

# ADJUSTMENT

## ■ Safety Precautions

1. It is safe to adjust after using insulating transformer between the power supply line and chassis input to prevent the risk of electric shock and protect the instrument.
2. Never disconnect leads while the TV receiver is on.
3. Don't short any portion of circuits while power is on.
4. The adjustment must be done by the correct appliances. But this is changeable in view of productivity.
5. Unless otherwise noted, set the line voltage to 230Vac $\pm$ 10%, 50Hz.

## ■ Test Equipment required

1. RF signal generator (with pattern generator)
2. DC Power Supply
3. Multimeter (volt meter)
4. Oscilloscope
5. Color analyzer

## • RF AGC (Automatic Gain Control) Adjustment

|            |                  |
|------------|------------------|
| Test Point | : AGC TP (J2)    |
| Adjust     | : Remote Control |

The RF AGC was aligned at the time of manufacture for optimum performance over a wide range conditions. Readjustment of RF AGC should not be necessary unless unusual local conditions exist, such as ;

- 1) Channel interference in a CATV system.
- 2) Picture bending and/or color beats, which are unusually due to excessive RF signal input when the receiver is too close to a transmitting tower or when the receiver is connected to an antenna distribution system where the RF signal has been amplified. In this case, the input signal should be attenuated (with pad or filter) to a satisfactory level.
- 3) Picture noise caused by "broadcast noise" or weak signal. If the broadcast is "clean" and the RF signal is at least 1mV (60dBu), the picture will be noise free in any area.

Adjusting RF AGC to one end of rotation will usually cause a relatively poor signal to noise ratio;  
Adjusting to the other end of rotation will usually cause a degradation of over load capabilities resulting in color beats or adjacent channel interference.

### Adjustment

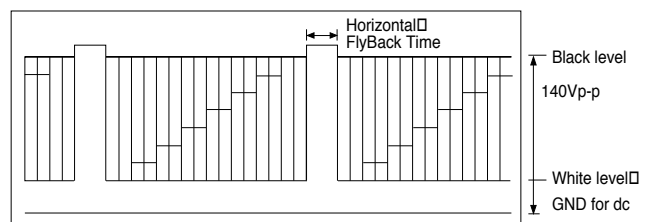
1. Connect RF signal (60dB $\pm$ 1dB) and turn on the TV.
2. Press OK buttons on TV set and Remote Controller at the same time to get into SVC mode.
3. Press Channel UP/DOWN button on the Remote Controller several times to find AGC ??.
4. Press Volume UP/DOWN button until the AGC Voltage is the same as the Table below.
5. Press OK(■) button to memorize the data.

|             |                   |                   |
|-------------|-------------------|-------------------|
| TUNER       | 6700VPF002A(ALPS) | 6700VPF003B(LGEC) |
| AGC Voltage | 3.5 $\pm$ 0.1V    | 2.7 $\pm$ 0.1V    |

## • Screen Voltage Adjustment

|            |                                 |
|------------|---------------------------------|
| Test Point | : RK (Red Cathode of CPT Board) |
| Adjust     | : Screen Control of FBT         |

- 1) Tune the TV set to receive a digital pattern.
- 2) Press PSM (RED) button on remote controller. (standard picture)
- 3) Connect the probe of oscilloscope to the RK (Red Cathode) of CPT Board.
- 4) Adjust Screen Volume of FBT so that the waveform is the same as below figure.



The waveform of RK(Red Cathode) of CPT Board

## • Focus Adjustment

**NOTE:** This adjustment should be performed after warming up for 10 minutes.

|            |                        |
|------------|------------------------|
| Test Point | : Observing Display    |
| Adjust     | : Focus control of FBT |

- 1) Tune the TV set to receive an inactive channel station.
- 2) Adjust the Focus control of FBT for best overall focus.

## • Deflection Data Adjustment (Line SVC-1)

**NOTE:** To enter SVC mode, press "OK" buttons on both TV set and the Remote control at the same time.

### 1. Preparation for Deflection Adjustment

- 1) At SVC mode, press the Yellow colored button.  
If the Remote Controller doesn't have the Yellow button, you should use a Service Remote Control (105-201G) and press SVC button.  
And then, deflection data adjustment OSD (SVC1 mode) will be displayed.
- 2) Press Channel UP/DOWN button for desirous function Adjustment.
- 3) Press Volume UP/DOWN button to adjust the data.

### 2. Deflection Adjustment Procedure

#### 1) Vertical Adjustment

Select VS and adjust until the mechanical center of CPT and that of screen coincides and select VA and adjust to coincide the inner circle of screen with outer frame of CPT.

#### 2) Horizontal Adjustment

Select HS and adjust until the mechanical center of CPT and that of screen coincides.

#### 3) Vertical S Correction Adjustment

Select SC and adjust until top-bottom side pincushion are equal.

- 4) Press OK(■) button to memorize the data.

### 3. Deflection Initial Setup Data

| Status | Default | 21" LG | 20" LG | 14" LG | ORION 14" | ORION 16" | ORION 20" | ORION 21" |
|--------|---------|--------|--------|--------|-----------|-----------|-----------|-----------|
| VL     | 34      | 34     | 34     | 34     | 34        | 34        | 34        | 34        |
| VS     | 25      | 25     | 25     | 25     | 25        | 25        | 25        | 25        |
| VA     | 43      | 43     | 43     | 43     | 43        | 43        | 43        | 43        |
| HS     | 36      | 36     | 36     | 36     | 36        | 36        | 36        | 36        |
| SC     | 10      | 10     | 10     | 5      | 5         | 5         | 5         | 5         |

## • Stereo Amp Adjustment(LINE SVC-2)

\* Real Stereo Model ONLY

| Average ADJ. Data List |                  |    |
|------------------------|------------------|----|
| FP                     | FM Prescaller    | 18 |
| NP                     | Nicam Prescaller | 72 |
| SP                     | Scart Prescaller | 40 |
| SV                     | Scart Volume     | 55 |

\* INABLE HOTEL TV(LIMIT VOLUME)

|        |       |  |
|--------|-------|--|
| MAXVOL | 1-100 |  |
|--------|-------|--|

## • White Balance Adjustment.(LINE SVC-0)

**NOTE :** This adjustment should be performed after screen voltage adjustment.

- 1) Tune the TV set to receive an 100% white pattern.
- 2) Press OK(■) buttons on TV set and remote controller at the same time to get into SVC mode.
- 3) Press Channel UP/DOWN button for desirous function adjustment.
- 4) Adjust VOL+ or VOL- button for GG031.
- 5) Adjust VOL+ or VOL-button in each status of "Rg--"/"Bg--" for X=281±8, Y=288±8 with color analyzer.
- 6) Press OK(■) button to memorize the adjustment data.

| Status | Adjustment | Range | Initial Data | Remark |
|--------|------------|-------|--------------|--------|
| RG     | R-Drive    | 0~63  | 32           |        |
| GG     | G-Drive    | 0~63  | 31           |        |
| BG     | B-Drive    | 0~63  | 27           |        |

## • Hold Down check

Short J139 and ZD747 and check if the TV set turns into stand-by.

• **OPTION Adjustment (SVC MODE:OPTION-1, OPTION-2)**

**NOTE:** When the EEPROM has been replaced, the Option data should be restored as the function of individual system and specification.

- 1) Press OK buttons on both TV set and Remote Controller at the same time to get into SVC mode.
- 2) Press the Yellow button several times to find OPTION-1 or OPTION-2.
- 3) Input the correspond OPTION data referring to Table below with the numeric buttons 0~9.

**Table 1. OPTION 1 Function**

| Option | Code | Function         | Remark                    |
|--------|------|------------------|---------------------------|
| SYSTEM | 00   | BG+I+DK          | W/O RF 3.58(CF-, CZ-)     |
|        | 01   | BG+I+DK+M        | with RF3.58(CT-, CD-)     |
|        | 10   | ONLY             | Single SYSTEM(CA-)        |
|        | 11   | ONLY+DUAL        | South East Asian DUAL     |
| SCART  | 0    | PHONO JACK (AV1) |                           |
|        | 1    | SCART JACK (AV1) | with RGB Input            |
| EYE    | 0    | W/O EYE          |                           |
|        | 1    | with EYE         |                           |
| UBB    | 0    | W/O UBB          | UBB for S-MAX(MONO) MODEL |
|        | 1    | with UBB         |                           |
| AV2    | 0    | W/O AV2 (Front)  | TOOL Option               |
|        | 1    | with AV2 (Front) |                           |

**Table 2. Specifications for OPTION-1 data**

| OPTION Data | SYSTEM | SCART | EYE | UBB | AV2 |
|-------------|--------|-------|-----|-----|-----|
| 0           | 00     | 0     | 0   | 0   | 0   |
| 1           | 00     | 0     | 0   | 0   | 1   |
| 2           | 00     | 0     | 0   | 1   | 0   |
| 3           | 00     | 0     | 0   | 1   | 1   |
| 4           | 00     | 0     | 1   | 0   | 0   |
| 5           | 00     | 0     | 1   | 0   | 1   |
| 6           | 00     | 0     | 1   | 1   | 0   |
| 7           | 00     | 0     | 1   | 1   | 1   |
| 8           | 00     | 1     | 0   | 0   | 0   |
| 9           | 00     | 1     | 0   | 0   | 1   |
| 10          | 00     | 1     | 0   | 1   | 0   |
| 11          | 00     | 1     | 0   | 1   | 1   |
| 12          | 00     | 1     | 1   | 0   | 0   |
| 13          | 00     | 1     | 1   | 0   | 1   |
| 14          | 00     | 1     | 1   | 1   | 0   |
| 15          | 00     | 1     | 1   | 1   | 1   |
| 16          | 01     | 0     | 0   | 0   | 0   |
| 17          | 01     | 0     | 0   | 0   | 1   |
| 18          | 01     | 0     | 0   | 1   | 0   |
| 19          | 01     | 0     | 0   | 1   | 1   |

| OPTION Data | SYSTEM | SCART | EYE | UBB | AV2 |
|-------------|--------|-------|-----|-----|-----|
| 20          | 01     | 0     | 1   | 0   | 0   |
| 21          | 01     | 0     | 1   | 0   | 1   |
| 22          | 01     | 0     | 1   | 1   | 0   |
| 23          | 01     | 0     | 1   | 1   | 1   |
| 24          | 01     | 1     | 0   | 0   | 0   |
| 25          | 01     | 1     | 0   | 0   | 1   |
| 26          | 01     | 1     | 0   | 1   | 0   |
| 27          | 01     | 1     | 0   | 1   | 1   |
| 28          | 01     | 1     | 1   | 0   | 0   |
| 29          | 01     | 1     | 1   | 0   | 1   |
| 30          | 01     | 1     | 1   | 1   | 0   |
| 31          | 01     | 1     | 1   | 1   | 1   |
| 32          | 10     | 0     | 0   | 0   | 0   |
| 33          | 10     | 0     | 0   | 0   | 1   |
| 34          | 10     | 0     | 0   | 1   | 0   |
| 35          | 10     | 0     | 0   | 1   | 1   |
| 36          | 10     | 0     | 1   | 0   | 0   |
| 37          | 10     | 0     | 1   | 0   | 1   |
| 38          | 10     | 0     | 1   | 1   | 0   |
| 39          | 10     | 0     | 1   | 1   | 1   |
| 40          | 10     | 1     | 0   | 0   | 0   |
| 41          | 10     | 1     | 0   | 0   | 1   |
| 42          | 10     | 1     | 0   | 1   | 0   |
| 43          | 10     | 1     | 0   | 1   | 1   |
| 44          | 10     | 1     | 1   | 0   | 0   |
| 45          | 10     | 1     | 1   | 0   | 1   |
| 46          | 10     | 1     | 1   | 1   | 0   |
| 47          | 10     | 1     | 1   | 1   | 1   |
| 48          | 11     | 0     | 0   | 0   | 0   |
| 49          | 11     | 0     | 0   | 0   | 1   |
| 50          | 11     | 0     | 0   | 1   | 0   |
| 51          | 11     | 0     | 0   | 1   | 1   |
| 52          | 11     | 0     | 1   | 0   | 0   |
| 53          | 11     | 0     | 1   | 0   | 1   |
| 54          | 11     | 0     | 1   | 1   | 0   |
| 55          | 11     | 0     | 1   | 1   | 1   |
| 56          | 11     | 1     | 0   | 0   | 0   |
| 57          | 11     | 1     | 0   | 0   | 1   |
| 58          | 11     | 1     | 0   | 1   | 0   |
| 59          | 11     | 1     | 0   | 1   | 1   |
| 60          | 11     | 1     | 1   | 0   | 0   |
| 61          | 11     | 1     | 1   | 0   | 1   |
| 62          | 11     | 1     | 1   | 1   | 0   |
| 63          | 11     | 1     | 1   | 1   | 1   |

**Table 3. OPTION 2 Function**

| Option | Code | Function             | Remark                                          |
|--------|------|----------------------|-------------------------------------------------|
| FFI    | 0    | Normal Condition     | Fast Filter IF-PLL<br>(for excessive RF signal) |
|        | 1    | FFI Active           |                                                 |
| CHINA  | 0    | W/O Chinese NICAM    | Chinese Model only                              |
|        | 1    | Chinese NICAM        |                                                 |
| LANG.  | M    | Multi Language (M=0) | Language varies by<br>MICOM Part No.            |
|        | E    | English Only (E=1)   |                                                 |
| HOTEL  | 0    | W/O HOTEL            | for Buyer 's request                            |
|        | 1    | For HOTEL            |                                                 |
| GAME   | 0    | W/O GAME             | POWER BALL                                      |
|        | 1    | With GAME function   |                                                 |

**Table 4. Specifications for OPTION-2 data**

| OPTION Data | FFI | CHINA | LANG. | HOTEL | GAME |
|-------------|-----|-------|-------|-------|------|
| 0           | 0   | 0     | M     | 0     | 0    |
| 1           | 0   | 0     | M     | 0     | 1    |
| 2           | 0   | 0     | M     | 1     | 0    |
| 3           | 0   | 0     | M     | 1     | 1    |
| 4           | 0   | 0     | E     | 0     | 0    |
| 5           | 0   | 0     | E     | 0     | 1    |
| 6           | 0   | 0     | E     | 1     | 0    |
| 7           | 0   | 0     | E     | 1     | 1    |
| 8           | 0   | 1     | M     | 0     | 0    |
| 9           | 0   | 1     | M     | 0     | 1    |
| 10          | 0   | 1     | M     | 1     | 0    |
| 11          | 0   | 1     | M     | 1     | 1    |
| 12          | 0   | 1     | E     | 0     | 0    |
| 13          | 0   | 1     | E     | 0     | 1    |
| 14          | 0   | 1     | E     | 1     | 0    |
| 15          | 0   | 1     | E     | 1     | 1    |
| 16          | 1   | 0     | M     | 0     | 0    |
| 17          | 1   | 0     | M     | 0     | 1    |
| 18          | 1   | 0     | M     | 1     | 0    |
| 19          | 1   | 0     | M     | 1     | 1    |
| 20          | 1   | 0     | E     | 0     | 0    |
| 21          | 1   | 0     | E     | 0     | 1    |
| 22          | 1   | 0     | E     | 1     | 0    |
| 23          | 1   | 0     | E     | 1     | 1    |
| 24          | 1   | 1     | M     | 0     | 0    |
| 25          | 1   | 1     | M     | 0     | 1    |
| 26          | 1   | 1     | M     | 1     | 0    |
| 27          | 1   | 1     | M     | 1     | 1    |
| 28          | 1   | 1     | E     | 0     | 0    |
| 29          | 1   | 1     | E     | 0     | 1    |
| 30          | 1   | 1     | E     | 1     | 0    |
| 31          | 1   | 1     | E     | 1     | 1    |

## • HOTEL TV Mode

**NOTE:** This mode is useful for HOTEL TV MODEL. Dealer or HOTEL manager can use this option.  
HOTEL TV FUNCTION has two powerful function

### 1. AFTER SELECTING HOTEL MODE, CAN NOT CHANGE INITIAL SET UP CONDITION.

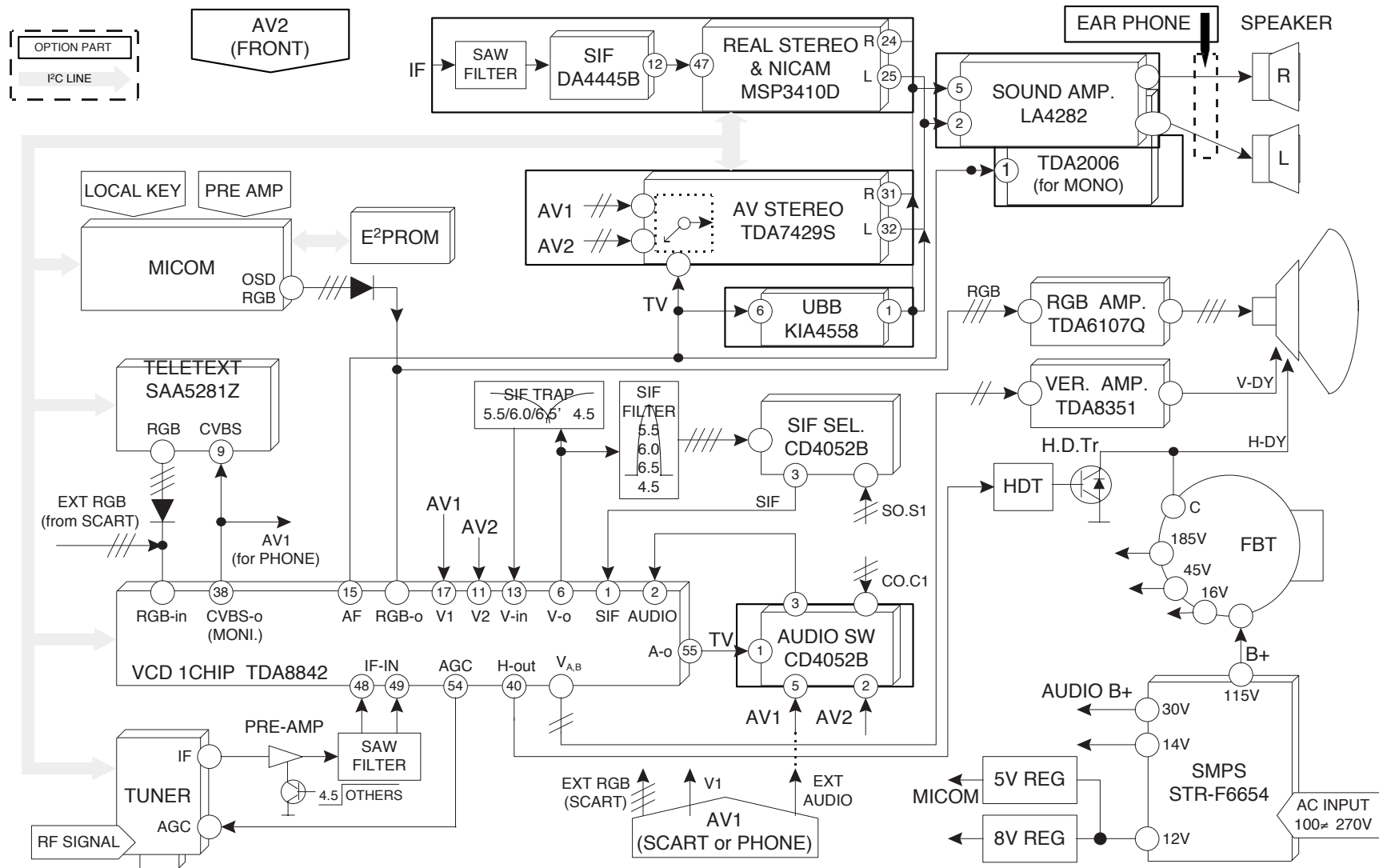
- CHANNEL PROGRAM(AUTO PROGRAM, MANUAL PROGRAM, EDIT FUNCTION) and OSD LANGUAGE set up condition is fixed so the HOTEL lodger cannot change and remove initial set up data condition at his pleasure. This function prevents HOTEL lodger from needless changing channel memory data and OSD language condition.  
It will be helpful for maintaining the best suitable condition of TV SET

### 2. Limit MAX. VOLUME LEVEL.

- The HOTEL lodger can only use limited range of volume level because loud TV sound can disturb other lodger's private business.  
The HOTEL manager select maximum volume level proper for HOTEL.

