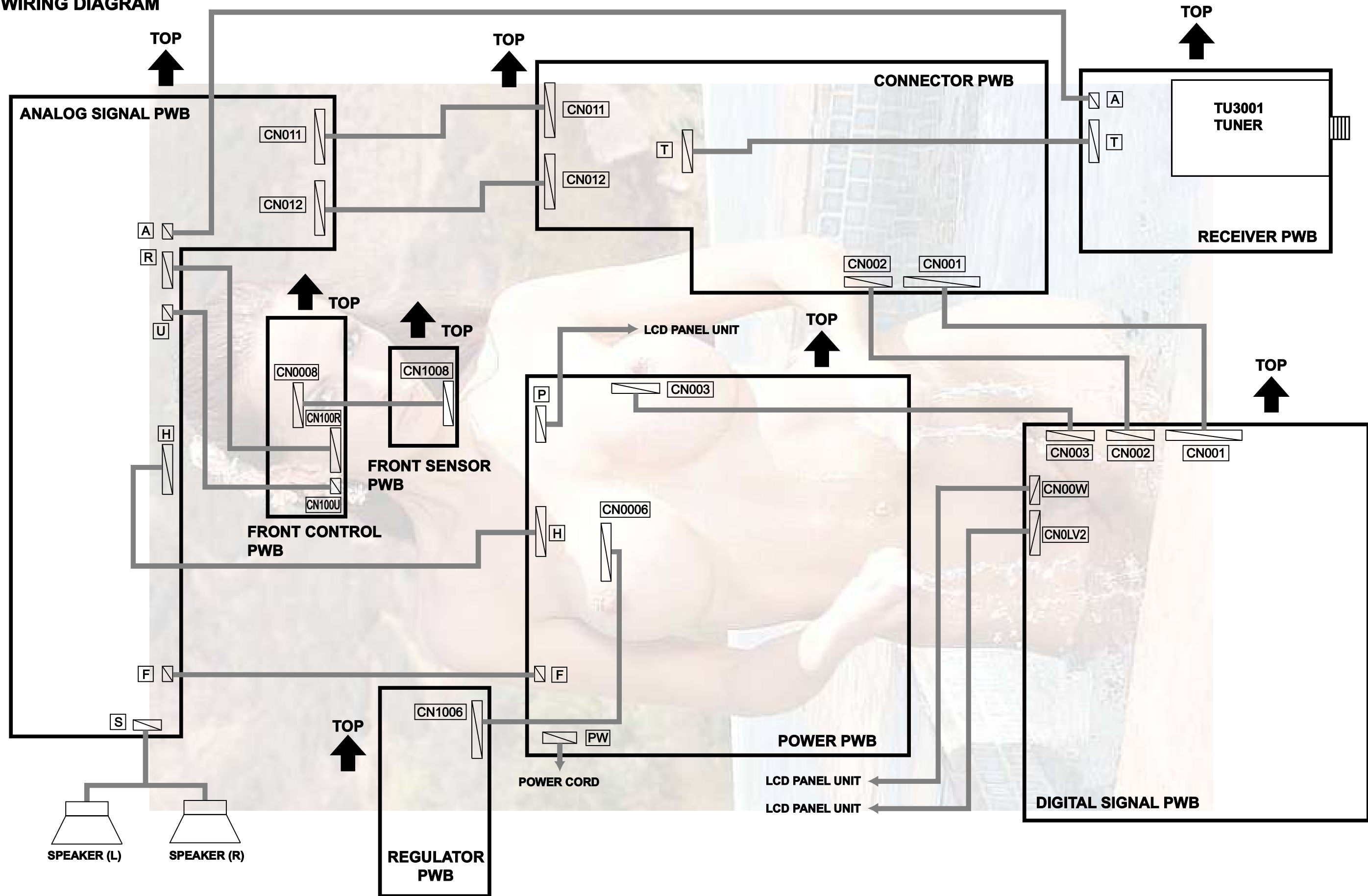
BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

