



SERVICE MANUAL

This Service Manual is for the LH850-M32 (A0CF2EP) model.
For the LH850-M32 (A0CF2EP) model, the letter (A0CF2EP) is printed on the Serial Number Label on the back of the unit. Refer to the Serial Number Label below.

Serial No. Label



"A0CF2EP"

32" COLOR LCD TELEVISION LH850-M32



32" COLOR LCD TELEVISION

LH850-M32

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The LCD panel is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a tiny spec of color. This is not to be considered a defect in the LCD screen.

SPECIFICATIONS

< TUNER >

VHS/UHF Input ----- 75Ω unbal., IEC Connector
Center IF ----- SECAM-L 38.9MHz, SECAM-L' 33.9MHz

Description	Condition	Unit	Nominal	Limit
1. Video S/N	80	dB	---	40
2. Audio S/N	---	dB	---	40/40

< LCD PANEL >

Description	Condition	Unit	Nominal	Limit
1. Number of Pixels	Horizontal Vertical	pixels pixels	1366 768	--- ---
2. Viewing Angle	Horizontal Vertical	° °	-85 to 85 -80 to 80	-75 to 75 -70 to 70

<DVB-T>

Description	Condition	Unit	Nominal	Limit
1. RECEIVED FREQ.RANGE (-60dBm, 45ch.) *1, *2	+ -	kHz kHz	1000 900	500 167
2. INPUT DYNAMIC RANGE (mix./max)	①:*1 VHF HIGH 8ch. UHF 45ch.	dBuV dBuV	25/101 25/101	28/98 29/98
	②:*2 VHF HIGH 8ch. UHF 45ch.	dBuV dBuV	18/101 18/101	21/98 21/98
3. C/N PERFORMANCE (-50dBm)	①:*1 VHF HIGH 8ch. UHF 45ch.	dB dB	15 15	18 18
	②:*2 VHF HIGH 8ch. UHF 45ch.	dB dB	11 11	14 14
4. MULTIPATH (-50dBm)	UHF 45ch.			
a. Performance with short delay echoes	①:*3 ②:*4	dB dB	18.7 14.0	23 20
b. Performance with long delay echoes	①:*3 ②:*4	dB dB	19.1 13.0	23 18

*1: modulation parameters = [8k 64QAM CR=2/3 GI=1/32]

*2: modulation parameters = [8k 16QAM CR=3/4 GI=1/8]

*3: modulation parameters = [2k 64QAM CR=2/3 GI=1/32]

*4: modulation parameters = [2k 16QAM CR=3/4 GI=1/32]

< VIDEO >

Description	Condition	Unit	Nominal	Limit
1. Over Scan	Horizontal Vertical	% %	5 5	--- ---
2. Color Temperature	AT 70% WHITE FIELD x y Picture Mode: Standard Colour Temperature: Normal	°K	9200 0.286 0.295	--- ±0.008 ±0.008
3. Resolution	Horizontal Vertical	line line	400 350	--- ---
4. Brightness	AT 100% WHITE FIELD Mode: at Home	cd/m ²	201.5	---

< AUDIO >

All items are measured across 16 Ω load at speaker output terminal.

Description	Condition	Unit	Nominal	Limit
1. Audio Output Power	10% THD: Lch/Rch	W	4.5/4.5	4.0/4.0
2. Audio Distortion	500mW: Lch/Rch	%	1.5/1.5	3.0/3.0
3. Audio Freq. Response	−6dB: Lch	Hz	70 to 10 k	---
	−6dB: Rch	Hz	70 to 10 k	---
4. Audio S/N	Lch/Rch	dB	---	45/45

Note: Nominal specifications represent the design specifications. All units should be able to approximate these. Some will exceed and some may drop slightly below these specifications. Limit specifications represent the absolute worst condition that still might be considered acceptable. In no case should a unit fail to meet limit specifications.

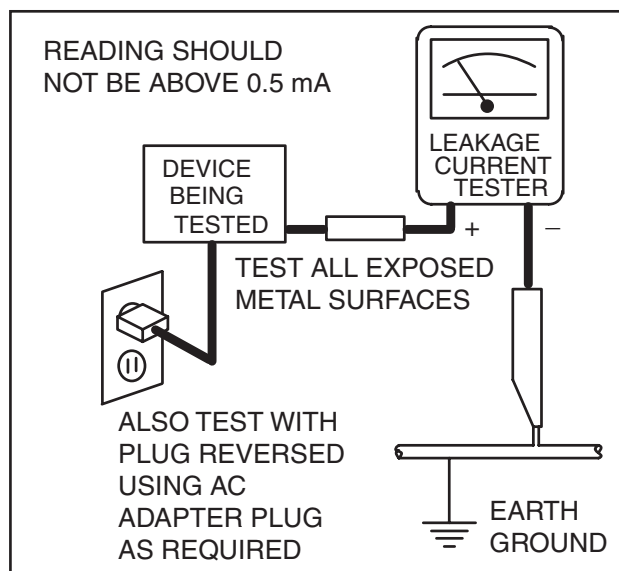
IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Safety Precautions for LCD TV Circuit

1. **Before returning an instrument to the customer**, always make a safety check of the entire instrument, including, but not limited to, the following items:
 - a. Be sure that no built-in protective devices are defective and have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
 - b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the LCD module and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
 - c. **Antenna Cold Check** - With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohm or greater than 5.2 megohm, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
 - d. **Leakage Current Hot Check** - With the instrument completely reassembled, plug the AC line cord directly into a 230 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American

National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milli-ampere. Reverse the instrument power cord plug in the outlet and repeat the test.



ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the LCD module.
3. **Design Alteration Warning** - Do not alter or add to the mechanical or electrical design of this LCD TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.

4. Hot Chassis Warning -

- a. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and maybe safety-serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter, measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0 V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.
 - b. Some TV receiver chassis normally have 85V AC(RMS) between chassis and earth ground regardless of the AC plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection.
 - c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.
5. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: a. near sharp edges, b. near thermally hot parts-be sure that leads and components do not touch thermally hot parts, c. the AC supply, d. high voltage, and, e. antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check AC power cord for damage.
6. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

7. **Product Safety Notice** - Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc.. Parts that have special safety characteristics are identified by a  on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The product's safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are strictly inspected to confirm they comply with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- A.** Parts identified by the ⚠ symbol are critical for safety.
Replace only with part number specified.
- B.** In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.
- C.** Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- D.** Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers
 - 4) Insulators for transistors.
- E.** When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.
- F.** Observe that the wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.)
- G.** Check that replaced wires do not contact sharp edged or pointed parts.
- H.** When a power cord has been replaced, check that 5~6 kg of force in any direction will not loosen it.
- I.** Also check areas surrounding repaired locations.
- J.** Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- K.** When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC supply outlet.
- L.** When installing parts or assembling the cabinet parts, be sure to use the proper screws and tighten certainly.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1 : Ratings for selected area

AC Line Voltage	Clearance Distance (d), (d')
220 to 240 V	$\geq 3\text{mm}(d)$ $\geq 8\text{mm}(d')$

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method : (Power ON)

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z . See Fig. 2 and following table.

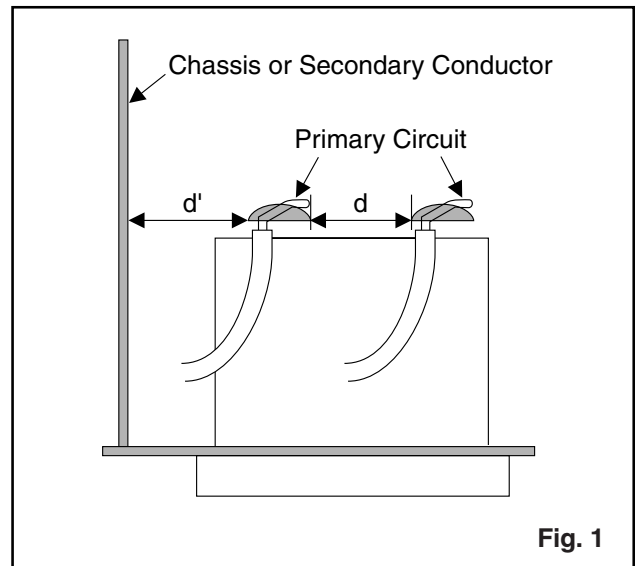


Fig. 1

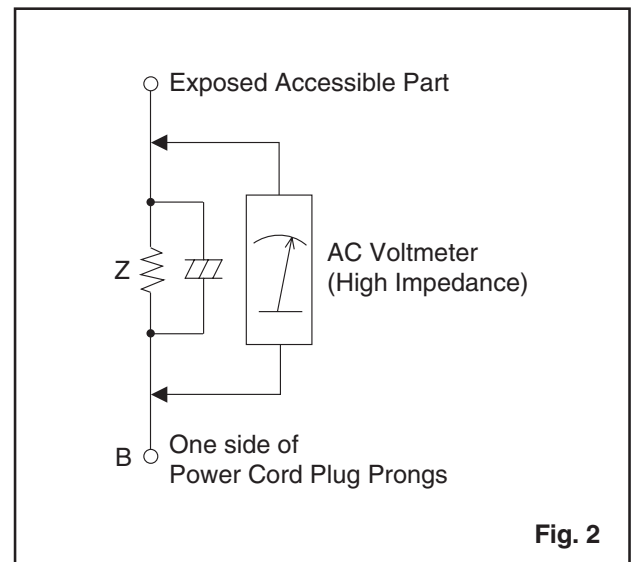


Fig. 2

Table 2: Leakage current ratings for selected areas

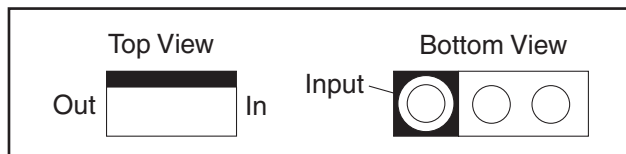
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2k Ω RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	RF or Antenna terminals
	50k Ω RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	A/V Input, Output

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

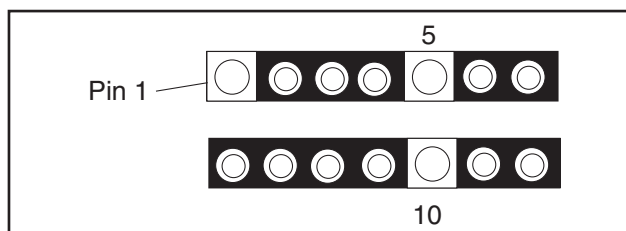
STANDARD NOTES FOR SERVICING

Circuit Board Indications

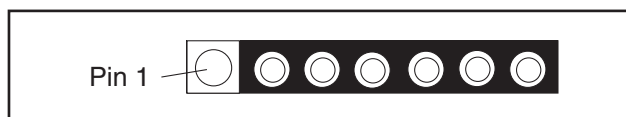
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

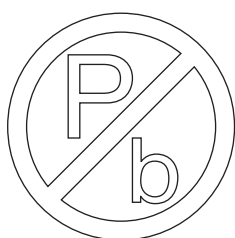


3. The 1st pin of every male connector is indicated as shown.



Pb (Lead) Free Solder

Pb free mark will be found on PCBs which use Pb free solder. (Refer to figure.) For PCBs with Pb free mark, be sure to use Pb free solder. For PCBs without Pb free mark, use standard solder.



Pb free mark

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

1. Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

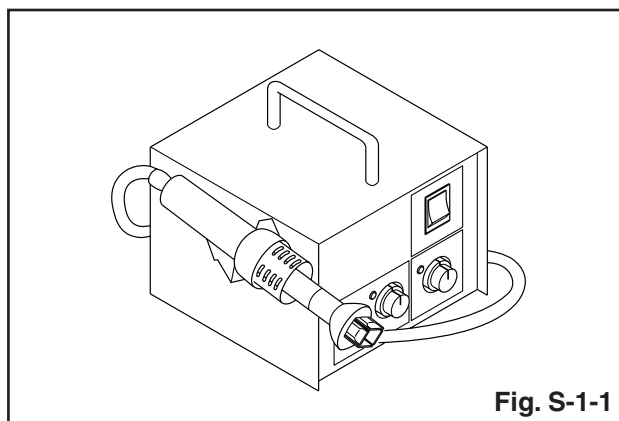


Fig. S-1-1

2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

CAUTION:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

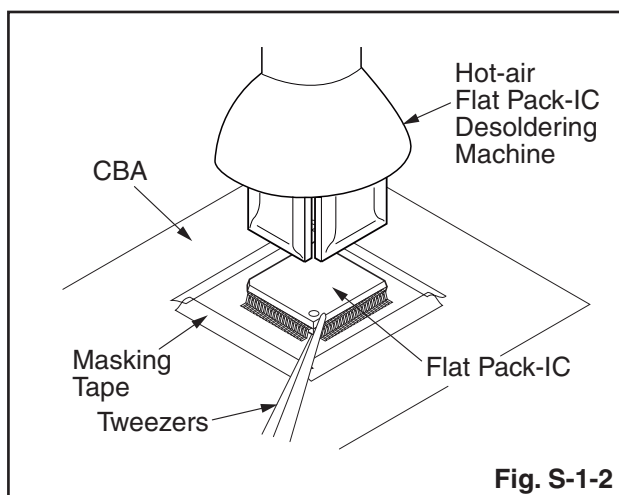
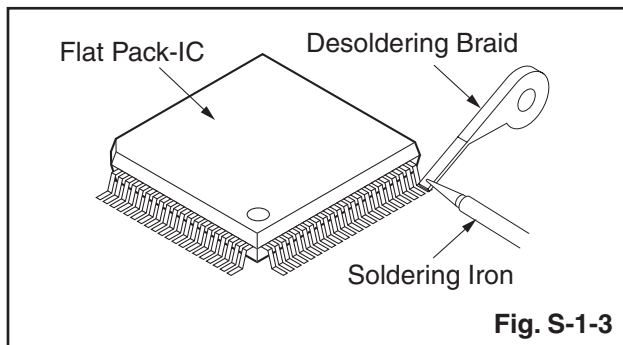


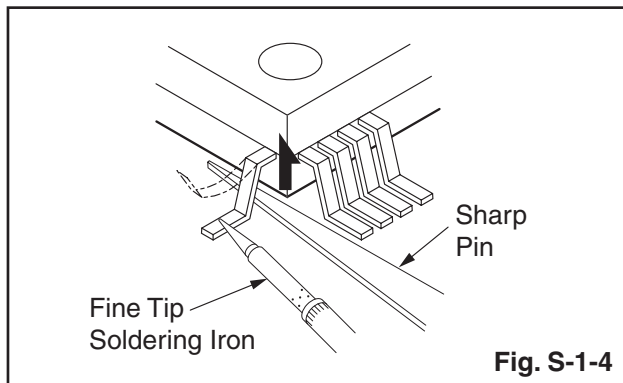
Fig. S-1-2

With Soldering Iron:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)



2. Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

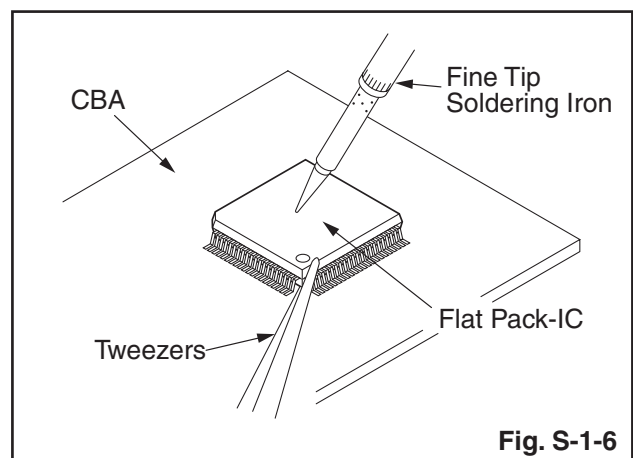
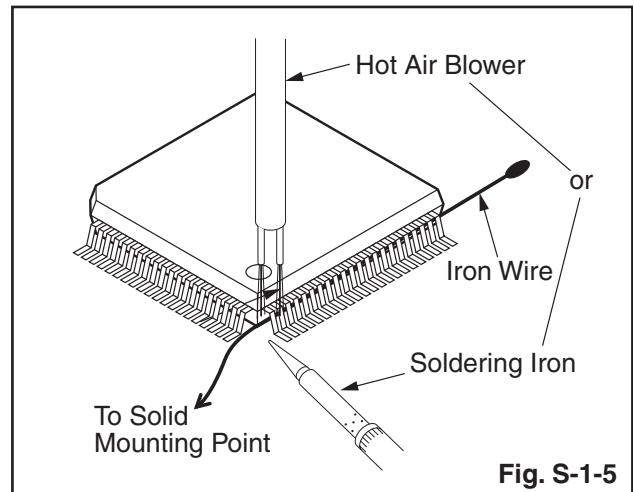


3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

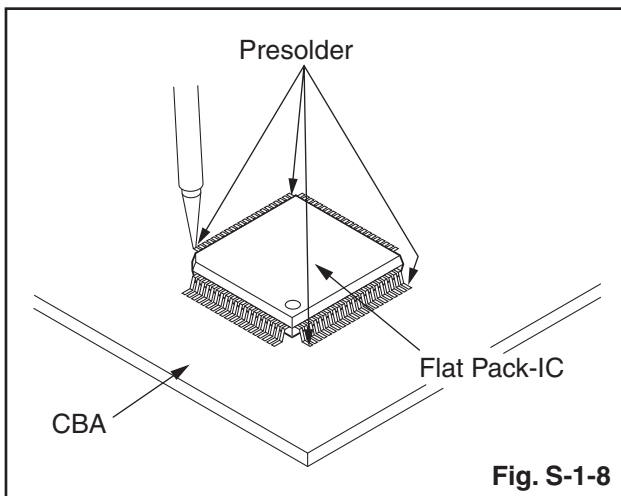
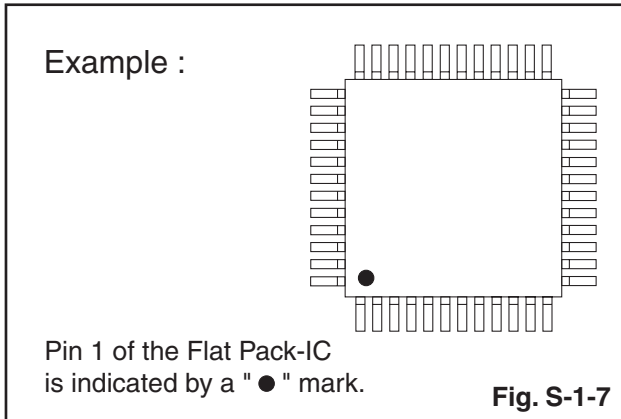
1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
4. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
5. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note: When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.



2. Installation

1. Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
2. The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the pin 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
3. Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.



Instructions for Handling Semi-conductors

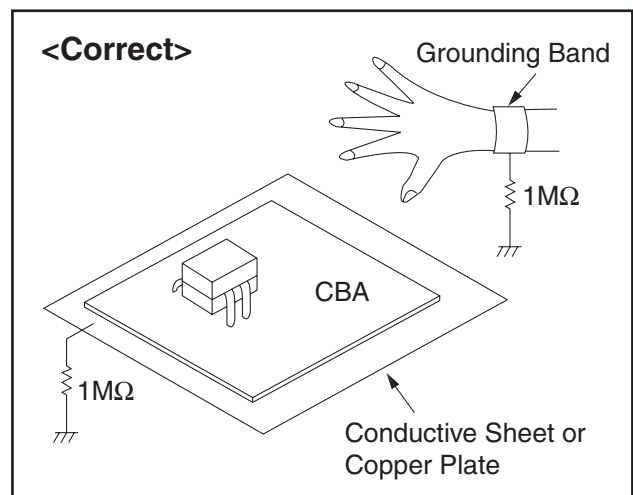
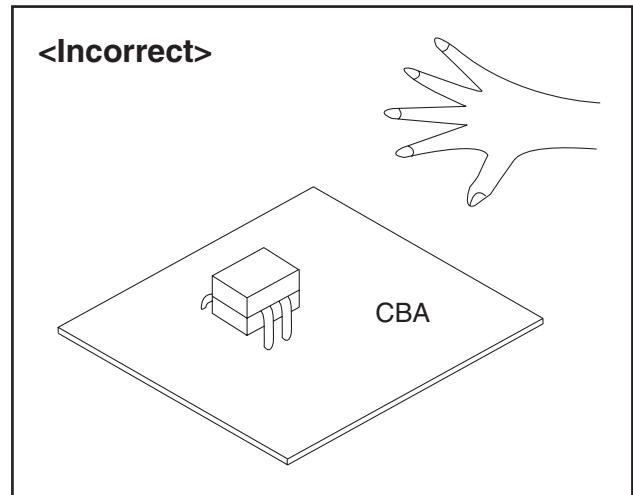
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

Be sure to wear a grounding band (1 M Ω) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

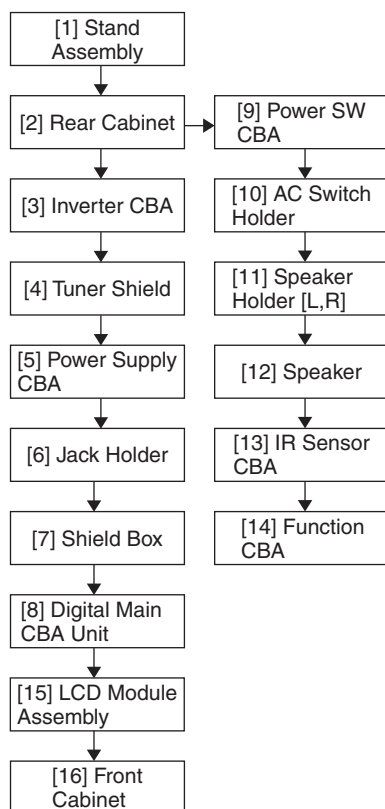
Be sure to place a conductive sheet or copper plate with proper grounding (1 M Ω) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.



CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps for the cabinet parts, and the CBA in order to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route and dress the cables as they were.



2. Disassembly Method

Step/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder	Note
[1]	Stand Assembly	D1	4(S-1)	---
[2]	Rear Cabinet	D1	13(S-2), 2(S-3), 3(S-4), (S-5)	---
[3]	Inverter CBA	D2 D5	6(S-6), *CN1001, *CN1003, *CN1050, *CN1100, *CN1150, *CN1200, *CN1900	---
[4]	Tuner Shield	D2	2(S-7)	---
[5]	Power Supply CBA	D2 D5	6(S-8), *CN101, *CN401, *CN402, *CN403, *CN404, *CN701 *CN801, *CN802, Jack Holder (HP)	---
[6]	Jack Holder	D2	2(S-9)	---

Step/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder	Note
[7]	Shield Box	D2	3(S-10), 2(S-11), 5(S-12), 2(S-12A), 2(H-1), *CN3901	---
[8]	Digital Main CBA Unit	D2 D5	-----	---
[9]	Power SW CBA	D3	(S-13)	---
[10]	AC Switch Holder	D3	2(S-14)	---
[11]	Speaker Holder [L,R]	D4	4(S-15), *Hook	---
[12]	Speaker	D4	-----	---
[13]	IR Sensor CBA	D4 D5	2(S-16), *CL103A	---
[14]	Function CBA	D4 D5	3(S-17)	---
[15]	LCD Module Assembly	D4	(S-18)	---
[16]	Front Cabinet	D4	-----	---
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)

Note:

- (1) Order of steps in procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the Identification (location) No. of parts in figures.
- (2) Parts to be removed or installed.
- (3) Fig. No. showing procedure of part location
- (4) Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
N = Nut, L = Locking Tab, S = Screw,
H = Hex Screw, CN = Connector
* = Unhook, Unlock, Release, Unplug, or Desolder
e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)
- (5) Refer to the following "Reference Notes in the Table."

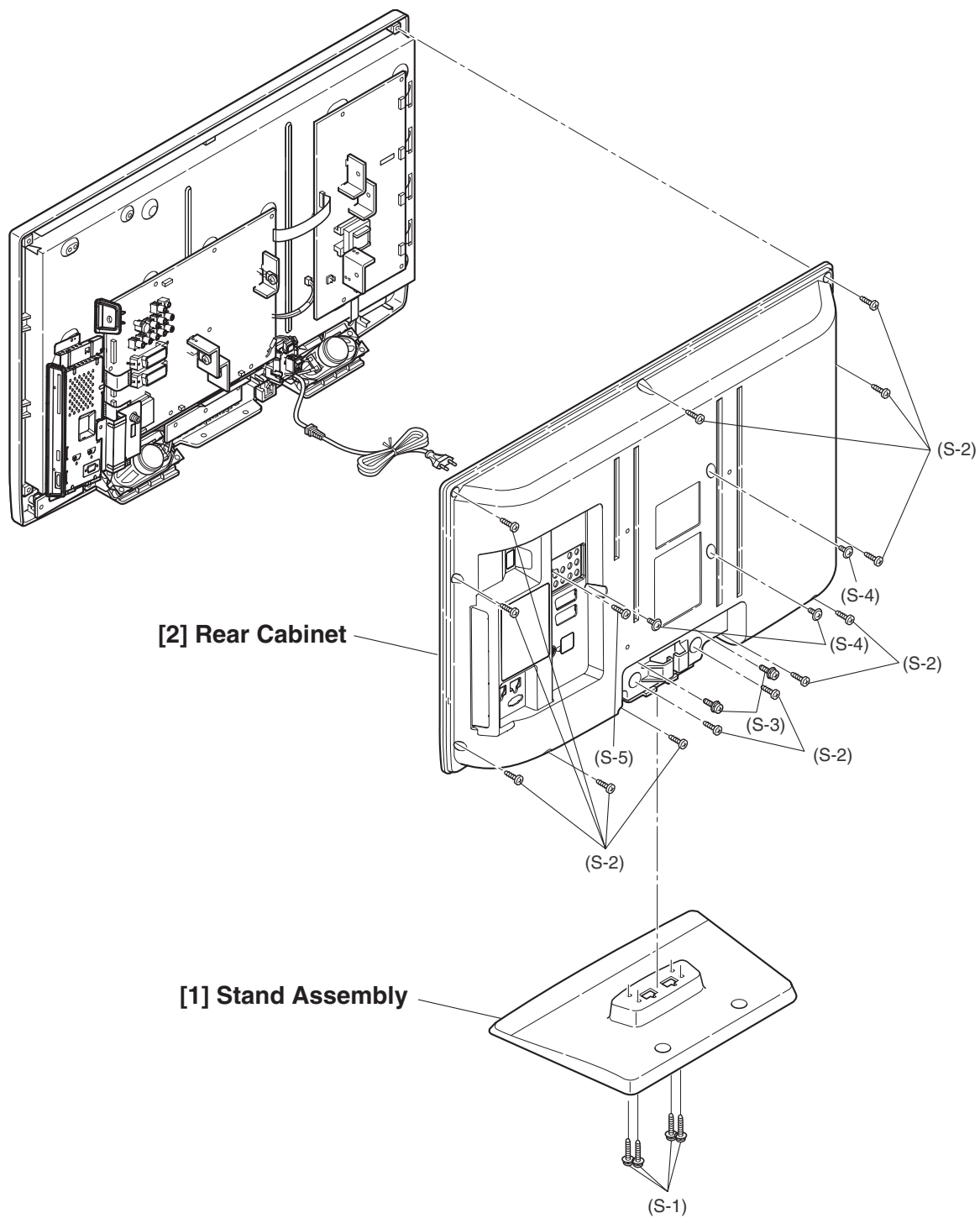


Fig. D1

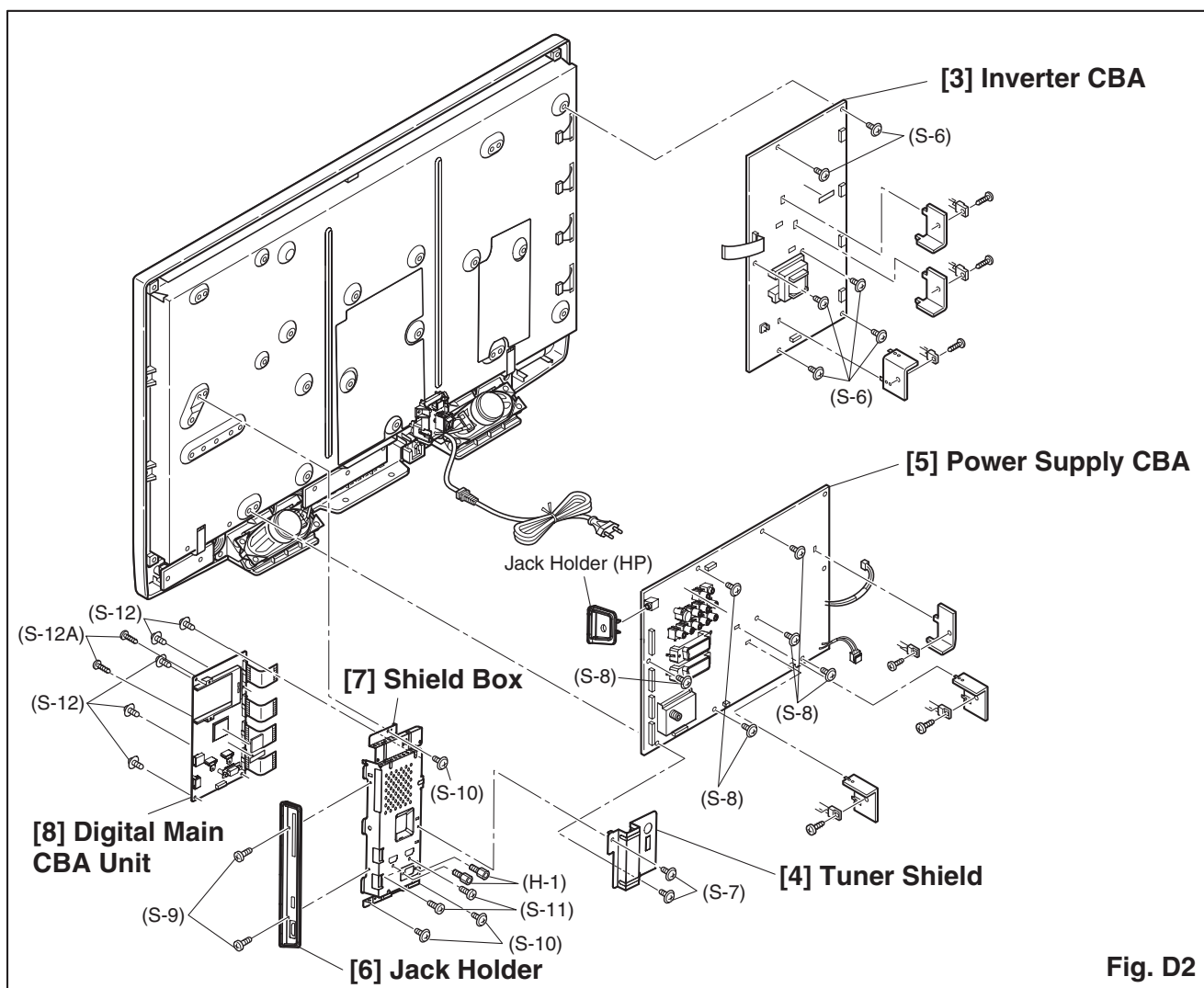


Fig. D2

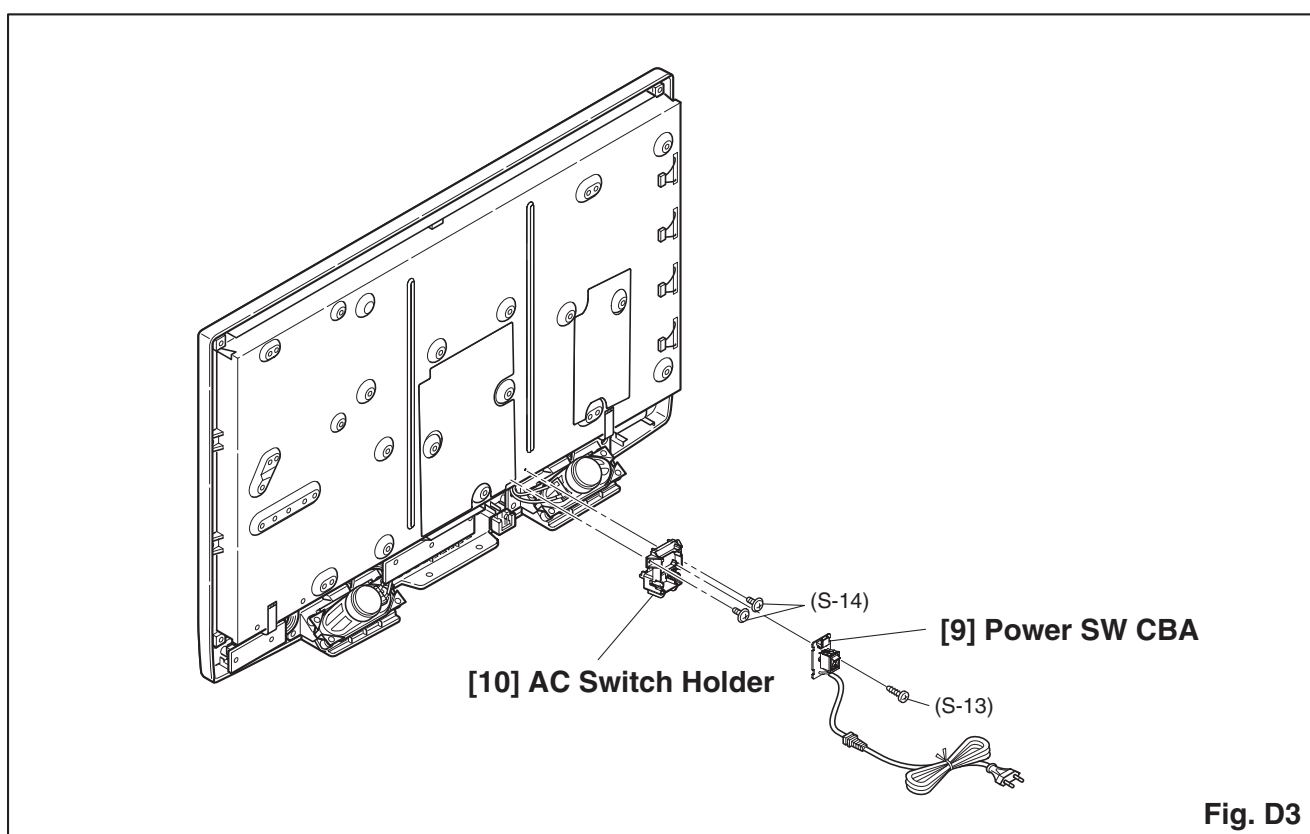


Fig. D3

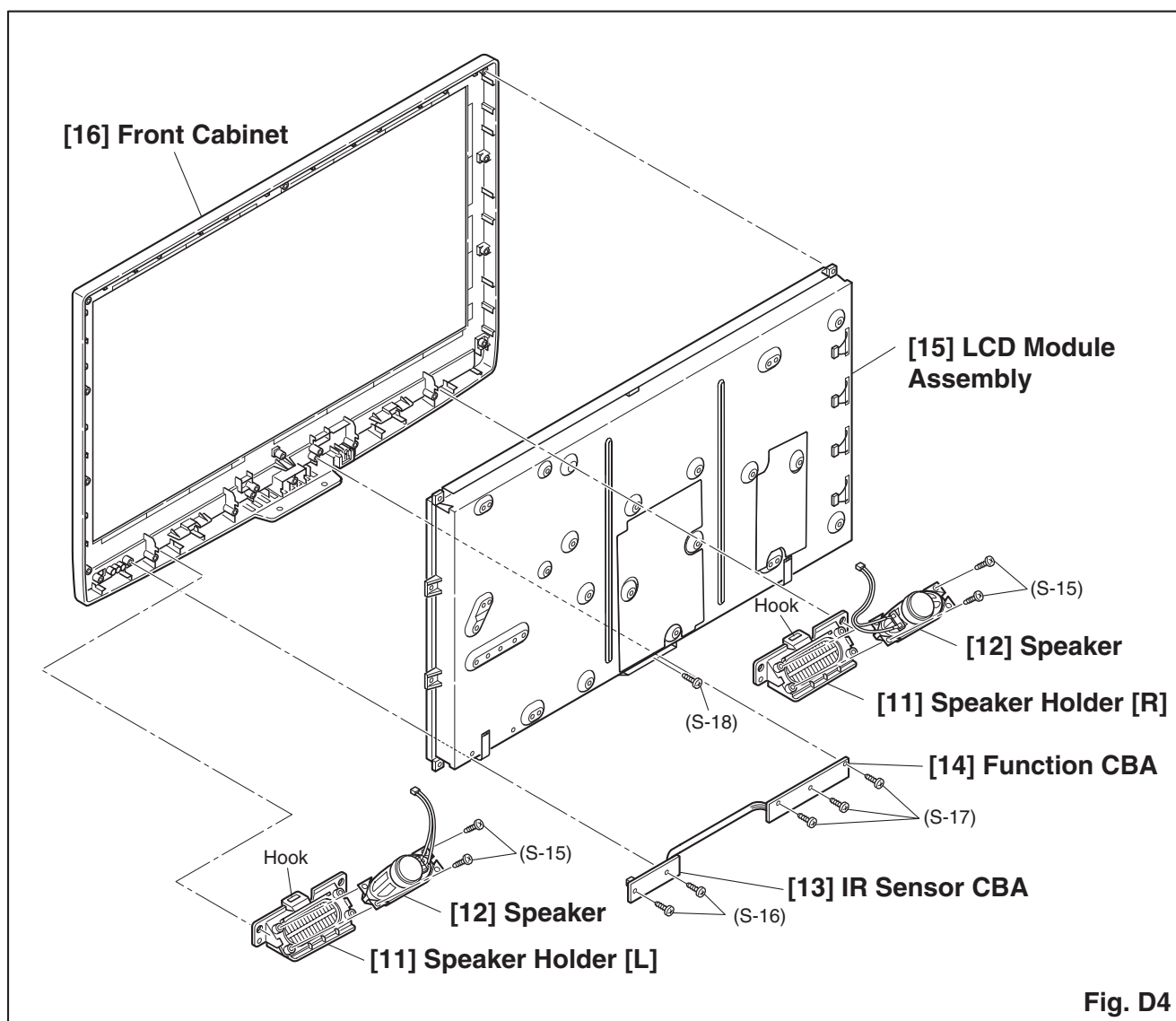
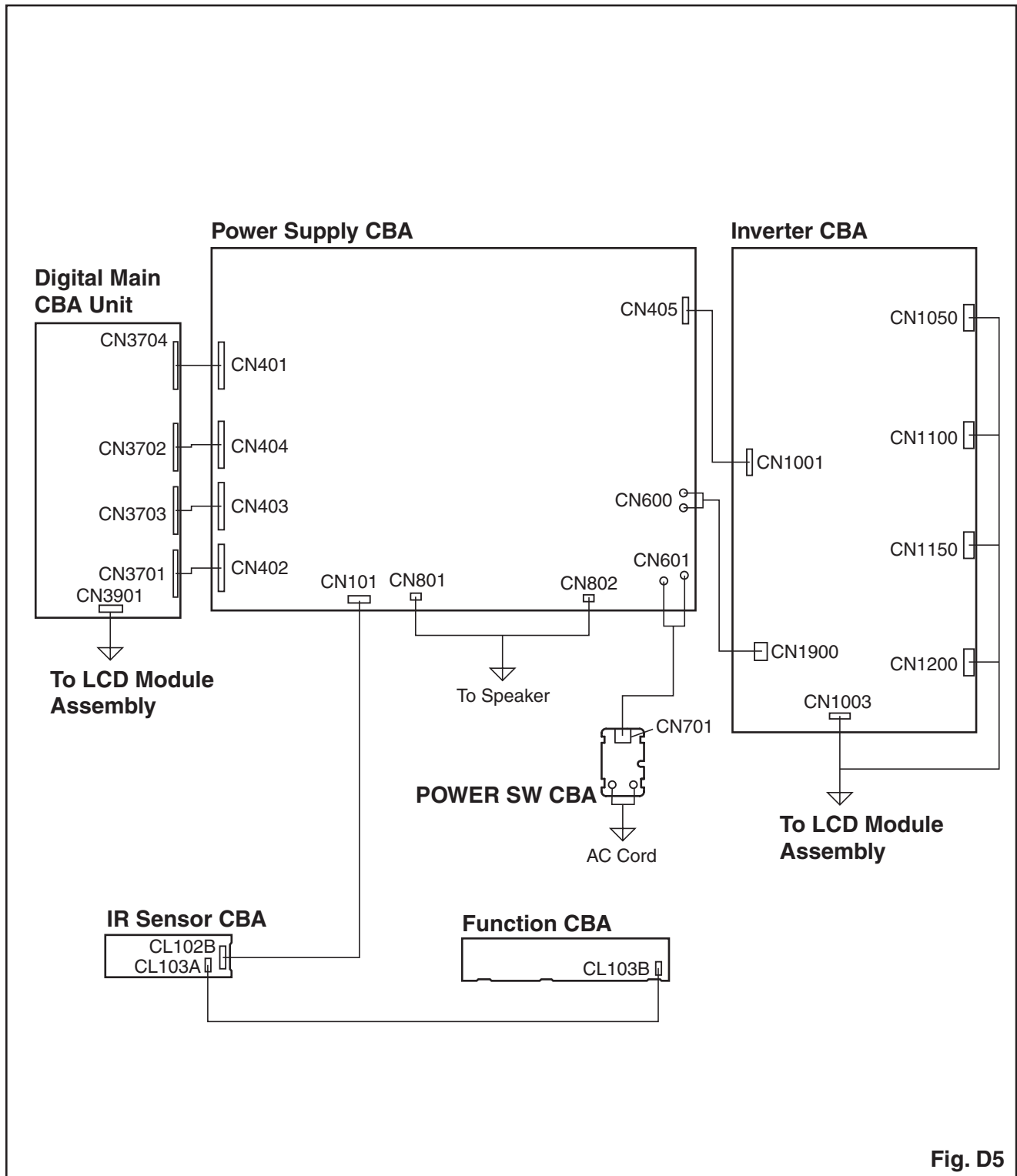


Fig. D4

TV Cable Wiring Diagram



ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: “CBA” is abbreviation for “Circuit Board Assembly.”

Note: Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.

Test Equipment Required

1. NTSC Pattern Generator (Color Bar W/White Window, Red Color, Dot Pattern, Gray Scale, Monoscope, Multi-Burst)
2. Remote control unit
3. Color Analyzer

How to set up the service mode:

Service mode:

1. Turn the power on.
2. Press [MENU] button to display Setup menu.
3. Select “Software” in “OTHERS” and press [OK] button.
4. Press [0], [4], [2], [5], [7], [4] and [**i**] buttons on the remote control unit in this order. The following screen appears.

“*” differs depending on the models.