### \* HOTEL mode operating guide

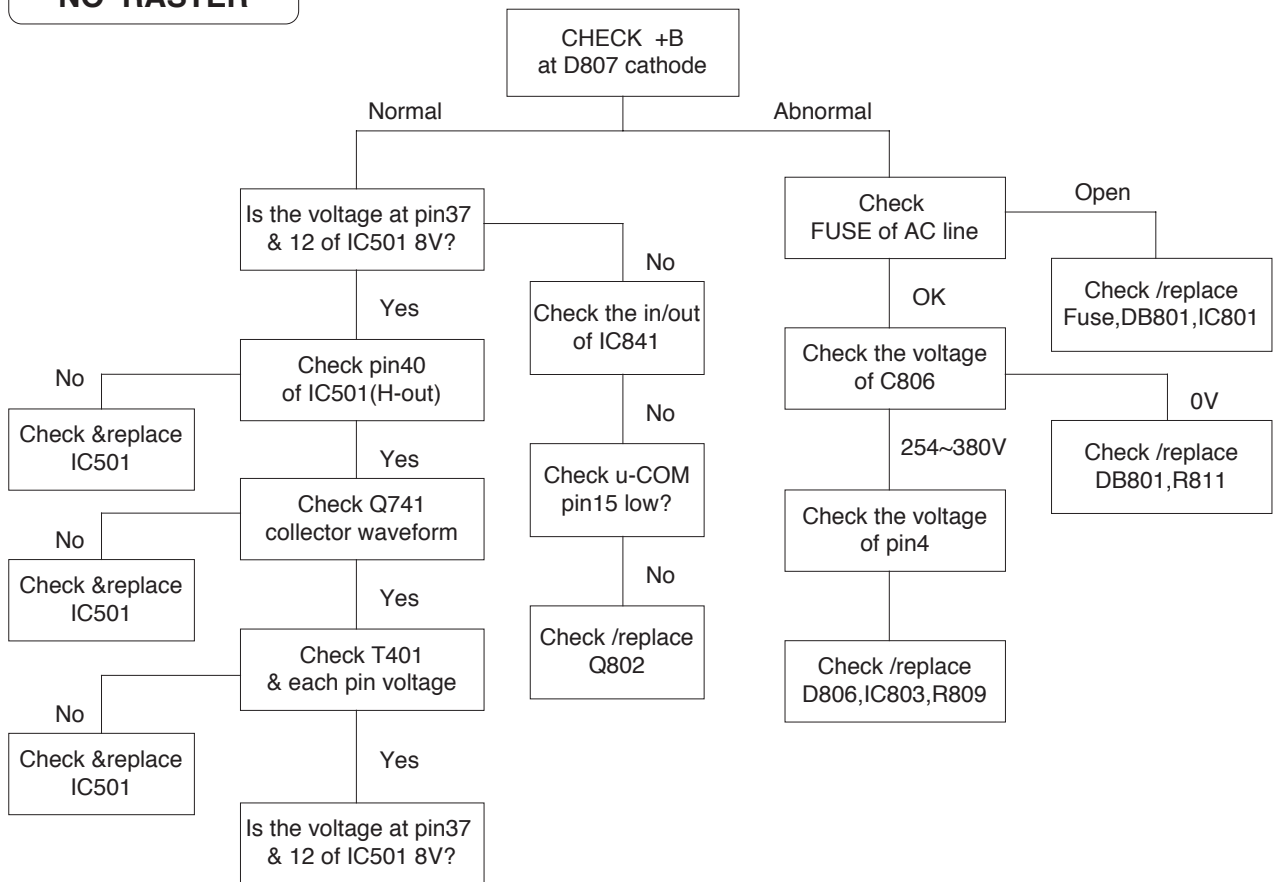
1. SET UP(CH.SEARCH AND EDIT) the Channel Program
2. SET UP Proper max volume level in SVC Mode.
3. SET UP HOTEL option in SVC Mode(OPTION-2).



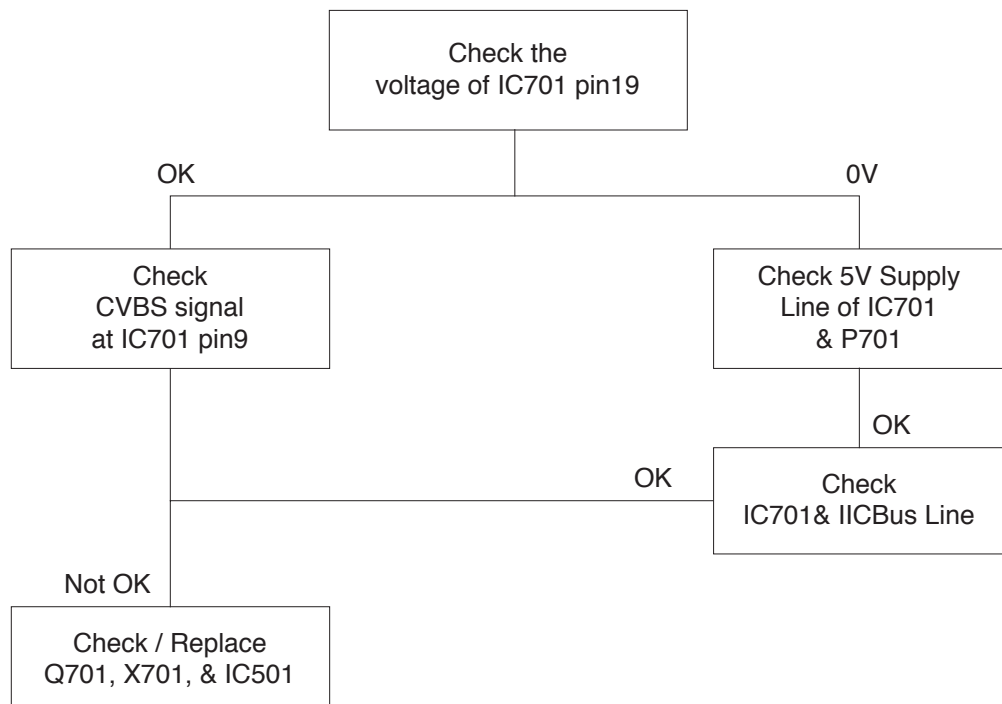
**BLOCK DIAGRAM**

# TROUBLESHOOTING

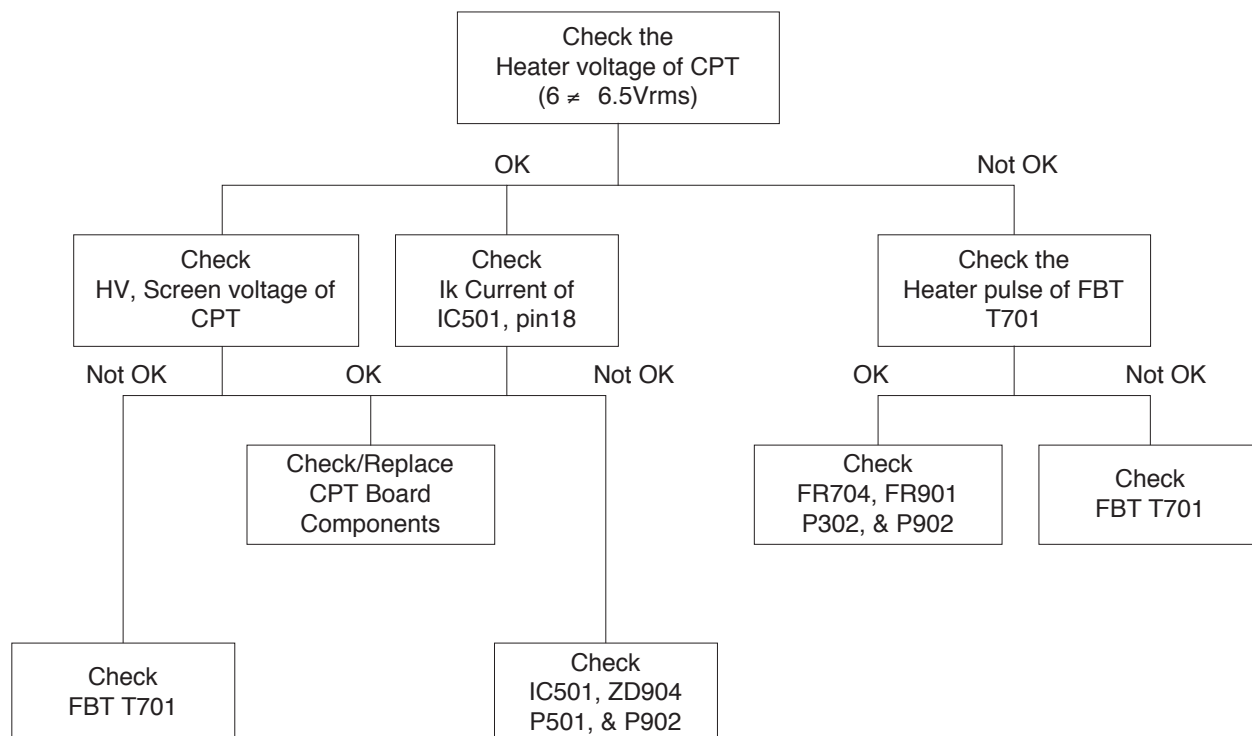
## NO RASTER



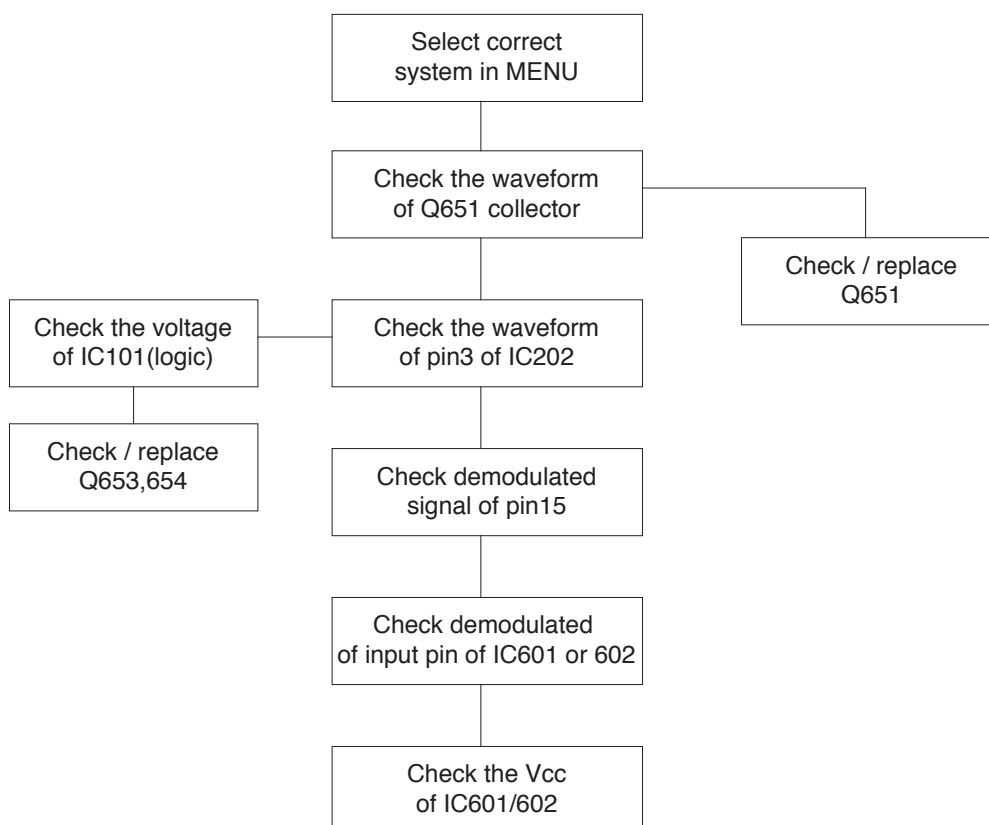
## NO TELETEXT



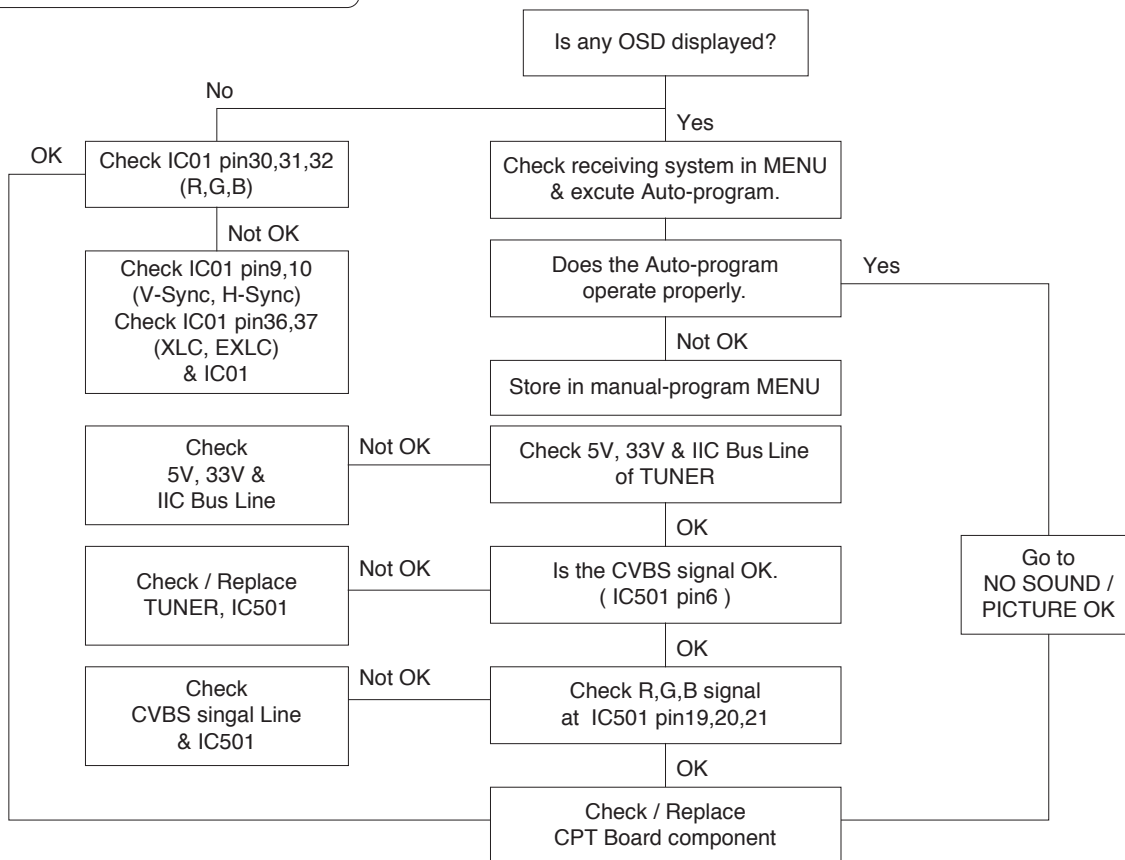
## NO RASTER / SOUND OK



## NO SOUND / PICTURE OK



## NO PICTURE / NO SONUD



The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

## REPLACEMENT PARTS LIST

| LOCA. NO       | PART NO     | DESCRIPTION                       |
|----------------|-------------|-----------------------------------|
| <b>IC</b>      |             |                                   |
| IC01           | 0ISO883806D | IC,LG8838-06D *LANG.ASIA          |
| "              | 0ISO883807C | IC,LG8838-07C *LANG RUSSIA        |
| IC02           | 0IAL241600B | IC,AT24C16-10PC 8D EEPROM 16K     |
| "              | 0IAL240410A | IC,AT24C04-10PC 8D EEPROM(4K)     |
| IC03           | 0ISS754200A | IC,KA7542Z RESET TO92 TP 4.2V     |
| IC201          | 0IHA405200A | IC,CD4052B 16P DIP DIFF-4-CH MUX  |
| IC202          | 0IHA405200A | IC,CD4052B 16P DIP DIFF-4-CH MUX  |
| IC301          | 0IPH835150A | IC,TDA8351/N5 9P,SIP BK V/OUT(W/O |
| IC501          | 0IPH884212A | IC,TDA8842 (S1)/N2 56P SDIP BK    |
| "              | 0IPH884112A | IC,TDA8841 (S1)/N2 56P SDIP BK    |
| IC601          | 0ISA428200A | IC,LA4282                         |
| IC602          | 0ISG200600A | IC,TDA2006 5Z 1CHX10W AUDIO AMP   |
| IC603          | 0IKE455800E | IC,KIA4558DUAL OP AMP             |
| $\Delta$ IC801 | 0ISH123200B | IC,PC123 FY2PHOTO COUPLER         |
| $\Delta$ IC802 | 0ITF435000A | IC,4N35(G)V 6D PHOTO COUPLER      |
| $\Delta$ IC803 | 0ISK665413A | IC,STR-F6654(LF1352) 5P,SIP BK ST |
| $\Delta$ IC804 | 0ISK115000A | IC,SE115N(LF12) 3P 115V ERROR AMP |
| "(14")         | 0ISK110000A | IC,SE110N(LF12) 3P 110V ERROR AMP |
| IC840          | 0ISS780500J | IC,KA78L05AZ TO-92 TP 5V REGULATO |
| IC841          | 0ISS780800H | IC,KA78R08 4P,TO-220F BK LOW DROP |
| IC901          | 0IPH610700A | IC,TDA6107Q SIP9 BK VIDEO OUT AMP |
| <b>DIODE</b>   |             |                                   |
| DB801          | 0DD260000BB | DIODE,BRIDGE D2SBA60(STK)         |
| D01            | 0DD414809ED | DIODE,DS4148                      |
| D101           | 0DD414809ED | DIODE,DS4148                      |
| D102           | 0DD859009AA | DIODE,SILICON MA859               |
| D401           | 0DD150009CA | DIODE,RGP15J                      |
| D501           | 0DD414809ED | DIODE,DS4148                      |
| D502           | 0DD414809ED | DIODE,DS4148                      |
| D503           | 0DD414809ED | DIODE,DS4148                      |
| D504           | 0DD414809ED | DIODE,DS4148                      |
| D505           | 0DD414809ED | DIODE,DS4148                      |
| D506           | 0DD414809ED | DIODE,DS4148                      |
| D507           | 0DD414809ED | DIODE,DS4148                      |
| D508           | 0DD414809ED | DIODE,DS4148                      |
| D509           | 0DD414809ED | DIODE,DS4148                      |
| D601           | 0DD414809ED | DIODE,DS4148                      |
| D602           | 0DD414809ED | DIODE,DS4148                      |
| D631           | 0DD414809ED | DIODE,DS4148                      |
| D741           | 0DR149379AA | DIODE,RECTIFIER 1N4937G           |
| D742           | 0DD150009CA | DIODE,RGP15J                      |
| D743           | 0DR149379AA | DIODE,RECTIFIER 1N4937G           |
| D802           | 0DD100009AM | DIODE,EU1ZV                       |
| D803           | 0DD414809ED | DIODE,DS4148                      |
| D804           | 0DD420000BB | DIODE,D4L20U *STEREO              |
| "              | 0DD360009AA | DIODE,BYW36 (2A/600V) *MONO       |
| D805           | 0DD200009AC | DIODE,RG-2 V                      |
| D806           | 0DD100009AM | DIODE,EU1ZV                       |
| D807           | 0DD300009AC | DIODE,RU3AMV                      |
| D808           | 0DD200009AF | DIODE,RU-2MV                      |