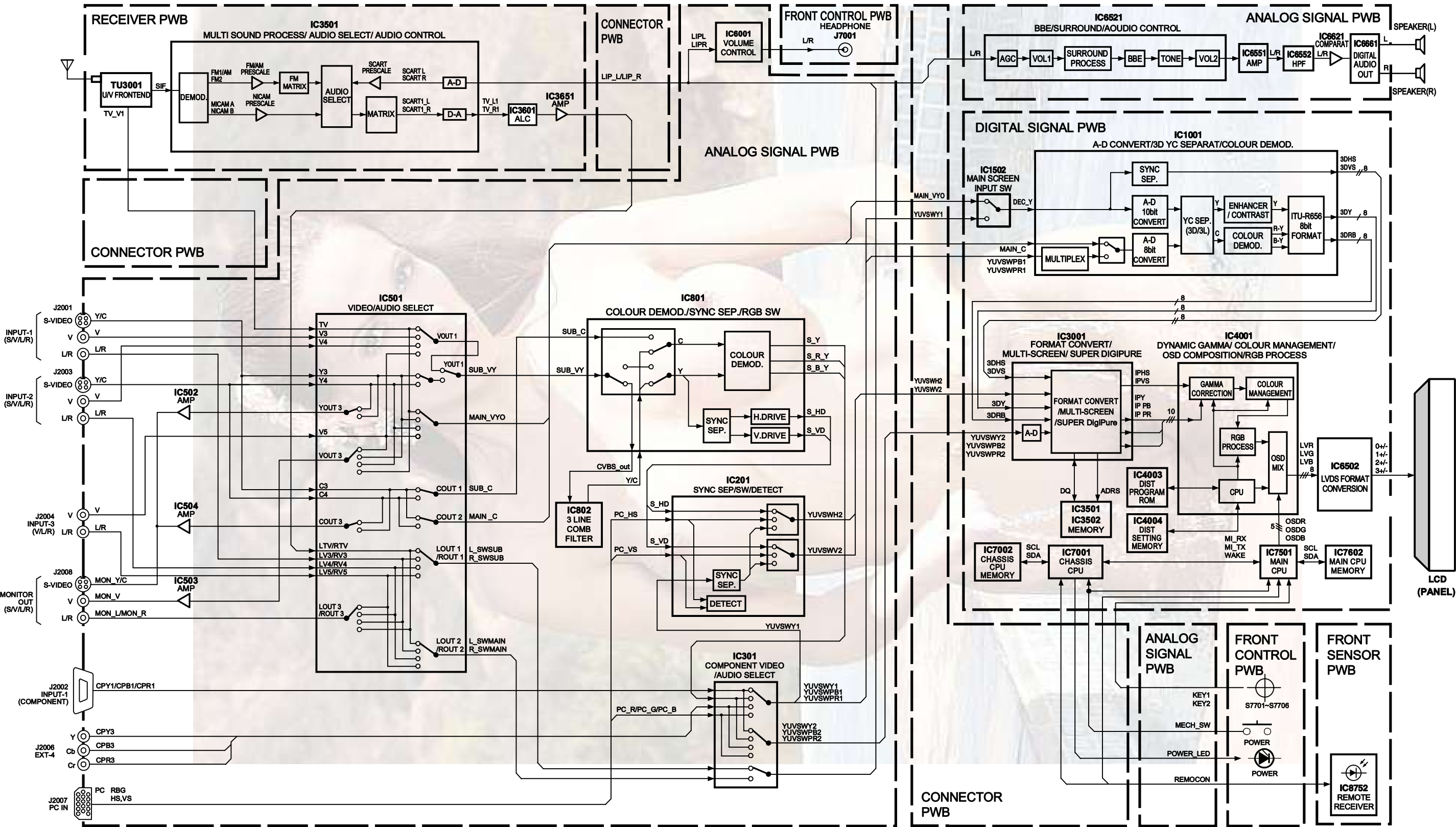
TOP VIEW	
	



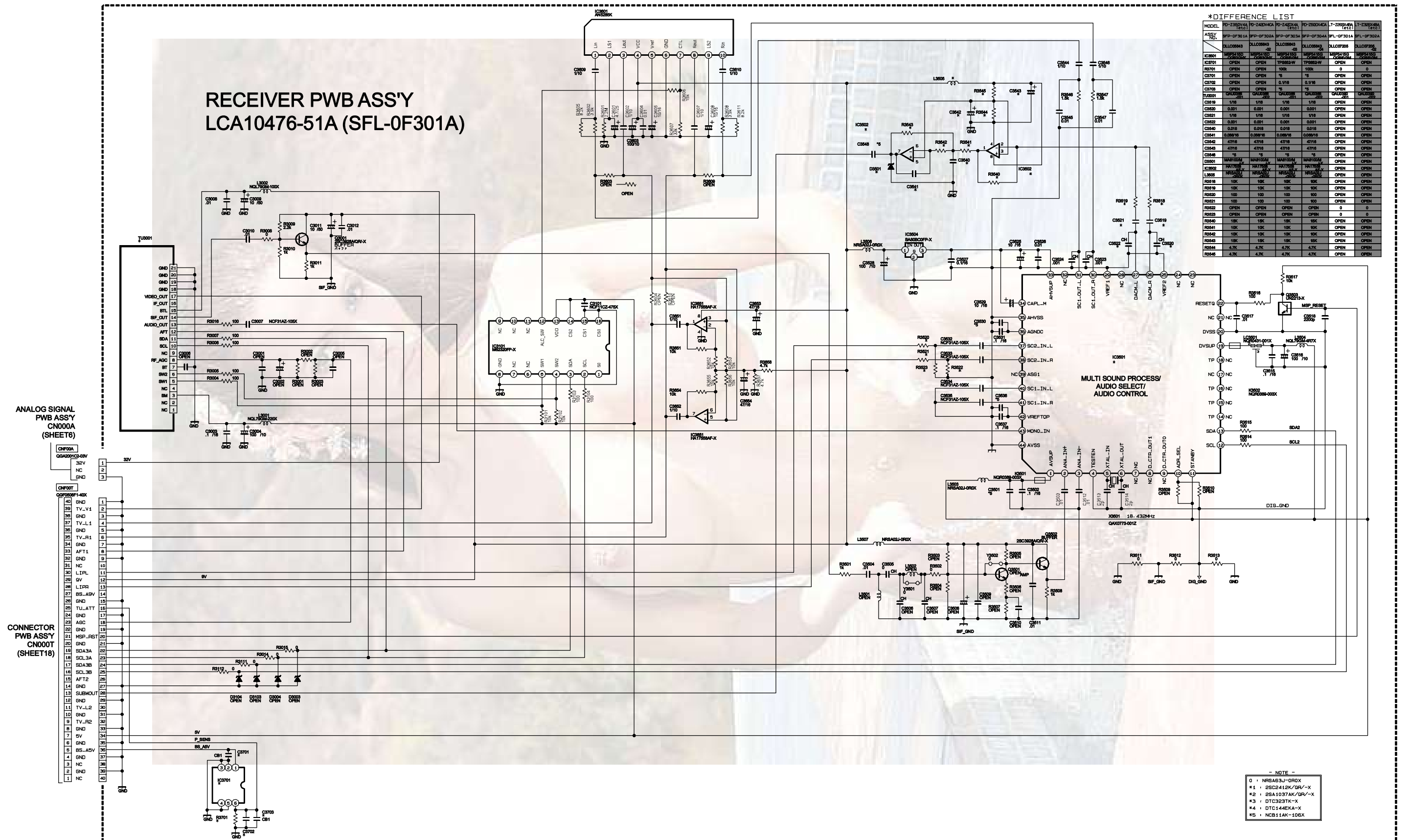
WIRING DIAGRAM

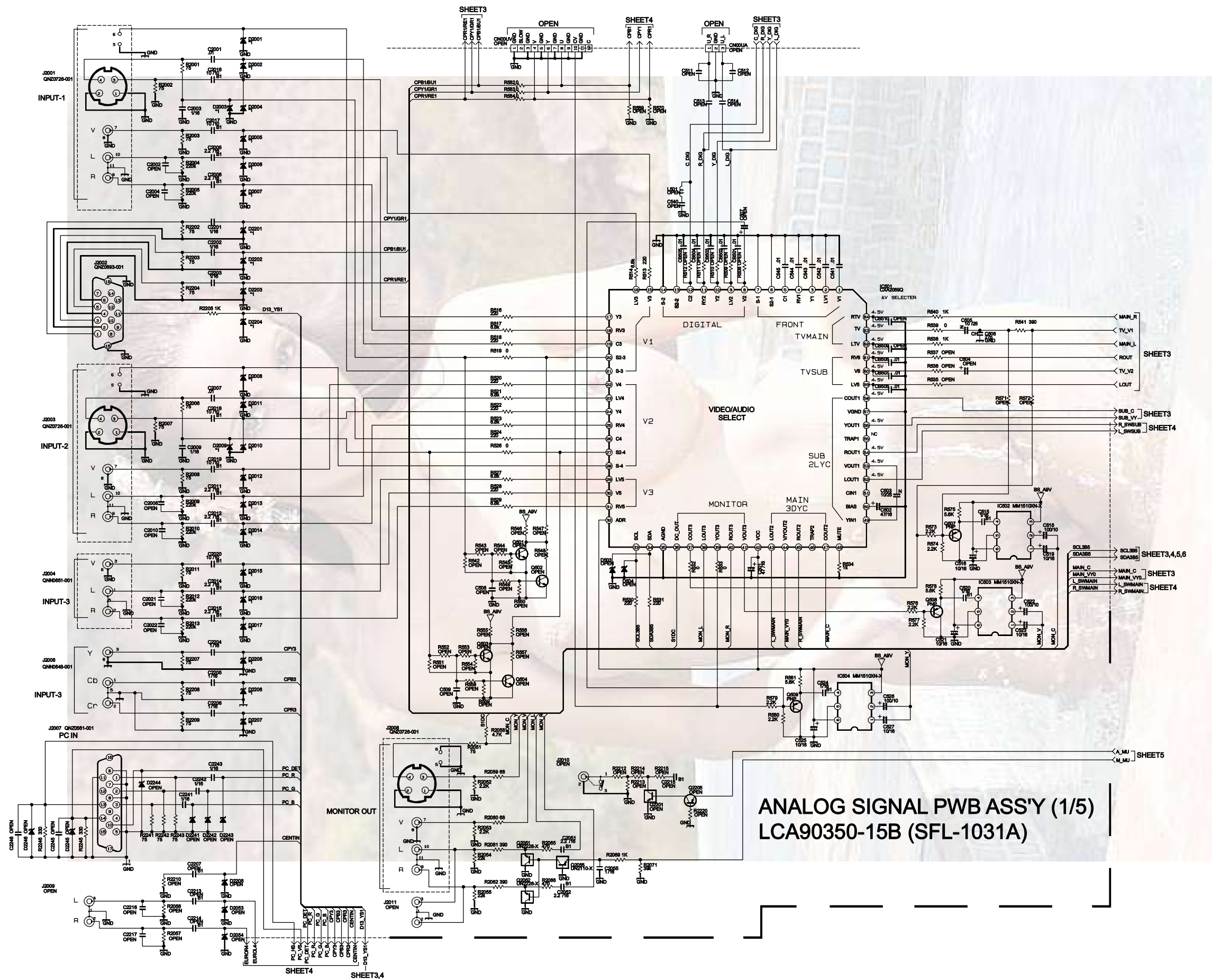


BLOCK DIAGRAM

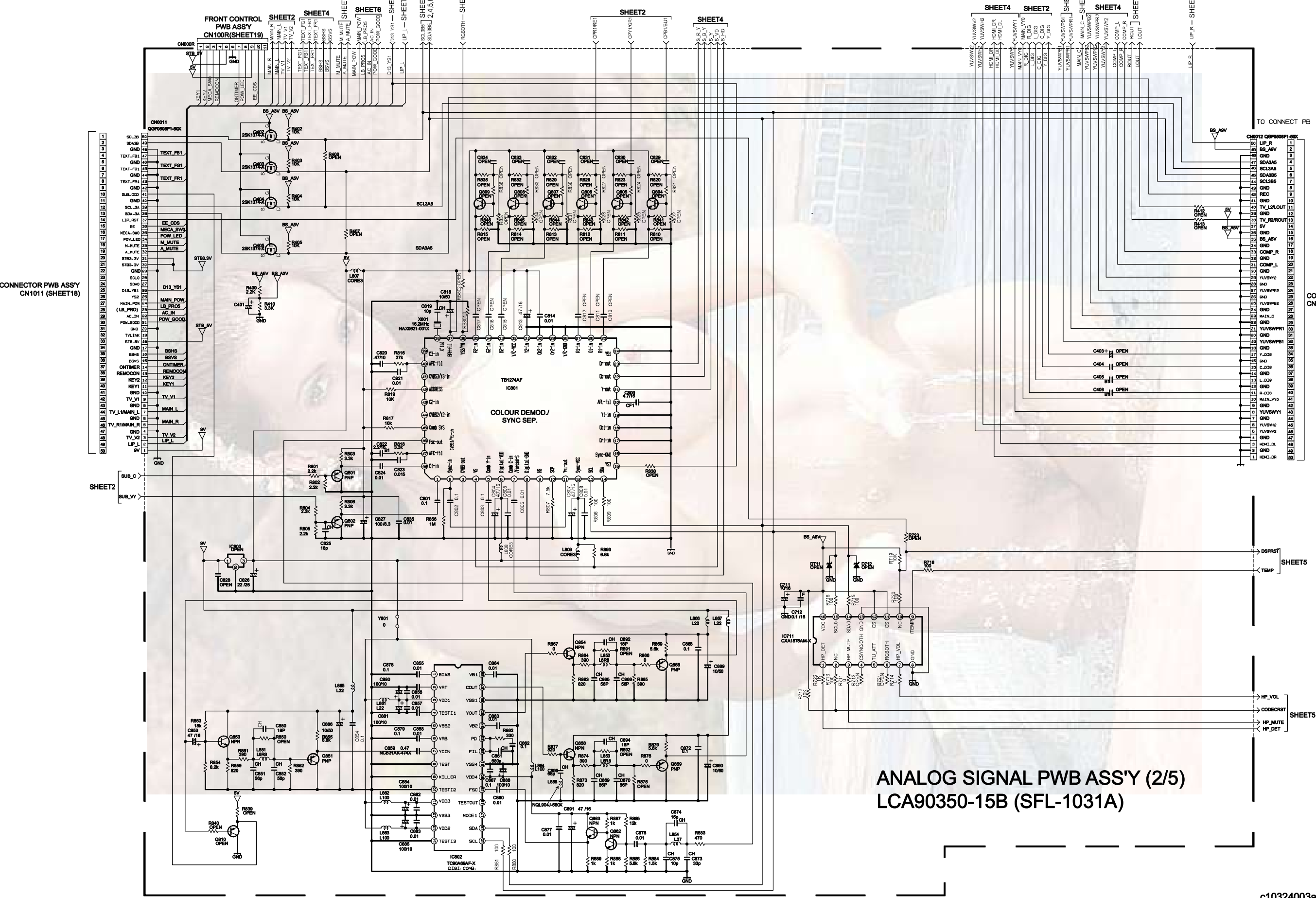


RECEIVER PWB CIRCUIT DIAGRAM SHEET1



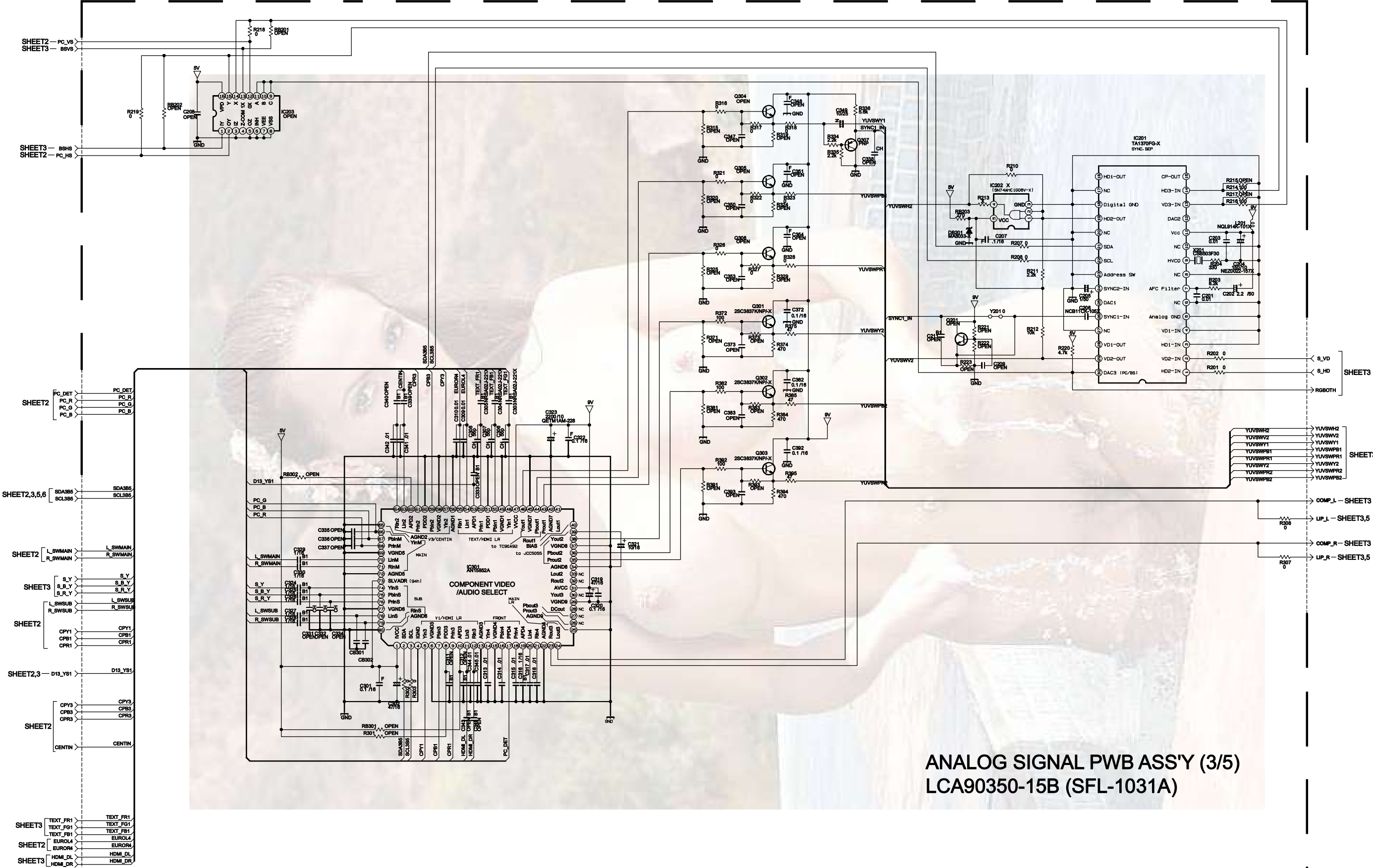


ANALOG SIGNAL CIRCUIT DIAGRAM (2/5) SHEET 3



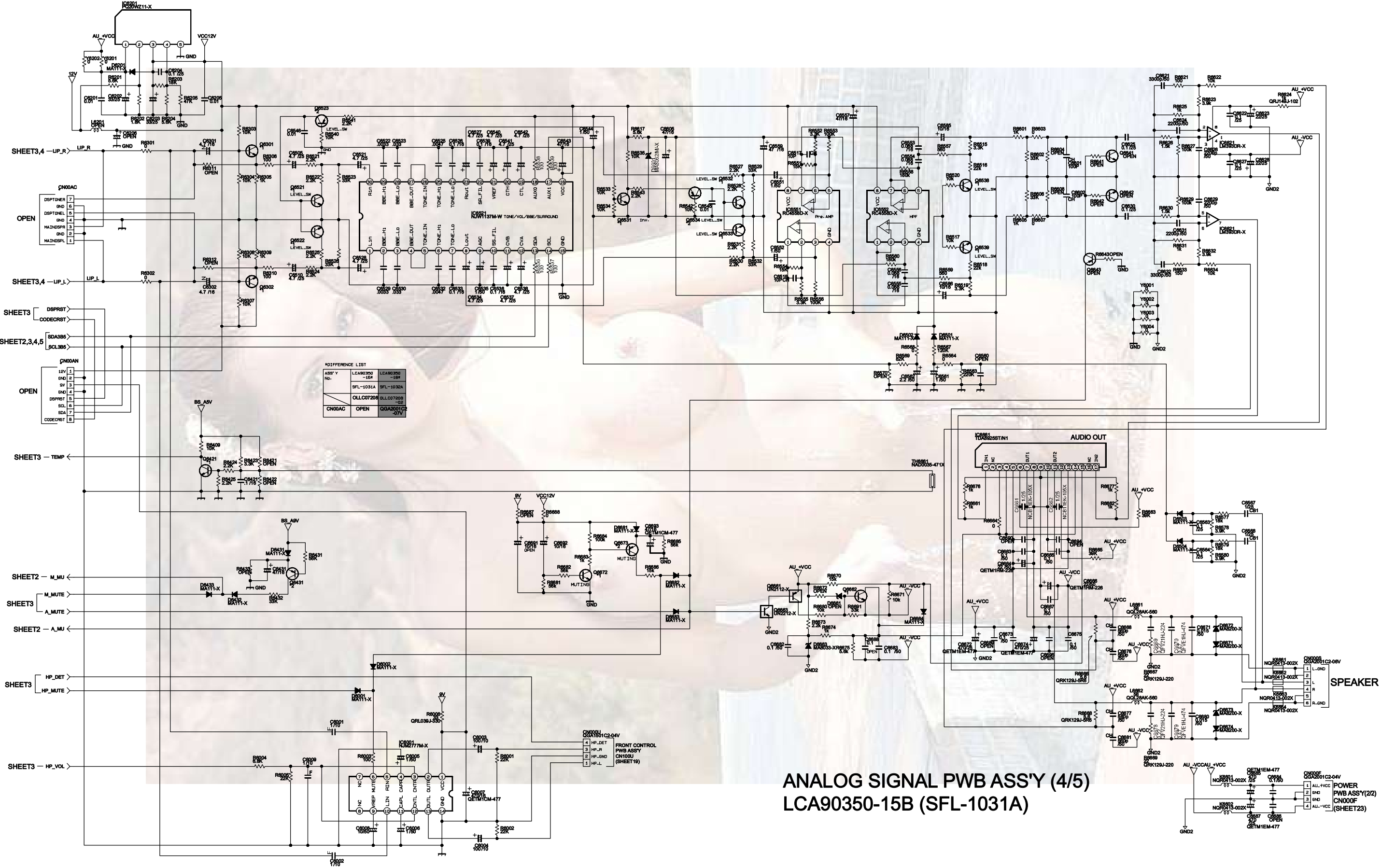
ANALOG SIGNAL PWB ASS'Y (2/5)
LCA90350-15B (SFL-1031A)

ANALOG SIGNAL CIRCUIT DIAGRAM (3/5) SHEET 4

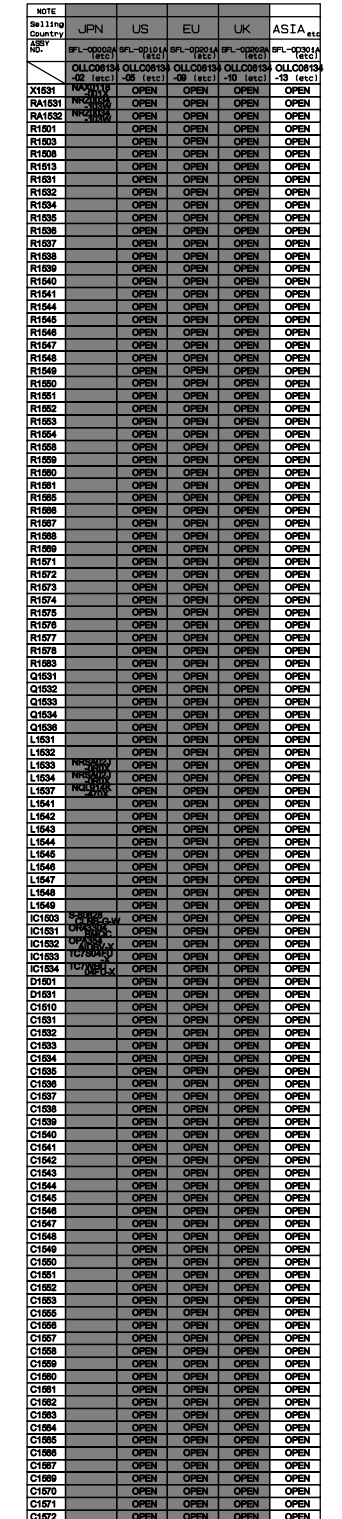


ANALOG SIGNAL PWB ASS'Y (3/5)
LCA90350-15B (SFL-1031A)

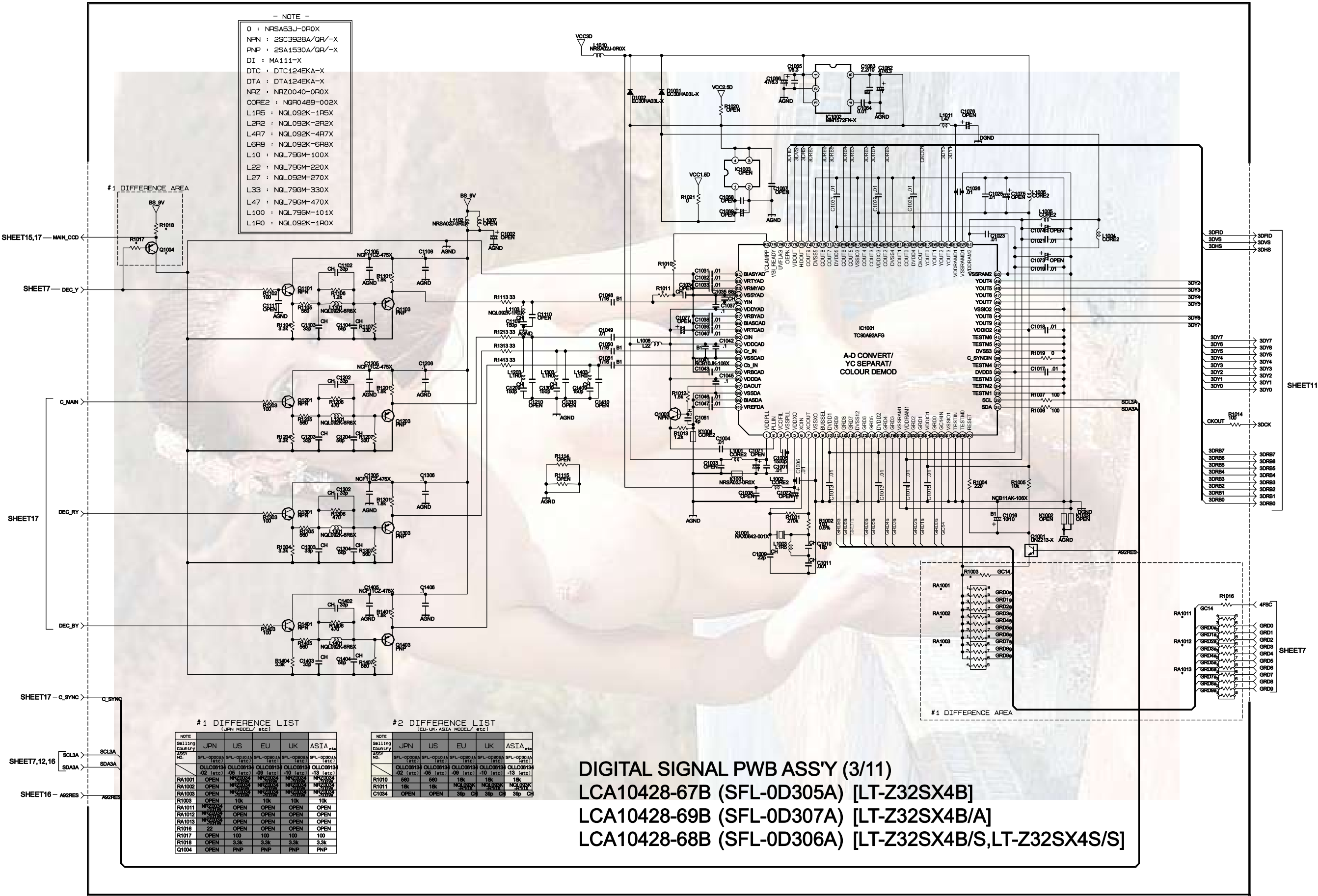
ANALOG SIGNAL CIRCUIT DIAGRAM (4/5) SHEET 5