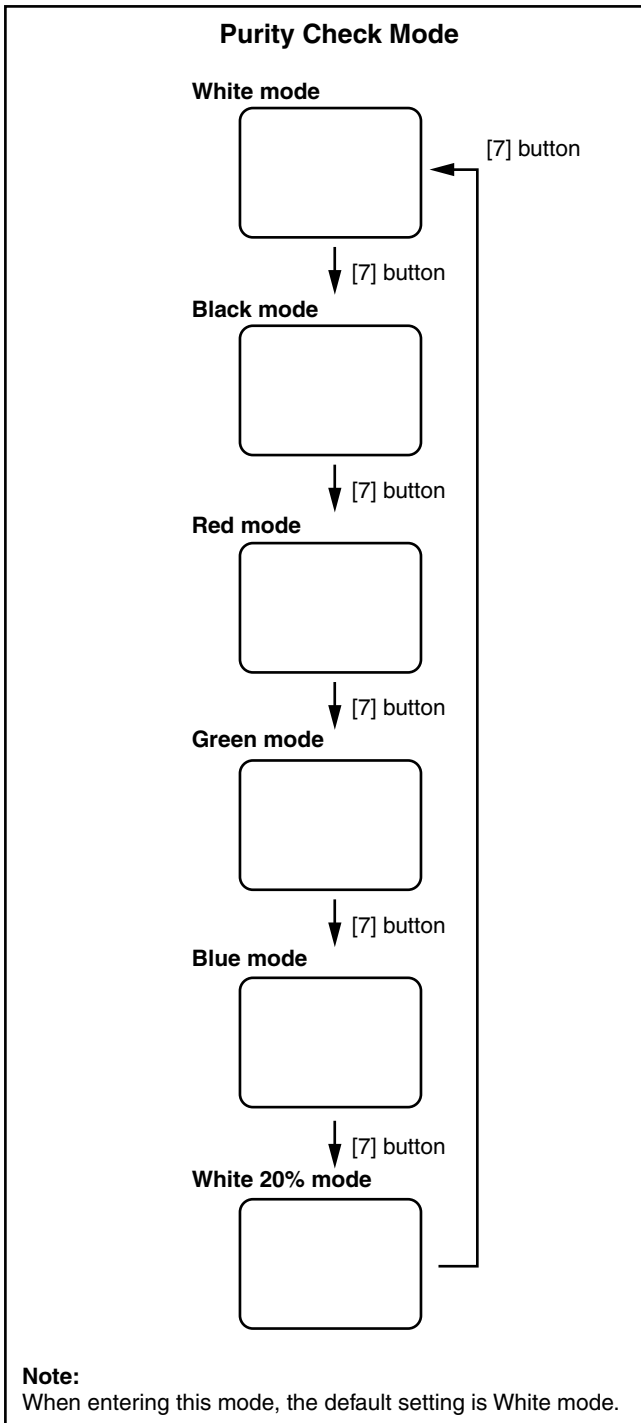
```
Code : *****_**_*_*
Pic code : ** ***** ** *
Inch : *** ***** - - -
MIPS : ****
```

Safety : Safety_Non

1. Purity Check Mode

This mode cycles through full-screen displays of red, green, blue, and white to check for non-active pixels.

1. Enter the Service mode.
2. Each time pressing [7] button on the remote control unit, the display changes as follows.

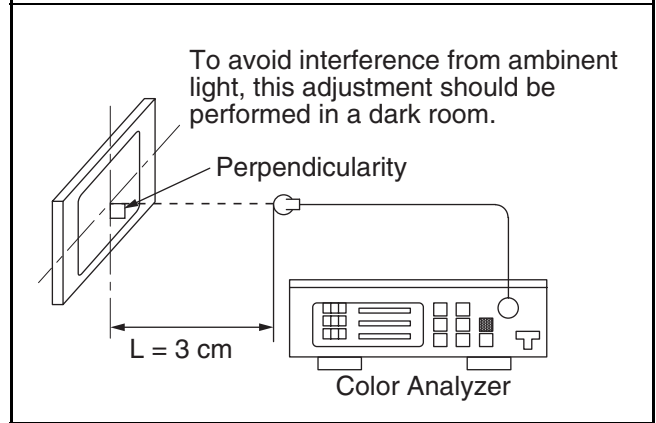


3. To cancel or to exit from the Purity Check Mode, press [BACK] button.

2. VCOM Adjustment

Test Point	Adj. Point
Screen	[P ^ / ∨] buttons
M. EQ.	Spec.
Color analyzer	See below

Figure



1. Operate the unit for more than 20 minutes.
2. Set the color analyzer and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.
Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
3. Enter the Service mode.
4. To enter the "VCOM-2 adjustment mode", press [3] button on the remote control unit.
To enter the "VCOM-1 adjustment mode", press [2] button on the remote control unit.
5. Press [P ^ / ∨] buttons on the remote control unit so that the color analyzer value becomes minimum.
6. To cancel or to exit from the VCOM Adjustment, press [BACK] button.

The White Balance Adjustment should be performed when replacing the LCD Panel or Digital Main CBA.

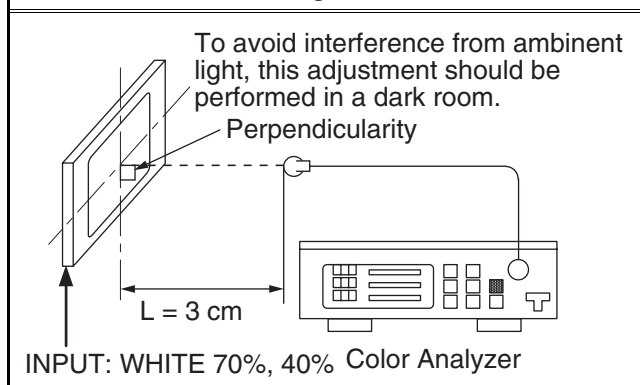
3. White Balance Adjustment

Purpose: To mix red, green and blue beams correctly for pure white.

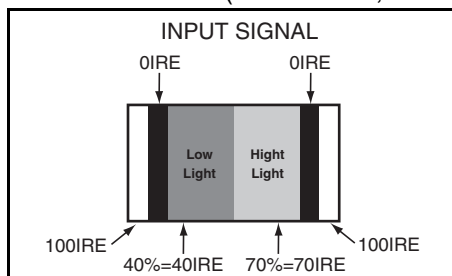
Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	[P ^ / v] buttons	[VIDEO1] C/D	White Raster (APL 70%) or (APL 40%)
M. EQ.		Spec.	
Pattern Generator, Color analyzer		$x = 0.286 \pm 0.005$ $y = 0.295 \pm 0.005$	

Figure



1. Operate the unit for more than 20 minutes.
2. Input the White Raster(70%=70IRE, 40%=40IRE).



3. Set the color analyzer to the CHROMA mode and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.

Note: The optical receptor must be set perpendicularly to the LCD Panel surface.

4. Enter the Service mode. Press [▲ -] button on the remote control unit and select "C/D" mode.

5. **[CUTOFF]**
Press [1] button to select "COR" for Red Cutoff adjustment. Press [3] button to select "COB" for Blue Cutoff adjustment.
[DRIVE]
Press [4] button to select "DR" for Red Drive adjustment. Press [6] button to select "DB" for Blue Drive adjustment.
6. In each color mode, press [P ^ / v] buttons to adjust the values of color.
7. Adjust Cutoff and Drive so that the color temperature becomes 9200°K ($x = 0.286$ / $y = 0.295 \pm 0.005$).
8. To cancel or to exit from the White Balance Adjustment, press [BACK] button.

HOW TO INITIALIZE THE LCD TELEVISION

How to initialize the LCD television:

1. Turn the power on.
2. Enter the service mode. (Refer to page 5-1.)
 - To cancel the service mode, press [⏻] button on the remote control unit.
3. Press [i] button on the remote control unit to initialize the LCD television.
4. "INITIALIZED" will appear in the upper right of the screen. "INITIALIZED" color will change to green from red when initializing is complete.

FIRMWARE RENEWAL MODE

Equipment Required

- a. USB storage device
- b. Remote Control Unit

Firmware Update Procedure

[Check the current version]

1. Press [MENU] button on the remote control unit to display the menu mode.
2. Press [▲] or [▼] to select "OTHERS", then press [OK] button.
3. Press [▲] or [▼] to select "Software", then press [OK] button.

The current FW version will be displayed.

[Preparation]

1. Prepare USB storage device.
2. Copy F/W-file (ecc file) to USB storage device.
Note: Make sure to use the blank USB Storage.
3. Rename the F/W-file's name.

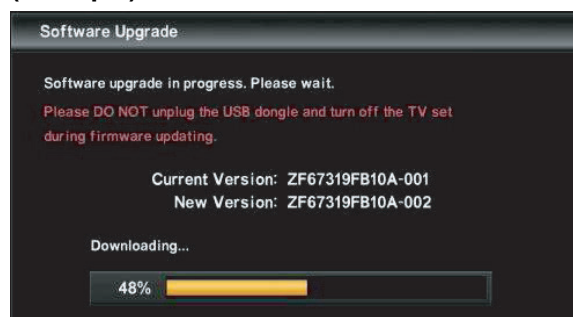
Step1. Add the "_F" at the end of the name.
(If the file name in USB says "ZF6731915NOS-030-05.ecc", the new file name should be "ZF6731915NOS-030-05_F.ecc".)

Step2. The 6th and 7th digit of the file name indicate the size of TV. If the size of your TV and the file name were not the same, you must change the file name.

[Update procedure]

1. Plug in the AC power cord.
2. Press [⏻] button on the remote control unit to turn off (standby).
3. Check "STAND BY" indicator (Red LED) lighting.
4. Insert USB storage device with F/W to TV set.
5. Press [⏻] button to turn on.
6. After approximately 70 seconds, the following will appear on the screen and the update begins automatically.

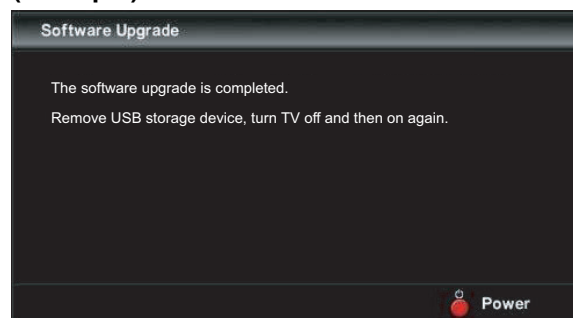
(Example)



Note: Do not turn off the TV set and do not remove the USB storage device while this procedure.

The update will be completed in about 2 minutes. And the following screen appears.

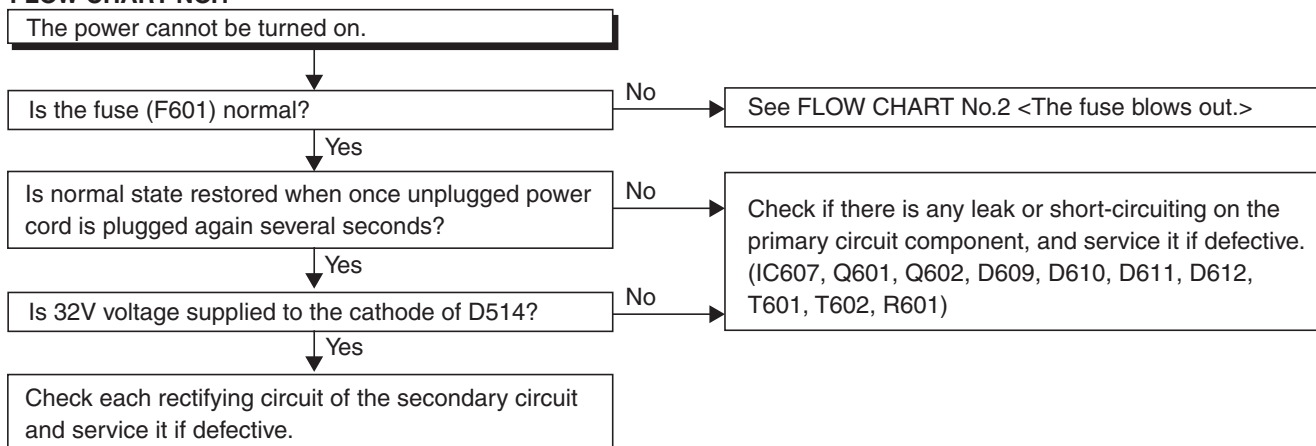
(Example)



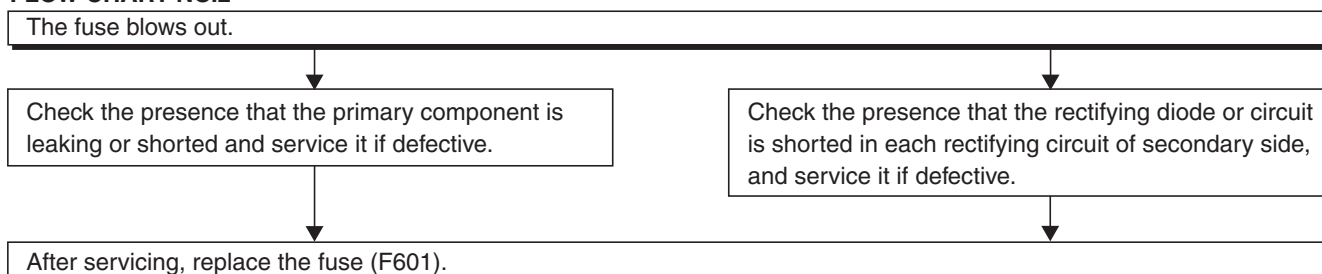
7. Press [⏻] button to turn off (standby).
8. Check "STAND BY" indicator (Red LED) lighting.
9. Remove USB storage device from TV set.
10. Press [⏻] button to turn on.