| LOCA. NO          | PART NO     | DESCRIPTION                       |
|-------------------|-------------|-----------------------------------|
| D901              | 0DD400309AD | DIODE,IN4003A RECT                |
| LD01              | 0DD000000BA | DIODE,LAMP(DIFFUSION TYPE)        |
| ZD101             | 0DZ510009AB | DIODE,ZENER MTZ5.1B               |
| ZD102             | 0DZ330009BA | DIODE,ZENER HZT33                 |
| ZD201             | 0DZ510009AB | DIODE,ZENER MTZ5.1B               |
| ZD501             | 0DZ180009AA | DIODE,ZENER MTZ18B                |
| ZD651             | 0DZ120009AA | DIODE,ZENER Z12BM TA              |
| ZD681             | 0DZ120009AA | DIODE,ZENER Z12BM TA              |
| ZD741             | 0DZ820009AA | DIODE,ZENER MTZ8.2B               |
| ZD742             | 0DZ820009AA | DIODE,ZENER MTZ8.2B               |
| ZD90              | 0DZ910009BA | DIODE,ZENER MTZ9.1B               |
| ZD901             | 0DZ750009AA | DIODE,ZENER MTZ7.5B               |
| ZD902             | 0DZ750009AA | DIODE,ZENER MTZ7.5B               |
| ZD903             | 0DZ750009AA | DIODE,ZENER MTZ7.5B               |
| ZD904             | 0DZ750009AA | DIODE,ZENER MTZ7.5B               |
| <b>TRANSISTOR</b> |             |                                   |
| Q01               | 0TR945009AA | TR,KSC945C-Y                      |
| Q02               | 0TR120209AD | TR,KSR1202                        |
| Q102              | 0TR319709AB | TR,KTC3197,TP(KTC388A),KEC        |
| Q103              | 0TR945009AA | TR,KSC945C-Y                      |
| Q201              | 0TR945009AA | TR,KSC945C-Y                      |
| Q501              | 0TR733009AA | TR,KSA733C-Y                      |
| Q502              | 0TR945009AA | TR,KSC945C-Y                      |
| Q503              | 0TR733009AA | TR,KSA733C-Y                      |
| Q504              | 0TR945009AA | TR,KSC945C-Y                      |
| Q505              | 0TR733009AA | TR,KSA733C-Y                      |
| Q506              | 0TR733009AA | TR,KSA733C-Y                      |
| Q510              | 0TR733009AA | TR,KSA733C-Y                      |
| Q511              | 0TR733009AA | TR,KSA733C-Y                      |
| Q512              | 0TR945009AA | TR,KSC945C-Y                      |
| Q514              | 0TR120209AD | TR,KSR1202                        |
| Q516              | 0TR945009AA | TR,KSC945C-Y                      |
| Q601              | 0TR733009AA | TR,KSA733C-Y                      |
| Q602              | 0TR945009AA | TR,KSC945C-Y                      |
| Q651              | 0TR945009AA | TR,KSC945C-Y                      |
| Q652              | 0TR945009AA | TR,KSC945C-Y                      |
| Q653              | 0TR945009AA | TR,KSC945C-Y                      |
| Q654              | 0TR945009AA | TR,KSC945C-Y                      |
| Q680              | 0TR102009AB | TR,KRC102M TP(KRC1202),KEC        |
| Q741              | 0TR525000AA | TR,2SC5250 TO-3PFM HITACHI        |
| Q742              | 0TR233109AA | TR,KSC2331-Y TP SAMSUNG TO-92L    |
| Q801              | 0TR120209AD | TR,KSR1202                        |
| Q802              | 0TR120209AD | TR,KSR1202                        |
| <b>CAPACITOR</b>  |             |                                   |
| C02               | 0CE475DK618 | C,ELECTROLYTIC 4.7UF STD 50V M    |
| C03               | 0CN1010K519 | C,TUBULA(HIGH DIELE) 100PF 50V K  |
| C06               | 0CN1030F679 | C,TUBULA(HIGH DIELE) 0.01MF 16V M |
| C07               | 0CN1010K519 | C,TUBULA(HIGH DIELE) 100PF 50V K  |
| C08               | 0CN1010K519 | C,TUBULA(HIGH DIELE) 100PF 50V K  |
| C09               | 0CN1010K519 | C,TUBULA(HIGH DIELE) 100PF 50V K  |

| LOCA. NO  | PART NO     | DESCRIPTION                        |
|-----------|-------------|------------------------------------|
| C10       | 181-007E    | CAPACITOR MPE 50V 0.18UF J(TR)     |
| C102      | 0CE335DK618 | C,ELECTROLYTIC 3.3UF STD 50V M     |
| C103      | 0CN1030F679 | C,TUBULA(HIGH DIELE) 0.01MF 16V M  |
| C104      | 0CE226DH618 | C,ELECTROLYTIC 22UF STD 25V M      |
| C105      | 0CE475DK618 | C,ELECTROLYTIC 4.7UF STD 50V M     |
| C106      | 0CN1030F679 | C,TUBULA(HIGH DIELE) 0.01MF 16V M  |
| C107      | 0CN1030F679 | C,TUBULA(HIGH DIELE) 0.01MF 16V M  |
| C108      | 0CN1030F679 | C,TUBULA(HIGH DIELE) 0.01MF 16V M  |
| C109      | 0CN1010K519 | C,TUBULA(HIGH DIELE) 100PF 50V K   |
| C11       | 0CE106DF618 | C,ELECTROLYTIC 10UF STD 16V M      |
| C110      | 0CE226DH618 | C,ELECTROLYTIC 22UF STD 25V M      |
| C111      | 0CN1020K519 | C,TUBULA(HIGH DIELE) 1000P 50V K   |
| C112      | 0CN1030F679 | C,TUBULA(HIGH DIELE) 10000P 16V M  |
| C113      | 0CX3300K409 | C,TUBULA(T.C) 33PF 50V J           |
| C114      | 0CX3300K409 | C,TUBULA(T.C) 33PF 50V J           |
| C12       | 0CE335DK618 | C,ELECTROLYTIC 3.3UF STD 50V M     |
| C13       | 0CN1020K519 | C,TUBULA(HIGH DIELE) 1000PF 50V K  |
| C18       | 0CX1000K409 | C,TUBULA(T.C) 10P 50V J            |
| C19       | 0CN1030F679 | C,TUBULA(HIGH DIELE) 0.01MF 16V M  |
| C20       | 0CE107DD618 | C,ELECTROLYTIC 100UF STD 10V M     |
| C201      | 0CE106DK618 | C,ELECTROLYTIC 10UF STD 50V M      |
| C202      | 0CE105DK618 | C,ELECTROLYTIC 1UF STD 50V M       |
| C203      | 0CE105DK618 | C,ELECTROLYTIC 1UF STD 50V M       |
| C205      | 0CE476DF618 | C,ELECTROLYTIC 47UF STD 16V M      |
| C206      | 181-064P    | C,CE 16V 10                        |
| C21       | 0CX1000K409 | C,TUBULA(T.C) 10P 50V J            |
| C231      | 0CE226DH618 | C,ELECTROLYTIC 22UF STD 25V M      |
| C232      | 0CE226DH618 | C,ELECTROLYTIC 22UF STD 25V M      |
| C233      | 0CE227DF618 | C,ELECTROLYTIC 220UF STD 16V M     |
| C301      | 0CN1010K519 | C,TUBULA(HIGH DIELE) 100PF 50V K   |
| C302      | 0CN1020K519 | C,TUBULA(HIGH DIELE) 1000P 50V K   |
| C303      | 0CE226DK618 | C,ELECTROLYTIC 22UF STD 50V M      |
| C304      | 0CE227DH618 | C,ELECTROLYTIC 220UF STD 25V M     |
| C305      | 0CK3320W515 | C,CERAMIC(HIGH DIELE) 3300P 500V K |
| C306      | 0CK4710W515 | C,CERAMIC(HIGH DIELE) 470PF 500V K |
| C307      | 0CQ1531N509 | C,POLYESTER(MYLAR) 0.015MF 100V K  |
| C308      | 0CE225DK618 | C,ELECTROLYTIC 2.2UF STD 50V M     |
| C309      | 0CQ1031N509 | C,POLYESTER(MYLAR) 0.01U 100V K    |
| C310      | 0CN1020K519 | C,TUBULA(HIGH DIELE) 1000PF 50V K  |
| C311      | 0CN1020K519 | C,TUBULA(HIGH DIELE) 1000PF 50V K  |
| C401(20") | 181-013C    | C,MPP 200V 0.39uF J                |
| "(14")    | 181-013C    | C,MPP 200V 0.39uF J                |
| "(14")    | 181-013B    | C,MPP 200V 0.36uF J *ORION         |
| "(21")    | 181-013B    | C,MPP 200V 0.36uF J                |
| C402      | 0CE475DP618 | C,ELECTROLYTIC 4.7UF STD 160V M    |
| C403(20") | 181-015P    | C,MPP 1600V 0.0075UF H             |
| "(14")    | 181-015E    | C,MPP 1600V 0.0068UF H             |
| "(21")    | 181-015F    | C,MPP 1600V 0.0073UF H             |
| C404      | 0CK8210K515 | C,CERAMIC(HIGH DIELE) 820P 50V K   |
| C502      | 0CE225DK618 | C,ELECTROLYTIC 2.2UF STD 50V M     |
| C504      | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K     |
| C506      | 181-007C    | C,MPE 50V 0.1UF J                  |
| C507      | 0CE105DK618 | C,ELECTROLYTIC 1UF STD 50V M       |

| LOCA. NO | PART NO     | DESCRIPTION                                  |
|----------|-------------|----------------------------------------------|
| C508     | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K               |
| C509     | 0CN1040K949 | C,TUBULA(HIGH DIELE) 0.1M 50V Z              |
| C510     | 0CE107DF618 | C,ELECTROLYTIC 100UF STD 16V M               |
| C511     | 181-007H    | CAPACITOR MPE 50V 0.47UF J(TR)               |
| C512     | 0CE2251K636 | C,ELECTROLYTIC 2.2UF SM 50V M                |
| C513     | 181-007F    | C,MPE 50V 0.22UF J                           |
| C514     | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K               |
| C516     | 0CQ2231N509 | C,POLYESTER(MYLAR) 0.022MF 100V K            |
| C517     | 0CQ2231N509 | C,POLYESTER(MYLAR) 0.022MF 100V K            |
| C518     | 0CQ2231N509 | C,POLYESTER(MYLAR) 0.022MF 100V K            |
| C521     | 0CC2210K415 | C,CERAMIC(TEMP COMP) 220P 50V J NPO TP       |
| C522     | 0CC1800K415 | C,CERAMIC(TEMP COMP) 18P 50V J               |
| C523     | 0CQ1021N509 | C,POLYESTER(MYLAR) 0.001U 100V K             |
| C524     | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K               |
| C525     | 0CN1040K949 | C,TUBULA(HIGH DIELE) 0.1M 50V Z              |
| C526     | 0CE107DF618 | C,ELECTROLYTIC 100UF STD 16V M               |
| C527     | 0CE106DF618 | C,ELECTROLYTIC 10UF STD 16V M                |
| C528     | 0CN1010K519 | C,TUBULA(HIGH DIELE) 100PF 50V K             |
| C531     | 0CE104DK618 | C,ELECTROLYTIC 0.1UF STD 50V M               |
| C532     | 0CQ2721N409 | C,POLYESTER(MYLAR) 2700PF 100V J             |
| C533     | 0CE105DK618 | C,ELECTROLYTIC 1UF STD 50V M                 |
| C534     | 0CQ4721N509 | C,POLYESTER(MYLAR) 0.0047U 100V K            |
| C535     | 0CN1020K519 | C,TUBULA(HIGH DIELE) 1000PF 50V K            |
| C536     | 0CN1020K519 | C,TUBULA(HIGH DIELE) 1000PF 50V K            |
| C537     | 0CN1020K519 | C,TUBULA(HIGH DIELE) 1000PF 50V K            |
| C538     | 0CQ1041N455 | C,POLYESTER(MYLAR) 0.1000UF 100V J           |
| C539     | 181-007F    | C,MPE 50V 0.22UF J                           |
| C540     | 0CSZTA001C  | C,TANTALUM                                   |
| C541     | 0CQ2231N509 | C,POLYESTER(MYLAR) 0.022MF 100V K            |
| C542     | 0CQ3321N509 | C,POLYESTER(MYLAR) 0.0033U 100V K *STEREO    |
| "        | 0CQ3921N409 | C,POLYESTER(MYLAR) 0.0039U 100V J *MONO      |
| C543     | 0CE106DF618 | C,ELECTROLYTIC 10UF STD 16V M                |
| C544     | 181-007H    | CAPACITOR MPE 50V 0.47UF J                   |
| C545     | 0CE105DK618 | C,ELECTROLYTIC 1UF STD 50V M                 |
| C548     | 0CE105DK618 | C,ELECTROLYTIC 1UF STD 50V M                 |
| C550     | 0CN8200K519 | C,TUBULA(HIGH DIELE) 82P 50V K B             |
| C551     | 0CN8200K519 | C,TUBULA(HIGH DIELE) 82P 50V K B             |
| C552     | 0CN8200K519 | C,TUBULA(HIGH DIELE) 82P 50V K B             |
| C553     | 0CE335DK618 | C,ELECTROLYTIC 3.3UF STD 50V M               |
| C601     | 0CQ1031N509 | C,POLYESTER(MYLAR) 0.01U 100V K              |
| "        | 0CQ6821N509 | C,POLYESTER(MYLAR) 0.0068U 100V K *RF.STEREO |
| C602     | 0CE684DK618 | C,ELECTROLYTIC 0.68UF STD 50V M              |
| C603     | 0CE107DH618 | C,ELECTROLYTIC 100UF STD 25V M               |
| C604     | 0CQ1031N509 | C,POLYESTER(MYLAR) 0.01U 100V K              |
| "        | 0CQ6821N509 | C,POLYESTER(MYLAR) 0.0068U 100V K *RF.STEREO |
| C605     | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K               |
| C606     | 0CE107DH618 | C,ELECTROLYTIC 100UF STD 25V M               |
| C607     | 0CE106DH618 | C,ELECTROLYTIC 10UF STD 25V M                |
| C608     | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K               |
| "        | 0CQ1041N509 | C,POLYESTER(MYLAR) 0.1UF 100V K *RF STEREO   |
| C609     | 0CE477DK618 | C,ELECTROLYTIC 470UF STD 50V M *STEREO       |
| "        | 0CE227DJ618 | C,ELECTROLYTIC 220UF STD 35V M *MONO         |
| C610     | 0CE107DH618 | C,ELECTROLYTIC 100UF STD 25V M               |
| C611     | 0CE684DK618 | C,ELECTROLYTIC 0.68UF STD 50V M              |
| C612     | 0CE477DJ618 | C,ELECTROLYTIC 470UF STD 35V M               |
| C613     | 0CN1030F679 | C,TUBULA(HIGH DIELE) 0.01MF 16V M            |
| C614     | 0CE477DJ618 | C,ELECTROLYTIC 470UF STD 35V M *STEREO       |

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Replace only with part number specified.

| LOCA. NO | PART NO     | DESCRIPTION                                 |
|----------|-------------|---------------------------------------------|
| "        | 0CE108DJ618 | C,ELECTROLYTIC 1000UF STD 35V M *MONO       |
| C615     | 0CE477DH618 | C,ELECTROLYTIC 470UF STD 25V M              |
| C630     | 0CQ1031N509 | C,POLYESTER(MYLAR) 0.01U 100V K             |
| C631     | 0CE225DK618 | C,ELECTROLYTIC 2.2UF STD 50V M              |
| C632     | 0CE336DK618 | C,ELECTROLYTIC 33UF STD 50V M               |
| C633     | 0CE225DK618 | C,ELECTROLYTIC 2.2UF STD 50V M              |
| C634     | 0CE107DD618 | C,ELECTROLYTIC 100UF STD 10V M              |
| C651     | 0CE106DF618 | C,ELECTROLYTIC 10UF STD 16V M               |
| C652     | 0CX4700K409 | C,TUBULA(T.C) 47PF 50V J                    |
| C653     | 0CX4700K409 | C,TUBULA(T.C) 47PF 50V J                    |
| C657     | 0CX4700K409 | C,TUBULA(T.C) 47PF 50V J                    |
| C658     | 0CN1010K519 | C,TUBULA(HIGH DIELE) 100PF 50V K            |
| C659     | 0CN1040K949 | C,TUBULA(HIGH DIELE) 0.1M 50V Z             |
| C661     | 0CE476DF618 | C,ELECTROLYTIC 47UF STD 16V M               |
| C662     | 0CN1010K519 | C,TUBULA(HIGH DIELE) 100P 50V K             |
| C680     | 0CQ6831N509 | C,POLYESTER(MYLAR) 0.068MF 100V K           |
| C681     | 0CE334DK618 | C,ELECTROLYTIC 0.33UF STD 50V M             |
| C682     | 0CE476DD618 | C,ELECTROLYTIC 47UF STD 10V M               |
| C683     | 0CE106DF618 | C,ELECTROLYTIC 10UF STD 16V M               |
| C685     | 0CE107DF618 | C,ELECTROLYTIC 100UF STD 16V M              |
| C686     | 0CN1040K949 | C,TUBULA 0.1UF 50V Z                        |
| C688     | 0CE476DF618 | C,ELECTROLYTIC 47UF STD 16V M               |
| C741     | 0CQ1531N509 | C,POLYESTER(MYLAR) 0.015MF 100V K           |
| C743     | 0CK4710W515 | C,CERAMIC(HIGH DIELE) 470PF 500V K          |
| C744     | 0CE475DR618 | C,ELECTROLYTIC 4.7UF STD 250V M             |
| C745     | 0CK4710W515 | C,CERAMIC(HIGH DIELE) 470PF 500V K          |
| C746     | 0CE337DH618 | C,ELECTROLYTIC 330UF STD 25V M              |
| C747     | 0CK4710W515 | C,CERAMIC(HIGH DIELE) 470PF 500V K          |
| C748     | 0CE107DN618 | C,ELECTROLYTIC 100UF STD 100V M             |
| C749     | 181-009V    | C,PP 200V 0.047UF K                         |
| C750     | 0CE335DK618 | C,ELECTROLYTIC 3.3UF STD 50V M              |
| C751     | 0CQ1031N509 | C,POLYESTER(MYLAR) 0.01U 100V K             |
| "(14")   | 0CQ2231N509 | C,POLYESTER(MYLAR) 0.022U 100V K            |
| C752     | 0CE107DH618 | C,ELECTROLYTIC 100UF STD 25V M              |
| C753     | 0CE474DK618 | C,ELECTROLYTIC 0.47UF STD 50V M             |
| C757     | 0CE226DF618 | C,ELECTROLYTIC 22UF STD 16V M               |
| C80      | 0CN1030F679 | C,TUBULA(HIGH DIELE) 0.01MF 16V M           |
| C801     | 0CE107BJ618 | C,ELECTROLYTIC 100UF KME 35V M              |
| C802     | 181-091U    | CAPACITOR 2KV R 221K *STEREO                |
| "        | 181-091N    | CAPACITOR 1KV SL 101J *MONO                 |
| C803     | 181-091Q    | CAPACITOR 1KV R 471K *STEREO                |
| "        | 0CK5610W515 | C,ELECTROLYTIC 560P 500V K *MONO            |
| C804     | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K              |
| C805     | 0CE227DF618 | C,ELECTROLYTIC 220UF STD 16V M              |
| △ C806   | 181-001V    | C,AL.ELECTROLYTIC 450V 220UF M *STAN.NORMAL |
| "        | 0CEZVBK002A | C,AL.ELECTROLYTIC 450V 150UF M              |
| C807     | 0CK10201515 | C,CERAMIC(HIGH DIELE) 1000P 1KV K           |
| C808     | 181-091R    | CAPACITOR 1KV R 102K TP5                    |
| △ C809   | 0CQZVBK002C | C,POLYESTER A.C 275V 0.22UF K               |
| C81      | 0CE476DF618 | C,ELECTROLYTIC 47UF STD 16V M               |
| △ C810   | 0CQZVBK002D | C,POLYESTER A.C 275V 0.47UF K *STEREO       |
| "        | 0CQZVBK002C | C,POLYESTER A.C 275V 0.22UF K *MONO         |