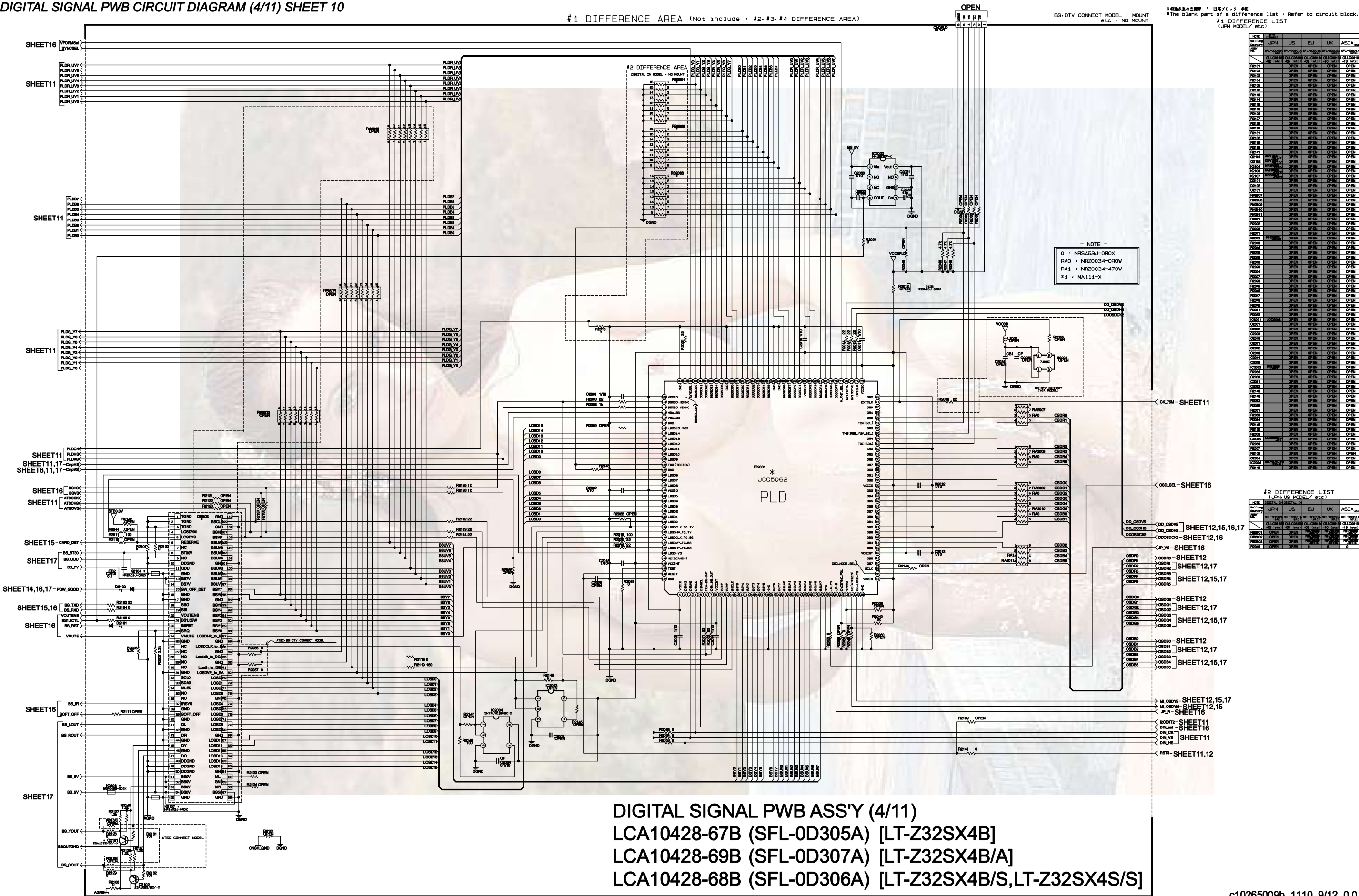


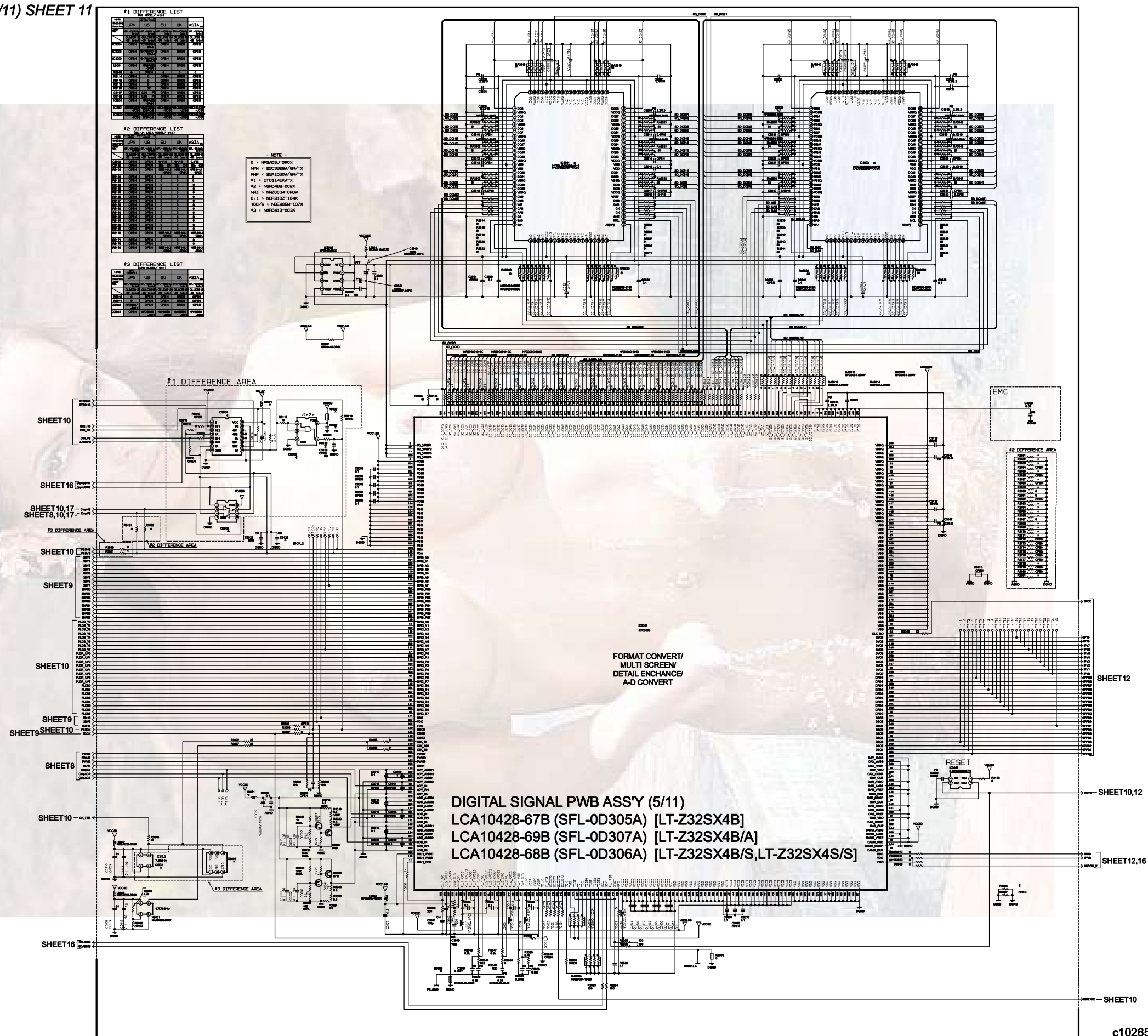
*The blank part of a difference list : Refer to circuit block.
#1 DIFFERENCE LIST
(JPN MODEL/ etc)

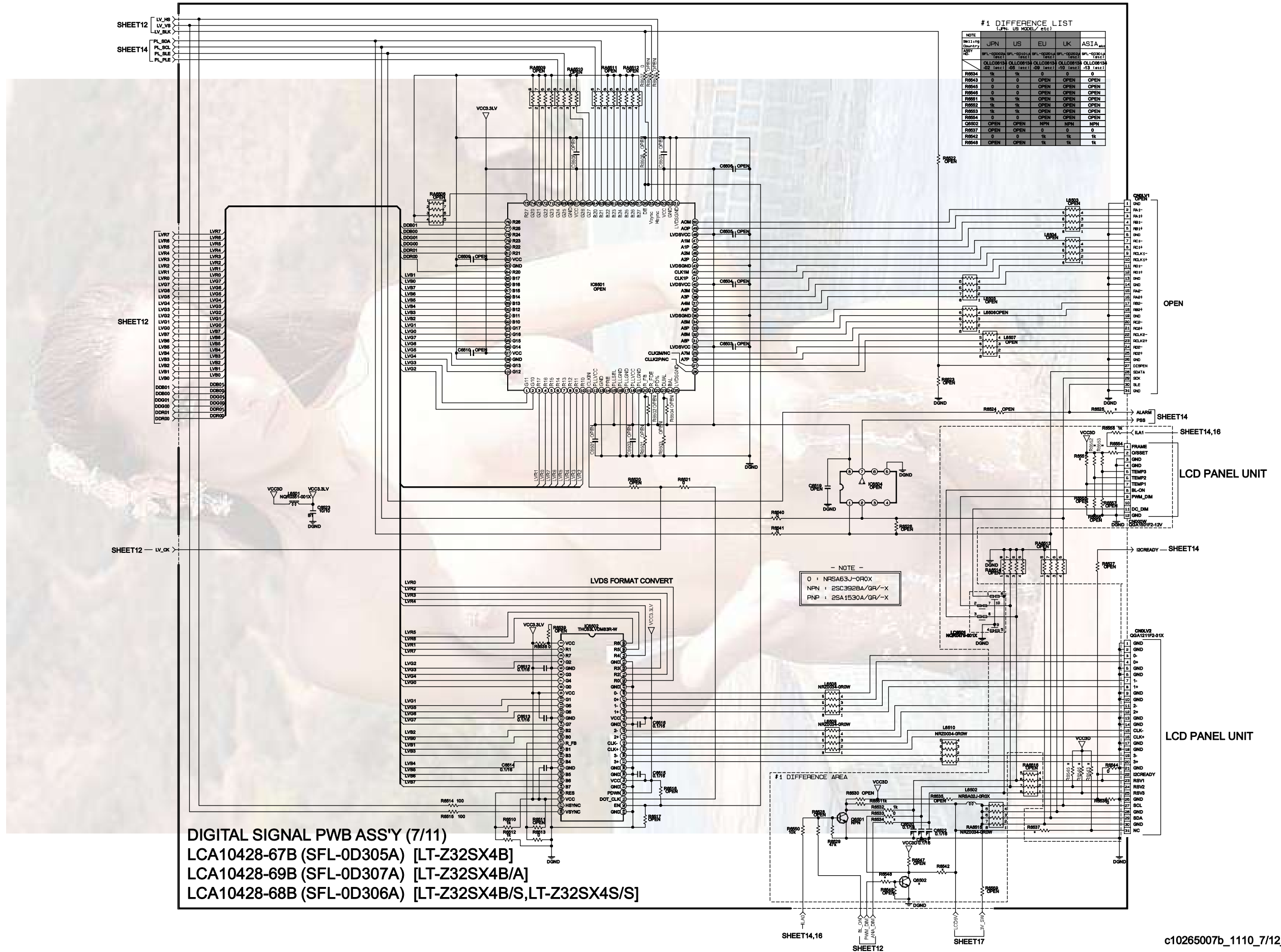


	#2 DIFFERENCE LIST					
	(JFN Model etc)					
NOTE	JPN	US	EU	UK	ASIA _{#10}	
Selling Country						
ASEY No.	SFL-0P002A SFL-0P101A SFL-0C001A SFL-0P002A SFL-0P003A SFL-0P003A					
	OLLCO019 OLLCO019 OLLCO019 OLLCO019 OLLCO019 OLLCO019					
	-02 [etc] -05 [etc] -09 [etc] -10 [etc] -13 [etc]					
L1602	%	OPEN	OPEN	OPEN	OPEN	OPEN
L7507	0.91%	OPEN	OPEN	OPEN	OPEN	OPEN
K1201	N/A	OPEN	OPEN	OPEN	OPEN	OPEN
R1502	OPEN	0	0	0	0	0
R1523	1M	NOP	NOP	NOP	NOP	NOP