TROUBLESHOOTING

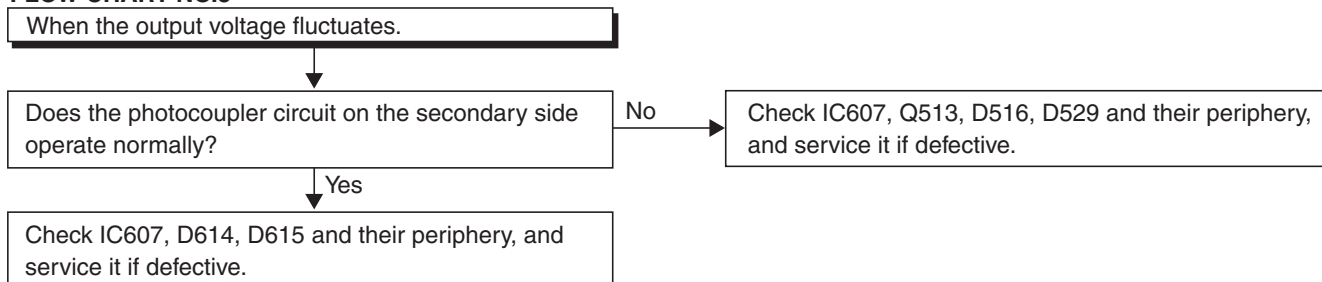
FLOW CHART NO.1



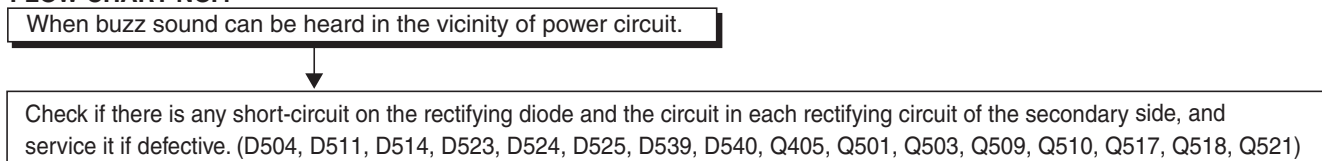
FLOW CHART NO.2



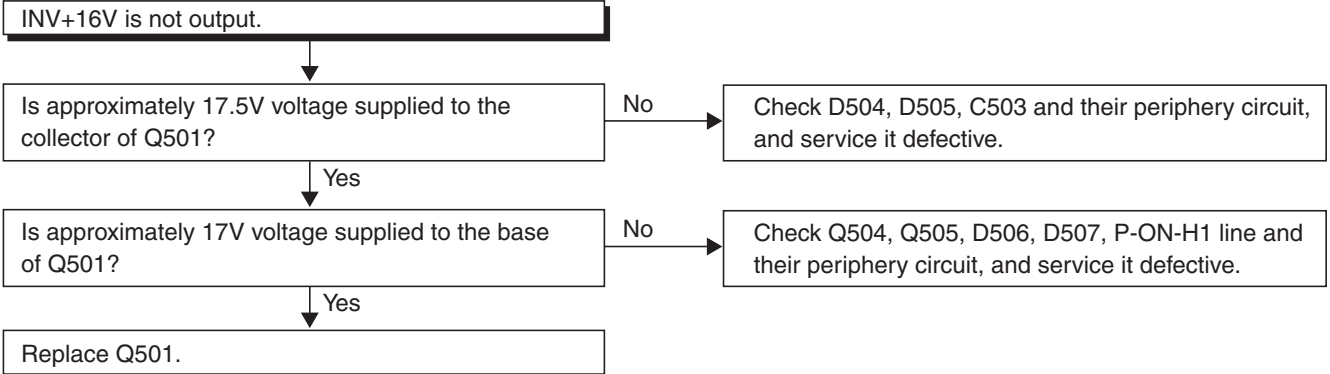
FLOW CHART NO.3



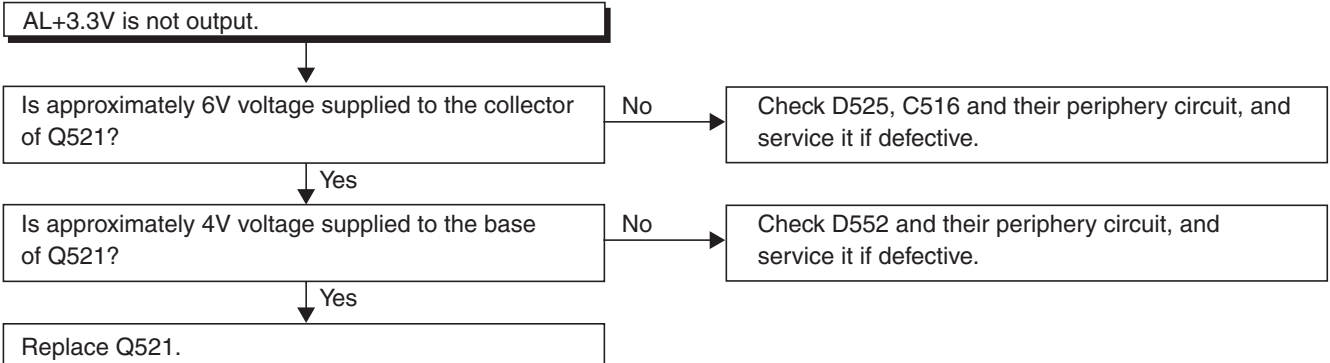
FLOW CHART NO.4



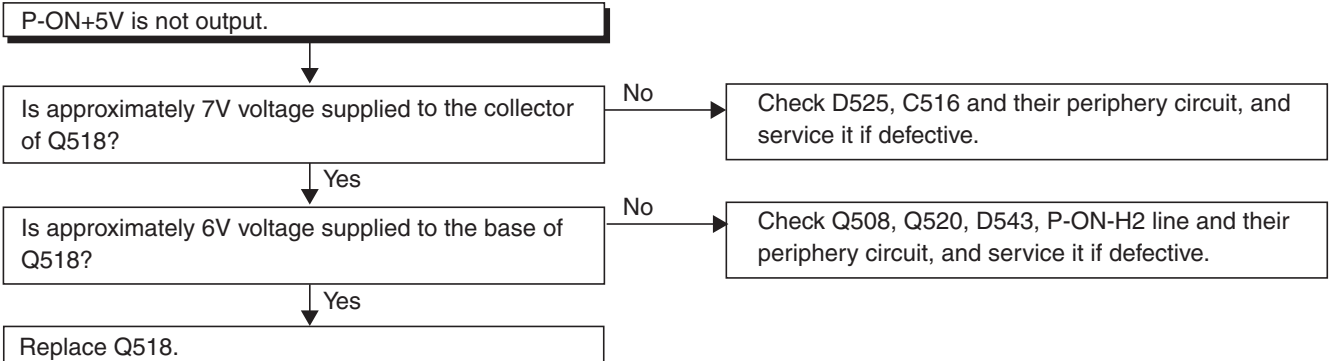
FLOW CHART NO.5



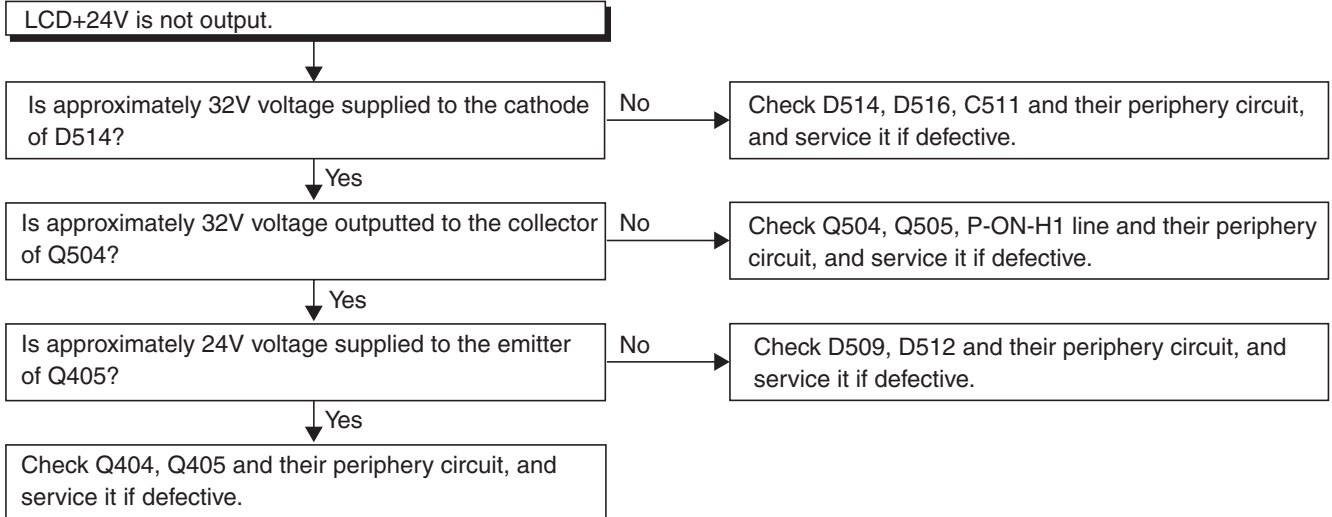
FLOW CHART NO.6



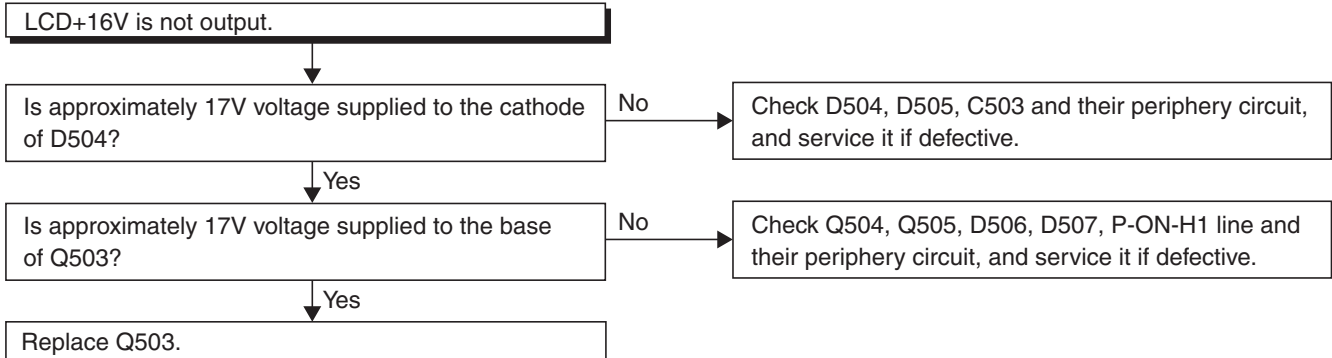
FLOW CHART NO.7



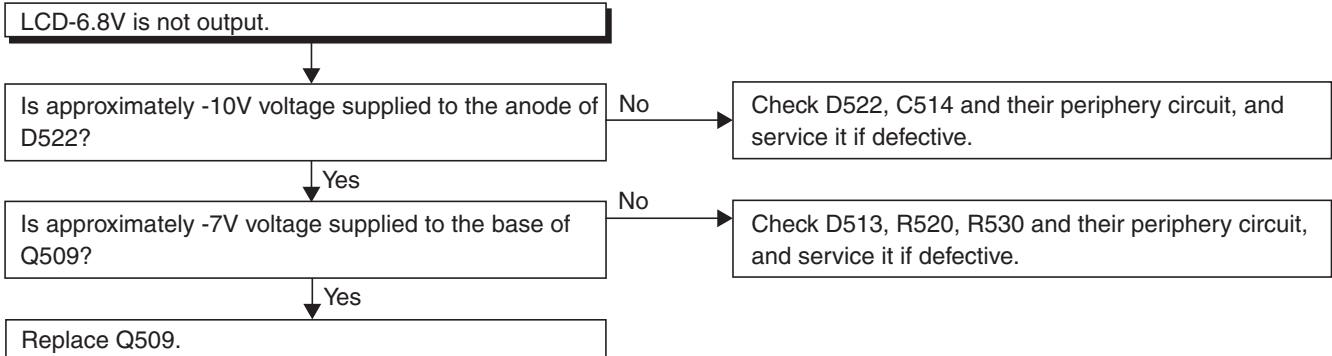
FLOW CHART NO.8



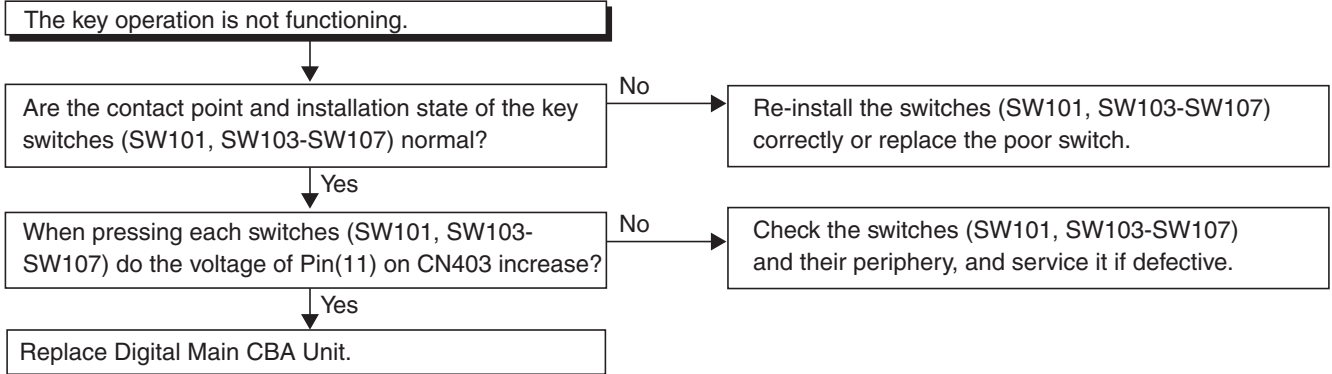
FLOW CHART NO.9



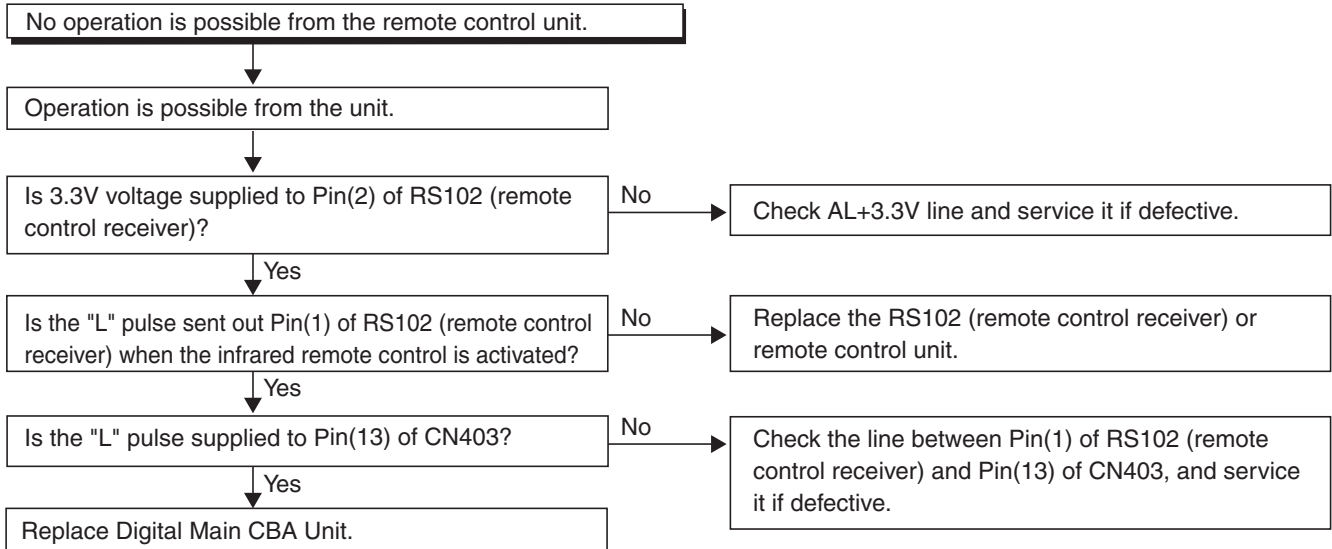
FLOW CHART NO.10



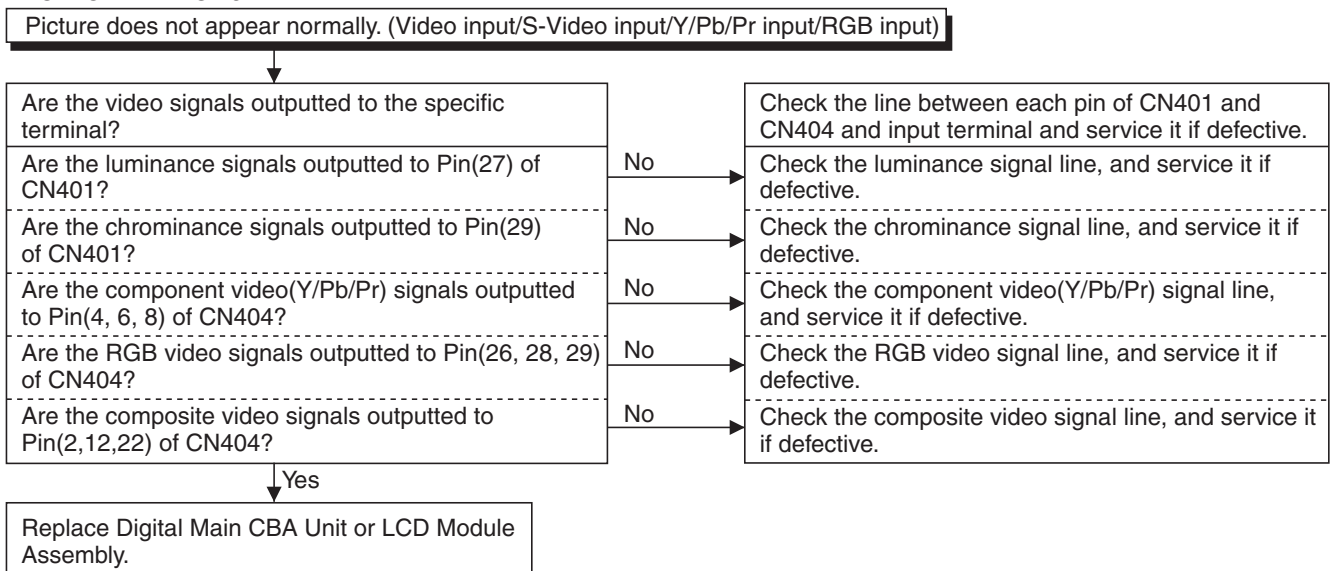
FLOW CHART NO.11



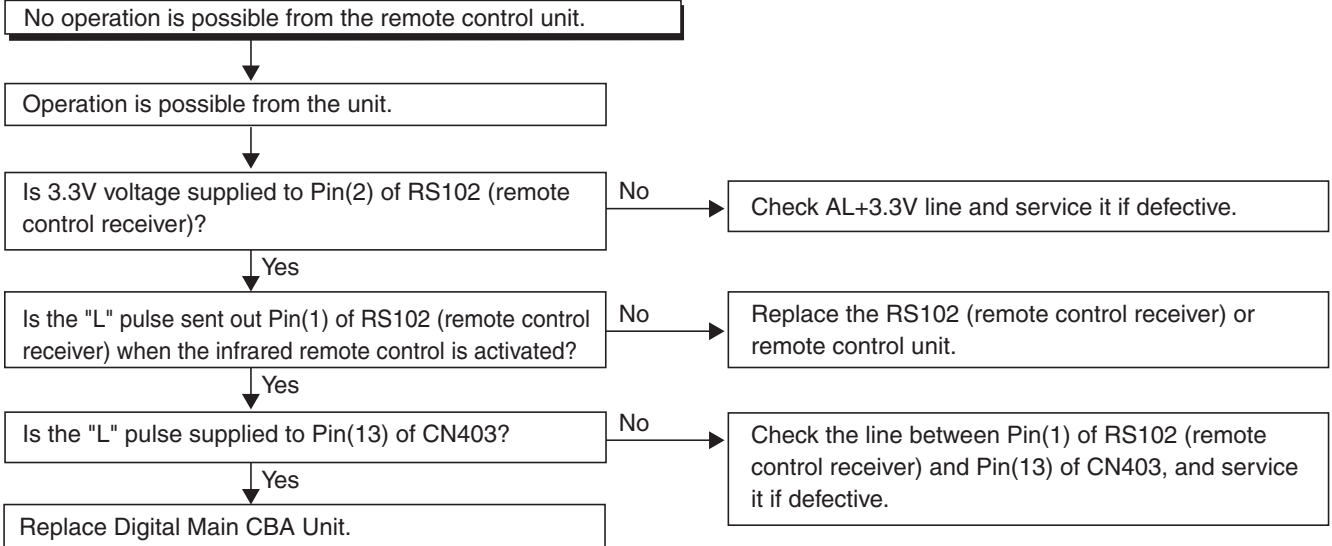
FLOW CHART NO.12



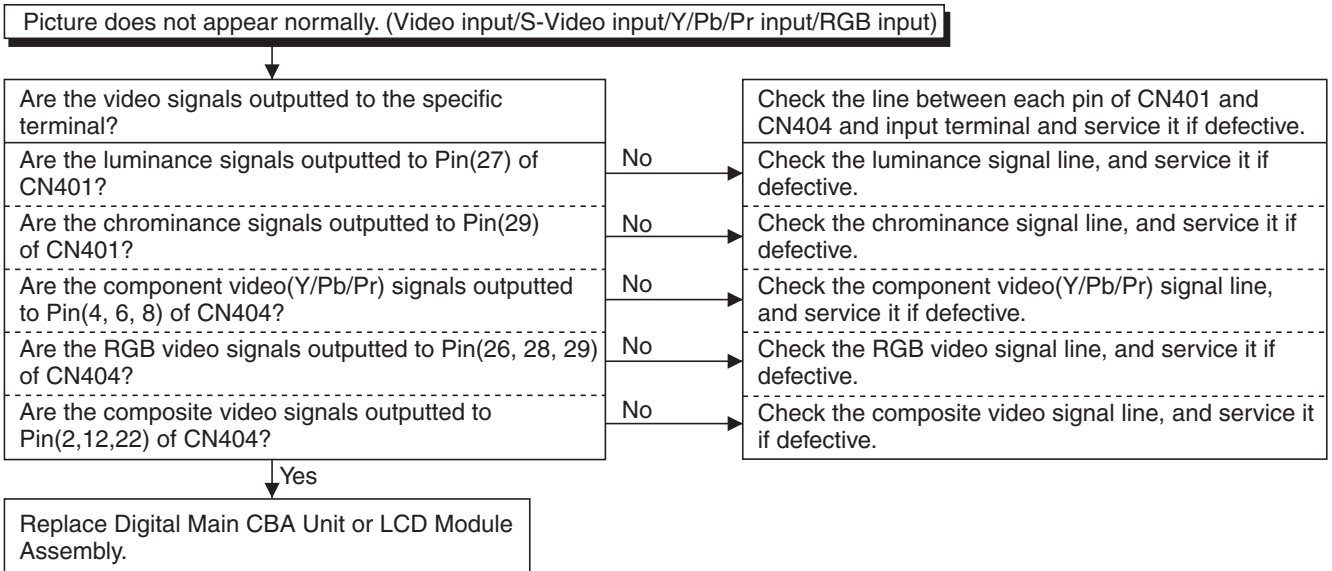
FLOW CHART NO.13