| LOCA. NO                      | PART NO     | DESCRIPTION                        |
|-------------------------------|-------------|------------------------------------|
| △ C811                        | 181-120D    | C,ACT 4KV E 102M *STEREO           |
| "                             | 181-120E    | C,ACT 4KV E 222M *MONO             |
| △ C812                        | 181-120D    | C,ACT 4KV E 102M FL10              |
| C813                          | 0CK4710W515 | C,CERAMIC(HIGH DIELE) 470PF 500V K |
| C814                          | 0CE108DK61A | C,ELECTROLYTIC 1000UF STD 50V M    |
| C815                          | 181-091Q    | CAPACITOR 1KV R 471K TP5           |
| C816                          | 0CE228BF618 | C,ELECTROLYTIC 2200UF KME 16V M    |
| C817                          | 181-091Q    | CAPACITOR 1KV R 471K TP5           |
| C818                          | 0CE107DH618 | C,ELECTROLYTIC 100UF STD 25V M     |
| C819                          | 181-091R    | CAPACITOR 1KV R 102K TP5           |
| C820                          | 0CE227DP61A | C,ELECTROLYTIC 220UF STD 160V M    |
| C821                          | 0CE1071P61A | C,ELECTROLYTIC 100UF SM 160V M     |
| C822                          | 0CE107DD618 | C,ELECTROLYTIC 100UF STD 10V M     |
| C823                          | 0CK4710K515 | C,CERAMIC(HIGH DIELE) 470P 50V K   |
| C824                          | 0CE477DJ618 | C,ELECTROLYTIC 470UF STD 35V M     |
| C825                          | 181-091P    | CAPACITOR 1KV SL 271J              |
| C829                          | 181-011B    | CAPACITOR PP 1600V 0.001UF J       |
| C830                          | 0CE475DK618 | C,ELECTROLYTIC 4.7UF STD 50V M     |
| C904                          | 0CQZVBK002A | C,POLYESTER A.C 275V 0.1UF M       |
| C905                          | 0CE106DR618 | C,ELECTROLYTIC 10UF STD 250V M     |
| C906                          | 0CE475DR618 | C,ELECTROLYTIC 4.7UF STD 250V M    |
| C907                          | 181-033S    | CAPACITOR 2KV B 122K TP7.5         |
| J123                          | 0CN1510K519 | C,TUBULA(HIGH DIELE) 150P 50V K    |
| <b>CORE</b>                   |             |                                    |
| FB741                         | 125-022K    | CORE,FERRITE 1UH                   |
| FB801                         | 125-022K    | CORE,FERRITE 1UH                   |
| FB802                         | 125-022K    | CORE,FERRITE 1UH                   |
| FB803                         | 125-123A    | CORE,FERRITE BFD3565R2F            |
| FB804                         | 125-022K    | CORE,FERRITE 1UH                   |
| <b>COIL &amp; TRANSFORMER</b> |             |                                    |
| J72                           | 0LA0102K119 | INDUCTOR,10UH K                    |
| L02                           | 0LA0102K119 | INDUCTOR,10UH K                    |
| L03                           | 0LA0102K119 | INDUCTOR,10UH K                    |
| L101                          | 150-C01G    | COIL,CHOKE 1.0UH A 1105            |
| L231                          | 0LA0101K119 | INDUCTOR,1UH K                     |
| L301                          | 0LA0102K139 | INDUCTOR,10UH K                    |
| L302                          | 0LA0102K139 | INDUCTOR,10UH K                    |
| L401                          | 150-L02C    | COIL,H-LINEARITY 170UH             |
| "(14")                        | 150-L01W    | COIL,H-LINEARITY 57UH              |
| "(14")                        | 150-L02A    | COIL,H-LINEARITY 160UH *ORION      |
| L503                          | 0LA0681K119 | INDUCTOR,6.8UH K                   |
| L504                          | 0LA0561K119 | INDUCTOR,5.6UH K                   |
| L507                          | 0LA1000K119 | INDUCTOR,100UH K                   |
| L508                          | 0LA1000K119 | INDUCTOR,100UH K                   |
| L510                          | 0LA0102K119 | INDUCTOR,10UH K                    |
| L521                          | 0LA0561K119 | INDUCTOR,5.6UH K                   |
| L522                          | 0LA0561K119 | INDUCTOR,5.6UH K                   |
| L523                          | 0LA0561K119 | INDUCTOR,5.6UH K                   |
| L651                          | 0LA0222K119 | INDUCTOR,22UH K                    |
| L652                          | 0LA0122K119 | INDUCTOR,12UH K                    |

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Replace only with part number specified.

| LOCA. NO                                                                                  | PART NO     | DESCRIPTION                          |
|-------------------------------------------------------------------------------------------|-------------|--------------------------------------|
| L802                                                                                      | 150-C02F    | COIL,CHOKE 82UH R1217                |
| L901                                                                                      | 150-C02A    | COIL,CHOKE 10UH R0814                |
| R45                                                                                       | 0LA0102K119 | INDUCTOR,10UH K                      |
| R47                                                                                       | 0LA0102K119 | INDUCTOR,10UH K                      |
| R49                                                                                       | 0LA0102K119 | INDUCTOR,10UH K                      |
|  T401    | 6170VC0003A | TRANSFORER,HORIZONTAL 10*12          |
| T802                                                                                      | 151-A13D    | TRANSFORER,SMPS EER-4215.            |
| <b>JACK</b>                                                                               |             |                                      |
| PJ201                                                                                     | 6612VJH004A | JACK,RCA PJ6056A 6P STEREO           |
| "                                                                                         | 6612VJH004B | JACK,RCA PJ6056B 4P MONO             |
| PJ241                                                                                     | 6613V00006A | JACK ASS,3P+EAR(PJ6062A)             |
| "                                                                                         | 6613V00006B | JACK ASS,2P+EAR(PJ6062B)             |
| <b>RESISTOR</b>                                                                           |             |                                      |
| AR01                                                                                      | 180-E01K    | ARRAY 4700 OHM 5% 1.778P 4.7K*8 1/8W |
| AR02                                                                                      | 180-E01K    | ARRAY 4700 OHM 5% 1.778P 4.7K*8 1/8W |
| D02                                                                                       | 0RD1002F609 | R,CARBON FILM 10K 1/6W 5%            |
| FR601                                                                                     | 0RF0470H609 | R,FUSIBLE 0.47 1/2W 5%               |
| FR602                                                                                     | 0RF0470J607 | R,FUSIBLE 0.47 1W 5%                 |
|  FR742 | 0RF0470J607 | R,FUSIBLE 0.47 1W 5%                 |
|  FR743 | 0RF0470J607 | R,FUSIBLE 0.47 1W 5%                 |
|  FR802 | 0RF0470H609 | R,FUSIBLE 0.47 1/2W 5%               |
| FR901                                                                                     | 0RF0201K607 | R,FUSIBLE 2 2W 5%                    |
| "(14")                                                                                    | 0RF0241K607 | R,FUSIBLE 2.40 2W 5%                 |
| "(14")                                                                                    | 0RF0331K607 | R,FUSIBLE 3.30 2W 5% *ORION          |
| L680                                                                                      | 0RD3600F609 | R,CARBON FILM 360 1/6W 5             |
| R01                                                                                       | 0RD2200F609 | R,CARBON FILM 220 1/6W 5             |
| R02                                                                                       | 0RD6200F609 | R,CARBON FILM 620 1/6W 5             |
| R04                                                                                       | 0RD1002F609 | R,CARBON FILM 10K 1/6W 5             |
| R08                                                                                       | 0RD4701F609 | R,CARBON FILM 4.7K 1/6W 5            |
| R10                                                                                       | 0RD4701F609 | R,CARBON FILM 4.7K 1/6W 5            |
| R101                                                                                      | 0RD1202F609 | R,CARBON FILM 12K 1/6W 5             |
| R102                                                                                      | 0RD1002F609 | R,CARBON FILM 10K 1/6W 5             |
| R103                                                                                      | 0RD1802F609 | R,CARBON FILM 18K 1/6W 5             |
| R106                                                                                      | 0RD0562H609 | R,CARBON FILM 56 1/2W 5              |
| R107                                                                                      | 0RD0562H609 | R,CARBON FILM 56 1/2W 5              |
| R108                                                                                      | 0RD0682F609 | R,CARBON FILM 68 1/6W 5              |
| R109                                                                                      | 0RD1001F609 | R,CARBON FILM 1.0K 1/6W 5            |
| R110                                                                                      | 0RD5101F609 | R,CARBON FILM 5.1K 1/6W 5            |
| R111                                                                                      | 0RD2200F609 | R,CARBON FILM 220 1/6W 5             |
| R112                                                                                      | 0RD1000F609 | R,CARBON FILM 100 1/6W 5             |
| R113                                                                                      | 0RD2201F609 | R,CARBON FILM 2.2K 1/6W 5            |
| R115                                                                                      | 0RD0562F609 | R,CARBON FILM 56 1/6W 5              |
| R116                                                                                      | 0RD6801F609 | R,CARBON FILM 6.8K 1/6W 5            |
| R117                                                                                      | 0RD2201F609 | R,CARBON FILM 2.2K 1/6W 5            |
| R118                                                                                      | 0RD6800F609 | R,CARBON FILM 680 1/6W 5             |
| R119                                                                                      | 0RD4701F609 | R,CARBON FILM 4.7K 1/6W 5            |
| R120                                                                                      | 0RD4701F609 | R,CARBON FILM 4.7K 1/6W 5            |
| R17                                                                                       | 0RD4702F609 | R,CARBON FILM 47K 1/6W 5             |
| R18                                                                                       | 0RD1002F609 | R,CARBON FILM 10K 1/6W 5             |
| R19                                                                                       | 0RD4701F609 | R,CARBON FILM 4.7K 1/6W 5            |

| LOCA. NO  | PART NO     | DESCRIPTION                         |
|-----------|-------------|-------------------------------------|
| R20       | 0RD0102F609 | R,CARBON FILM 10 1/6W 5             |
| R201      | 0RD3302F609 | R,CARBON FILM 33K 1/6W 5            |
| R202      | 0RD2200F609 | R,CARBON FILM 220 1/6W 5            |
| R203      | 0RD3302F609 | R,CARBON FILM 33K 1/6W 5            |
| R204      | 0RD1001F609 | R,CARBON FILM 1.0K 1/6W 5           |
| R205      | 0RD1000F609 | R,CARBON FILM 100 1/6W 5            |
| R206      | 0RD1000F609 | R,CARBON FILM 100 1/6W 5            |
| R207      | 0RD0472H609 | R,CARBON FILM 47 1/2W 5             |
| R21       | 0RD1001F609 | R,CARBON FILM 1.0K 1/6W 5           |
| R22       | 0RD1002F609 | R,CARBON FILM 10K 1/6W 5            |
| R23       | 0RD1200F609 | R,CARBON FILM 120 1/6W 5            |
| R231      | 0RD0752F609 | R,CARBON FILM 75 1/6W 5             |
| R232      | 0RD0752F609 | R,CARBON FILM 75 1/6W 5             |
| R233      | 0RD0752F609 | R,CARBON FILM 75 1/6W 5             |
| R235      | 0RD0562F609 | R,CARBON FILM 56 1/6W 5             |
| R236      | 0RD0752F609 | R,CARBON FILM 75 1/6W 5             |
| R237      | 0RD1001F609 | R,CARBON FILM 1.0K 1/6W 5           |
| R238      | 0RD1001F609 | R,CARBON FILM 1.0K 1/6W 5           |
| R240      | 0RD0752F609 | R,CARBON FILM 75 1/6W 5             |
| R241      | 0RD2203F609 | R,CARBON FILM 220K 1/6W 5           |
| R242      | 0RD1001F609 | R,CARBON FILM 1.0K 1/6W 5           |
| R243      | 0RD1001F609 | R,CARBON FILM 1.0K 1/6W 5           |
| R244      | 0RD2203F609 | R,CARBON FILM 220K 1/6W 5           |
| R25       | 0RD1000F609 | R,CARBON FILM 100 1/6W 5            |
| R26       | 0RD1001F609 | R,CARBON FILM 1.0K 1/6W 5           |
| R27       | 0RD1001F609 | R,CARBON FILM 1.0K 1/6W 5           |
| R290      | 0RD5100H609 | R,CARBON FILM 510 1/2W 5 *AV2 ST+HP |
| "         | 0RD3300H609 | R,CARBON FILM 330 1/2W 5            |
| R291      | 0RD5100H609 | R,CARBON FILM 510 1/2W 5 *AV2 ST+HP |
| "         | 0RD3300H609 | R,CARBON FILM 330 1/2W 5            |
| R301      | 0RN2701F409 | R,METAL FILM 2.7K 1/6W 1%           |
| "(14")    | 0RN1801F409 | R,METAL FILM 1.8K 1/6W 1%           |
| "(14")    | 0RN2001F409 | R,METAL FILM 2K 1/6W 1% *ORION      |
| "(21")    | 0RN3301F409 | R,METAL FILM 3.3K 1/6W 1%           |
| R302(20") | 0RD1303F609 | R,CARBON FILM 130K 1/6W 5           |
| "(14")    | 0RD1203F609 | R,CARBON FILM 120K 1/6W 5           |
| "(21")    | 0RD1503F609 | R,CARBON FILM 150K 1/6W 5           |
| R303      | 0RD2203F609 | R,CARBON FILM 220K 1/6W 5           |
| R304(20") | 0RN0121J607 | R,METAL FILM 1.20 1W 5% TA62        |
| "(14")    | 0RN0680J607 | R,METAL FILM 0.68 1W 5% TA62        |
| "(14")    | 0RN0101J607 | R,METAL FILM 1 1W 5% TA62 *ORION    |
| "(21")    | 0RN0680J607 | R,METAL FILM 0.68 1W 5% TA62        |
| R305      | 0RD0202F609 | R,CARBON FILM 20 1/6W 5 TA52        |
| R306      | 0RS1800K607 | R,METAL FILM OXIDE 180 2W 5%        |
| "(14,21") | 0RS2200K607 | R,METAL FILM OXIDE 220 2W 5%        |
| R307      | 0RN3602F409 | R,METAL FILM 36K 1/6W 1% TA52       |
| "(14")    | 0RN3901F409 | R,METAL FILM 3.90K 1/6W 1% TA52     |
| "(14")    | 0RN4702F409 | R,METAL FILM 47K 1/6W 1% *ORION     |
| "(21")    | 0RN3301F409 | R,METAL FILM 3.3K 1/6W 1% TA52      |
| R308      | 0RD0562H609 | R,CARBON FILM 56 1/2W 5             |
| "(14")    | 0RD0752H609 | R,CARBON FILM 75 1/2W 5             |
| R309      | 0RD0562H609 | R,CARBON FILM 56 1/2W 5             |

| LOCA. NO | PART NO     | DESCRIPTION                          |
|----------|-------------|--------------------------------------|
| "(14")   | ORD0752H609 | R,CARBON FILM 75 1/2W 5              |
| R32      | ORD2401F609 | R,CARBON FILM 2.4K 1/6W 5            |
| R33      | ORD1000F609 | R,CARBON FILM 100 1/6W 5             |
| R35      | ORD1001F609 | R,CARBON FILM 1.0K 1/6W 5            |
| R401     | ORD1501H609 | R,CARBON FILM 1.5K 1/2W 5            |
| R402     | ORS2702K607 | R,METAL FILM OXIDE 27K 2W 5%         |
| "(14")   | ORS2202K607 | R,METAL FILM OXIDE 22K 2W 5%         |
| R42      | ORD1000F609 | R,CARBON FILM 100 1/6W 5             |
| R501     | ORD3900F609 | R,CARBON FILM 390 1/6W 5             |
| R502     | ORD1500F609 | R,CARBON FILM 150 1/6W 5             |
| R503     | ORD1002F609 | R,CARBON FILM 10K 1/6W 5             |
| R504     | ORD4702F609 | R,CARBON FILM 47K 1/6W 5             |
| R505     | ORD3001F609 | R,CARBON FILM 3.0K 1/6W 5            |
| R506     | ORD1002F609 | R,CARBON FILM 10K 1/6W 5             |
| R508     | ORD3300F609 | R,CARBON FILM 330 1/6W 5             |
| R510     | ORD1200F609 | R,CARBON FILM 120 1/6W 5             |
| R513     | ORD1003F609 | R,CARBON FILM 100K 1/6W 5            |
| R52      | ORD1000F609 | R,CARBON FILM 100 1/6W 5             |
| R520     | ORD1200F609 | R,CARBON FILM 120 1/6W 5             |
| R521     | ORD2200F609 | R,CARBON FILM 220 1/6W 5             |
| R522     | ORD2200F609 | R,CARBON FILM 220 1/6W 5             |
| R525     | ORD1002F609 | R,CARBON FILM 10K 1/6W 5             |
| R531     | ORD2403F609 | R,CARBON FILM 240K 1/6W 5            |
| "(14")   | ORD1303F609 | R,CARBON FILM 130K 1/6W 5            |
| R532     | ORD1001F609 | R,CARBON FILM 1.0K 1/6W 5            |
| R533     | ORD1001F609 | R,CARBON FILM 1.0K 1/6W 5            |
| R534     | ORD1001F609 | R,CARBON FILM 1.0K 1/6W 5            |
| R535     | ORD1501F609 | R,CARBON FILM 1.5K 1/6W 5            |
| R536     | ORD1503F609 | R,CARBON FILM 150K 1/6W 5            |
| R538     | ORD1000F609 | R,CARBON FILM 100 1/6W 5             |
| R549     | ORD3001F609 | R,CARBON FILM 3.0K 1/6W 5            |
| R550     | ORD2702F609 | R,CARBON FILM 27K 1/6W 5             |
| R551     | ORD1502F609 | R,CARBON FILM 15K 1/6W 5             |
| R552     | ORD1502F609 | R,CARBON FILM 15K 1/6W 5             |
| R554     | ORD9102F609 | R,CARBON FILM 91K 1/6W 5             |
| R555     | ORN3902F409 | R, METAL FILM 39K 1/6W 1%            |
| R556     | ORD1201F609 | R,CARBON FILM 1.2K 1/6W 5            |
| R562     | ORD1000F609 | R,CARBON FILM 150 1/6W 5             |
| R566     | ORD1001F609 | R,CARBON FILM 1.0K 1/6W 5            |
| R567     | ORD2201F609 | R,CARBON FILM 2.2K 1/6W 5            |
| R568     | ORD5600F609 | R,CARBON FILM 560 1/6W 5             |
| R58      | ORD4701F609 | R,CARBON FILM 4.7K 1/6W 5            |
| R59      | ORD2200F609 | R,CARBON FILM 220 1/6W 5             |
| R601     | ORD4701F609 | R,CARBON FILM 4.7K 1/6W 5            |
| "        | ORD3901F609 | R,CARBON FILM 3.9K 1/6W 5 *RF STEREO |
| R602     | ORD2701F609 | R,CARBON FILM 2.7K 1/6W 5            |
| "        | ORD1801F609 | R,CARBON FILM 1.8K 1/6W 5 *RF STEREO |
| R603     | ORD0331H609 | R,CARBON FILM 3.3 1/2W 5             |
| R604     | ORD4701F609 | R,CARBON FILM 4.7K 1/6W 5            |
| "        | ORD3901F609 | R,CARBON FILM 3.9K 1/6W 5 *RF STEREO |
| R606     | ORD0331H609 | R,CARBON FILM 3.3 1/2W 5             |
| R608     | ORD2701F609 | R,CARBON FILM 2.7K 1/6W 5            |
| "        | ORD1801F609 | R,CARBON FILM 1.8K 1/6W 5 *RF STEREO |
| R610     | ORD1001F609 | R,CARBON FILM 1.0K 1/6W 5            |
| R612     | ORD1500F609 | R,CARBON FILM 150 1/6W 5             |
| R613     | ORD6802F609 | R,CARBON FILM 68K 1/6W 5             |