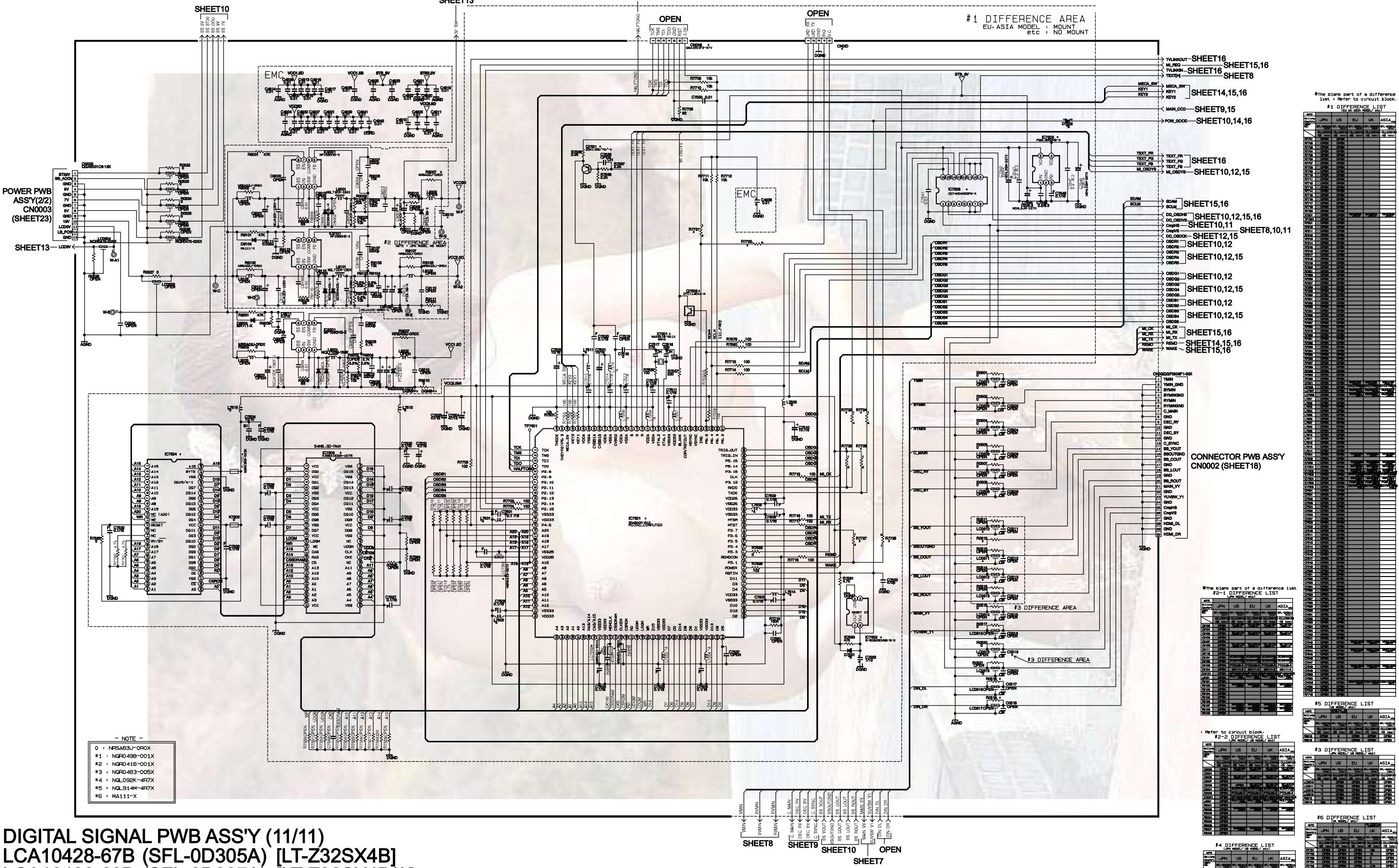




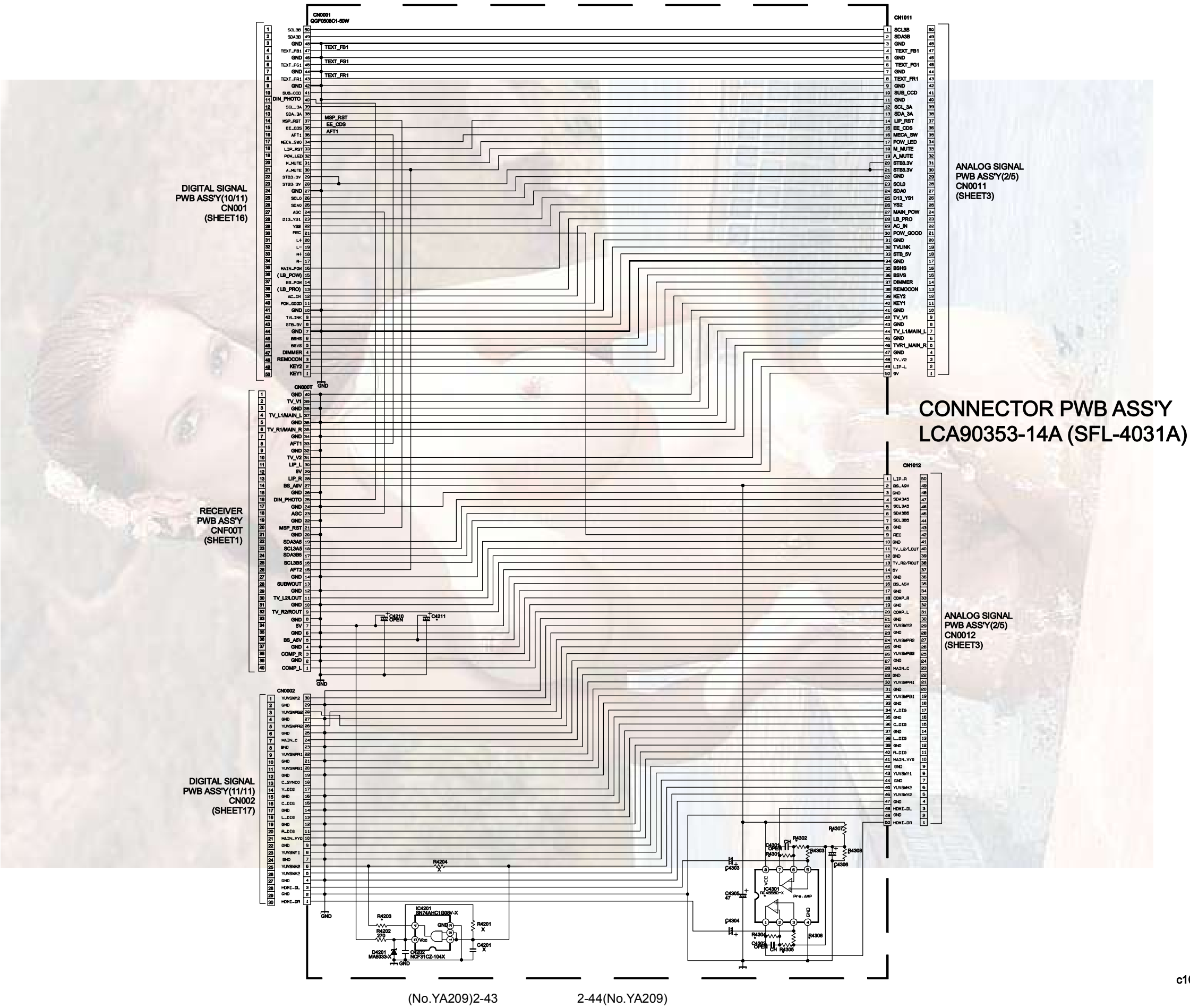




DIGITAL SIGNAL PWB CIRCUIT DIAGRAM (11/11) SHEET 17

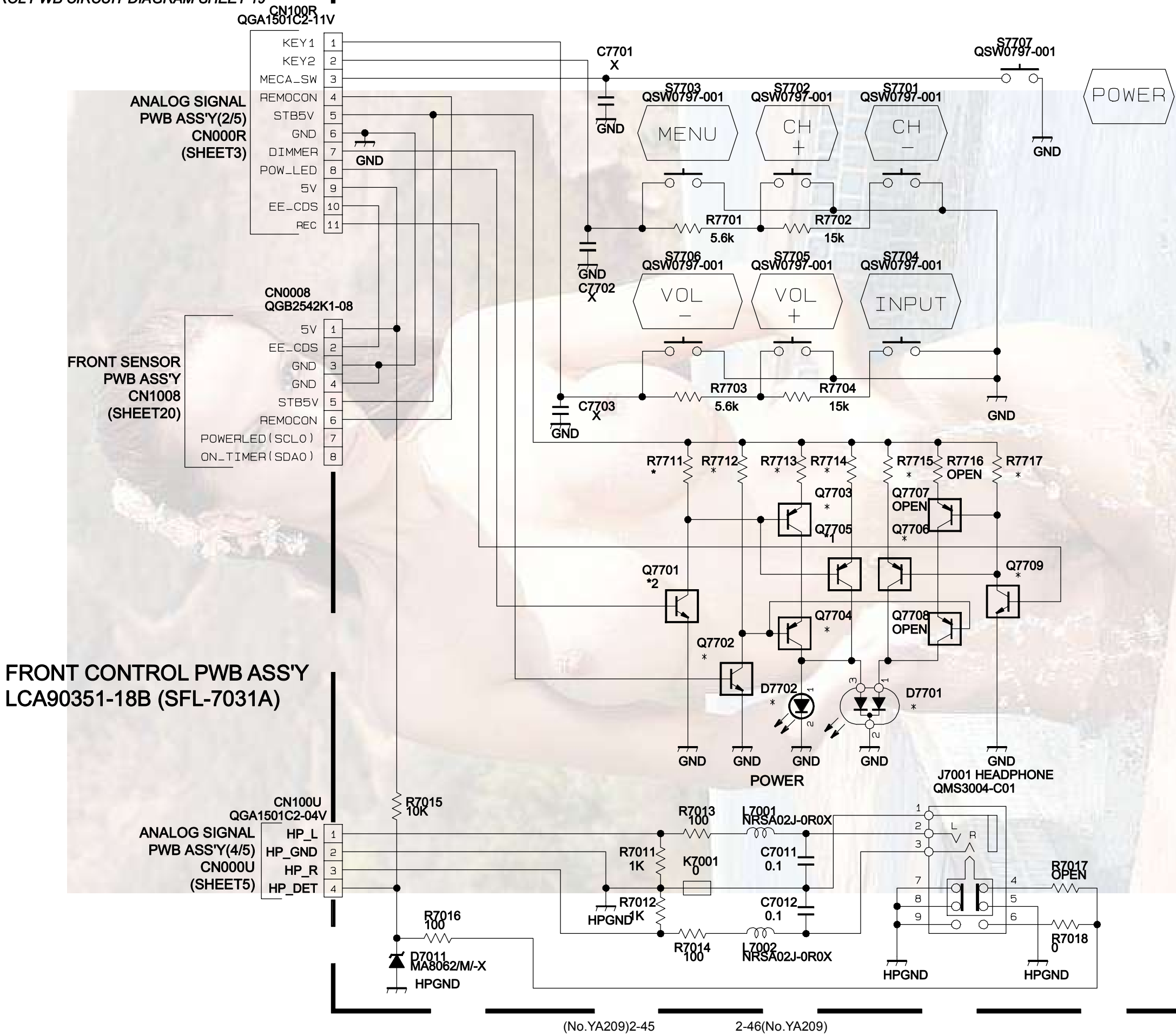


DIGITAL SIGNAL PWB ASS'Y (11/11)
LCA10428-67B (SFL-0D305A) [LT-Z32SX4B]
LCA10428-69B (SFL-0D307A) [LT-Z32SX4B/A]
LCA10428-68B (SFL-0D306A) [LT-Z32SX4B/S,LT-Z32SX4S/S]

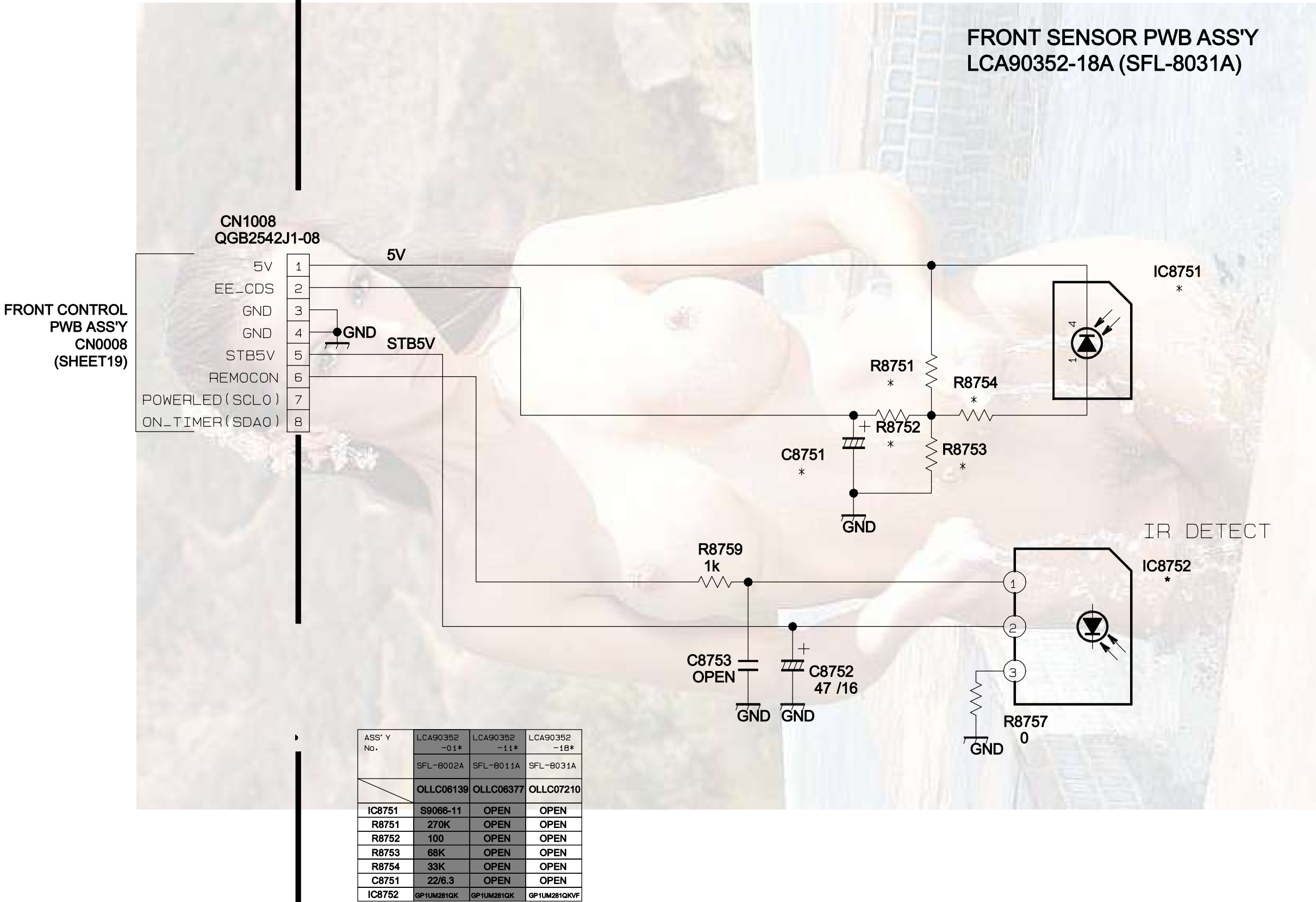


ASS'Y NO.	LGA90303 -13A	LGA90303 -13A	LGA90303 -14A
	SFL-40303A	SFL-40311A	SFL-4031A
	OLL008136	OLL008577	OLL007211
IC4301	OPEN	RC4558D-X	OPEN
RA301	OPEN	4.7K	OPEN
RA302	OPEN	8.2K	OPEN
RA303	OPEN	100K	OPEN
RA304	OPEN	4.7K	OPEN
RA305	OPEN	8.2K	OPEN
RA306	OPEN	100K	OPEN
RA307	OPEN	10K	OPEN
RA308	OPEN	10K	OPEN
CA303	OPEN	10/18	OPEN
CA304	OPEN	10/18	OPEN
CA305	OPEN	47/18	OPEN
CA306	OPEN	47/18	OPEN
RA203	0	0	47
CA211	2200/6.3	2200/6.3	OPEN