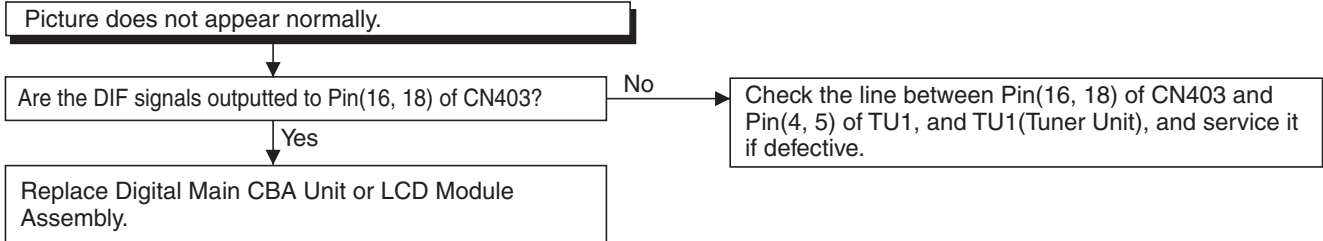
FLOW CHART NO.14



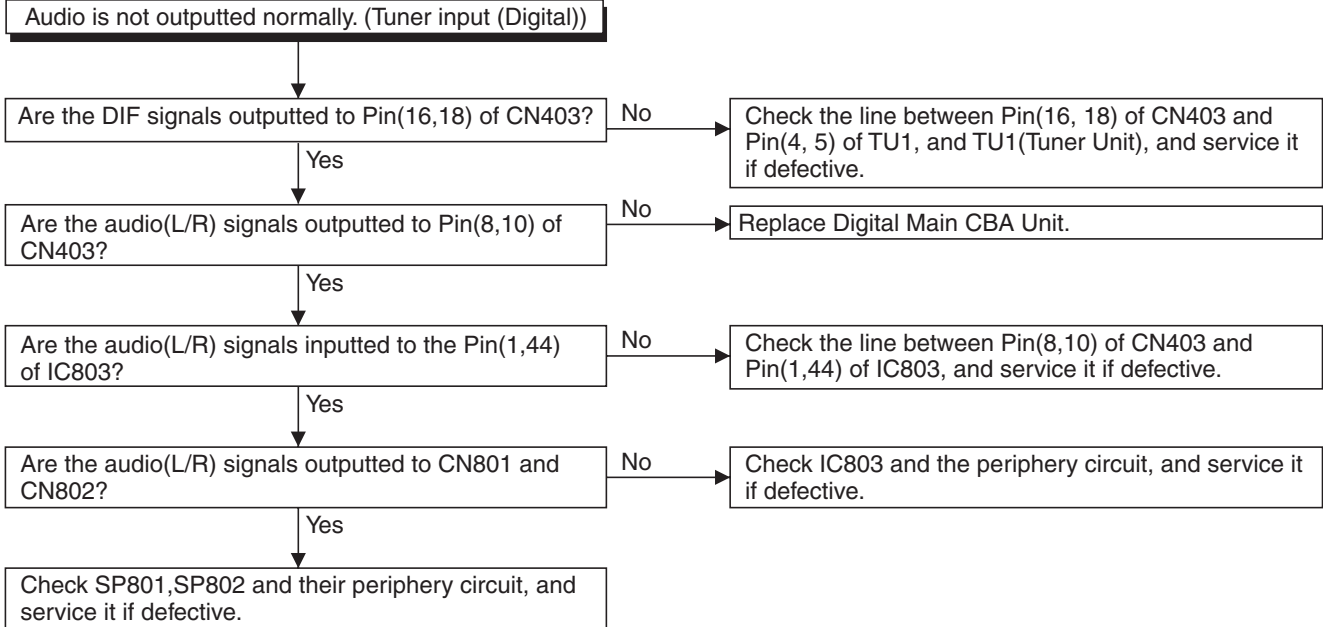
FLOW CHART NO.15



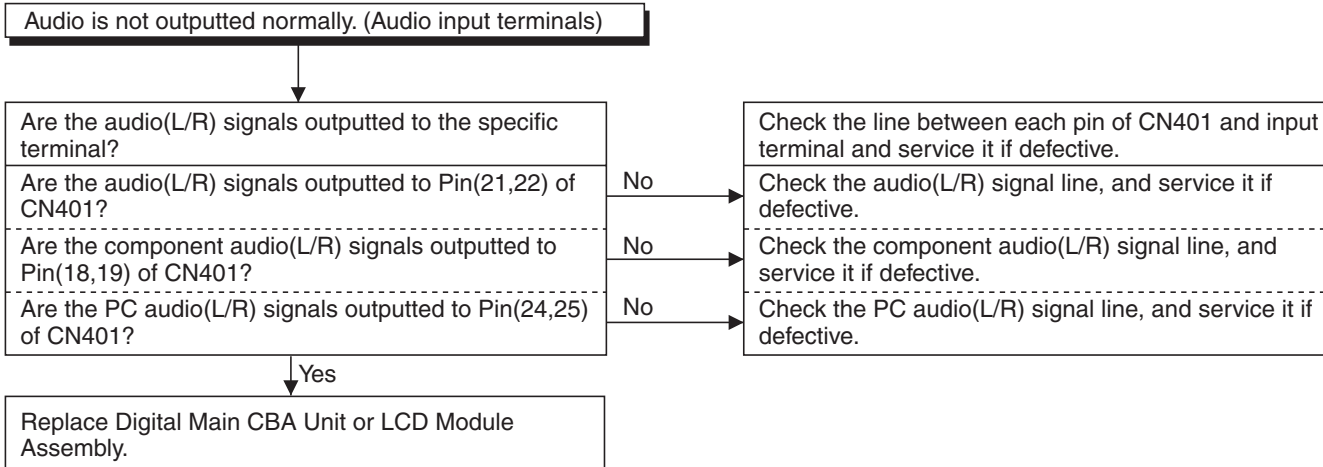
FLOW CHART NO.16



FLOW CHART NO.17

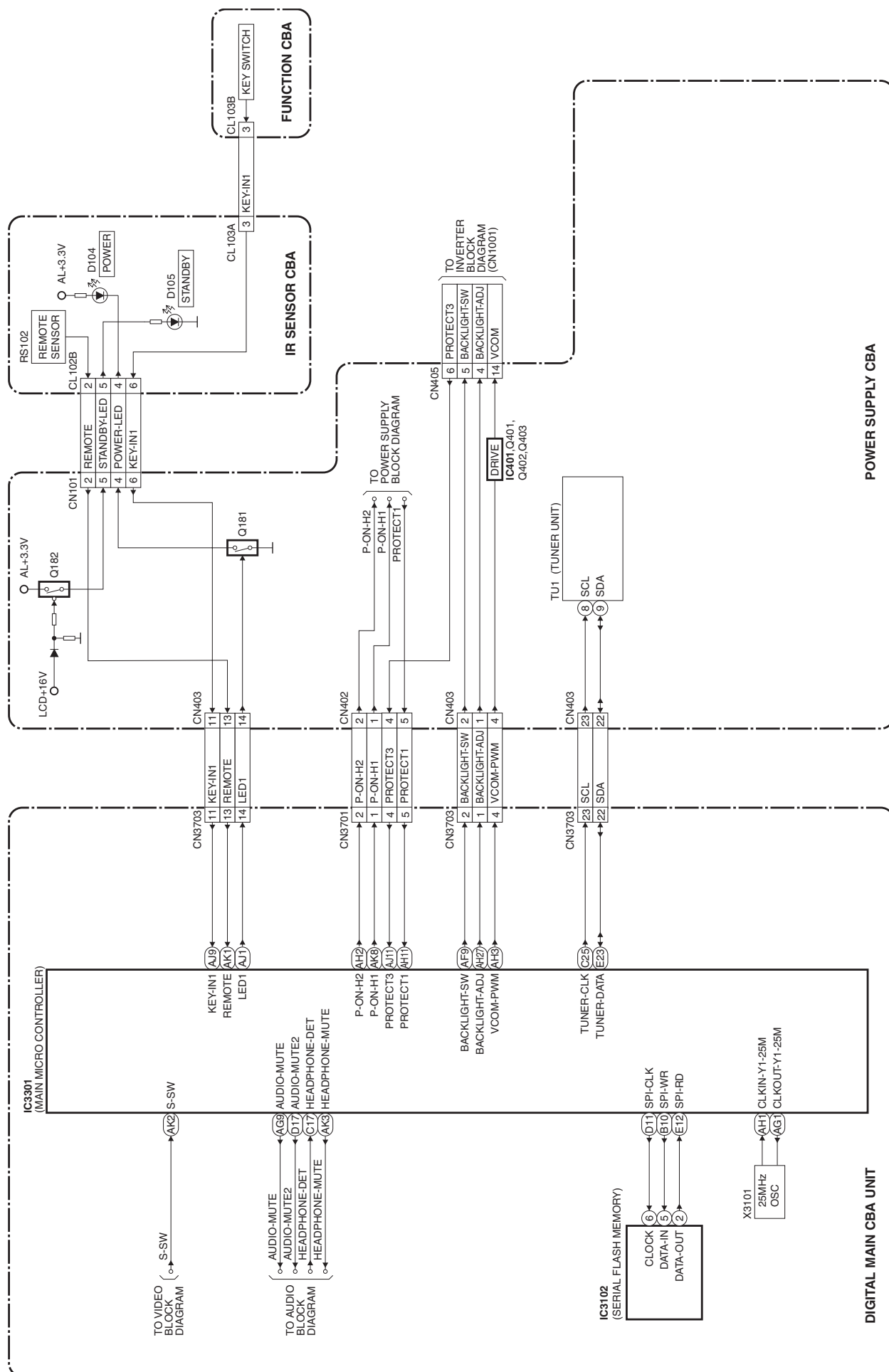


FLOW CHART NO.18

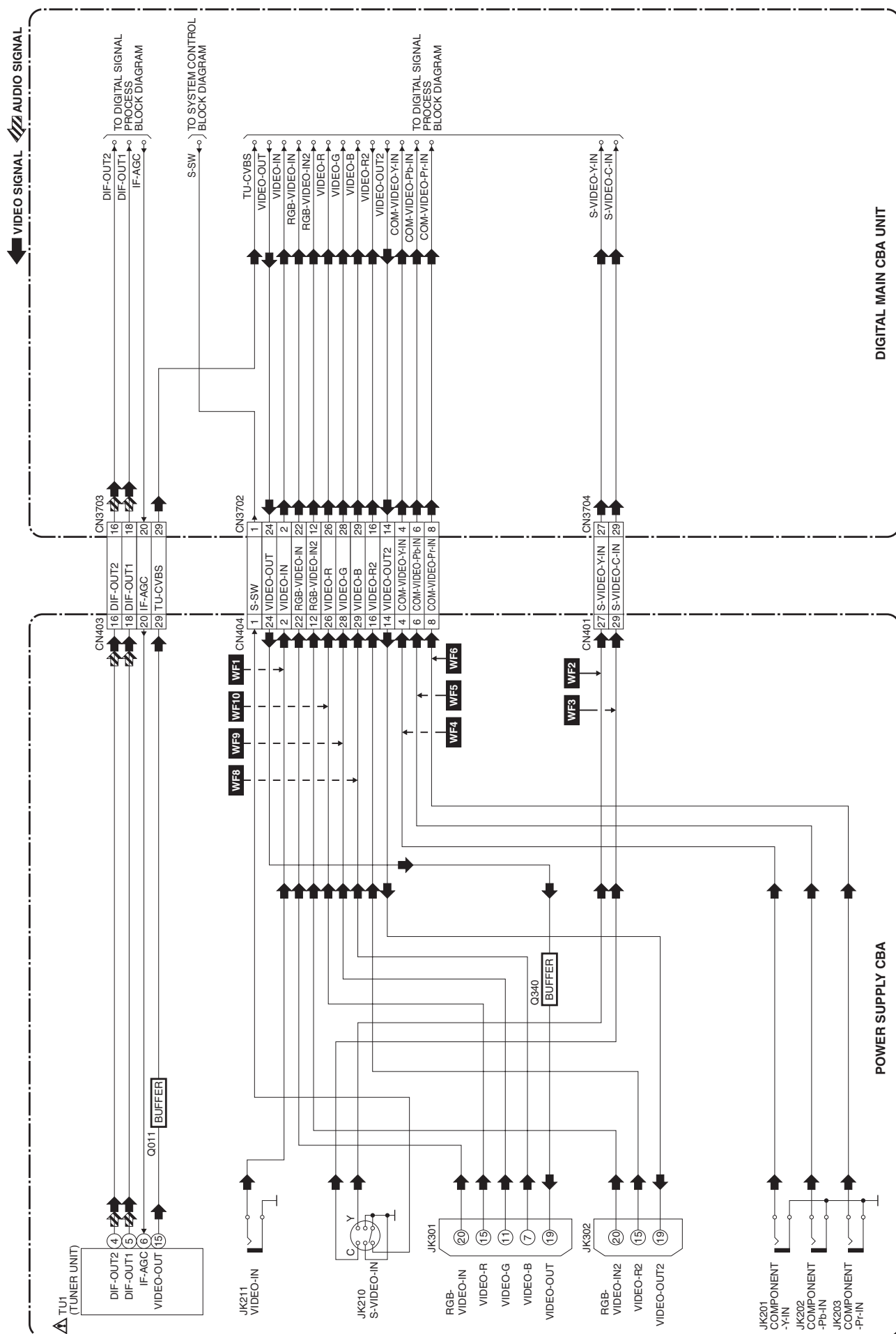


BLOCK DIAGRAMS

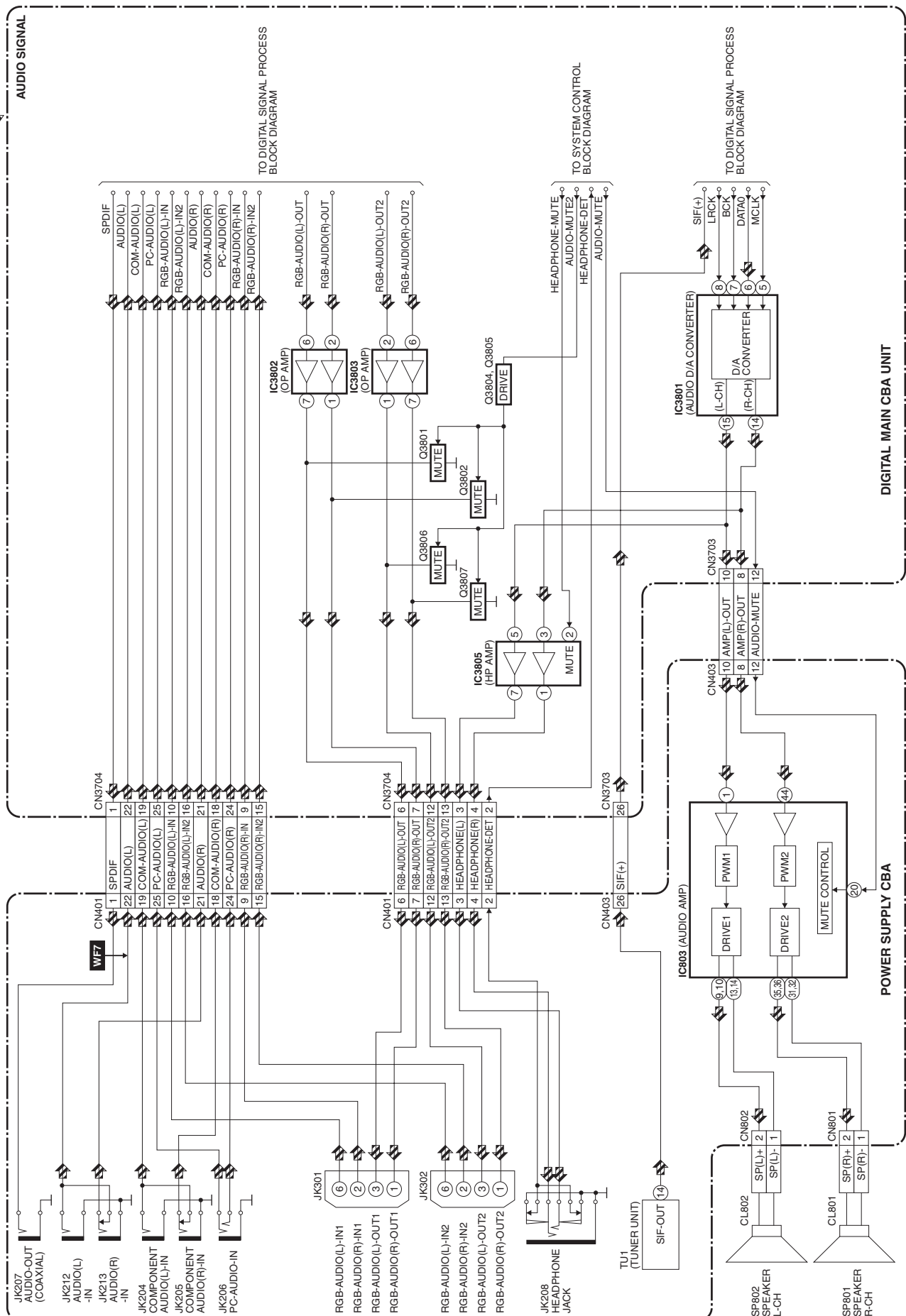
System Control Block Diagram



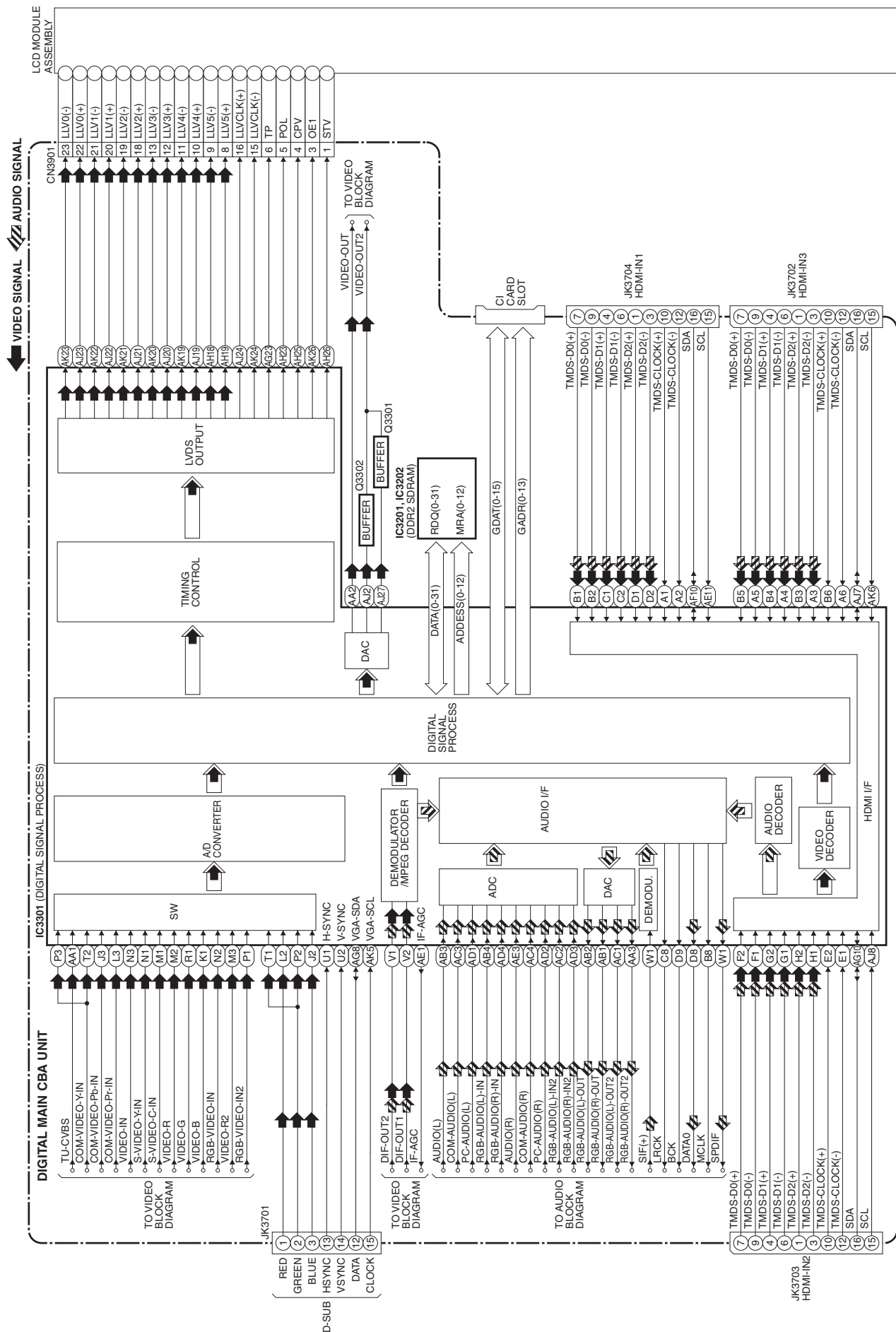
Video Block Diagram



Audio Block Diagram

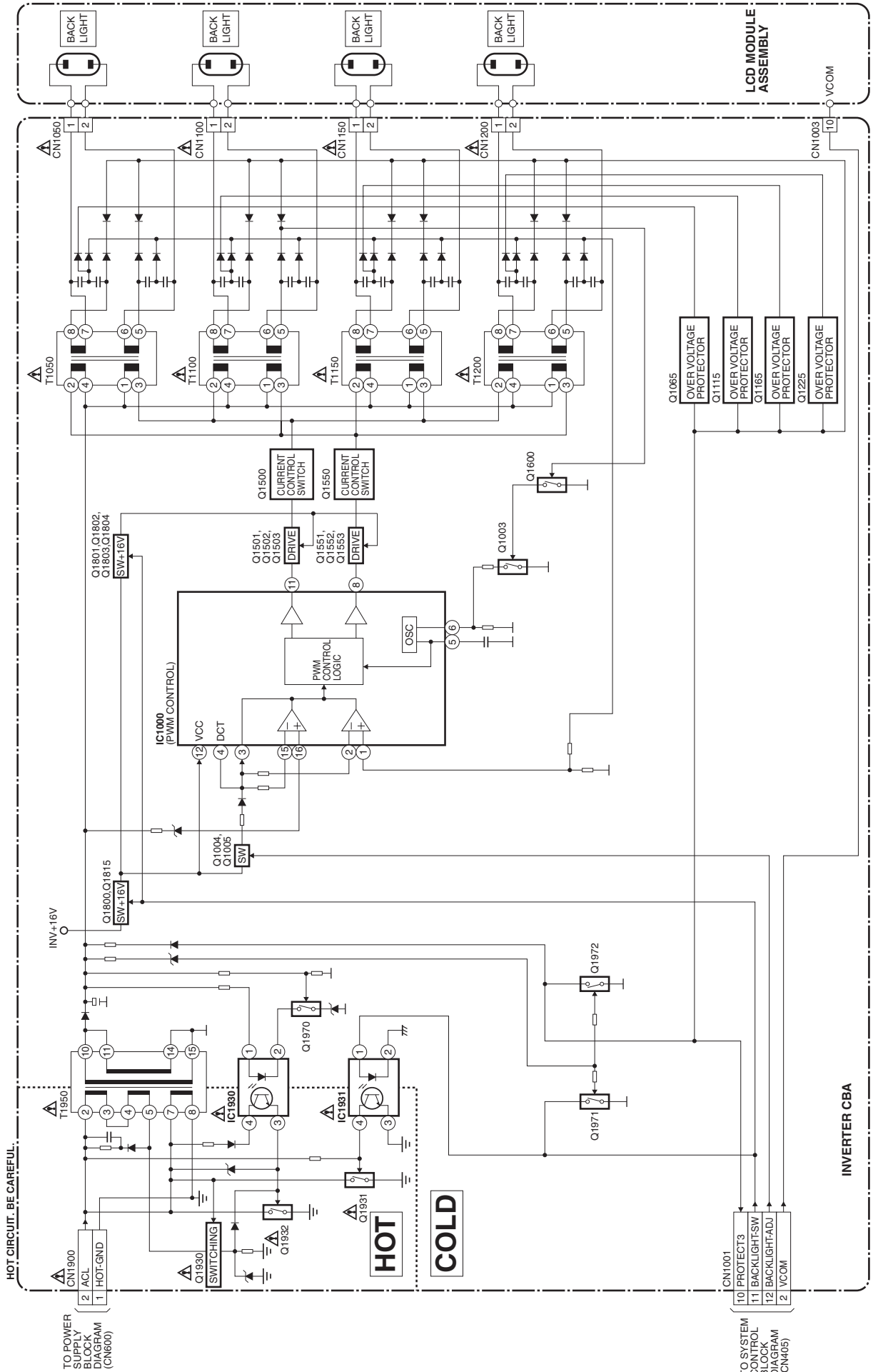


Digital Signal Process Block Diagram



Inverter Block Diagram

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



Power Supply Block Diagram

CAUTION !

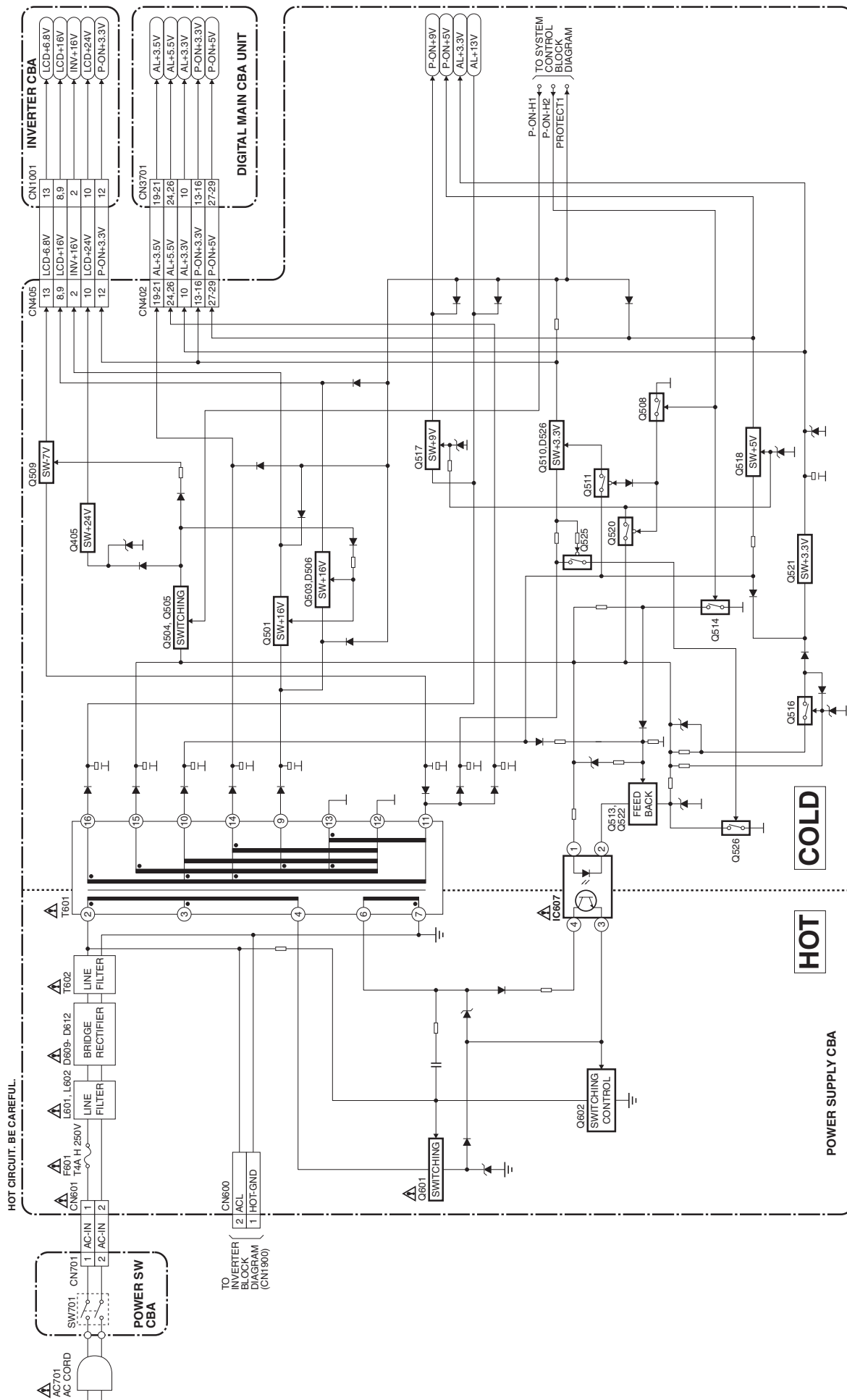
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION !

For continued protection against fire hazard,
replace only with the same type fuse.

NOTE:

The voltage for parts in hot circuit is measured using
hot GND as a common terminal.



SCHEMATIC DIAGRAMS / CBA AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark “⚠” in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K = 10^3$, $M = 10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P = 10^{-6} \mu F$).
5. All voltages are DC voltages unless otherwise specified.
6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

2. CAUTION:

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

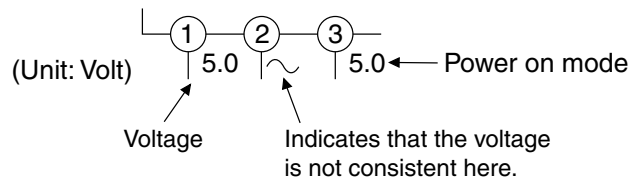
If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications on the schematics are as shown below:

Plug the TV power cord into a standard AC outlet.:

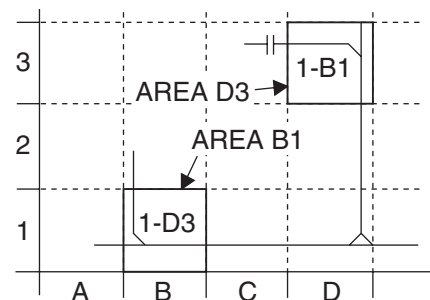


5. How to read converged lines

1-D3
↑ Distinction Area
↑ Line Number
(1 to 3 digits)

Examples:

1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

⊙ : Indicates a test point with a jumper wire across a hole in the PCB.

□→ : Used to indicate a test point with a component lead on foil side.

⊘ : Used to indicate a test point with no test pin.

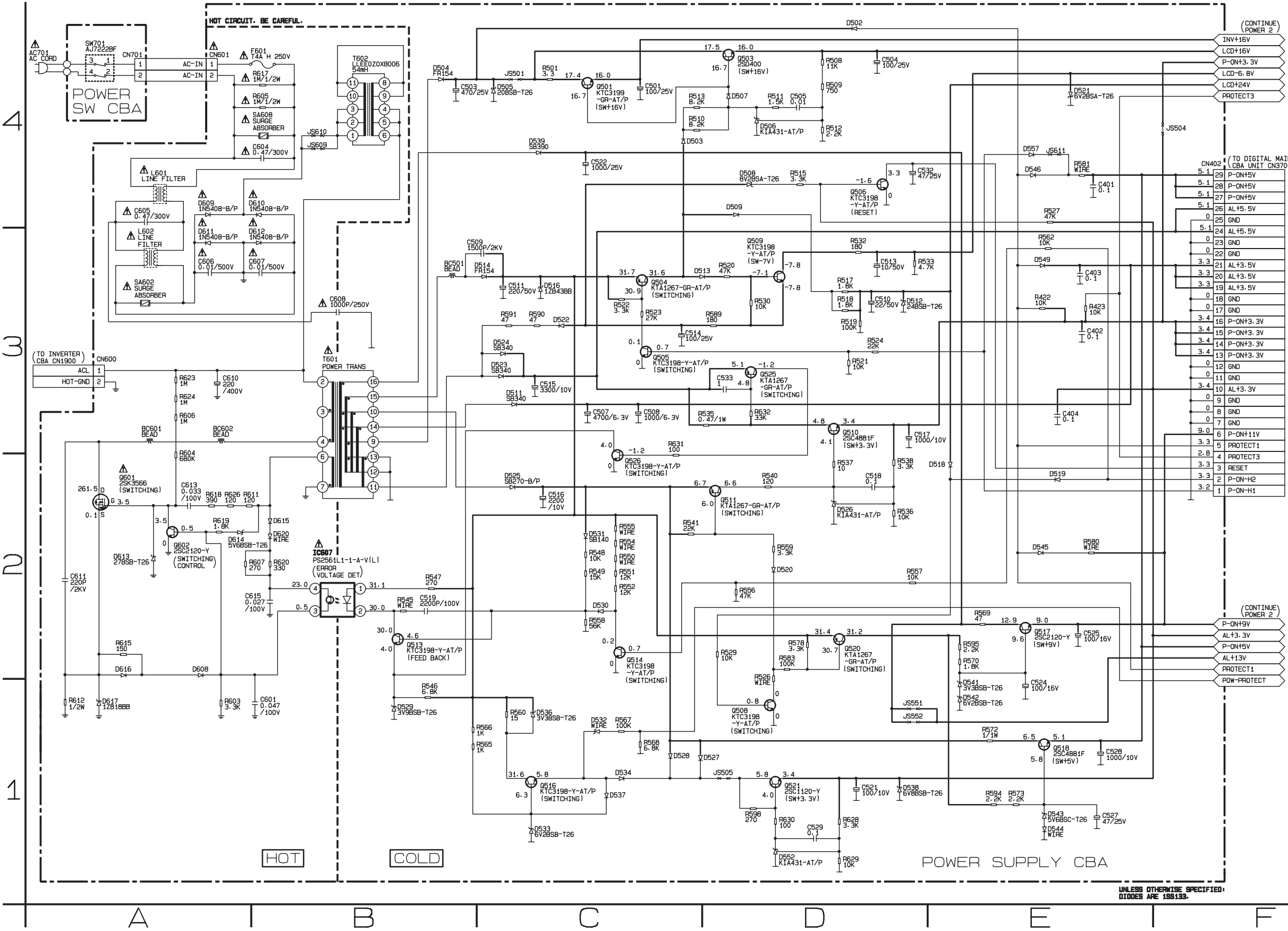
● : Used to indicate a test point with a test pin.

Power Supply 1 & Power SW Schematic Diagram

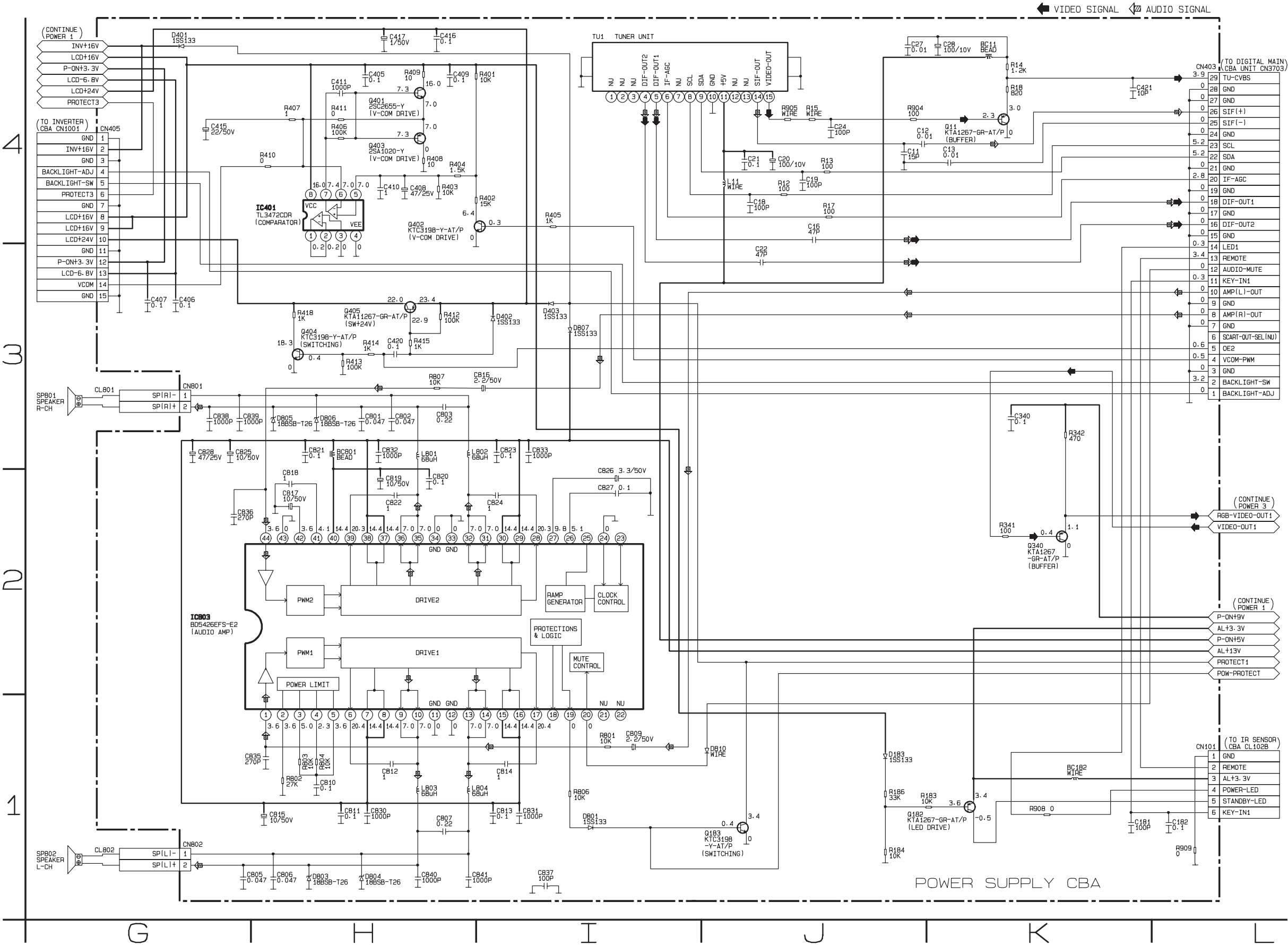
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

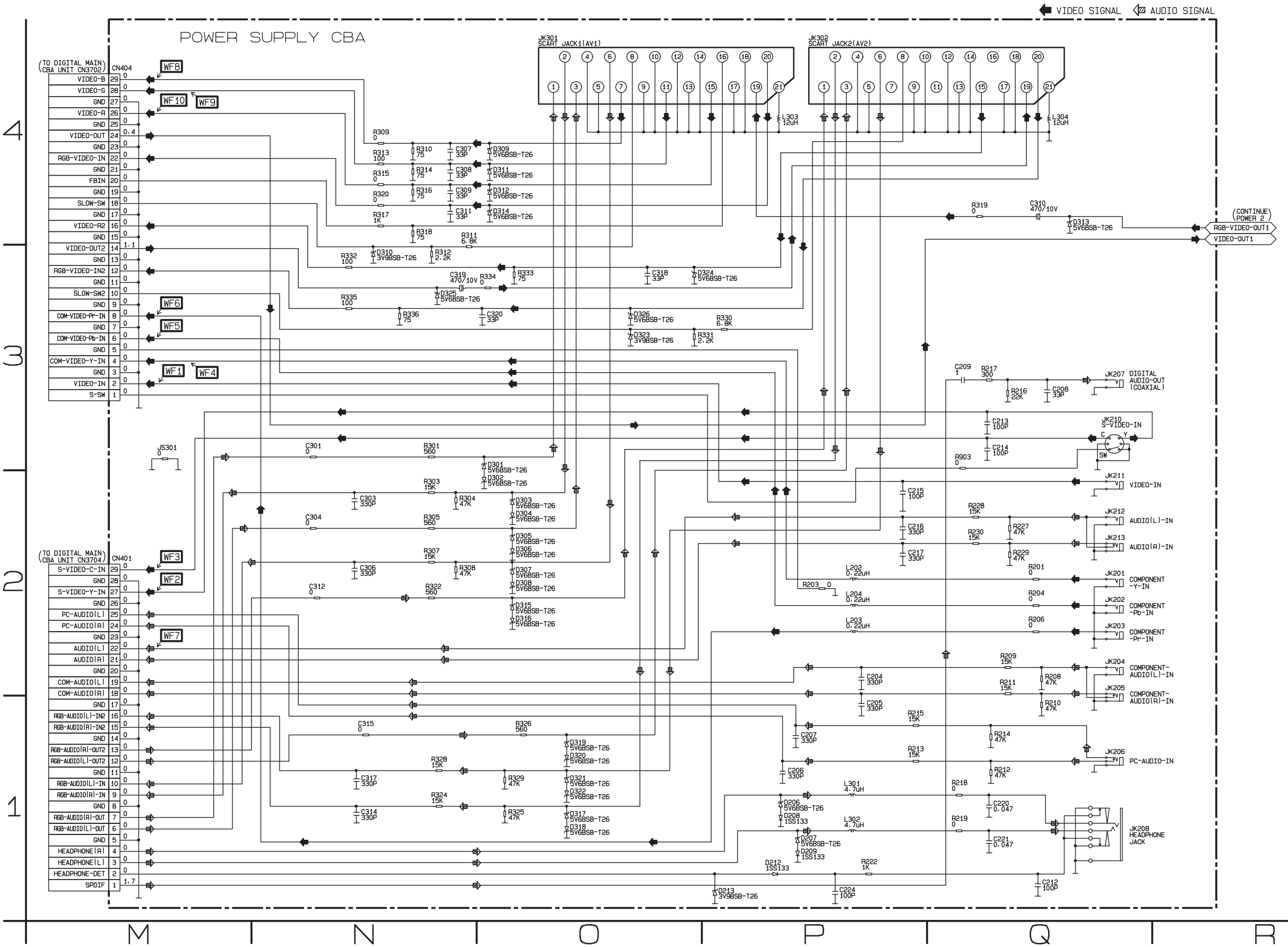
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.



Power Supply 2 Schematic Diagram



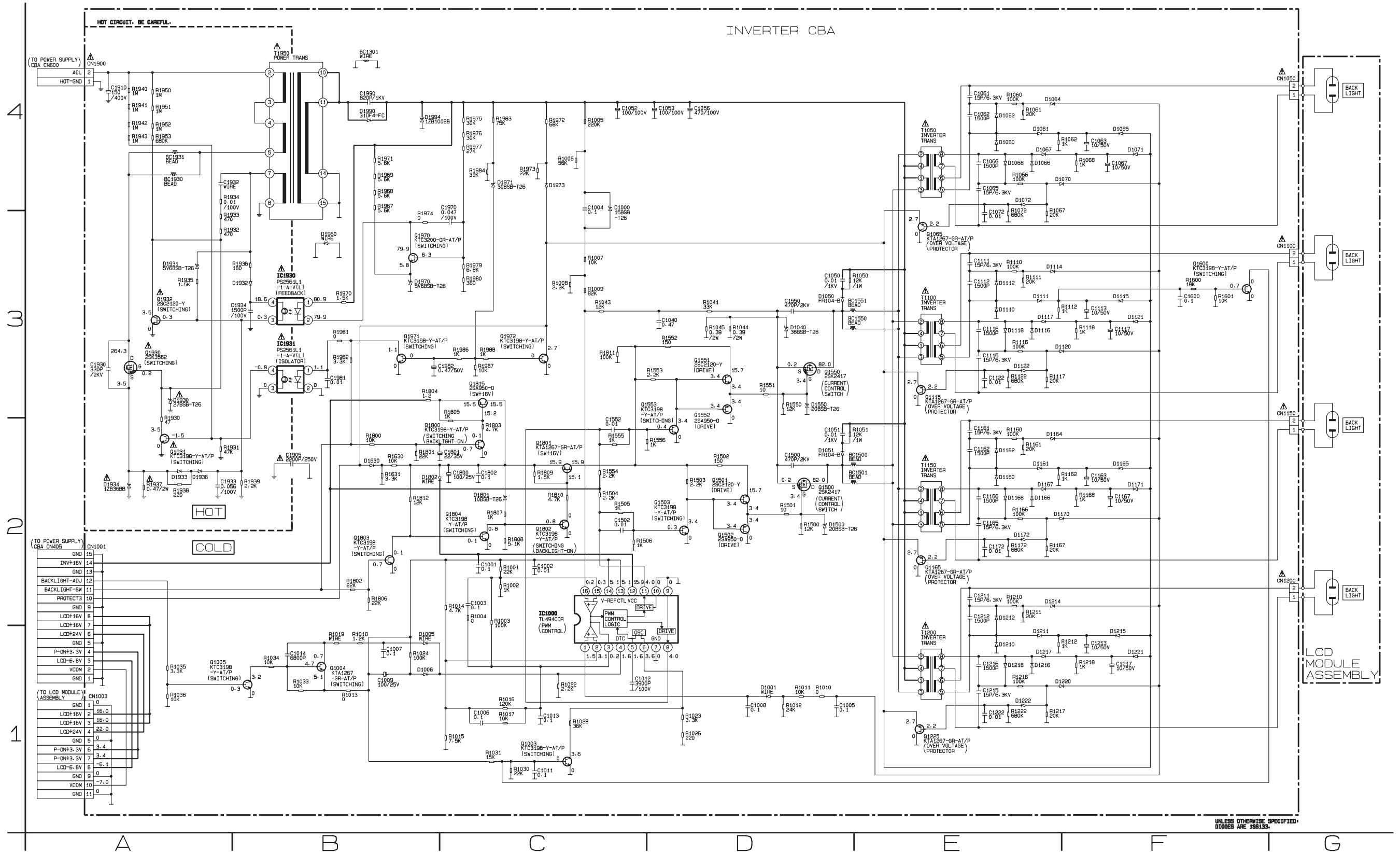
Power Supply 3 Schematic Diagram



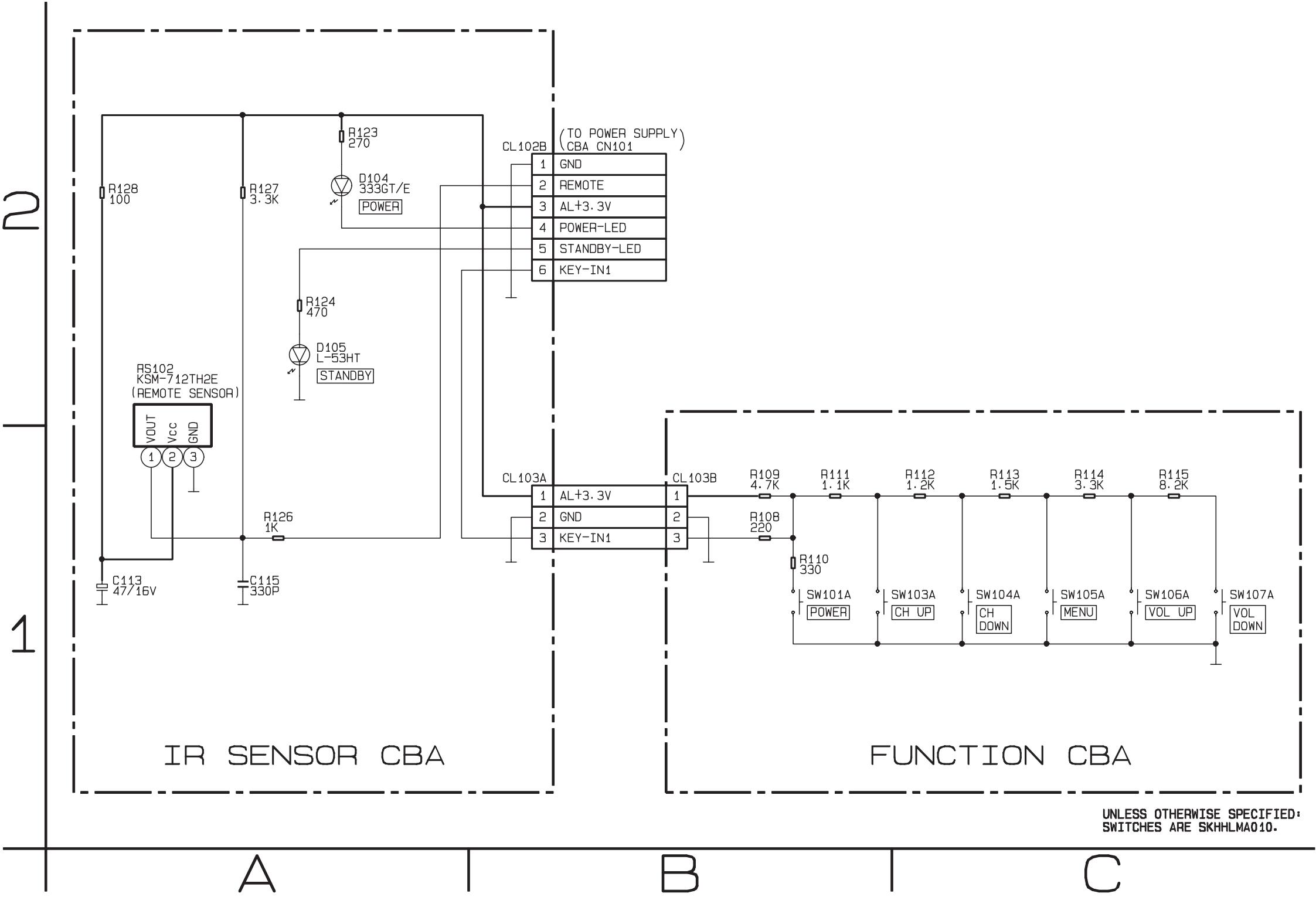
Inverter Schematic Diagram

NOTE:

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

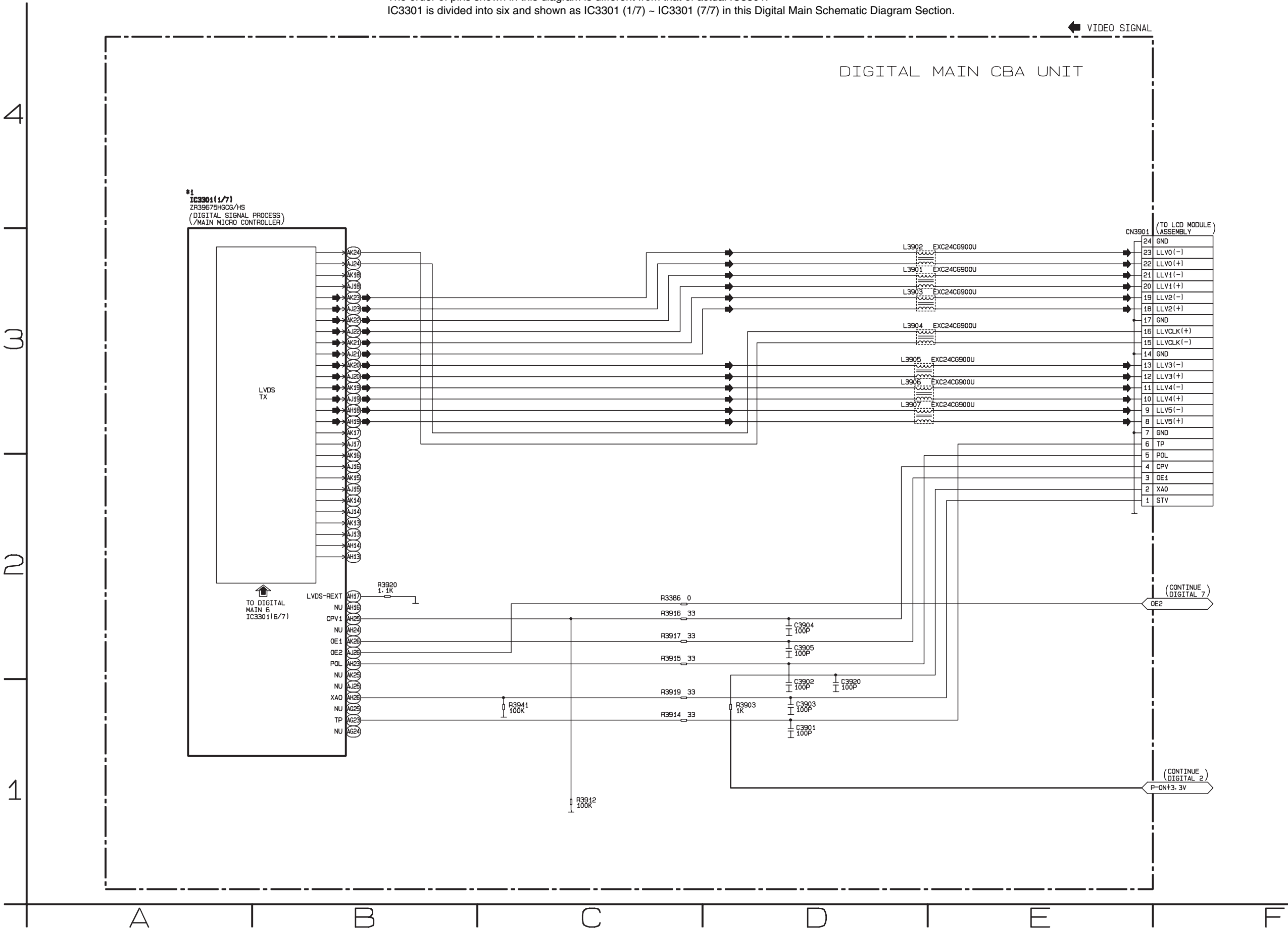


Function & IR Sensor Schematic Diagram



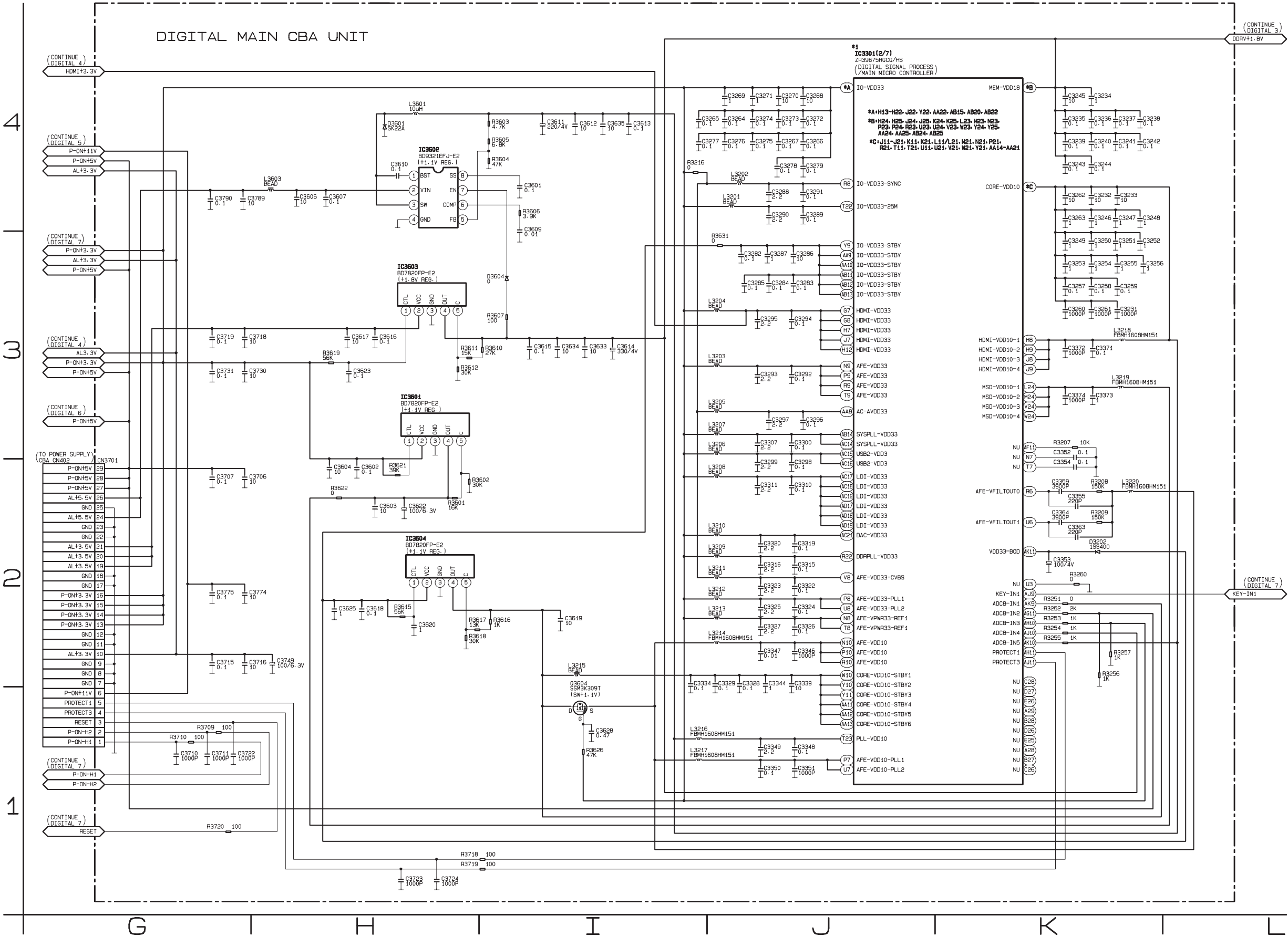
Digital Main 1 Schematic Diagram

*1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



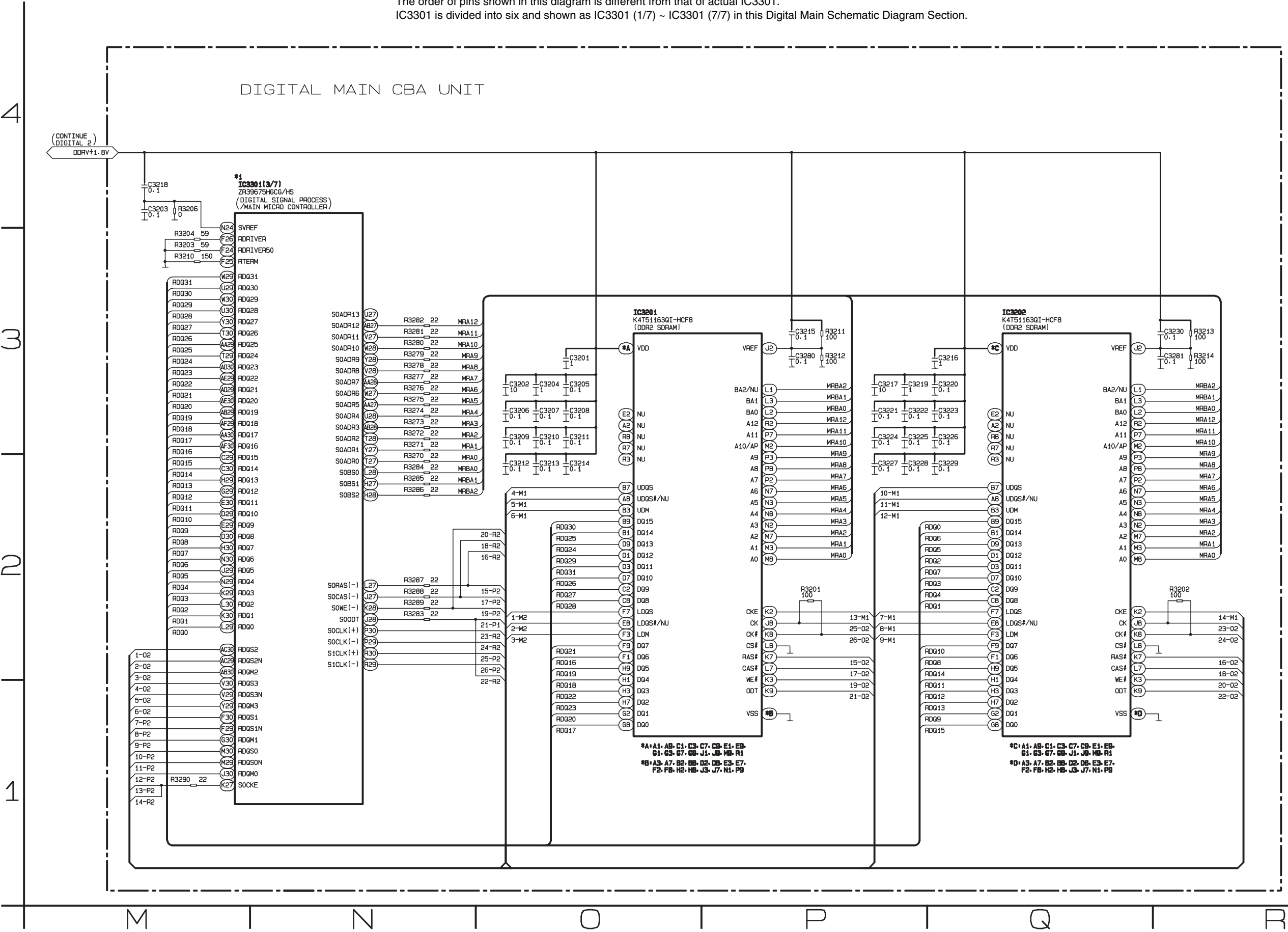
Digital Main 2 Schematic Diagram

*1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



Digital Main 3 Schematic Diagram

*1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



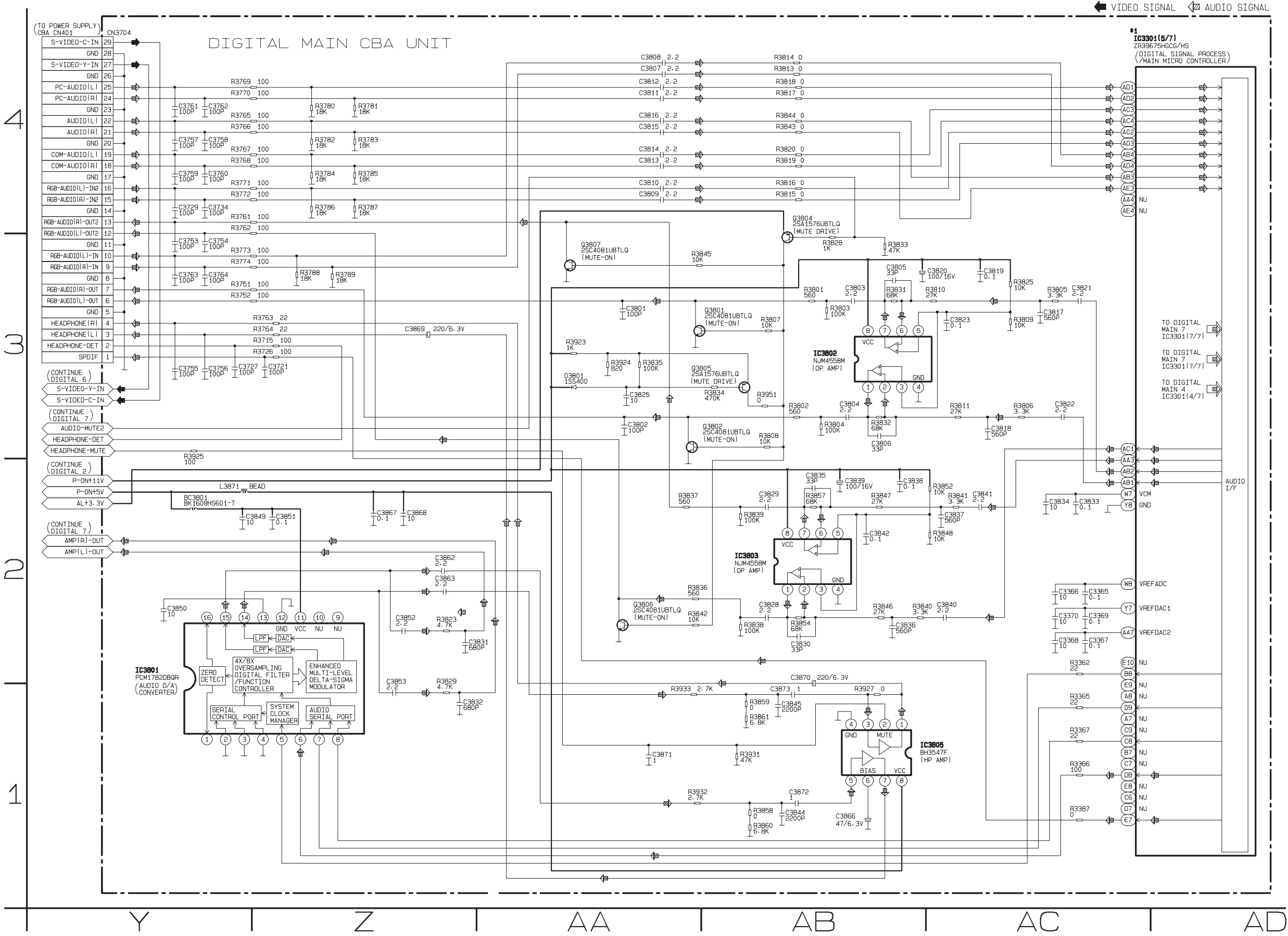
1 |

IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



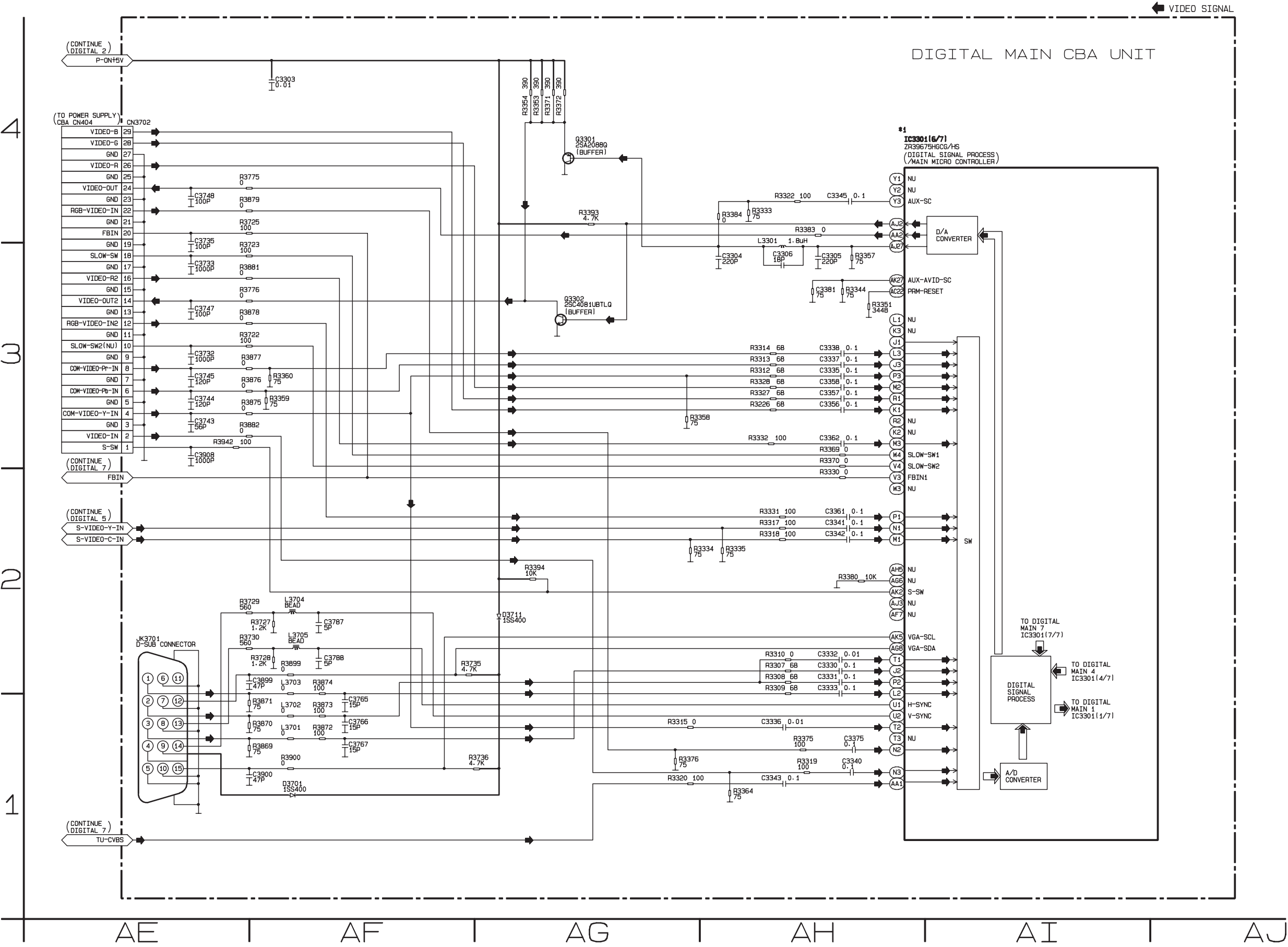
Digital Main 5 Schematic Diagram

*1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



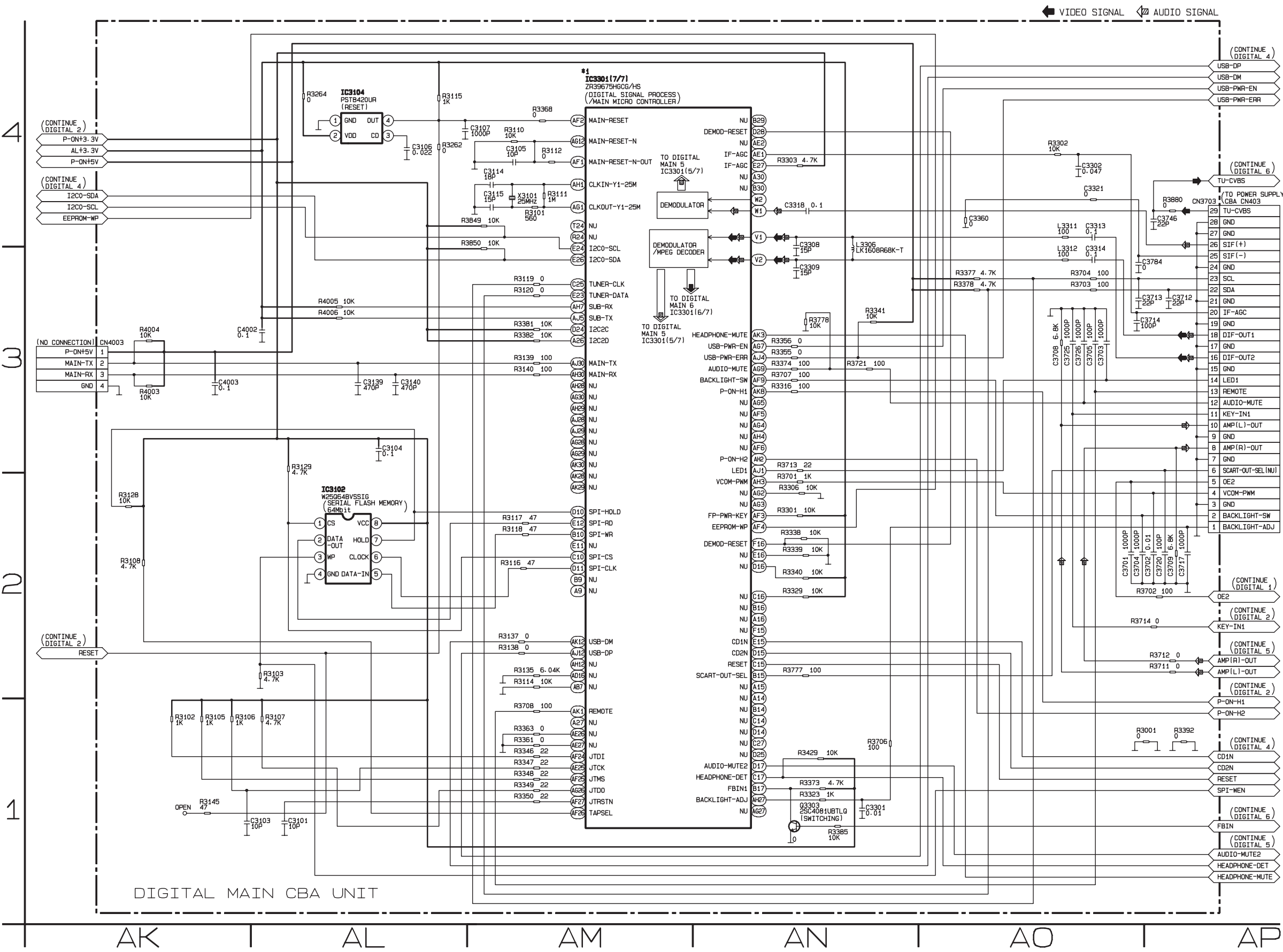
Digital Main 6 Schematic Diagram

*1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



Digital Main 7 Schematic Diagram

*1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



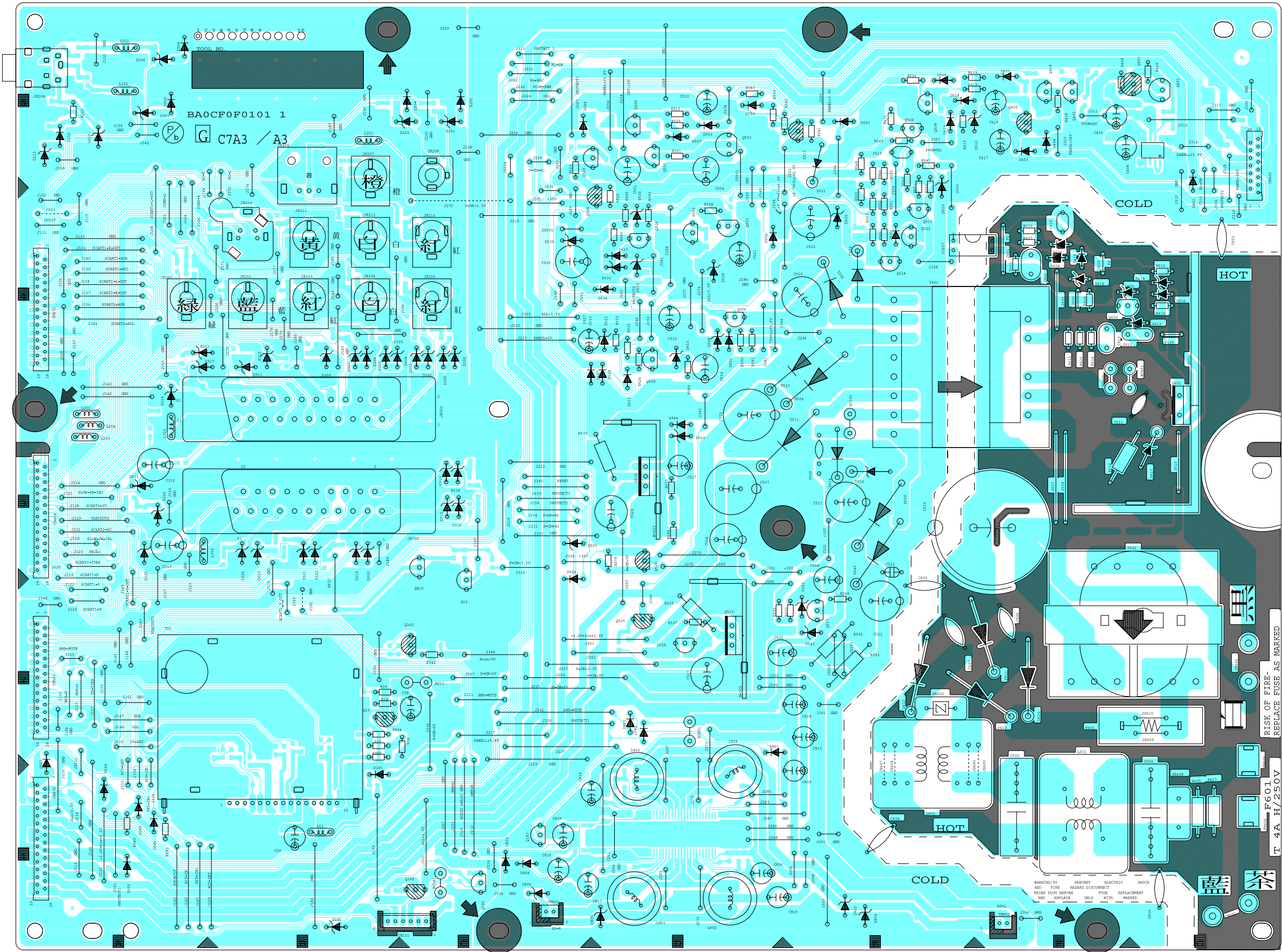
Power Supply CBA Top View

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.



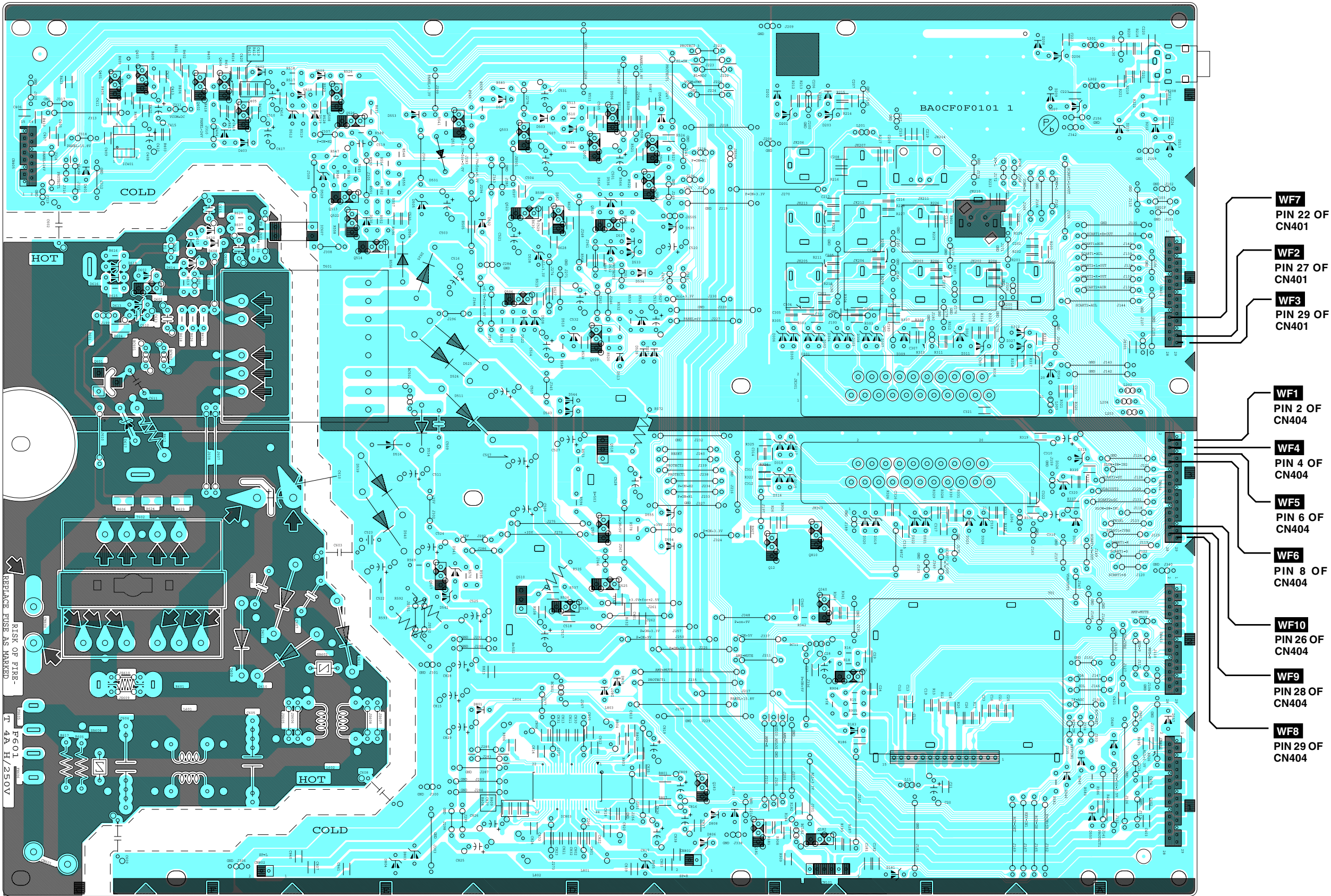
Power Supply CBA Bottom View

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

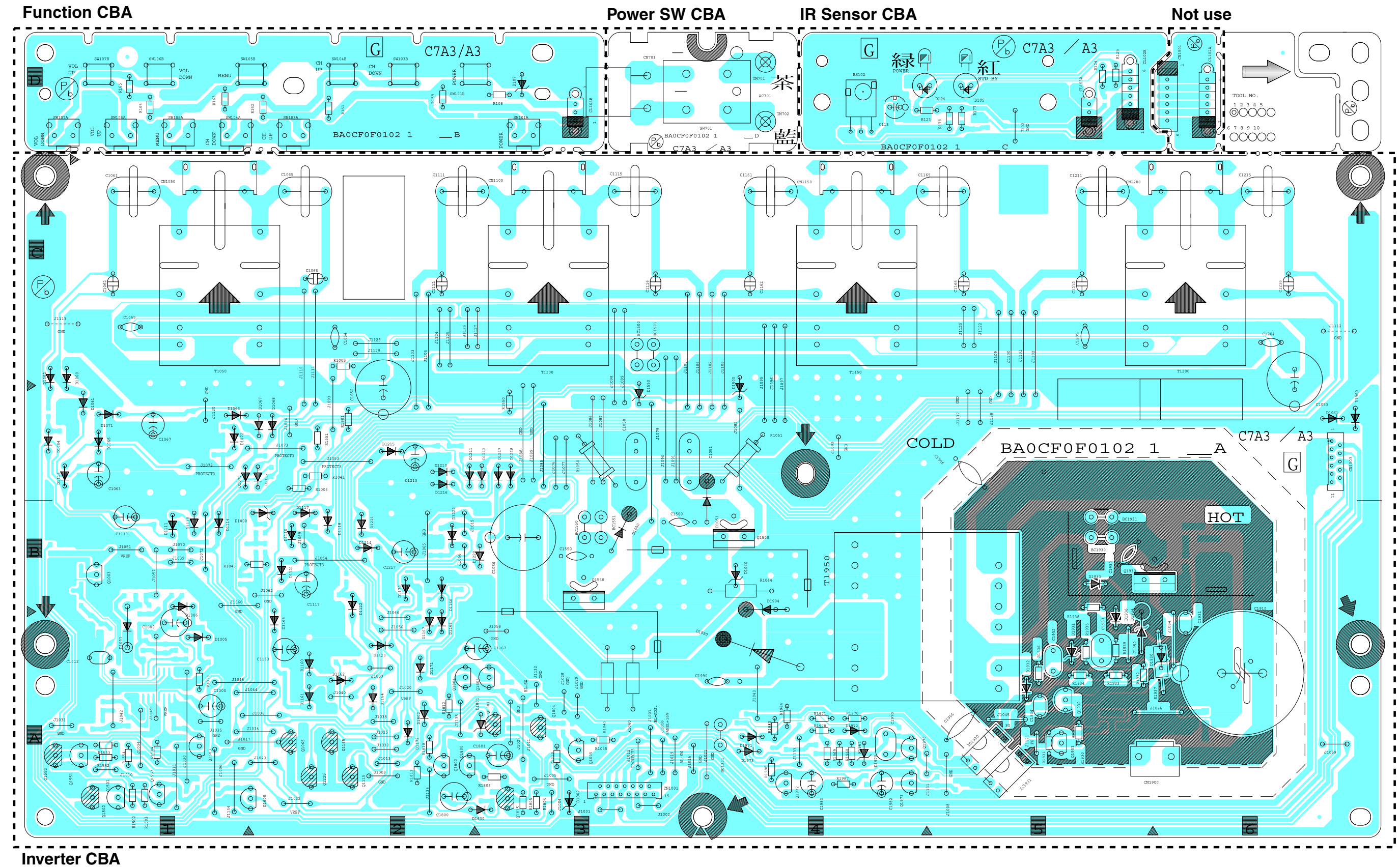