| LOCA. NO | PART NO     | DESCRIPTION                  |
|----------|-------------|------------------------------|
| R615     | ORD1003F609 | R,CARBON FILM 100K 1/6W 5    |
| R616     | ORD1003F609 | R,CARBON FILM 100K 1/6W 5    |
| R63      | ORD2200F609 | R,CARBON FILM 220 1/6W 5     |
| R631     | ORD3001F609 | R,CARBON FILM 3K 1/6W 5      |
| R632     | ORD3901F609 | R,CARBON FILM 3.9K 1/6W 5    |
| R633     | ORD1003F609 | R,CARBON FILM 100K 1/6W 5    |
| R634     | ORD6801F609 | R,CARBON FILM 6.8K 1/6W 5    |
| R635     | ORD1001F609 | R,CARBON FILM 1.0K 1/6W 5    |
| R637     | ORD1003F609 | R,CARBON FILM 100K 1/6W 5    |
| R651     | ORD2200F609 | R,CARBON FILM 220 1/6W 5     |
| R652     | ORD1501F609 | R,CARBON FILM 1.5K 1/6W 5    |
| R653     | ORD4700F609 | R,CARBON FILM 470 1/6W 5     |
| R654     | ORD3301F609 | R,CARBON FILM 3.3K 1/6W 5    |
| R655     | ORD9101F609 | R,CARBON FILM 9.1K 1/6W 5    |
| R656     | ORD1500F609 | R,CARBON FILM 150 1/6W 5     |
| R657     | ORD1002F609 | R,CARBON FILM 10K 1/6W 5     |
| R658     | ORD2200F609 | R,CARBON FILM 220 1/6W 5     |
| R659     | ORD3000F609 | R,CARBON FILM 300 1/6W 5     |
| R660     | ORD2200F609 | R,CARBON FILM 220 1/6W 5     |
| R662     | ORD2400F609 | R,CARBON FILM 240 1/6W 5     |
| R663     | ORD1001F609 | R,CARBON FILM 1.0K 1/6W 5    |
| R664     | ORD1001F609 | R,CARBON FILM 1.0K 1/6W 5    |
| R665     | ORD1002F609 | R,CARBON FILM 10K 1/6W 5     |
| R666     | ORD1000F609 | R,CARBON FILM 100 1/6W 5     |
| R667     | ORD1002F609 | R,CARBON FILM 10K 1/6W 5     |
| R668     | ORD1000F609 | R,CARBON FILM 100 1/6W 5     |
| R68      | ORD1000F609 | R,CARBON FILM 100 1/6W 5     |
| R680     | ORD3902F609 | R,CARBON FILM 39K 1/6W 5     |
| R681     | ORD4703F609 | R,CARBON FILM 470K 1/6W 5    |
| R682     | ORD1502F609 | R,CARBON FILM 15K 1/6W 5     |
| R686     | ORD1003F609 | R,CARBON FILM 100K 1/6W 5    |
| R687     | ORD4702F609 | R,CARBON FILM 47K 1/6W 5     |
| R688     | ORD4702F609 | R,CARBON FILM 47K 1/6W 5     |
| R689     | ORD2201F609 | R,CARBON FILM 2.2K 1/6W 5    |
| R690     | ORD8201F609 | R,CARBON FILM 8.2K 1/6W 5    |
| R70      | ORD1000F609 | R,CARBON FILM 100 1/6W 5     |
| R72      | ORD1000F609 | R,CARBON FILM 100 1/6W 5     |
| R74      | ORD1000F609 | R,CARBON FILM 100 1/6W 5     |
| R742     | ORD5100H609 | R,CARBON FILM 510 1/2W 5     |
| R745     | ORS0332H609 | R,METAL FILM OXIDE 33 1/2W 5 |
| R746     | ORD1001F609 | R,CARBON FILM 1.0K 1/6W 5    |
| R747     | ORD5101F609 | R,CARBON FILM 5.1K 1/6W 5    |
| "(14")   | ORD6801F609 | R,CARBON FILM 6.8K 1/6W 5    |
| "(21")   | ORD5101F609 | R,CARBON FILM 5.1K 1/6W 5    |
| R750     | ORD4701H609 | R,CARBON FILM 4.7K 1/2W 5    |
| R752     | ORD1201H609 | R,CARBON FILM 1.2K 1/2W 5    |
| R753     | ORD8201H609 | R,CARBON FILM 8.2K 1/2W 5    |
| R754     | ORD2001F609 | R,CARBON FILM 2.0K 1/6W 5    |
| R801     | ORD2701F609 | R,CARBON FILM 2.7K 1/6W 5    |
| R802     | ORD2201F609 | R,CARBON FILM 2.2K 1/6W 5    |
| R803     | ORD6800F609 | R,CARBON FILM 680 1/6W 5     |
| R804     | ORD4701F609 | R,CARBON FILM 4.7K 1/6W 5    |

The components identified by shading and mark **△** are critical for safety.  
Replace only with part number specified.

| LOCA. NO                    | PART NO            | DESCRIPTION                              |
|-----------------------------|--------------------|------------------------------------------|
| R805                        | 180-A01P           | R,CEMENT 0.13 OHM 2 W 5% *STEREO         |
| "                           | 180-A01N           | R,CEMENT 0.18 OHM 2 W 5% *MONO           |
| R806                        | 0RD2401F609        | R,CARBON FILM 2.4K 1/6W 5                |
| R808                        | 0RD1001F609        | R,CARBON FILM 1.0K 1/6W 5                |
| R809                        | 0RS4702K607        | R,METAL FILM OXIDE 47K 2W 5%             |
| R811                        | 180-822N           | R,RWR 7W 1.0 OHM J PD                    |
| <b>△</b> R812               | <b>180-C02H</b>    | <b>R,CARBON COMPOSIT RC 1/2W 8.2M K</b>  |
| R813                        | 0RS0101H609        | R,METAL FILM OXIDE 1.0 1/2W 5            |
| R814                        | 0RD4702F609        | R,CARBON FILM 47K 1/6W 5                 |
| R815                        | 0RD0272H609        | R,CARBON FILM 27 1/2W 5*STEREO           |
| "                           | 0RD0182H609        | R,CARBON FILM 18 1/2W 5 *MONO            |
| R816                        | 0RD2001F609        | R,CARBON FILM 2.0K 1/6W 5                |
| R817                        | 0RS2202K607        | R,METAL FILM OXIDE 22K 2W 5%             |
| R90                         | 0RD6200F609        | R,CARBON FILM 620 1/6W 5                 |
| R901                        | 0RD2200F609        | R,CARBON FILM 220 1/6W 5                 |
| R902                        | 0RD2200F609        | R,CARBON FILM 220 1/6W 5                 |
| R903                        | 0RD2200F609        | R,CARBON FILM 220 1/6W 5                 |
| R904(14")                   | 0RD2200F609        | R,CARBON FILM 220 1/6W 5                 |
| R905(14")                   | 0RD2200F609        | R,CARBON FILM 220 1/6W 5                 |
| R907                        | 0RS1501H609        | R,METAL FILM OXIDE 1.5K 1/2W 5           |
| R908                        | 0RS1501H609        | R,METAL FILM OXIDE 1.5K 1/2W 5           |
| R909                        | 0RS1501H609        | R,METAL FILM OXIDE 1.5K 1/2W 5           |
| R911                        | 0RD2204H609        | R,CARBON FILM 2.2M 1/2W 5                |
| <b>SWITCH</b>               |                    |                                          |
| SW01                        | 140-315A           | SWITCH,TACT VERT                         |
| SW02                        | 140-315A           | SWITCH,TACT VERT                         |
| SW03                        | 140-315A           | SWITCH,TACT VERT                         |
| SW04                        | 140-315A           | SWITCH,TACT VERT                         |
| SW05                        | 140-315A           | SWITCH,TACT VERT                         |
| SW06                        | 140-315A           | SWITCH,TACT VERT                         |
| <b>△</b> SW801              | <b>6600VM2002A</b> | <b>SWITCH,PUSH SDKEA3 4A/128A250V 6.</b> |
| <b>FILTER &amp; CRYSTAL</b> |                    |                                          |
| T501                        | 166-C04C           | FILTER,TRAP TPWA02B-TF21(5.5/6.5)        |
| T502                        | 166-C02C           | FILTER,TRAP TPS5.5MB-TF21                |
| T503                        | 166-C02D           | FILTER,TRAP TPS6.0MB-TF21                |
| T504                        | 166-C02B           | FILTER,TRAP TPS4.5MB-TF21                |
| T801                        | 150-F06W           | FILTER(CIRC),LINE SQE2930 36MH           |
| X501                        | 156-A01C           | CRYSTAL,3.579545 90 OHM                  |
| X502                        | 156-A05C           | CRYSTAL,STD 10083132                     |
| Z101                        | 166-A01M           | FILTER,0FWK6265K(MONO)                   |
| Z651                        | 166-B02C           | FILTER,B.P FILTER SFSH5.5MCB-TF21        |
| Z652                        | 166-B02E           | FILTER,B.P FILTER SFSH6.5MCB-TF21        |
| Z653                        | 166-B02D           | FILTER,B.P FILTER SFSH6.0MCB-TF21        |
| Z654                        | 166-B02A           | FILTER,B.P FILTER SFSH4.5MCB-TF21        |
| <b>SUB (TELETEXT) BOARD</b> |                    |                                          |
| C702                        | 0CN1030F679        | C,TUBULA(HIGH DIELE) 0.01MF 16V M        |
| C703                        | 0CE107DF618        | C,ELECTROLYTIC 100UF STD 16V M           |
| C704                        | 0CX1800K409        | C,TUBULA(T.C) 18PF 50V J                 |
| C705                        | 0CX8R20K509        | C,TUBULA(T.C) 8.2P 50V K                 |

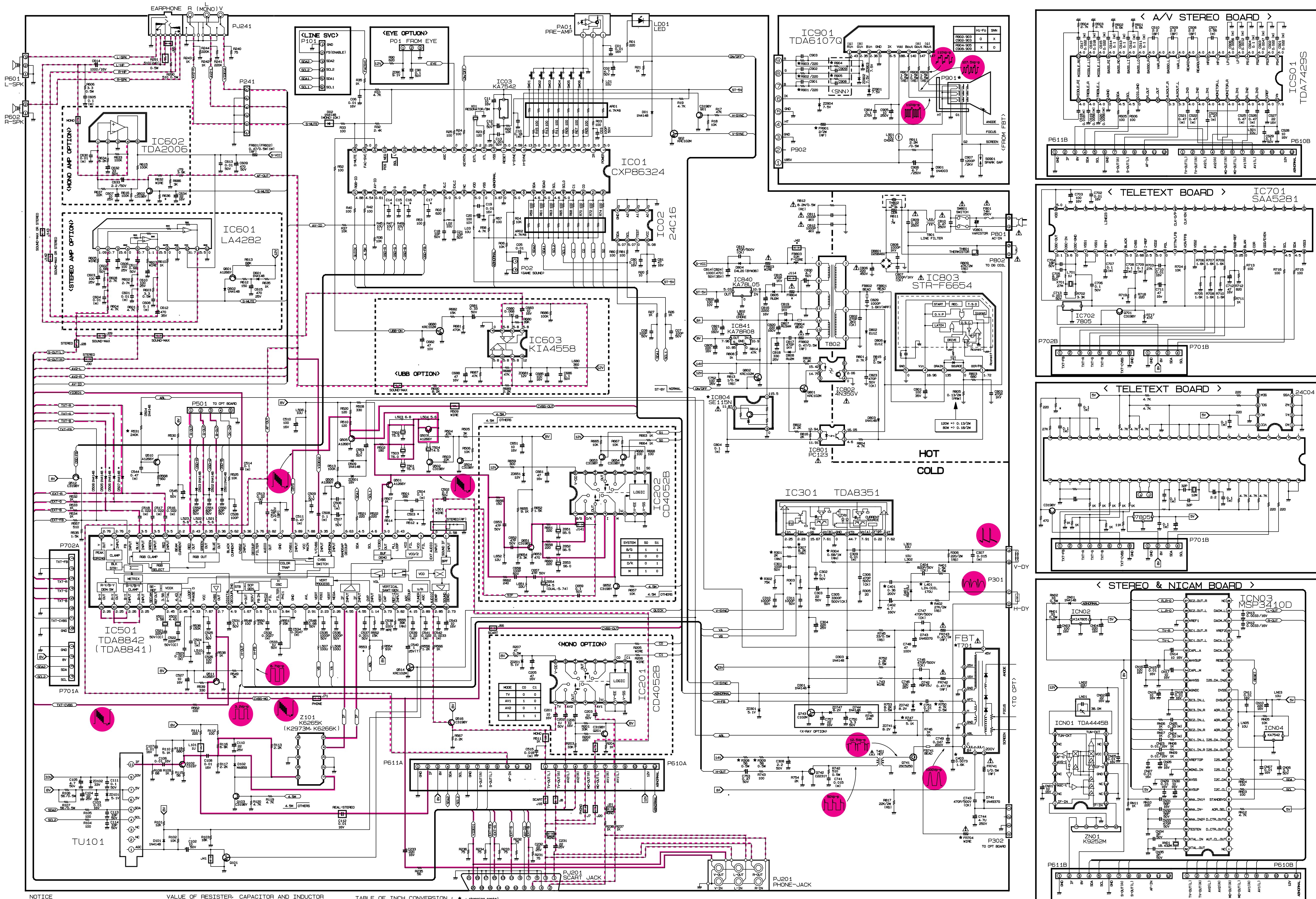
| LOCA. NO                     | PART NO     | DESCRIPTION                            |
|------------------------------|-------------|----------------------------------------|
| C706                         | 0CN1040K949 | C,TUBULA(HIGH DIELE) 0.1M 50V Z        |
| C707                         | 0CQ1041N509 | C,POLYESTER(MYLAR) 0.1MF 100V L        |
| C708                         | 0CQ1041N509 | C,POLYESTER(MYLAR) 0.1MF 100V L        |
| C709                         | 0CQ1041N509 | C,POLYESTER(MYLAR) 0.1MF 100V L        |
| C710                         | 0CN1030F679 | C,TUBULA(HIGH DIELE) 0.01MF 16V M      |
| C711                         | 0CE476DF618 | C,ELECTROLYTIC 47UF STD 16V M          |
| C712                         | 0CE476DF618 | C,ELECTROLYTIC 47UF STD 16V M          |
| C713                         | 0CN1020K519 | C,TUBULA(HIGH DIELE) 1000PF 50V K      |
| IC701                        | 0IPH528100F | IC,SAAS5281ZP/E 52P,SDIP BK WEST       |
| IC702                        | 0IKE780500K | IC,KIA7805PI 3P(TO-220IS) 5V,1A        |
| L701                         | 0LA0331K119 | INDUCTOR,3.3UH K 2.3*3.4 TP            |
| Q701                         | 0TR945009AA | TR,KSC945C-Y                           |
| R702                         | 0RD3301F609 | R,CARBON FILM 3.3K 1/6W 5              |
| R703                         | 0RD2702F609 | R,CARBON FILM 27K 1/6W 5               |
| R704                         | 0RD1002F609 | R,CARBON FILM 10K 1/6W 5               |
| R705                         | 0RD1601F609 | R,CARBON FILM 1.6K 1/6W 5              |
| R706                         | 0RD1601F609 | R,CARBON FILM 1.6K 1/6W 5              |
| R707                         | 0RD1601F609 | R,CARBON FILM 1.6K 1/6W 5              |
| R708                         | 0RD1601F609 | R,CARBON FILM 1.6K 1/6W 5              |
| R709                         | 0RD1601F609 | R,CARBON FILM 1.6K 1/6W 5              |
| R710                         | 0RD1601F609 | R,CARBON FILM 1.6K 1/6W 5              |
| R712                         | 0RD8200F609 | R,CARBON FILM 820 1/6W 5               |
| R713                         | 0RD1000F609 | R,CARBON FILM 100 1/6W 5               |
| R715                         | 0RD1000F609 | R,CARBON FILM 100 1/6W 5               |
| R716                         | 0RD1000F609 | R,CARBON FILM 100 1/6W 5               |
| R717                         | 0RD4700F609 | R,CARBON FILM 470 1/6W 5               |
| R718                         | 0RD2200F609 | R,CARBON FILM 220 1/6W 5               |
| X701                         | 156-A02X    | CRYSTAL,STD SUNNY RADIAL 27.0MHZ 25PPM |
| <b>SUB (AV STEREO) BOARD</b> |             |                                        |
| CS01                         | 0CQ2231N509 | C,POLYESTER(MYLAR) 0.022MF 100V K      |
| CS02                         | 0CQ2231N509 | C,POLYESTER(MYLAR) 0.022MF 100V K      |
| CS03                         | 0CQ4721N509 | C,POLYESTER(MYLAR) 0.0047U 100V K      |
| CS04                         | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K         |
| CS05                         | 0CQ1221N419 | C,POLYESTER(MYLAR) 0.0012U 100V J      |
| CS06                         | 0CQ5621N509 | C,POLYESTER(MYLAR) 5600PF 100V K       |
| CS07                         | 181-007J    | C,MPE 50V 0.56UF J(TR)                 |
| CS08                         | 0CE2251K636 | C,ELECTROLYTIC 2.2UF SM 50V M          |
| CS09                         | 0CE2251K636 | C,ELECTROLYTIC 2.2UF SM 50V M          |
| CS10                         | 0CE2251K636 | C,ELECTROLYTIC 2.2UF SM 50V M          |
| CS11                         | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K         |
| CS12                         | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K         |
| CS13                         | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K         |
| CS14                         | 181-442Z    | C,POLYESTER(MYLAR) 0.1MF 50V K         |
| CS15                         | 0CQ2231N509 | C,POLYESTER(MYLAR) 0.022MF 100V K      |
| CS16                         | 0CQ1831N509 | C,POLYESTER(MYLAR) 0.018U 100V K       |
| CS17                         | 0CQ2231N509 | C,POLYESTER(MYLAR) 0.022MF 100V K      |
| CS18                         | 0CQ1831N509 | C,POLYESTER(MYLAR) 0.018U 100V K       |
| CS19                         | 0CQ5621N509 | C,POLYESTER(MYLAR) 5600PF 100V K       |
| CS20                         | 0CQ5621N509 | C,POLYESTER(MYLAR) 5600PF 100V K       |
| CS21                         | 181-007H    | C,MPE 50V 0.47UF J(TR)                 |
| CS22                         | 181-007H    | C,MPE 50V 0.47UF J(TR)                 |

The components identified by shading and mark **△** are critical for safety.  
Replace only with part number specified.