FRONT CONTROL PWB CIRCUIT DIAGRAM SHEET 19

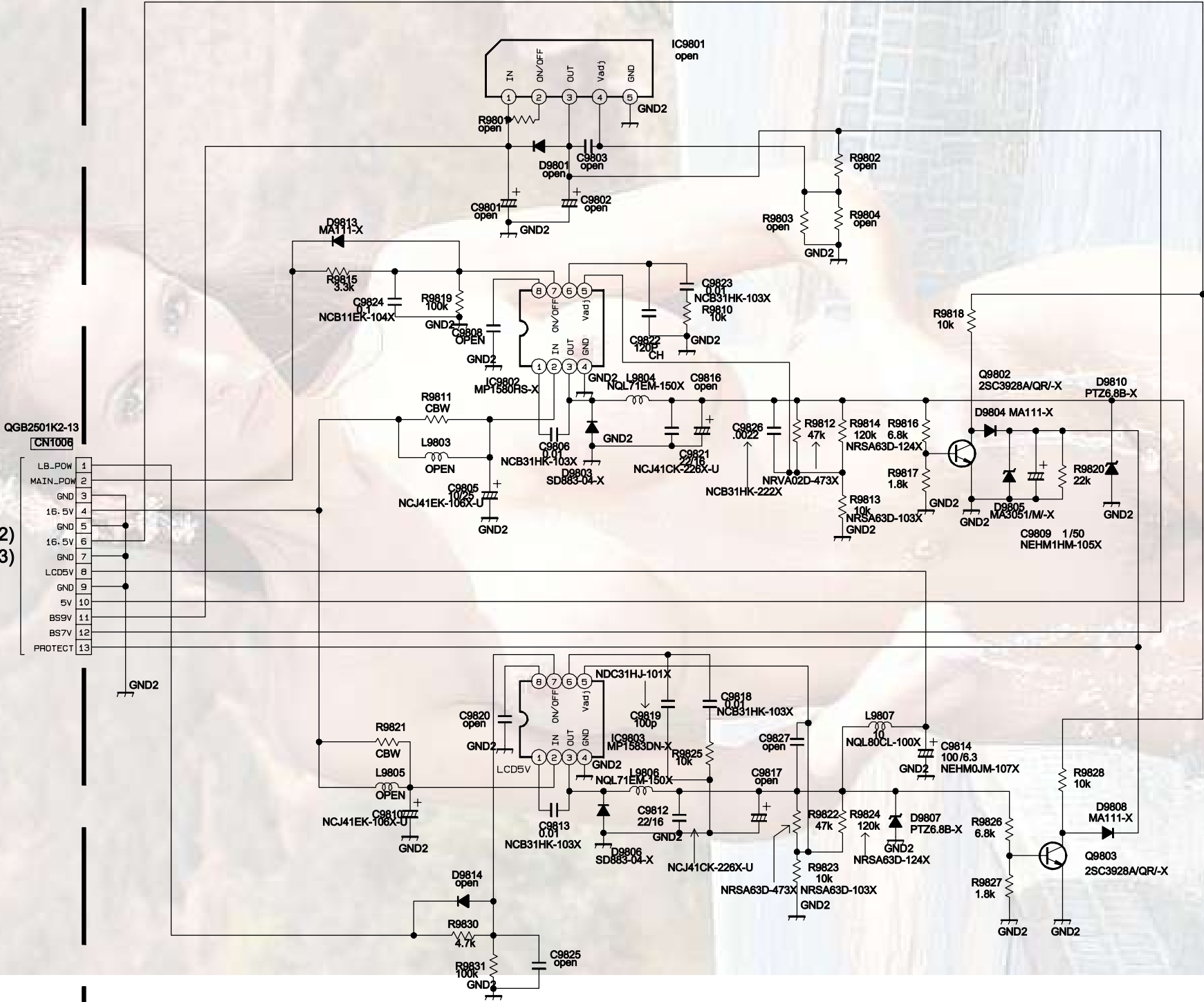


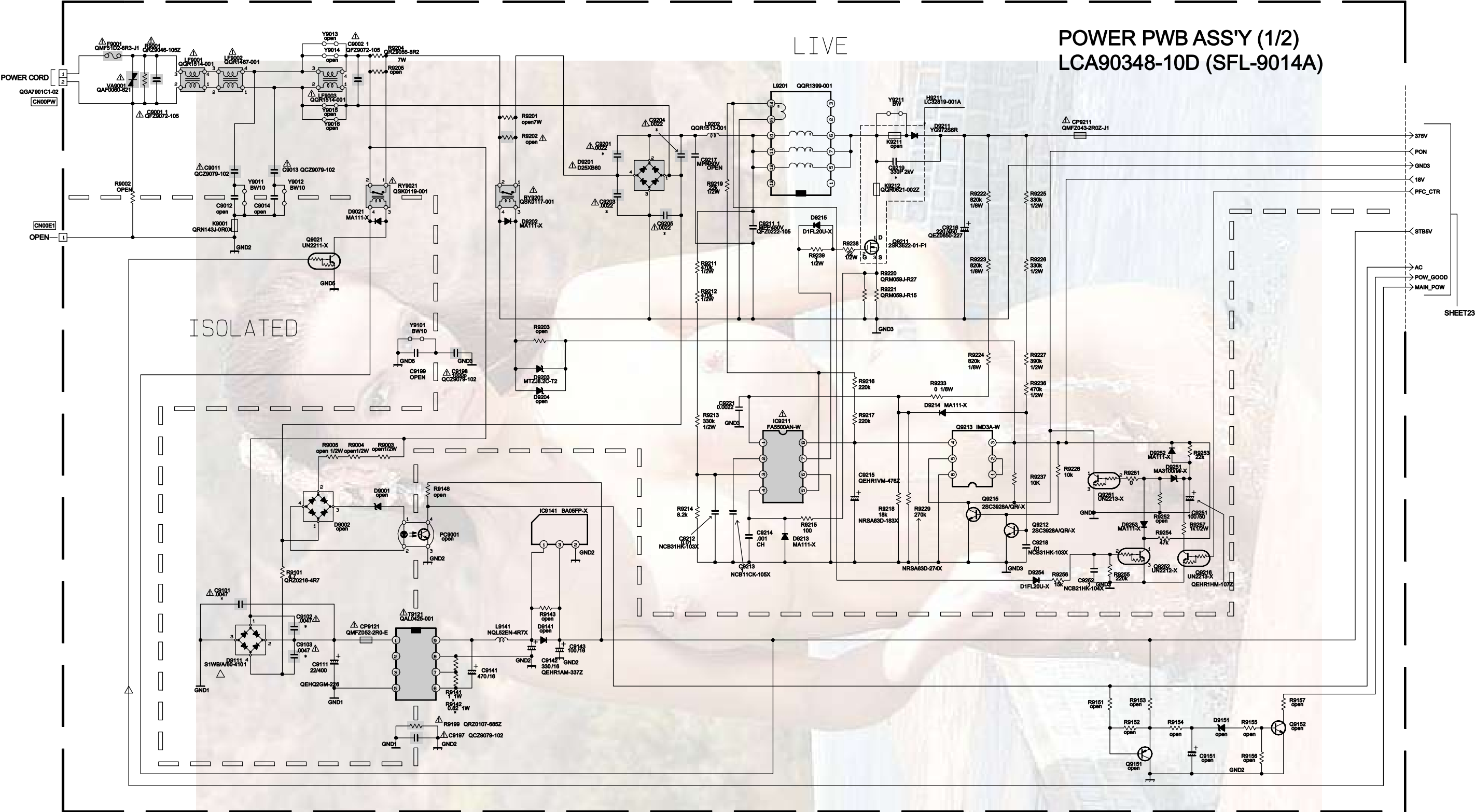
ASS'Y NO.	LCA90351 -01*	LCA90351 -11*	LCA90351 -18*
	SFL-7002A	SFL-7011A	SFL-7031A
	OLLC06137	OLLC06375	OLLC07209
D7701	SML1216W	OPEN	OPEN
D7702	OPEN	HLMFNS30 J00-T16	HLMFNS30 J00-T16
Q7702	OPEN	UN2212-X	OPEN
Q7703	OPEN	UN2110-X	OPEN
Q7704	OPEN	UN2110-X	OPEN
Q7706	UN2110-X	OPEN	OPEN
Q7709	UN2212-X	OPEN	OPEN
R7712	OPEN	10K	OPEN
R7713	OPEN	330	OPEN
R7714	1.5K	2.2K	1.5K
R7715	1.5K	OPEN	OPEN
R7717	10K	OPEN	OPEN
R7711	10K	10K	1.5K



REGULATOR PWB ASS'Y
LCA90349-10B (SFL-9114A)

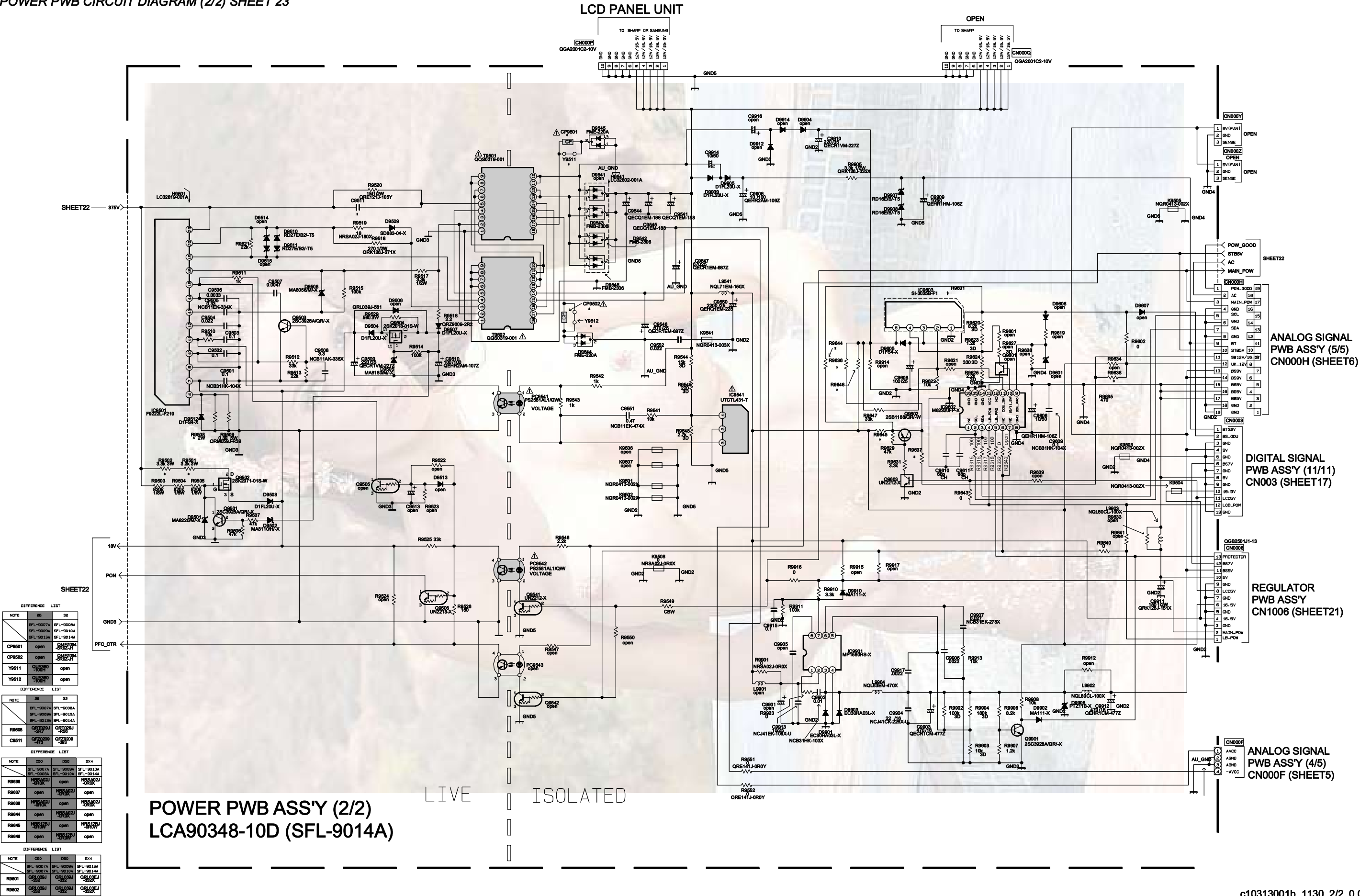
POWER PWB ASS'Y(2/2)
CN0006 (SHEET23)



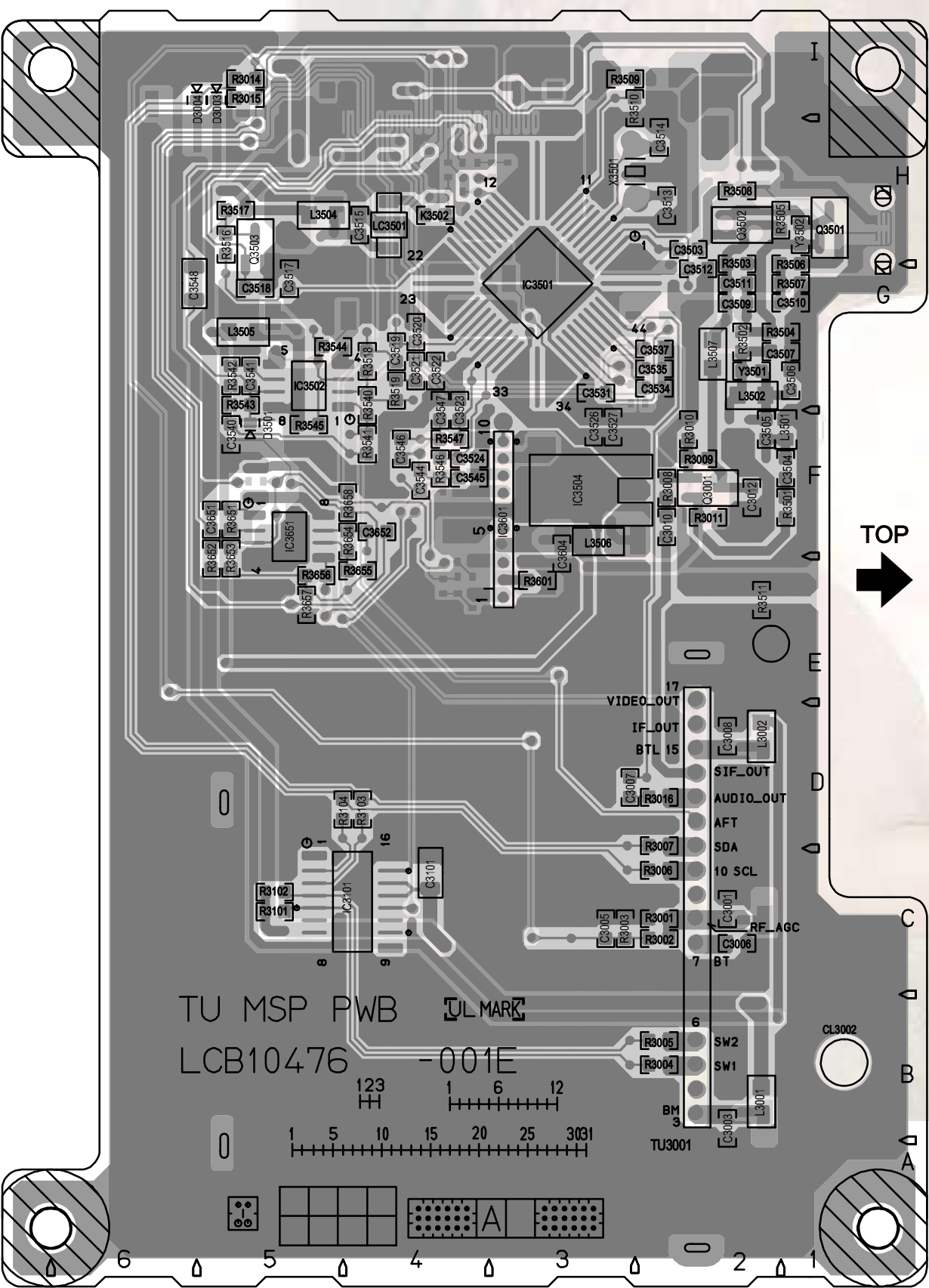


DIFFERENCE LIST			
NOTE	C50	D50	SX4
R9141	QF29072-105	QF29072-105	QF29072-105
R9142	QF29072-105	QF29072-105	QF29072-105
C9101	QF29072-105	QF29072-105	QF29072-105
C9102	QF29072-105	QF29072-105	QF29072-105
C9103	QF29072-105	QF29072-105	QF29072-105