| LOCA. NO                   | PART NO     | DESCRIPTION                                   |
|----------------------------|-------------|-----------------------------------------------|
| CS23                       | 181-007H    | C,MPE 50V 0.47UF J(TR)                        |
| CS25                       | 181-007H    | C,MPE 50V 0.47UF J(TR)                        |
| CS26                       | 181-007H    | C,MPE 50V 0.47UF J(TR)                        |
| CS27                       | 0CE226DF618 | C,ELECTROLYTIC 22UF STD 16V M                 |
| CS28                       | 0CE106DF618 | C,ELECTROLYTIC 10UF STD 16V M                 |
| CS29                       | 0CN1040K949 | C,TUBULA(HIGH DIELE) 0.1M 50V Z               |
| ICS01                      | 0ISG742900A | IC,TDA7429 42P,SDIP BK DIGITAL CO             |
| LS01                       | 0LA0102K119 | INDUCTOR,10UH K                               |
| RS01                       | 0RD5601F609 | R,CARBON FILM 5.6K 1/6W 5                     |
| RS02                       | 0RD5601F609 | R,CARBON FILM 5.6K 1/6W 5                     |
| RS03                       | 0RD2701F609 | R,CARBON FILM 2.7K 1/6W 5                     |
| RS04                       | 0RD2701F609 | R,CARBON FILM 2.7K 1/6W 5                     |
| RS05                       | 0RD1000F609 | R,CARBON FILM 100 1/6W 5                      |
| RS06                       | 0RD1000F609 | R,CARBON FILM 100 1/6W 5                      |
| <b>MISCELLANEOUS</b>       |             |                                               |
|                            | 132-210G    | ANTENNA,ROD,W/ADAPTER L=500 PAL               |
|                            | 132-210J    | ANTENNA,2 POLE 3 SECTION 700MM 750MM P        |
|                            | 132-210H    | ANTENNA,ROD,W/ADAPTER L=650 PAL               |
|                            | 303-F62A    | COVER,TUNER                                   |
|                            | 351-012A    | LINK,POWER S/W                                |
|                            | 6710V00017E | REMOTE CONTROLLER MC84A,MONO(W/O EYE),24KEY   |
|                            | 6710V00017F | REMOTE CONTROLLER MC84A,MONO(W/EYE),25KEY     |
|                            | 6710V00017H | REMOTE CONTROLLER MC84A,STEREO(W/EYE),26KEY   |
|                            | 6710V00007K | REMOTE CONTROLLER MC84A,(TXT,EYE,STEREO,MODE) |
|                            | 6710V00020F | REMOTE CONTROLLER MC84A MONO(W/O EYE),45KEY   |
| △ F801                     | 0FT4001B53C | FUSE,TIME LAG 4000MA 250 V                    |
| PA01                       | 106-047G    | PRE-AMP,SBX2020-82 38.0KHZ                    |
| △ P901                     | 6620VBC001A | SOCKET,CPT 29.1 PHI SINGLE(PCS629-03A)        |
| "                          | 6620VBA001A | SOCKET,CPT PCS-633A 14"                       |
| SG901                      | 165-004A    | SPARK GAP,AG20PT 152F-L3N/S-23                |
| △ TH801                    | 163-012C    | THERMISTOR,J502P54E180M220                    |
| "                          | 163-054F    | THERMISTOR,J502P84D140M290Q 14"               |
| TU101                      | 6700VPF003B | TUNER TU8PSB02D LGEC PAL DIN 38.0MHZ          |
| △ T701                     | 6174Z-8005E | FBT FTSPN13-T8005E                            |
| "                          | 6174Z-8005F | FBT FTSPN13-T8005F 14"                        |
| "                          | 6174V-8003A | FBT FSA41018S 14" ORION                       |
| "                          | 6174Z-8005A | FBT FTSPN13-T8005A 21"                        |
| VD801                      | 164-003D    | VARISTOR,SVC 561D-14A                         |
| X01                        | 166-E05C    | RESONATOR,RESO CST8.00MTW-TF01                |
| <b>SUB(RF STEREO)BOARD</b> |             |                                               |
| CN01                       | 0CE106DF618 | 10UF STD 16V M                                |
| CN02                       | 0CE226DF618 | 22UF STD 16V M                                |
| CN03                       | 0CE107DD618 | 100UF STD 10V M                               |
| CN04                       | 0CE227DD618 | 220UF STD 10V M                               |
| CN05                       | 0CN1030F679 | 10000P 16V M                                  |
| CN06                       | 0CE335DK618 | 3.3000UF STD 50V M                            |
| CN07                       | 0CN1030F679 | 10000P 16V M Y                                |
| CN10                       | 0CE227DD618 | 220UF STD 10V M                               |
| CN11                       | 0CN1030F679 | 10000P 16V M                                  |
| CN12                       | 0CQ3321N509 | 0.0033U 100V K                                |

| LOCA. NO | PART NO     | DESCRIPTION                        |
|----------|-------------|------------------------------------|
| CN13     | 0CQ3321N509 | 0.0033U 100V K                     |
| CN14     | 0CE106DF618 | 10UF STD 16V M                     |
| CN15     | 0CN1030F679 | 10000P 16V M                       |
| CN16     | 0CE107DD618 | 100UF STD 10V M                    |
| CN17     | 0CE106DF618 | 10UF STD 16V M                     |
| CN18     | 0CN1030F679 | 10000P 16V M                       |
| CN19     | 0CE106DF618 | 10UF STD 16V M                     |
| CN22     | 181-007G    | ECQ-V1H334JZ3,50V 0.3              |
| CN23     | 181-007G    | ECQ-V1H334JZ3,50V 0.3              |
| CN24     | 181-007G    | ECQ-V1H334JZ3,50V 0.3              |
| CN25     | 181-007G    | ECQ-V1H334JZ3,50V 0.3              |
| CN26     | 0CE106DF618 | 10UF STD 16V M                     |
| CN27     | 0CN1030F679 | 10000P 16V M                       |
| CN29     | 0CN1030F679 | 10000P 16V M                       |
| CN30     | 0CE106DF618 | 10UF STD 16V M                     |
| CN31     | 0CX5600K409 | 56P 50V J                          |
| CN32     | 0CX5600K409 | 56P 50V J                          |
| CN33     | 0CN4710K519 | 470P 50V K                         |
| CN34     | 0CC0200K115 | 2P 50V D                           |
| CN35     | 0CC0200K115 | 2P 50V D                           |
| CN36     | 0CE226DF618 | 22UF STD 16V M                     |
| ICN01    | 0ITF444500C | IC,TDA4445B 16P,DIP BK QPS PROCES  |
| ICN02    | 0IKE780500K | IC,KIA7805PI 3P(TO-220IS) 5V,1A    |
| ICN03    | 0IIT341000H | IC,MSP3410D 52P,SDIP BK B4-VERSIO  |
| ICN04    | 0ISS754200A | IC,KA7542Z RESET TO92 TP 4.2V      |
| LN01     | 150-E08L    | COIL,IFT VAR,07S 1B 38.0MHZ        |
| LN02     | 0LA0222K119 | INDUCTOR,22UH K                    |
| LN03     | 0LA0102K119 | INDUCTOR,10UH K                    |
| LN04     | 0LA0102K119 | INDUCTOR,10UH K                    |
| QN01     | 0TR733009AA | TR,KSA733C-Y TP                    |
| QN02     | 0TR733009AA | TR,KSA733C-Y TP                    |
| RN03     | 0RD1000F609 | 100 1/6W 5                         |
| RN04     | 0RD1000F609 | 100 1/6W 5                         |
| RN05     | 0RD1002F609 | 10K 1/6W 5                         |
| RN06     | 0RD1001F609 | 1.0K 1/6W 5                        |
| RN07     | 0RD1001F609 | 1.0K 1/6W 5                        |
| RN08     | 0RD1001F609 | 1.0K 1/6W 5                        |
| RN09     | 0RD1001F609 | 1.0K 1/6W 5                        |
| RN10     | 0RD2200F609 | 220 1/6W 5                         |
| RN11     | 0RD1001F609 | 1.0K 1/6W 5                        |
| RN12     | 0RD4701F609 | 4.70K 1/6W 5%                      |
| RN13     | 0RD3901F609 | 3.9K 1/6W 5                        |
| RN14     | 0RD3901F609 | 3.9K 1/6W 5                        |
| RN15     | 0RD0102F609 | 10 1/6W 5                          |
| XN01     | 156-A02M    | CRYSTAL,STD HC49U 18.432MHZ 30P    |
| ZN01     | 166-A01W    | FILTER(CIRC),SAW OFWK9252M 38.0MHZ |

# Service Sheet of MC-84A



## NOTICE

Since this is a basic schematic diagram, the value of components and some partial connection are subject to be changed for improvement without notice.

The components marked  $\Delta$  conform VED or IEC guidelines and essential for safe operation of the TV receiver. While those marked  $\Delta$  are required for correct operation, use specified parts only when replacing.

## VALUE OF RESISTOR, CAPACITOR AND INDUCTOR

1. Resistor is shown in ohm, K=1,000, M=1,000,000. 2. Unless otherwise noted in schematic, all capacitor values are expressed in  $\mu$ F. 3. Unless otherwise noted in schematic, all inductor values are expressed in  $\mu$ H.

## OBSERVATION OF VOLTAGE AND WAVEFORMS

1. Voltages read with VTVM from point to ground. Line voltages 180 ~ 270 volts color bar signal.
2. Voltages reading may vary  $\pm$  5%.
3. The schematic shown is representative only.
4. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
5. Check FINE TUNING, AGC, BRIGHTNESS, CONTRAST and COLOR controls for best picture. Also check BRIGHTNESS and COLOR controls are in mid position and CONTRAST control is at minimum position.
6. Waveforms are taken using a standard color signal.

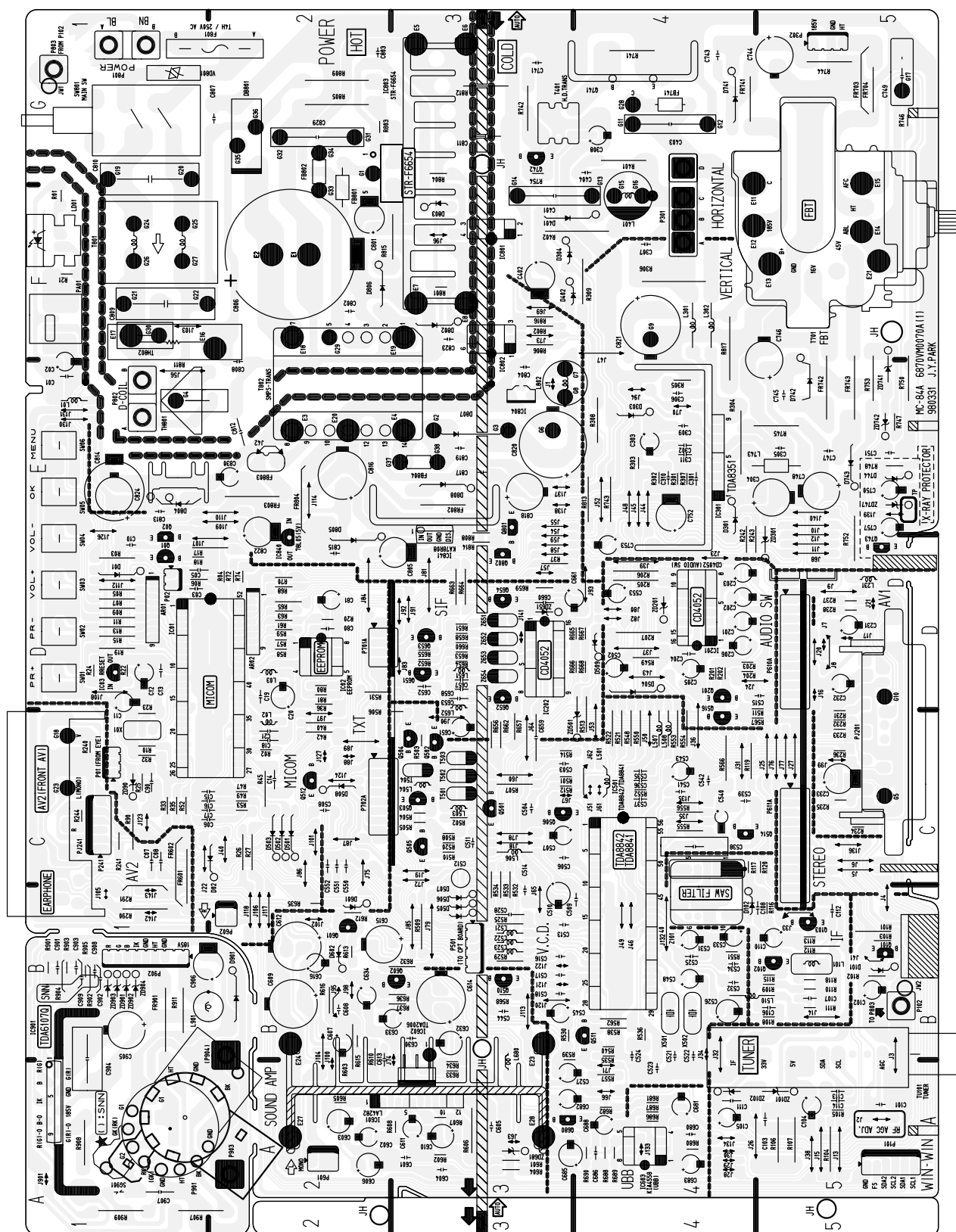
## TABLE OF INCH CONVERSION ( \* : changing parts )

| NO.  | 21" (L)       | 25" (L)       | 14" (L)       | 21" (O)       | 25" (O)       | 14" (O)       | 21" (O)       | 25" (O)       | 14" (O)       |
|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| T701 | 61742-8005A   | 61742-8005E   | 61742-8005F   | 61742-8005E   | 61742-8005F   | 61742-8005F   | 61742-8005F   | 61742-8005F   | 61742-8005F   |
| C401 | MPP 0.36/200V | MPP 0.47/200V | MPP 0.43/200V | MPP 0.36/200V | MPP 0.47/200V | MPP 0.43/200V | MPP 0.36/200V | MPP 0.47/200V | MPP 0.43/200V |
| L401 | 170U/150-102  | 170U/150-102  | 170U/150-102  | 170U/150-102  | 170U/150-102  | 170U/150-102  | 170U/150-102  | 170U/150-102  | 170U/150-102  |
| C402 | 0.0027/1.0V   | 0.0027/1.0V   | 0.0027/1.0V   | 0.0027/1.0V   | 0.0027/1.0V   | 0.0027/1.0V   | 0.0027/1.0V   | 0.0027/1.0V   | 0.0027/1.0V   |
| P501 | 6602V80031A   | 6602V80031A   | 6602V80031A   | 6602V80031A   | 6602V80031A   | 6602V80031A   | 6602V80031A   | 6602V80031A   | 6602V80031A   |
| I304 | SE115N        | SE115N        | SE115N        | SE115N        | SE115N        | SE115N        | SE115N        | SE115N        | SE115N        |
| R401 | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        |
| R402 | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        |
| R403 | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        |
| R404 | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        |
| R405 | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        | RD 220        |
| R47  | RD 5.1K       | RD 4.7K       | RD 6.8K       | RD 5.1K       | RD 4.7K       | RD 6.8K       | RD 5.1K       | RD 4.7K       | RD 6.8K       |
| R502 | RD 75K        | RD 75K        | RD 100K       | RD 75K        | RD 100K       | RD 100K       | RD 75K        | RD 100K       | RD 100K       |
| R503 | RD 240K       | RD 240K       | 100K          | RD 240K       | 100K          | 100K          | RD 240K       | 100K          | 100K          |
| R504 | RD 550/0.5W   | RD 550/0.5W   | RD 750/0.5W   | RD 550/0.5W   | RD 750/0.5W   | RD 750/0.5W   | RD 550/0.5W   | RD 750/0.5W   | RD 750/0.5W   |
| R505 | RD 4.7K/0.5W  | RD 4.7K/0.5W  | RD 4.7K/0.5W  | RD 4.7K/0.5W  | RD 4.7K/0.5W  | RD 4.7K/0.5W  | RD 4.7K/0.5W  | RD 4.7K/0.5W  | RD 4.7K/0.5W  |
| R506 | RD 27K/2W     | RD 27K/2W     | RD 27K/2W     | RD 27K/2W     | RD 27K/2W     | RD 27K/2W     | RD 27K/2W     | RD 27K/2W     | RD 27K/2W     |
| R507 | RD 8.2K       | RD 8.2K       | RD 3.9K       | RD 8.2K       | RD 3.9K       | RD 3.9K       | RD 8.2K       | RD 3.9K       | RD 3.9K       |
| R508 | RD 0.08/1W    | RD 1.0/1W     | RD 0.08/1W    | RD 0.08/1W    | RD 1.0/1W     | RD 1.0/1W     | RD 0.08/1W    | RD 1.0/1W     | RD 1.0/1W     |
| C751 | M 0.01U       | M 0.01U       | M 0.01U       | M 0.01U       | M 0.01U       | M 0.01U       | M 0.01U       | M 0.01U       | M 0.01U       |

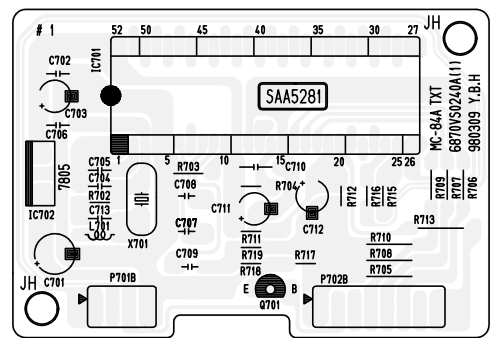
WAVEFORM

Service Sheet of MC-84A  
P/N : 3854VA0037A-S  
(980427)

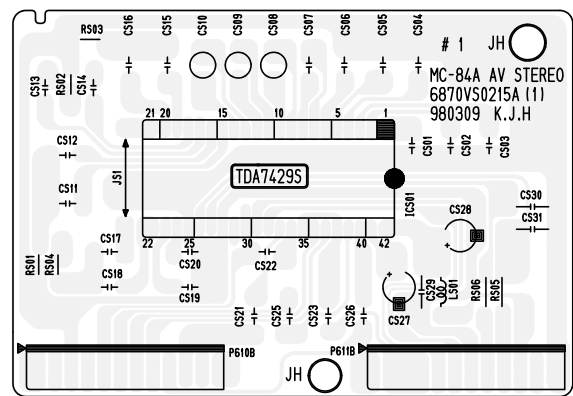
## MAIN



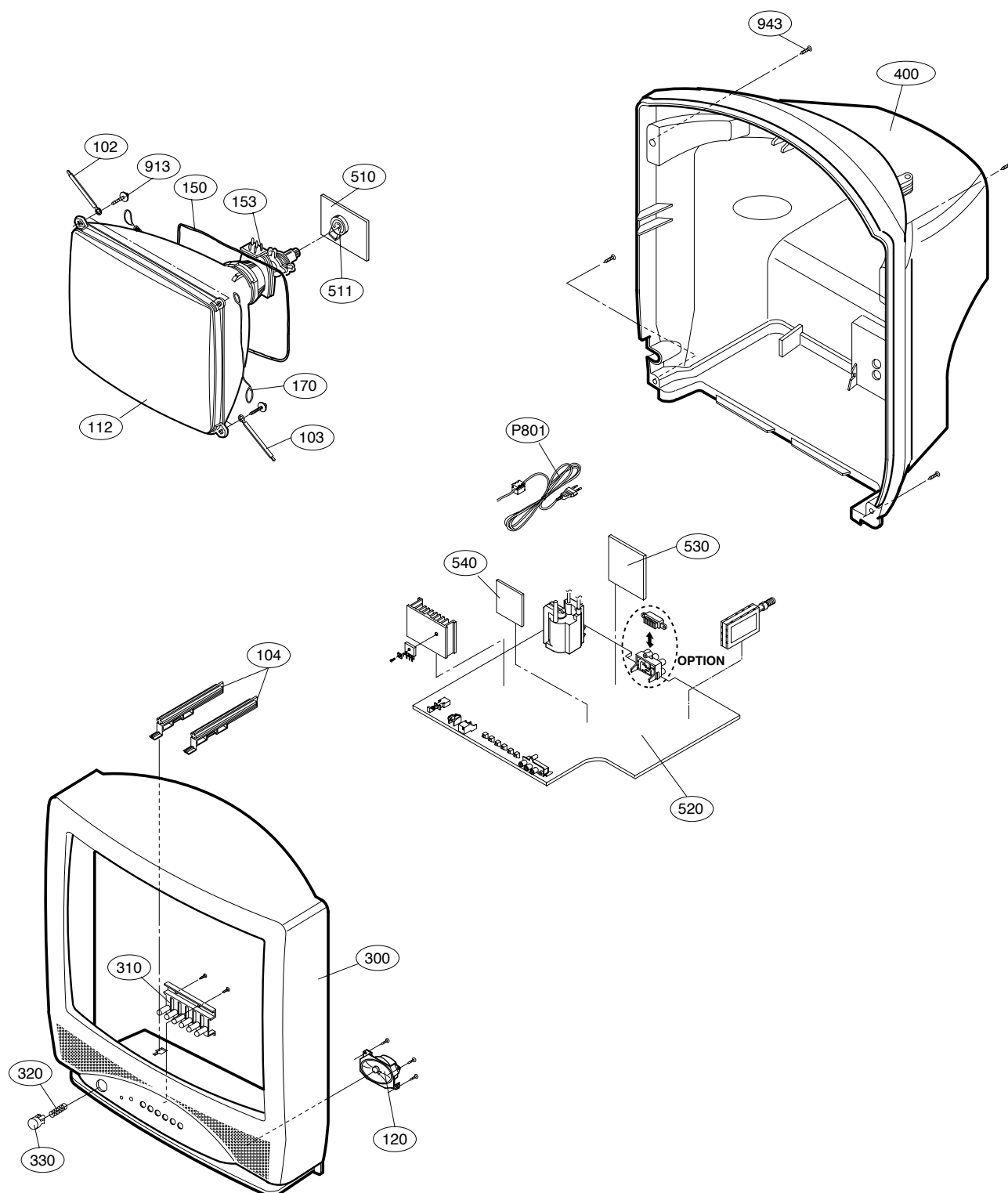
TXT



AV STEREO



# EXPLODED VIEW:CA-14/20F33W

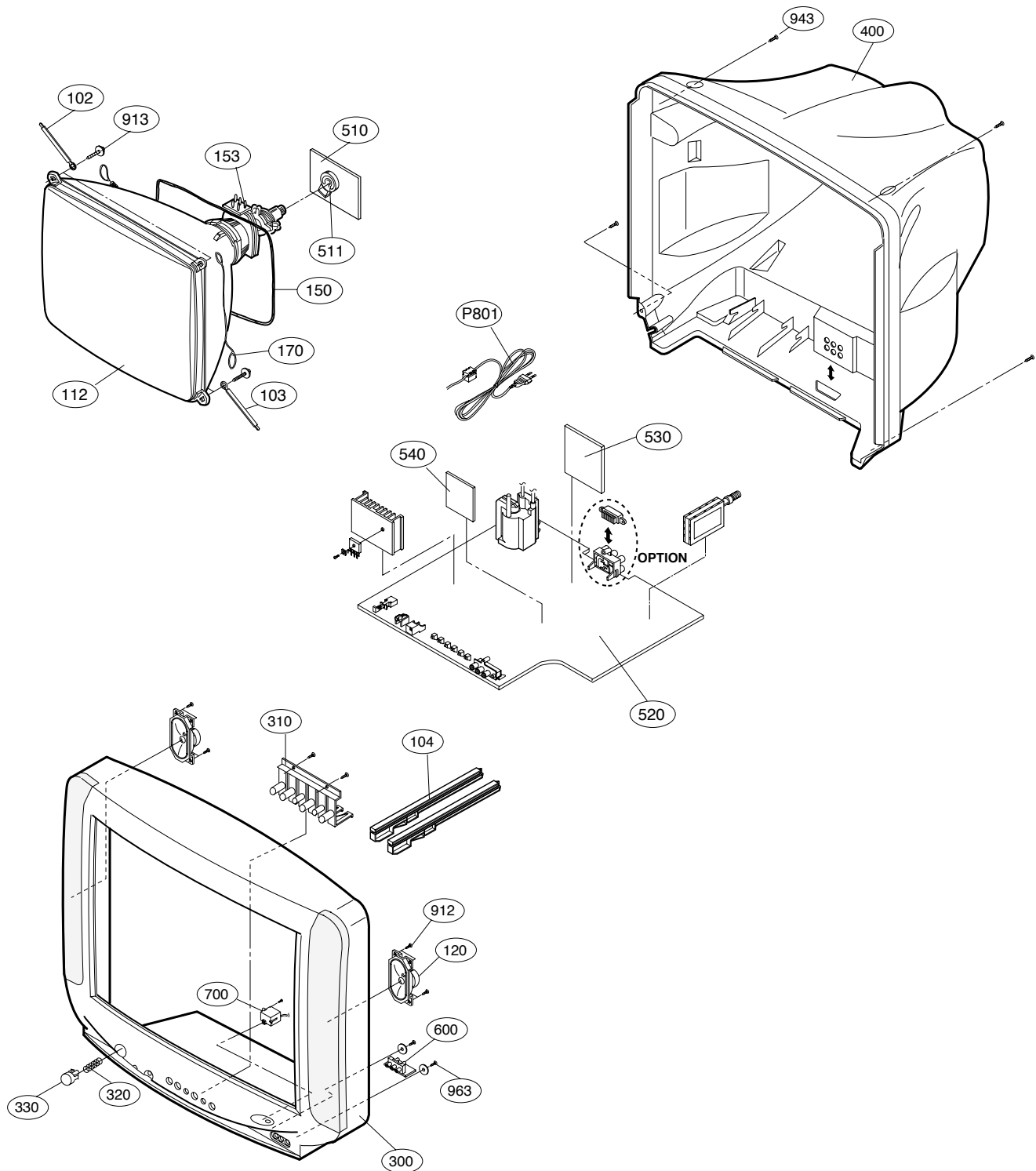


# EXPLODED VIEW PARTS LIST

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

| LOCA. NO                                                                                 | PART NO     | DESCRIPTIONS                        |
|------------------------------------------------------------------------------------------|-------------|-------------------------------------|
| 102                                                                                      | 341-721E    | HOLDER,D-COIL(FOR SAFA,L=65)        |
| 103                                                                                      | 341-721F    | HOLDER,D-COIL(FOR SAFA,L=130)       |
| 104                                                                                      | 343-B52A    | SUPPORTER,PCB                       |
|  112    | 2055-V0952J | CPT A34KPU02XX A0Q7ND(0G)           |
|                                                                                          | 2055-V1221F | CPT A48QAD220X 03Q7ND(0G) 20"       |
| 120                                                                                      | 120-D04C    | SPEAKER C072P(8 OHM)                |
|                                                                                          | 120-C93G    | SPEAKER C091P06K1459 20"            |
|  150    | 150-D02B    | COIL,DEGAUSSING,CU 14" 42T 5.7OHM   |
|                                                                                          | 150-D02M    | COIL,DEGAUSSING,CU 20" 60T 15OHM    |
|  153    | 153-360A    | DY DNF-DB1402                       |
|                                                                                          | 153-276A    | DY DCAM1-20PLAA 20"                 |
|  170    | 170-851A    | LEAD SET ASSY,CPT EARTH(L=460) 14"  |
|                                                                                          | 170-851B    | LEAD SET ASSY,CPT EARTH(L=640) 20"  |
| 300                                                                                      | 3106V00042M | CABINET UNIT LG 14"                 |
|                                                                                          | 3106V00036P | CABINET UNIT LG 20"                 |
| 310                                                                                      | 5020V00114A | BUTTON,CONTROL 14"                  |
|                                                                                          | 5020V00108A | BUTTON,CONTROL 20"                  |
| 320                                                                                      | 320-070G    | SPRING,COIL 14"                     |
|                                                                                          | 320-075B    | SPRING,KNOB 20"                     |
| 330                                                                                      | 5020V00115A | BUTTON,POWER 14"                    |
|                                                                                          | 5020V00113A | BUTTON,POWER 20"                    |
| 400                                                                                      | 3809V00052G | BACK COVER ASSY 14"                 |
|                                                                                          | 3809V00046K | BACK COVER ASSY 20"                 |
| 520                                                                                      | 6871VMM209X | PWB ASSY,MAIN(84A)[48,05] 14"       |
|                                                                                          | 6871VMM209Y | PWB ASSY,MAIN(84A)[48,05] 20"       |
| 913                                                                                      | 332-057A    | SCREW ASSY,HEXAGON HEAD 14"         |
|                                                                                          | 332-057B    | SCREW ASSY,HEXAGON HEAD 20"         |
| 943                                                                                      | 1PPF0403116 | SCREW,PAN HEAD D4 L16               |
|  P801 | 174-009E    | CORD,POWER(W/HOLD,HOUSING,L=200,4.0 |

# EXPLODED VIEW:CA-21D33EX

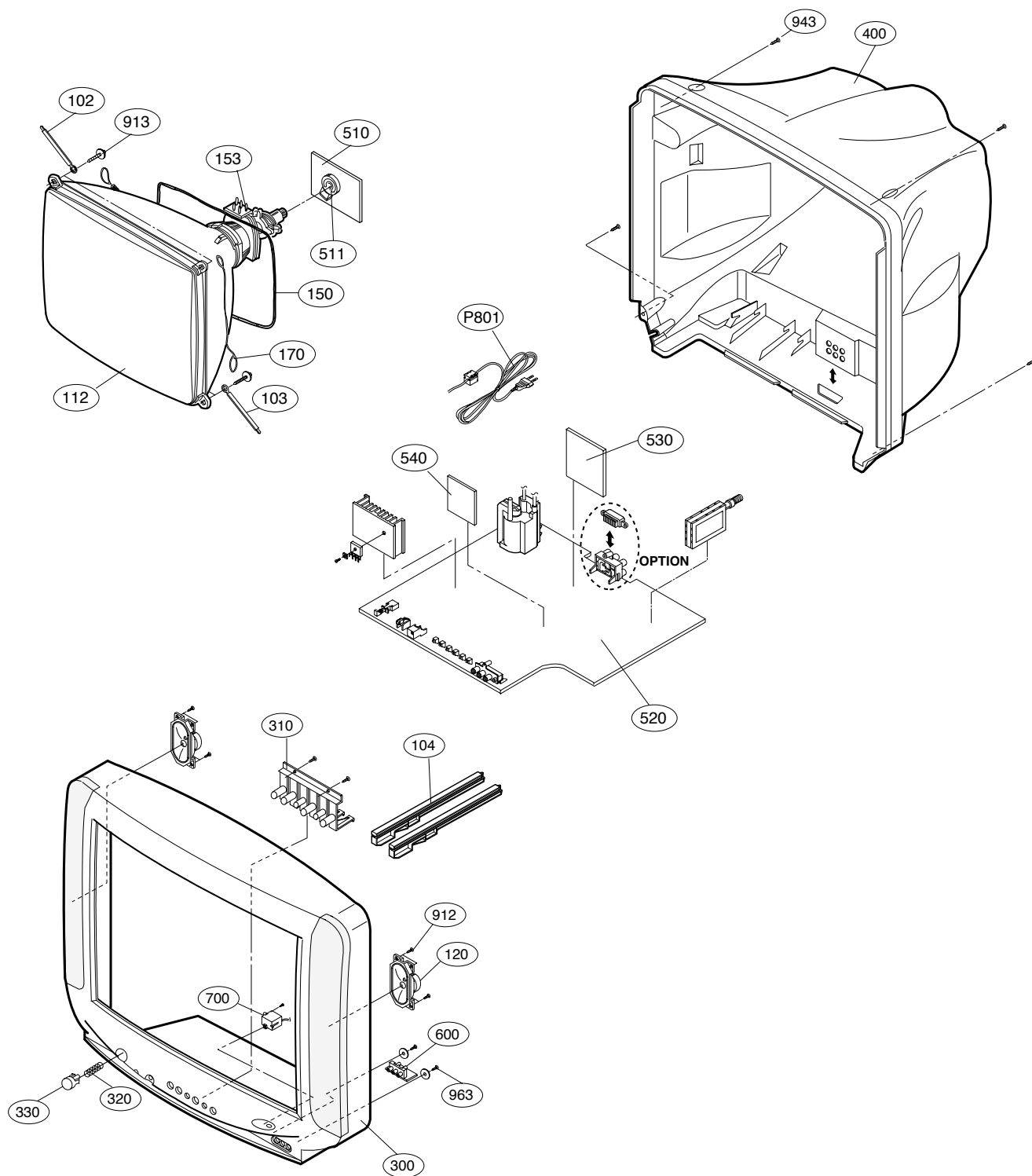


# EXPLODED VIEW PARTS LIST

The components identified by shading and mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

| LOCA. NO         | PART NO     | DESCRIPTIONS                         |
|------------------|-------------|--------------------------------------|
| 102              | 341-721E    | HOLDER,D-COIL(FOR SAFA,L=65)         |
| 103              | 341-721F    | HOLDER,D-COIL(FOR SAFA,L=130)        |
| 104              | 343-B52B    | SUPPORTER                            |
| $\triangle$ 112  | 2055-V0672G | CPT A51KPD12XX 14S7KR                |
| 120              | 120-C77G    | SPEAKER C122P02K1459 8OHM 10         |
| $\triangle$ 150  | 150-D02X    | COIL,DEGAUSSINGCU 21" 12 OHM         |
| $\triangle$ 153  | 153-110F    | DY DCAN1*110F-21FSAA                 |
| $\triangle$ 170  | 170-851B    | LEAD SET ASSY,CPT EARTH(L=640)       |
| 300              | 3106V00040U | CABINET UNIT                         |
| 310              | 5020V00077A | BUTTON,POWER                         |
| 320              | 320-075B    | SPRING,KNOB                          |
| 330              | 5020V00067A | BUTTON,CONTROL                       |
| 400              | 3809V00026Q | BACK COVER ASSY                      |
| 520              | 6871VMM219Q | PWB ASSY,MAIN(84A)[37,05]            |
| 530              | 6871VSM202A | PWB ASSY,STEREO                      |
| 540              | 6871VSM201A | PWB ASSY,TXT                         |
| 600              | 6871VSM261A | PWB ASSY,FRONT                       |
| 700              | 0IGL120104A | IC,CDS SENSOR                        |
| 912              | 1PTF0402816 | SCREW,TRUSS HEAD D4 L12              |
| 913              | 332-057B    | SCREW ASSY,HEXAGON HEAD              |
| 943              | 1PPF0403116 | SCREW,PAN HEAD D4 L16                |
| 963              | 332-240A    | SCREW ASSY,'P' TYPE+WASHER(4*12+D14) |
| $\triangle$ P801 | 174-222P    | POWER CORD ASSY,SAA L=2200MM 219A    |

# EXPLODED VIEW:CT/CF-20/21D33E

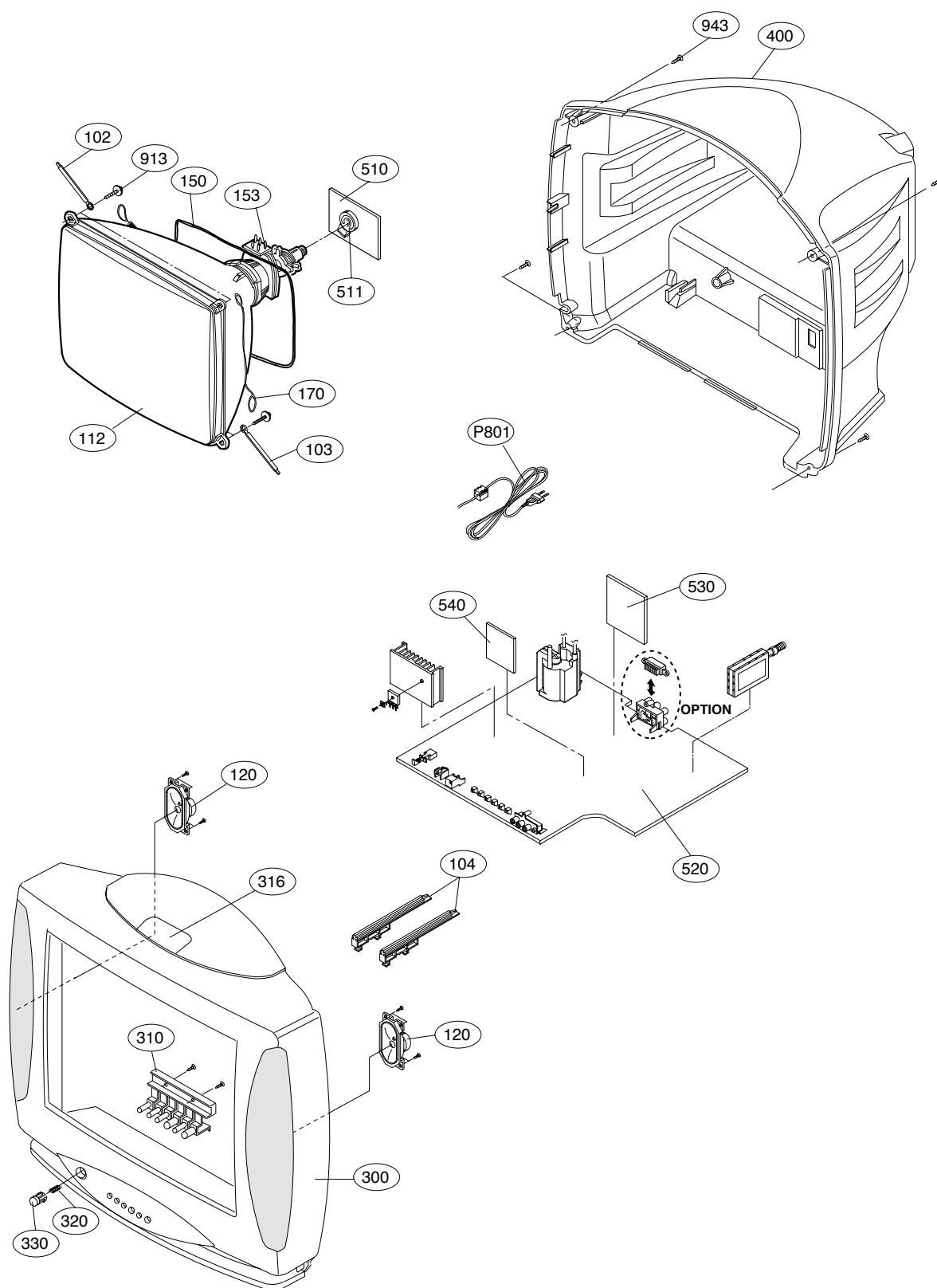


# EXPLODED VIEW PARTS LIST

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

| LOCA. NO      | PART NO     | DESCRIPTIONS                                                  |
|---------------|-------------|---------------------------------------------------------------|
| 102           | 341-721A    | HOLDER,D-COIL (FOR AUTO.L=65)                                 |
| 103           | 341-721B    | HOLDER,D-COIL (FOR AUTO.L=130)                                |
| 104           | 343-B52A    | SUPPORTER,PCB                                                 |
| $\Delta$ 112  | 2055-V1221C | CPT A48QAD220X 03M7ND(+0.3) *NAGHI 20", V.HOME 20", SBITANY   |
|               | 2055-V1221B | CPT A48QAD220X 03N7ND(+0.4) *E.A.C                            |
|               | 2055-V1221D | CPT A48QAD220X 03K7ND *LGEGF 20"                              |
|               | 2055-V0672Q | CPT A51KPD12XX 14M7KR(+0.3) *NAGHI 21", V.HOME 21", LGEGF 21" |
|               | 2426GDA80AB | CPT SET A51QAE320X 00N7KR * LGEGF-IR 21"                      |
| 120           | 120-C77G    | SPEAKER C122P02K1459 8OHM 10                                  |
| $\Delta$ 150  | 150-D02M    | COIL,DEGAUSSING,CU 20" 60T 15OHM                              |
|               | 150-D02N    | COIL,DEGAUSSING,CU 21" 60T 12OHM                              |
| $\Delta$ 153  | 153-276A    | DY,DCAM1-20PLAA 20"                                           |
|               | 153-110F    | DY,DCAN1-21FSAA 21"                                           |
| $\Delta$ 170  | 170-A01J    | CPT EARTH                                                     |
| 300           | 3106V00024D | CABINET UNIT0,23SYS,SOUND MAX PLUS,                           |
|               | 3106V00024A | CABINET UNIT 20"                                              |
|               | 3106V00040A | CABINET UNIT 21"                                              |
| 310           | 5020V00067A | BUTTON,CONTROL                                                |
| 320           | 320-075B    | SPRING,KNOB                                                   |
| 330           | 5020V00066A | BUTTON,POWER 20"                                              |
|               | 5020V00077A | BUTTON,POWER 21"                                              |
| 400           | 3809V00026H | BACK COVER ASSY                                               |
|               | 3809V00026G | BACK COVER ASSY *NAGHI, V.HOME, LGEGF                         |
| 520           | 6871VMM199T | PWB ASSY,MAIN(84A)[05,01]                                     |
|               | 6871VMM268B | PWB ASSY,MAIN(84A)[13,01]*SBITANY 20"                         |
|               | 6871VMM268F | PWB ASSY,MAIN(84A)[13,01]*SBITANY 21"                         |
|               | 6871VMM298D | PWB ASSY,MAIN(84A)[21,01]*NAGHI 20"                           |
|               | 6871VMM229E | PWB ASSY,MAIN(84A)[21,01] *NAGHI 21"                          |
|               | 6871VMM229J | PWB ASSY,MAIN(84A)[21,01] *V.HOME 20",E.A.C                   |
|               | 6871VMM229R | PWB ASSY,MAIN(84A)[21,01] *V.HOME 21"                         |
|               | 6871VMM229W | PWB ASSY,MAIN(84A)[21,01] *LGEGF 20"                          |
|               | 6871VMM229V | PWB ASSY,MAIN(84A)[21,01] *LGEGF 21"                          |
|               | 6871VMM215J | PWB ASSY,MAIN(84A)[05,01] *LGEGF-IR 20"                       |
|               | 6871VMM215K | PWB ASSY,MAIN(84A)[05,01] *LGEGF-IR 21"                       |
| 530           | 6871VSM250A | PWB ASSY,EXTRA SUB (84A) AV-ST CKD                            |
| 600           | 6871VSM260A | PWB ASSY,FRONT AV                                             |
| 700           | 0IGL120104A | IC,CDS SENSOR                                                 |
| 912           | 1PTF0402816 | SCREW,TRUSS HEAD D4 L12                                       |
| 913           | 332-057B    | SCREW ASSY,HEXAGON HEAD                                       |
| 943           | 1PPF0403116 | SCREW,PAN HEAD D4 L16                                         |
| 963           | 332-240A    | SCREW ASSY,'P' TYPE+WASHER(4*12+D14)                          |
| $\Delta$ P801 | 174-009E    | CORD,POWER                                                    |