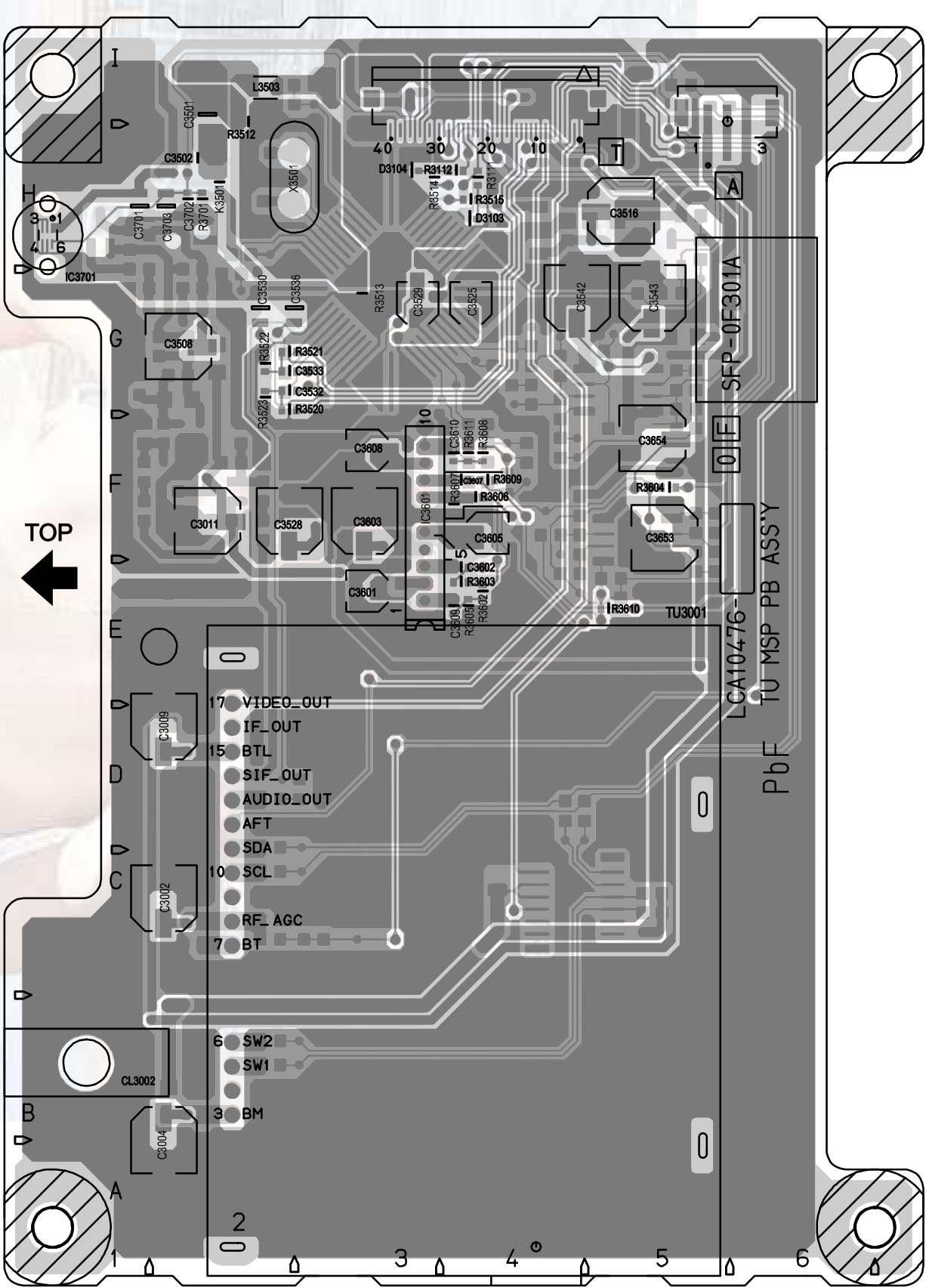
DIFFERENCE LIST			
NOTE	C50	D50	SX4
C9201	QF29072-105	QF29072-105	QF29072-105
C9203	QF29072-105	QF29072-105	QF29072-105
C9204	QF29072-105	QF29072-105	QF29072-105
C9205	QF29072-105	QF29072-105	QF29072-105
C9219	QF29072-105	QF29072-105	QF29072-105



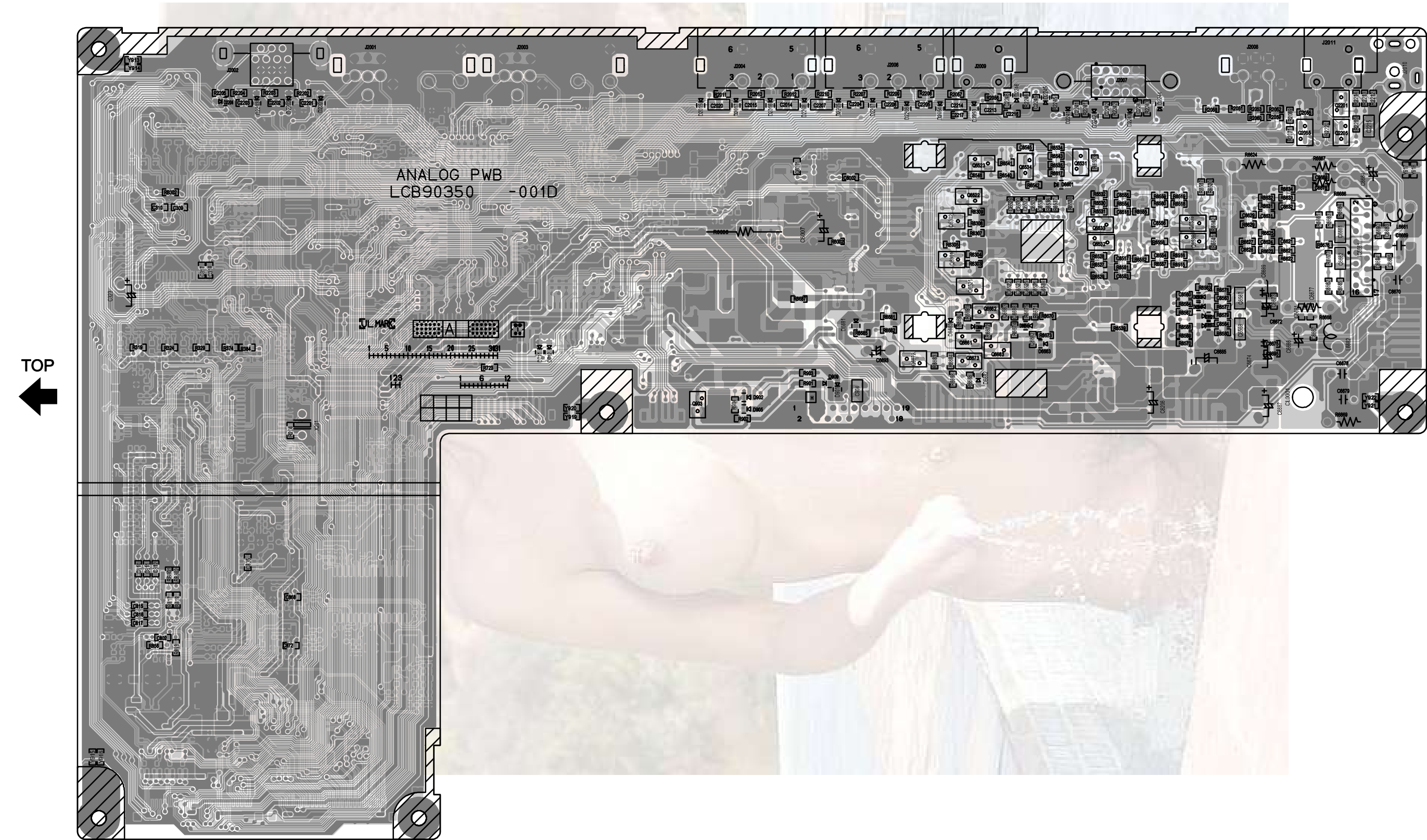
PATTERN DIAGRAMS
RECEIVER PWB PATTERN [SOLDER SIDE]



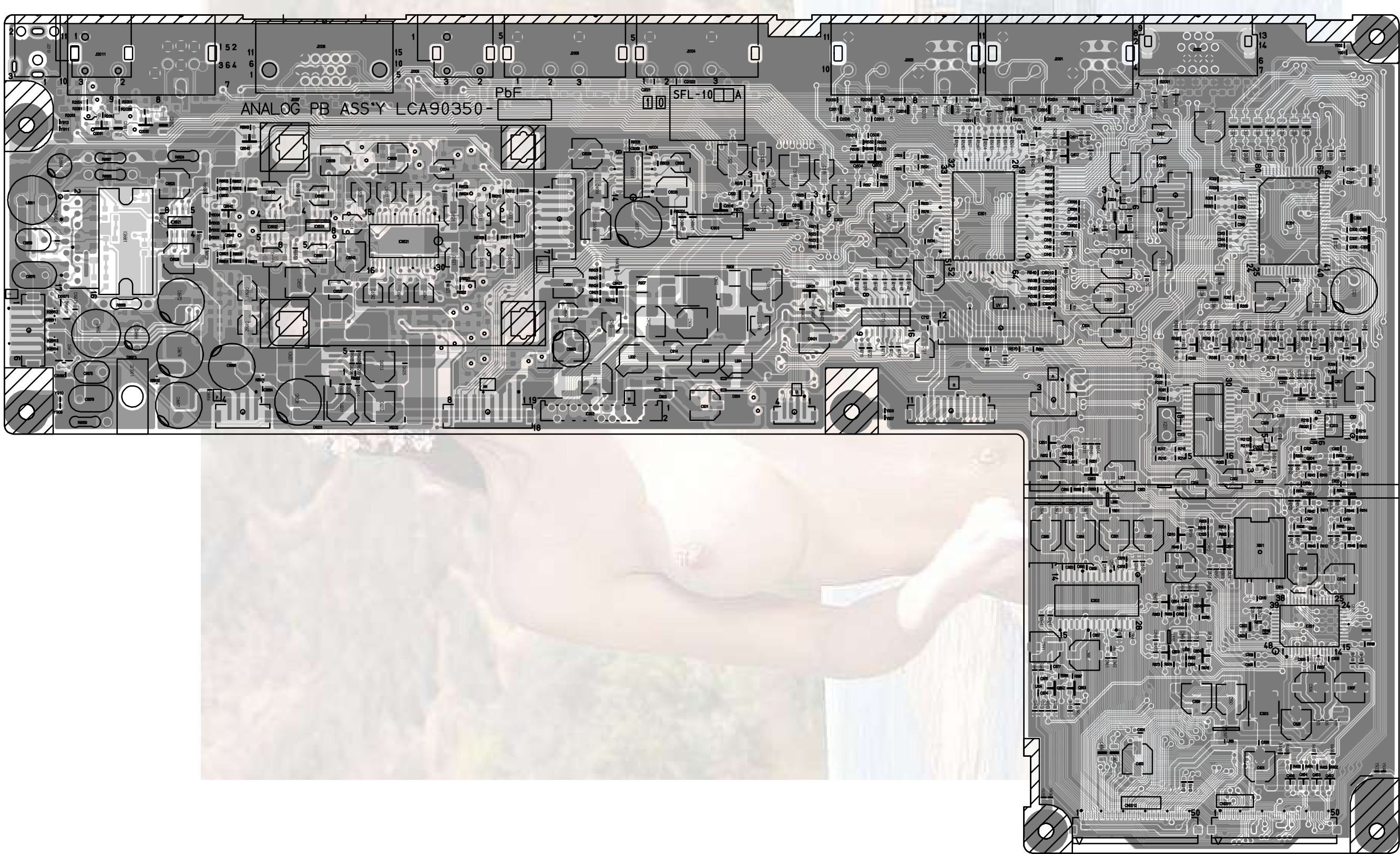
RECEIVER PWB PATTERN[PARTS SIDE]



ANALOG SIGNAL PWB PATTERN [SOLDER SIDE]