# EXPLODED VIEW:CF-14/20/21D73/X

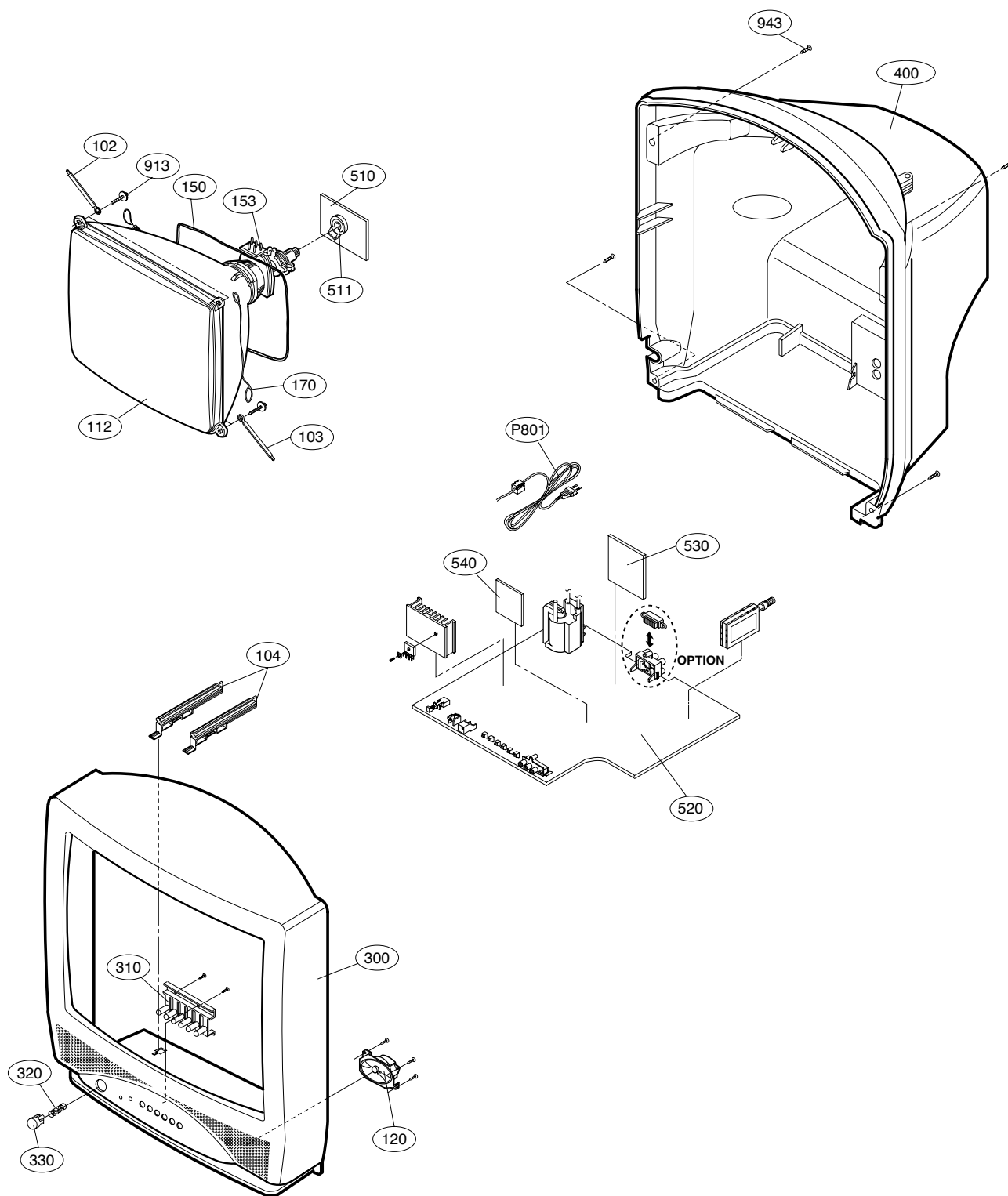


# EXPLODED VIEW PARTS LIST

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

| LOCA. NO                                                                                 | PART NO     | DESCRIPTIONS                                 |
|------------------------------------------------------------------------------------------|-------------|----------------------------------------------|
| 102                                                                                      | 341-721A    | HOLDER,D-COIL (FOR AUTO.L=65)                |
| 103                                                                                      | 341-721B    | HOLDER,D-COIL (FOR AUTO.L=130)               |
| 104                                                                                      | 343-B52A    | SUPPORTER,PCB                                |
|  112    | 6341V21002C | CPT A51QAE320X 14M7KR                        |
|                                                                                          | 2055-01221C | CPT A48QAD220X 03M7ND                        |
|                                                                                          | 2055-V1221C | CPT A48QAD220X 03M7ND(+0.3) *SBITANY RADELEC |
|                                                                                          | 2055-00744P | CPT A34KPU02XX 31M7ND 14"                    |
| 120                                                                                      | 120-487C    | SPEAKER,GENERAL 8 OHM 5/7W 87                |
|                                                                                          | 6400VA0001B | SPEAKER, 16OHM 2.5/5W 14"                    |
|  150    | 150-D02T    | COIL,DEGAUSSING CU 21" 56T                   |
|                                                                                          | 150-D02M    | COIL,DEGAUSSING CU 20" 60T 15OHM             |
|                                                                                          | 150-D02B    | COIL,DEGAUSSING CU 14" 42T 5.7OHM            |
|  170    | 170-851C    | CPT EARTH 21"                                |
|                                                                                          | 170-A01J    | CPT EARTH 20"                                |
|                                                                                          | 170-A01L    | CPT EARTH 14"                                |
| 300                                                                                      | 300-D33Q    | CABINET ASSY 21"                             |
|                                                                                          | 3091V00001M | CABINET ASSY,LG 20"                          |
|                                                                                          | 3091V00021B | CABINET ASSY,GS 14"                          |
| 310                                                                                      | 441-706A    | BUTTON,CONTROL 21"                           |
|                                                                                          | 441-714A    | BUTTON,CONTROL 20"                           |
|                                                                                          | 5020V00002A | BUTTON,CONTROL 14"                           |
| 316                                                                                      | 316-575A    | WINDOW,TOP                                   |
| 320                                                                                      | 320-062E    | SPRING,KNOB 20"                              |
|                                                                                          | 320-070G    | SPRING, COIL 14"                             |
| 330                                                                                      | 441-707A    | BUTTON,POWER 21"                             |
|                                                                                          | 441-715A    | BUTTON,POWER 20"                             |
|                                                                                          | 5020V00001A | BUTTON,POWER 14"                             |
| 400                                                                                      | 303-M33P    | COVER ASSY BACK(MC84A/PHONO)                 |
|                                                                                          | 3809V00046M | BACK COVER ASSY (SCART)                      |
|                                                                                          | 3809V00014L | BACK COVER ASSY 14"                          |
| 520                                                                                      | 6871VMM199S | PWB ASSY,MAIN(84A)[00,01]                    |
|                                                                                          | 6871VMM206V | PWB ASSY, MAIN (84A)[08,01] *SBITANY         |
|                                                                                          | 6871VMM233D | PWB ASSY, MAIN (84A)[08,01] *RADELEC 21"     |
|                                                                                          | 6871VMM236W | PWB ASSY, MAIN (84A)[08,01] *RADELEC 20"     |
|                                                                                          | 6871VMM236Z | PWB ASSY, MAIN (84A)[08,01] 14"              |
| 540                                                                                      | 6871VSM201D | PWB ASSY, TXT                                |
| 913                                                                                      | 332-057B    | SCREW ASSY,HEXAGON HEAD                      |
|                                                                                          | 322-057A    | SCREW ASSY,HEXAGON HEAD 14"                  |
| 943                                                                                      | 1PPF0403116 | SCREW,PAN HEAD D4 L16                        |
|  P801 | 174-009E    | CORD,POWER                                   |

# EXPLODED VIEW:CF/CZ-14/20/21F33



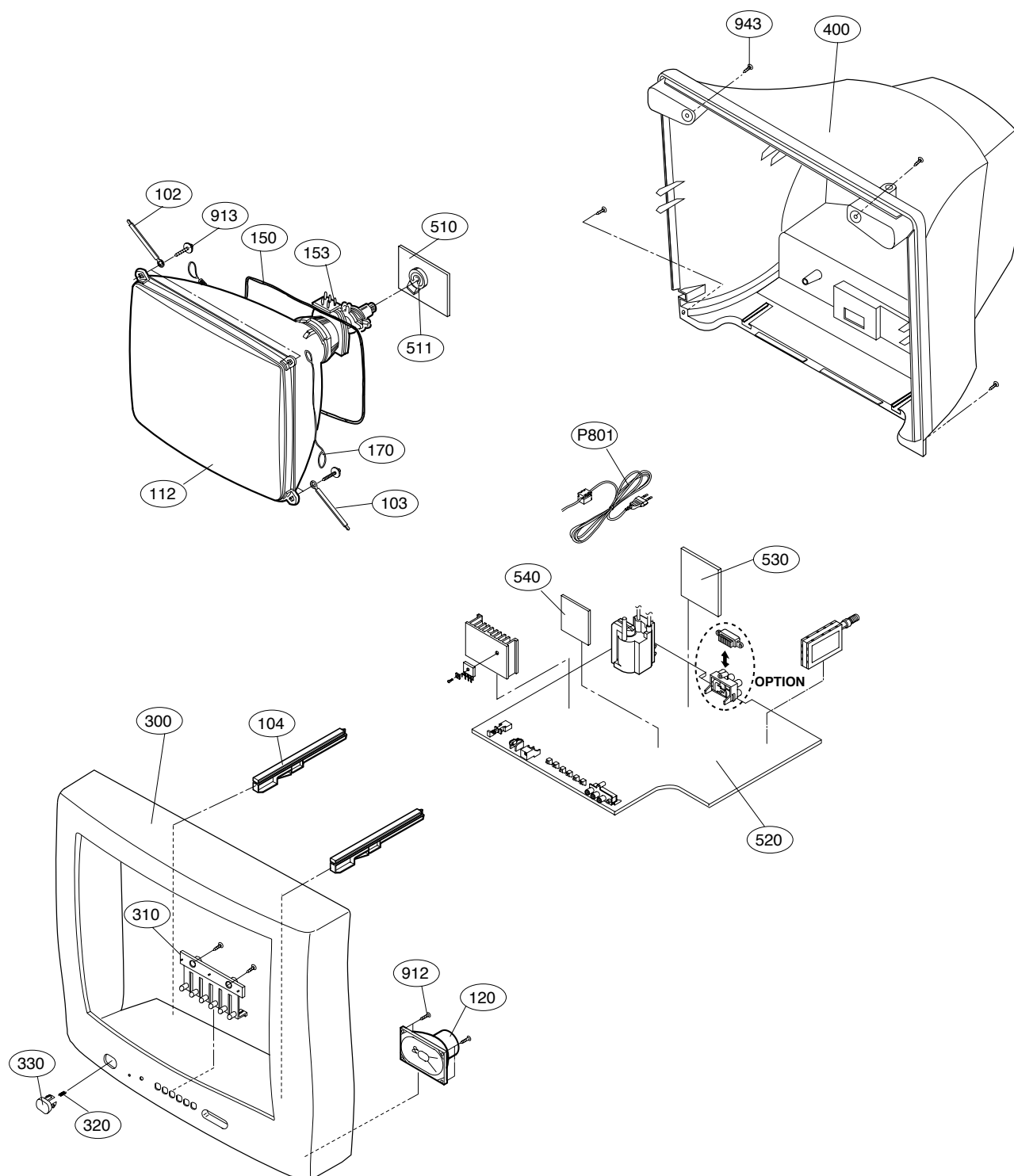
# EXPLODED VIEW PARTS LIST

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

| LOCA. NO      | PART NO        | DESCRIPTIONS                              |
|---------------|----------------|-------------------------------------------|
| 102           | 341-721A       | HOLDER,D-COIL (FOR AUTO.L=65)             |
| 103           | 341-721B       | HOLDER,D-COIL (FOR AUTO.L=130)            |
| 104           | 343-B52A       | SUPPORTER,PCB                             |
| $\Delta$ 112  | 2055-01221C    | CPT A48QAD220X 03M7ND *M.E.C              |
|               | 2055-01221H    | CPT A48QAD220X 03T7ND *KIOTA-KI           |
|               | 2055-V1221C    | CPT A48QAD220X 03M7ND(+0.3) *SBITANY      |
|               | 2055-V0672Q    | CPT A51KPD12XX 14M7KR(+0.3) *BROTHERS     |
|               | 2055-00744L(*) | CPT A34KPU02XX 00N7ND 14"                 |
| 120           | 120-C93G       | SPEAKER,GENERAL C091P06K1459 8OHM 5/      |
|               | 120-D04C       | SPEAKER,C072P(8OHM) 14"                   |
| $\Delta$ 150  | 150-D02M       | COIL,DEGAUSSING,CU 20" 60T 15OHM          |
|               | 150-D02T       | COIL,DEGAUSSING,AL 21" 56T 12OHM          |
|               | 150-D02B(*)    | COIL,DEGAUSSING,CU 14" 42T 5.7OHM         |
| $\Delta$ 153  | 153-276A       | DY DCAM1-20PLAA 20"                       |
|               | 153-110F       | DY DCAN1-21FSAA 21"                       |
|               | 153-113V(*)    | DY DCAD2-14SNAB 14"                       |
| $\Delta$ 170  | 170-A01J       | CPT EARTH 20"                             |
|               | 170-851C       | CPT EARTH 21"                             |
|               | 170-A01L       | CPT EARTH 14"                             |
| 300           | 3106V00036A    | CABINET UNIT 20"                          |
|               | 3106V00037A    | CABINET UNIT 21"                          |
|               | 3106V00042J    | CABINET UNIT 14"                          |
| 310           | 5020V00108A    | BUTTON,CONTROL                            |
|               | 5020V00114A    | BUTTON,CONTROL 14"                        |
| 320           | 320-075B       | SPRING,KNOB                               |
|               | 320-070G       | SPRING,COIL 14"                           |
| 330           | 5020V00113A    | BUTTON,POWER 20"                          |
|               | 5020V00107A    | BUTTON,POWER 21"                          |
|               | 5020V00115A    | BUTTON,POWER 14"                          |
| 400           | 3809V00046M    | BACK COVER ASSY,PHONE                     |
|               | 3809V00046K    | BACK COVER ASSY,SCART                     |
|               | 3809V00052K    | BACK COVER ASSY,SCART 14"                 |
| 520           | 6871VMM199S    | PWB ASSY,MAIN(84A)[00,01] *M.E.C          |
|               | 6871VMM205L    | PWB ASSY,MAIN(84A)[00,05] *KIOTA-KI       |
|               | 6871VMM205Z    | PWB ASSY,MAIN(84A)[08,01] *SBITANY        |
|               | 6871VMM236X    | PWB ASSY,MAIN(84A)[00,01] *BROTHERS       |
|               | 6871VMM254D    | PWB ASSY,MAIN(84A)[08,01] *14" SY-RADELEC |
| 913           | 332-057B       | SCREW ASSY,HEXAGON HEAD                   |
| 943           | 1PPF0403116    | SCREW,PAN HEAD D4 L16                     |
| $\Delta$ P801 | 174-009E       | CORD,POWER                                |
|               | 6410VEH001C(*) | CORD,POWER 14"                            |

The parts which are marked with " " are Local parts.

# EXPLODED VIEW(CF-20/21F80X)



# EXPLODED VIEW PARTS LIST

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

| LOCA. NO      | PART NO     | DESCRIPTIONS                                    |
|---------------|-------------|-------------------------------------------------|
| 102           | 341-721E    | HOLDER,D-COIL(FOR SAFA,L=65)                    |
| 103           | 341-721F    | HOLDER,D-COIL(FOR SAFA,L=130)                   |
| 104           | 343-B52A    | SUPPORTER,PCB                                   |
| $\Delta$ 112  | 2055-V0674C | CPT A51KPD12XX 14L7KR                           |
|               | 2055-V1221C | CPT A48QAD220X 03M7ND(+0.3G)                    |
|               | 2055-V1221G | CPT A48QAD220X 03R7ND(-0.1G)                    |
|               | 2055-V1221A | CPT SET A48QAD220X 03L7ND(+0.5)*CIS             |
|               | 6335V20002B | CPT ASSY A48JLL90X (ORION)*CIS                  |
|               | 2055-00746J | CPT A34KPU02XX AOL7ND(+0.5) 14" CIS             |
| 120           | 120-C93G    | SPEAKER,GENERAL C091P06K1459 8OHM 5/            |
|               | 120-D04C    | SPEAKER C072P(80HM) 14"                         |
| $\Delta$ 150  | 150-D02B    | COIL,DEGAUSSING ,CU 14" 42T 5.7OHM              |
|               | 150-D02T    | COIL,DEGAUSSING ,AL 21" 56T 12 OHM              |
|               | 150-D02M    | COIL,DEGAUSSING ,CU 20" 60T 15 OHM              |
| $\Delta$ 153  | 153-110F    | DY DCAN1*110F-21FSAA                            |
|               | 6150V-1002C | DY 0DY-M2007(ORION)                             |
|               | 153-276A    | DY DCAM1*110F-20PLAA                            |
| $\Delta$ 170  | 170-851B    | LEAD SET ASSY,CPT EARTH(L=640)                  |
|               | 170-A01L    | LEAD SET, CPT EARTH 14" 32T                     |
| 300           | 3106V00061C | CABINET UNIT,CF-21F80 LPLRR MULTI SYSTEM BK     |
|               | 3106V00050B | CABINET UNIT,CF-20F80 MPGR T GS                 |
|               | 3106V00050G | CABINET UNIT,CF-20F80 LPLRR                     |
|               | 3106V00050E | CABINET UNIT LG                                 |
|               | 3106V00056D | CABINET UNIT, CF-14F80 LPLRR                    |
| 310           | 5020V00171A | BUTTON,CONTROL,CF-21F80                         |
|               | 5020V00179B | BUTTON,CONTROL,CF-20F80 GRAY                    |
|               | 5020V00179C | BUTTON,CONTROL,CF-20F80 BLACK                   |
|               | 5020V00207A | BUTTON,CONTROL 14"                              |
| 320           | 320-062E    | SPRING,KNOB                                     |
|               | 320-062J    | SPRING,KNOB 14"                                 |
| 330           | 5020V00170A | BUTTON,POWER,CF-21F80                           |
|               | 5020V00180B | BUTTON,POWER,CF-20F80 GRAY                      |
|               | 5020V00180C | BUTTON,POWER,CF-20F80 BLACK                     |
|               | 5020V00206A | BUTTON,POWER 14"                                |
| 400           | 3809V00089B | BACK COVER ASSY,CF-21F80 A/V IN-OUT             |
|               | 3809V00073C | BACK COVER ASSY,CF-20F80 SCART                  |
|               | 3809V00073E | BACK COVER ASSY, PHONE JACK                     |
|               | 3809V00081B | BACK COVER ASSY, CF-14F80 PHONE                 |
| 511           | 6620VBC001A | SOCKET,CPT 29.1 PHI SINGLE                      |
| 520           | 6871VMM206A | PWB ASSY,MAIN(84A) [01,01] 21" CF-21F80 CIS     |
|               | 6871VMM158W | PWB ASSY,MAIN(84A) [01,01] CF-20F80 CIS         |
|               | 6871VMM205H | PWB ASSY,MAIN(84A) [09,01] 20" CF-20F80 SBITANY |
|               | 6871VMM206C | PWB ASSY,MAIN(84A) [01,01] 14" CIS              |
|               | 6871VMM206F | PWB ASSY,MAIN(84A) [01,01] 21" CIS AUTO         |
|               | 6871VMM209T | PWB ASSY,MAIN(84A) [01,05] 20" H.POINT          |
|               | 6871VMM219G | PWB ASSY,MAIN(84A) [01,01] 20" CIS ORION CPT    |
|               | 6871VMM229U | PWB ASSY,MAIN(84A) [01,01] CF-20F80X CIS        |
|               | 6871VMM229T | PWB ASSY,MAIN(84A) [01,01] CF-21F80X CIS        |
|               | 6871VMM236U | PWB ASSY,MAIN(84A) [09,01] 20" TELESTAR         |
| 540           | 6871VSM201B | PWB ASSY,TXT                                    |
| 912           | 1PWG0302816 | SCREW,TRUSS HEAD D3 L12                         |
| 913           | 332-057B    | SCREW ASSY,HEXAGON HEAD                         |
| 943           | 1PPF0403116 | SCREW,PAN HEAD D4 L16                           |
| $\Delta$ P801 | 174-009E    | CORD,POWER(W/HOLD,HOUSING,L=200,4.0             |