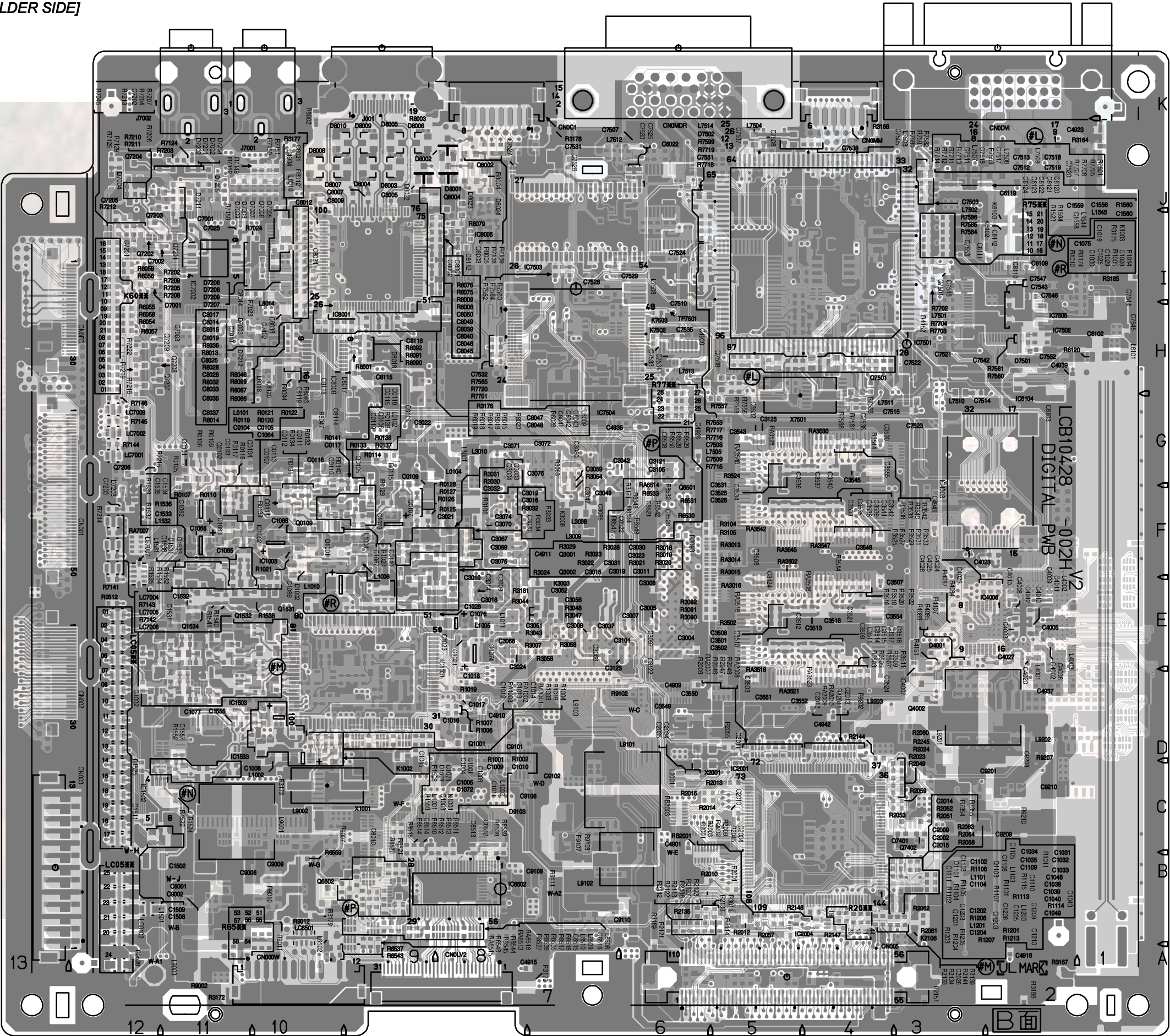


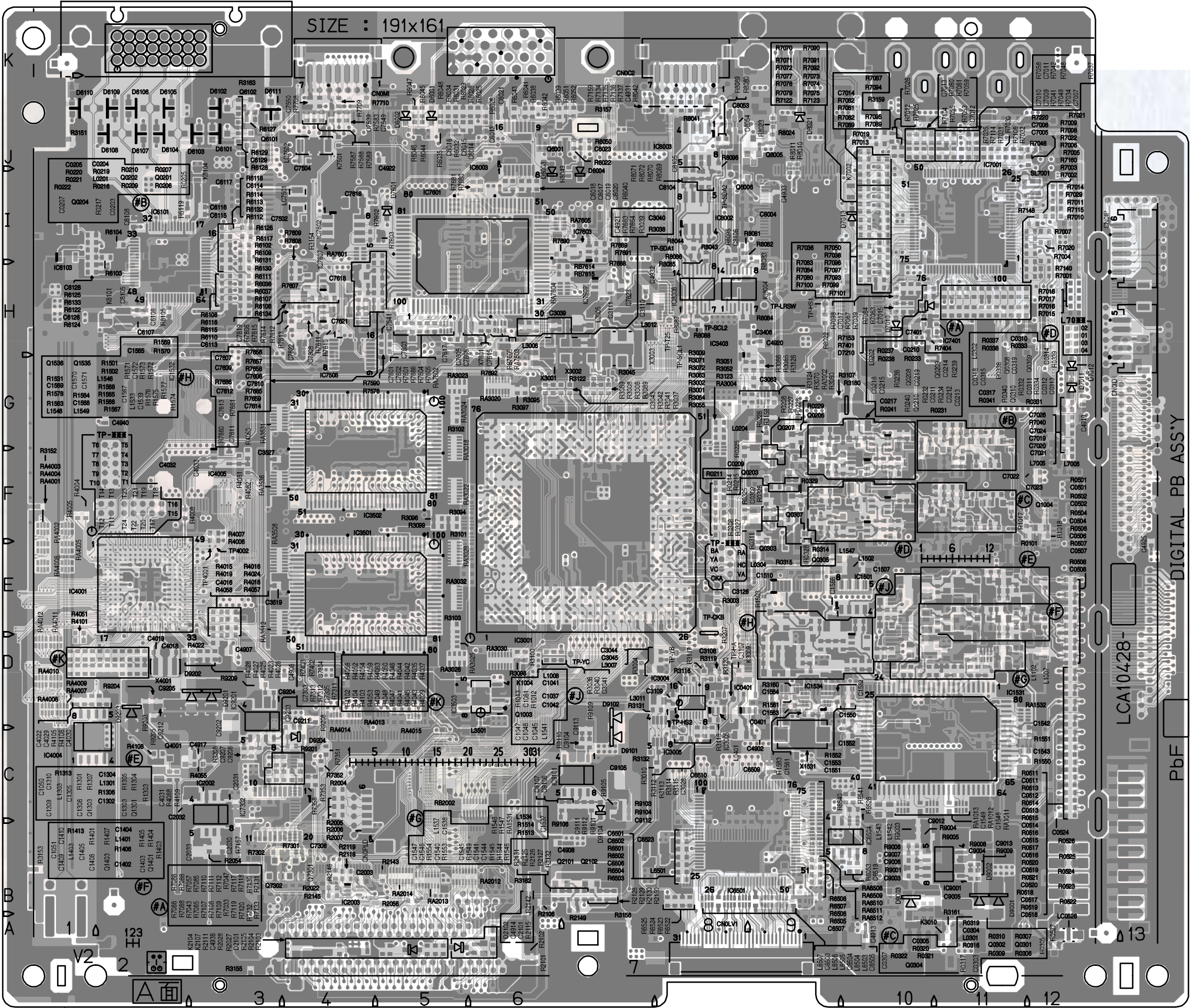
ANALOG SIGNAL PWB PATTERN [PARTS SIDE]



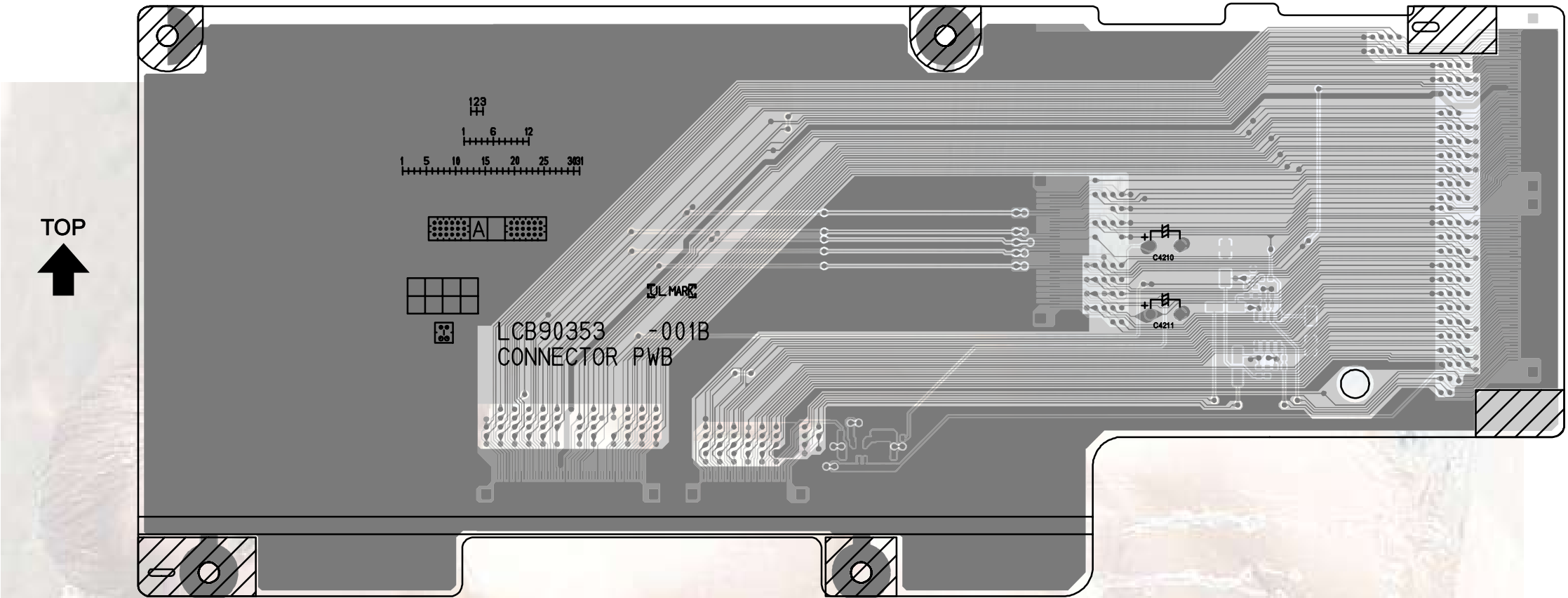
TOP
➔

DIGITAL SIGNAL PWB PATTERN [SOLDER SIDE]

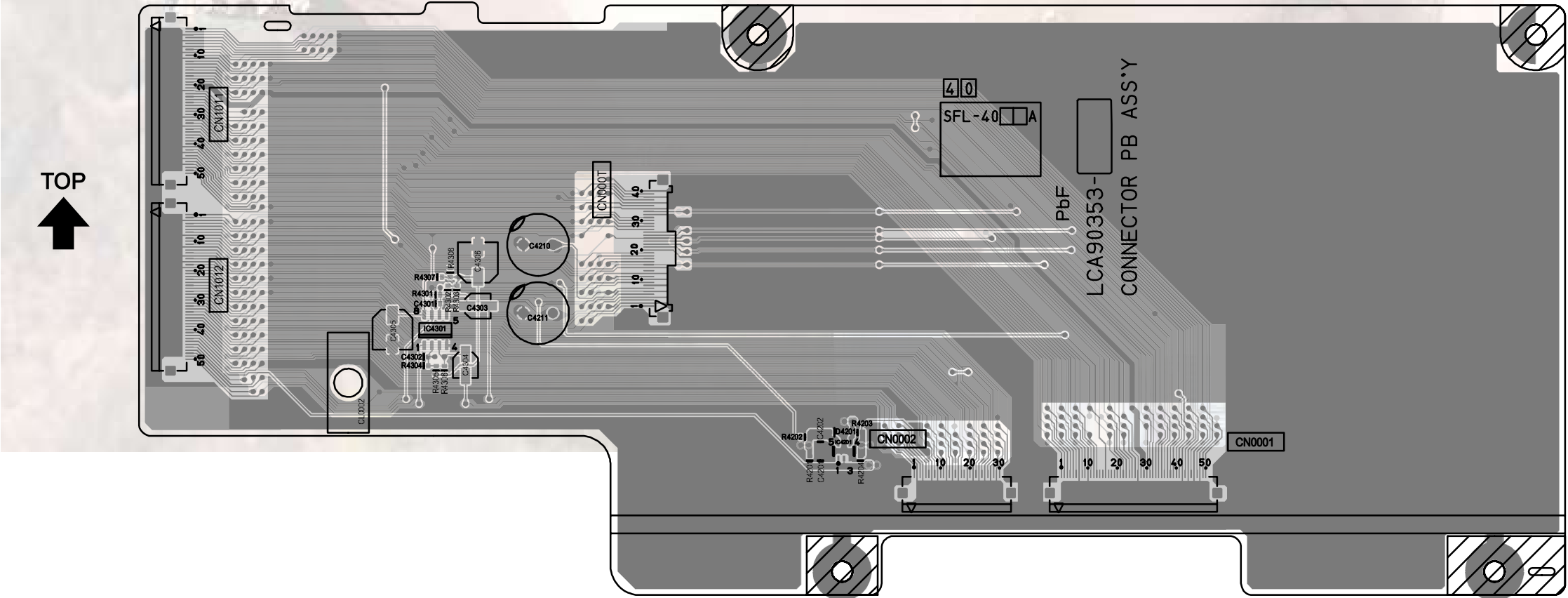




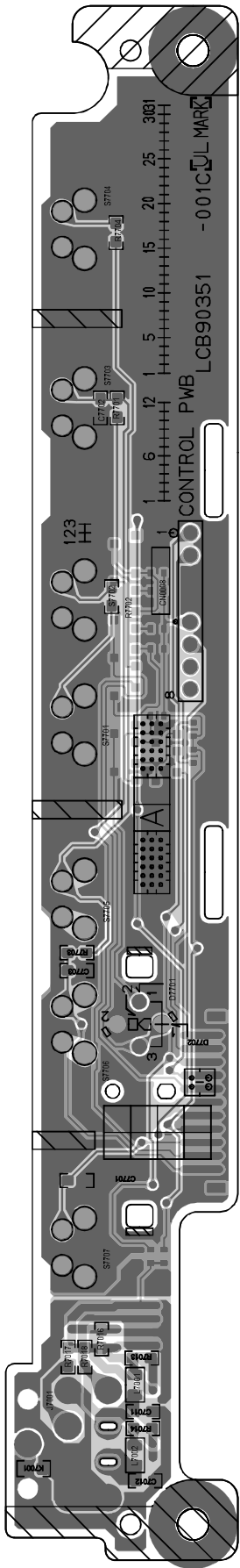
CONNECTOR PWB PATTERN [SOLDER SIDE]



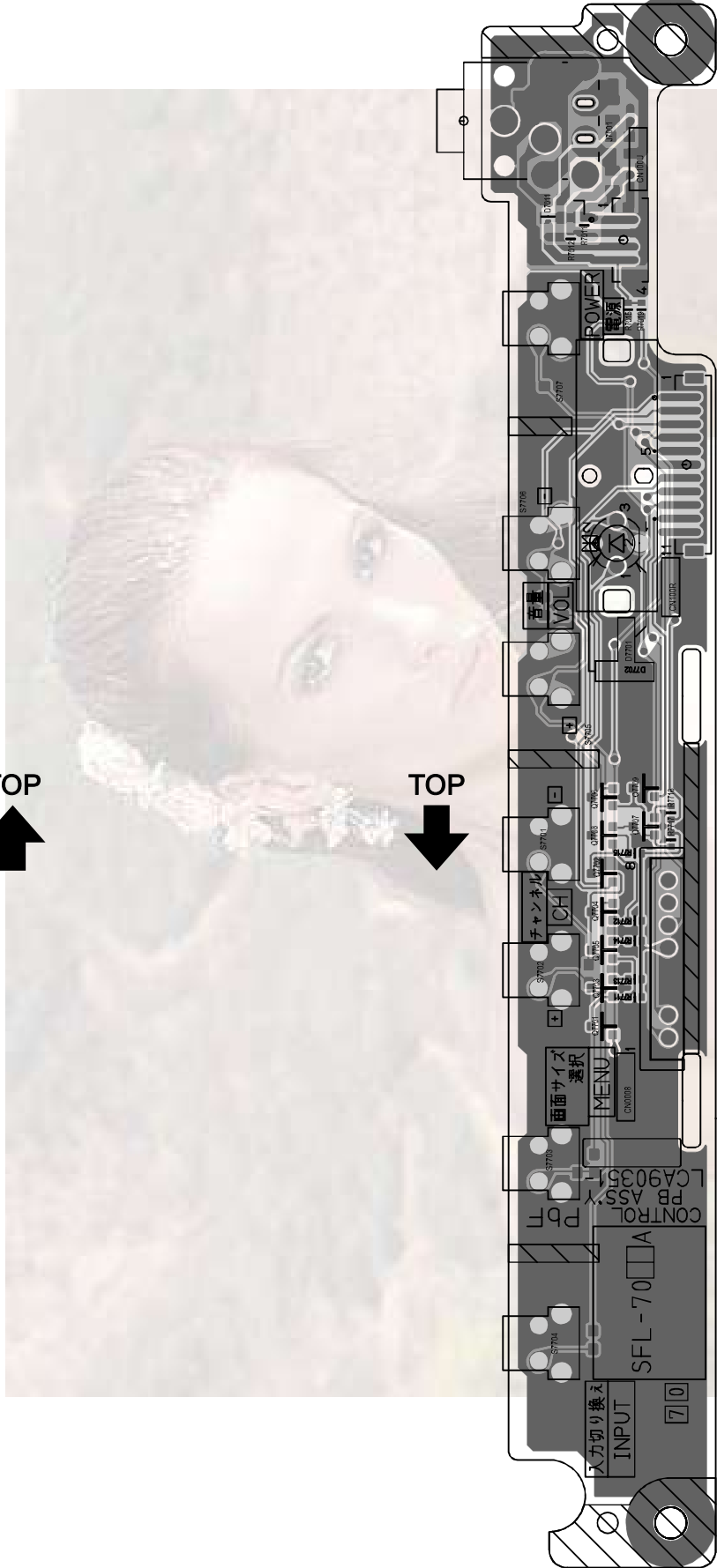
CONNECTOR PWB PATTERN [PARTS SIDE]



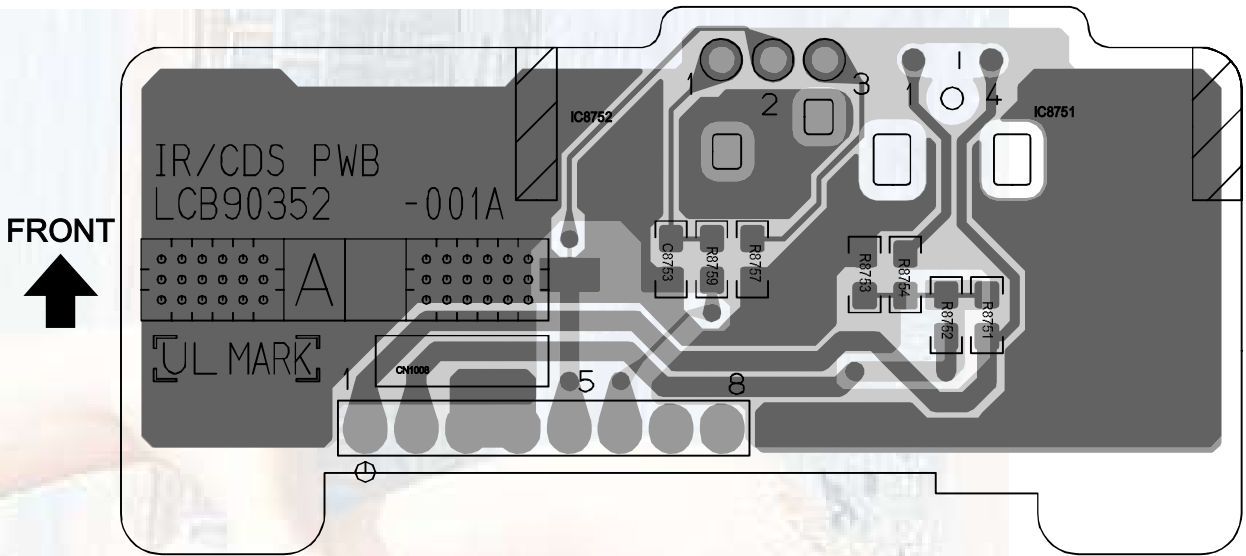
FRONT CONTROL PWB PATTERN [SOLDER SIDE]



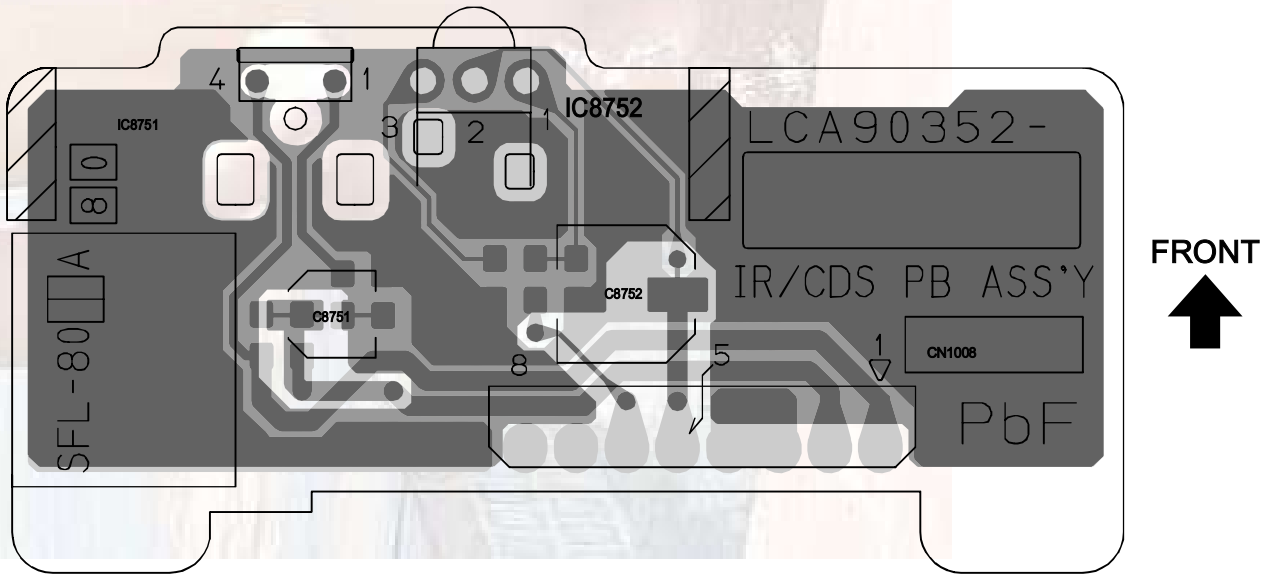
FRONT CONTROL PWB PATTERN [PARTS SIDE]



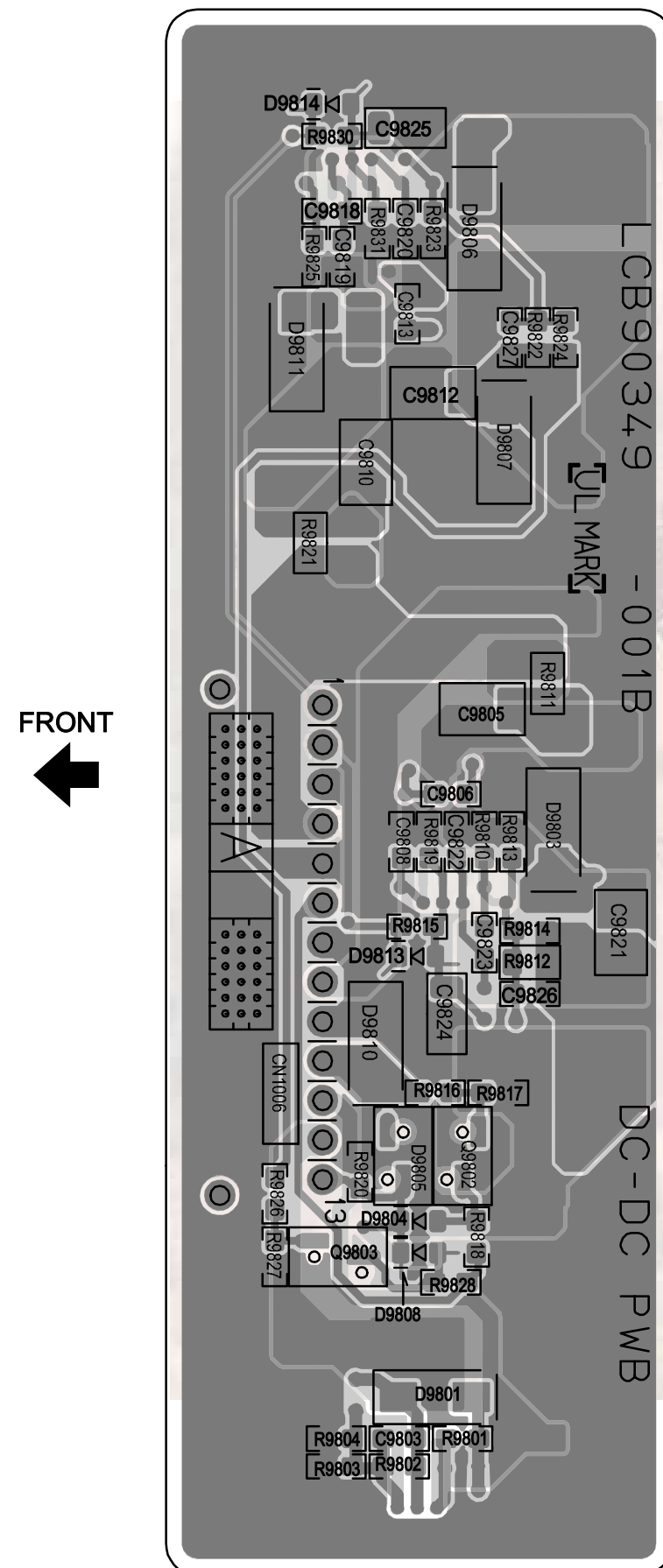
FRONT SENSOR PWB PATTERN [SOLDER SIDE]



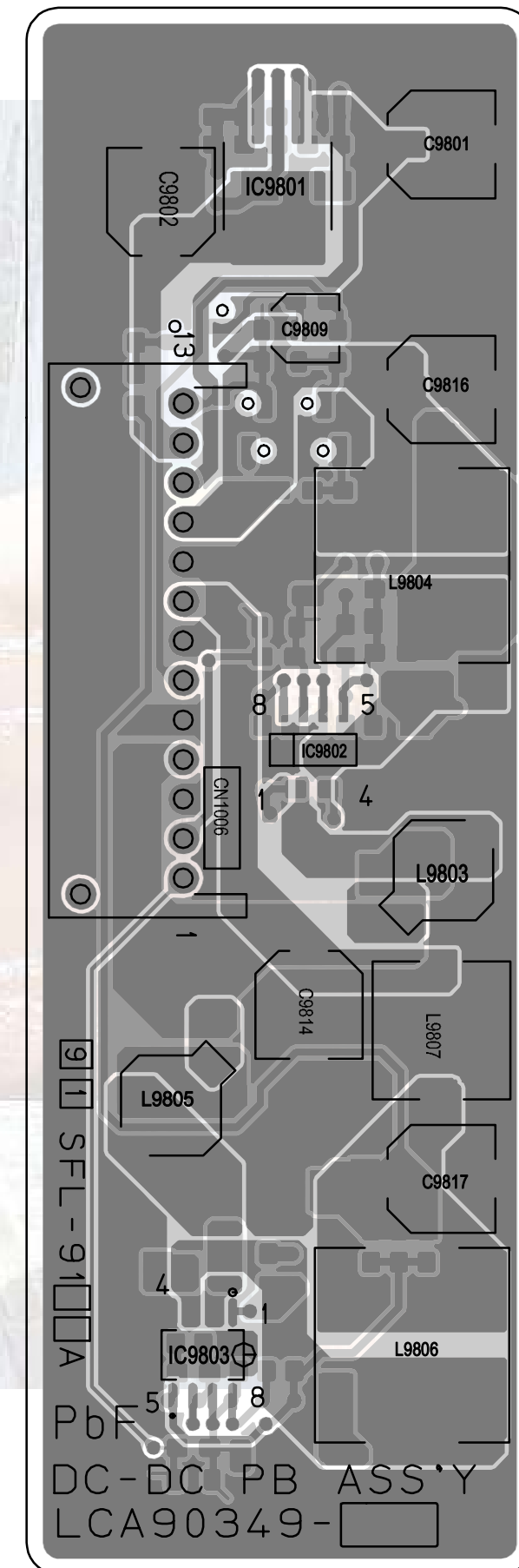
FRONT SENSOR PWB PATTERN [PARTS SIDE]

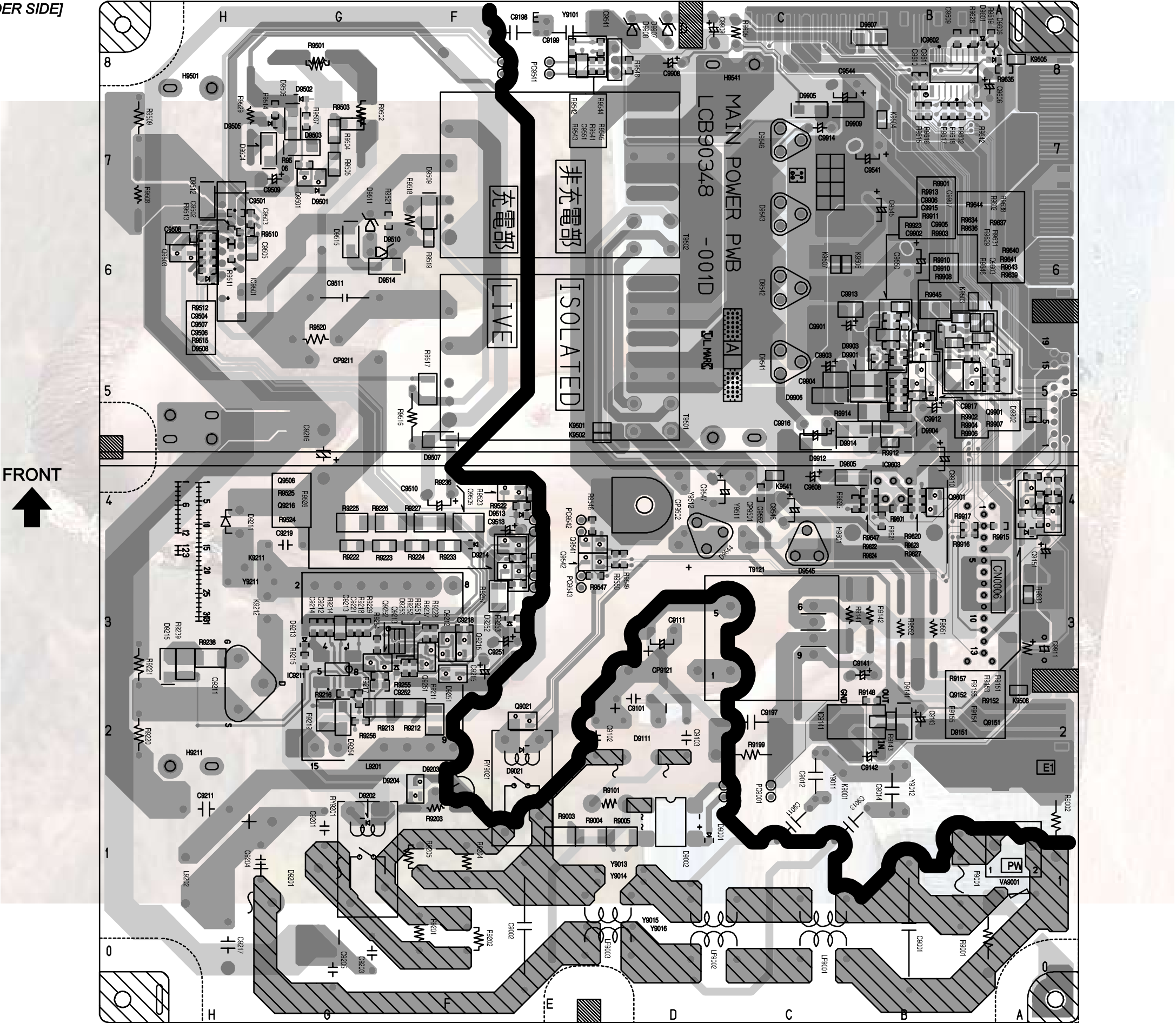


REGULATOR PWB PATTERN [SOLDER SIDE]



REGULATOR PWB PATTERN [PARTS SIDE]





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Y9014

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