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.



Inverter CBA, Function CBA, IR Sensor CBA & Power SW CBA Top View

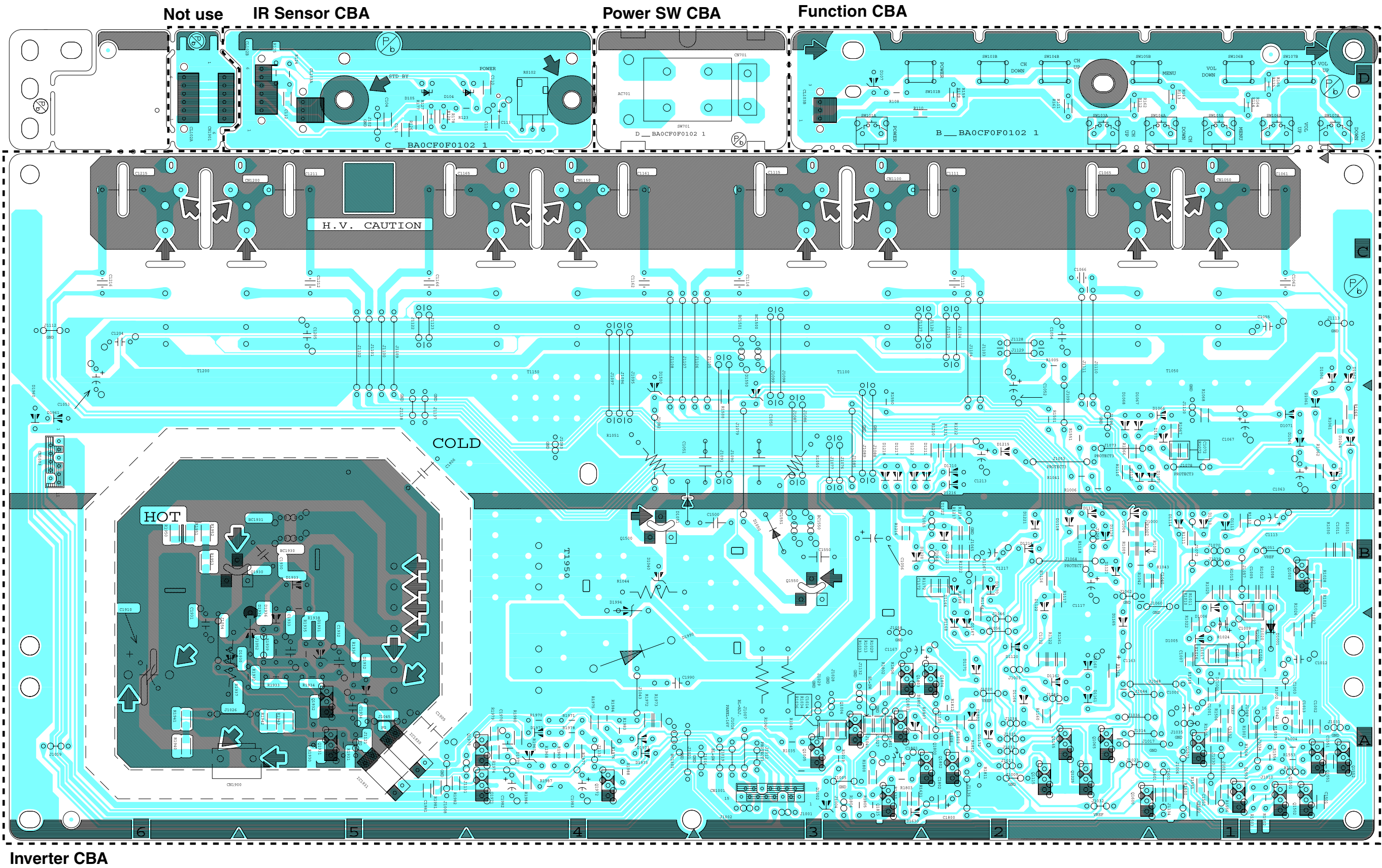
NOTE:

The voltage for parts in hot circuit is measured using hot GND as a common terminal.



Inverter CBA, Function CBA, IR Sensor CBA & Power SW CBA Bottom View

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

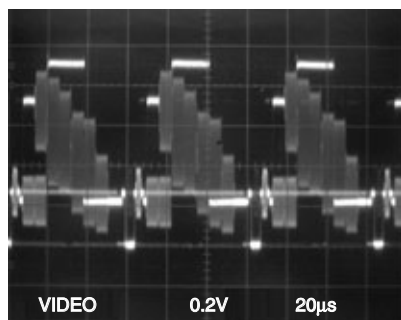


WAVEFORMS

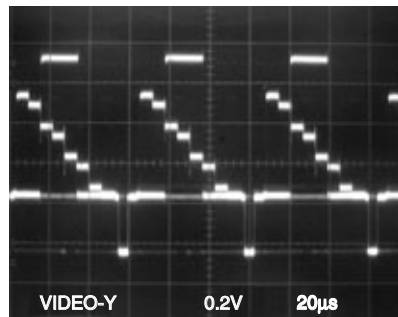
WF1 ~ WF6 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

Input: PAL Color Bar Signal (with 1kHz Audio Signal)

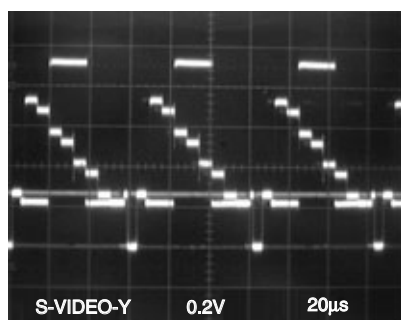
WF1 Pin 2 of CN404



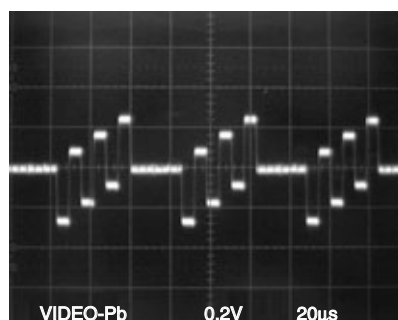
WF4 Pin 4 of CN404



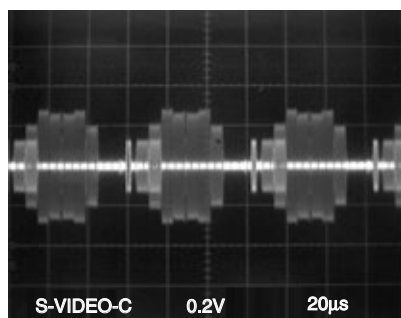
WF2 Pin 27 of CN401



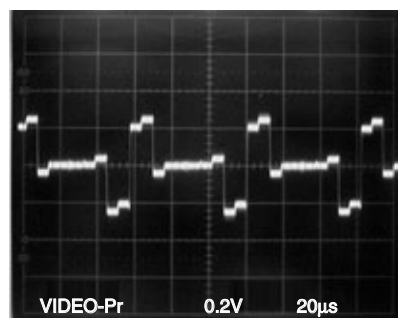
WF5 Pin 6 of CN404



WF3 Pin 29 of CN401



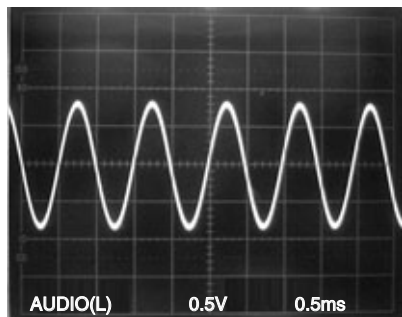
WF6 Pin 8 of CN404



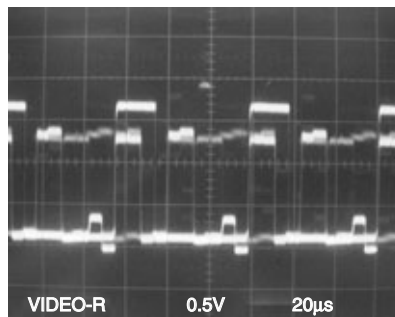
WF7 ~ WF10 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

Input: PAL Color Bar Signal (with 1kHz Audio Signal)

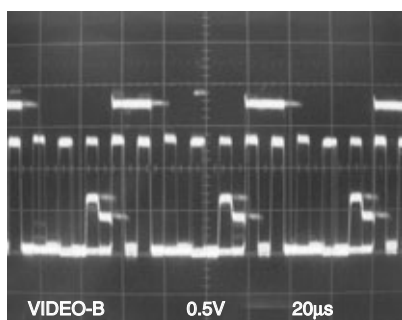
WF7 Pin 22 of CN401



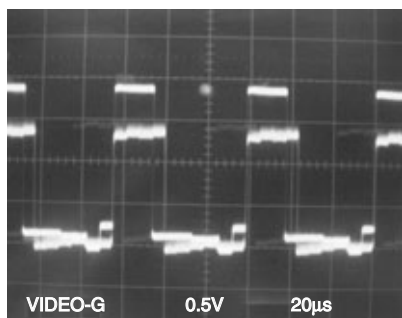
WF10 Pin 26 of CN404



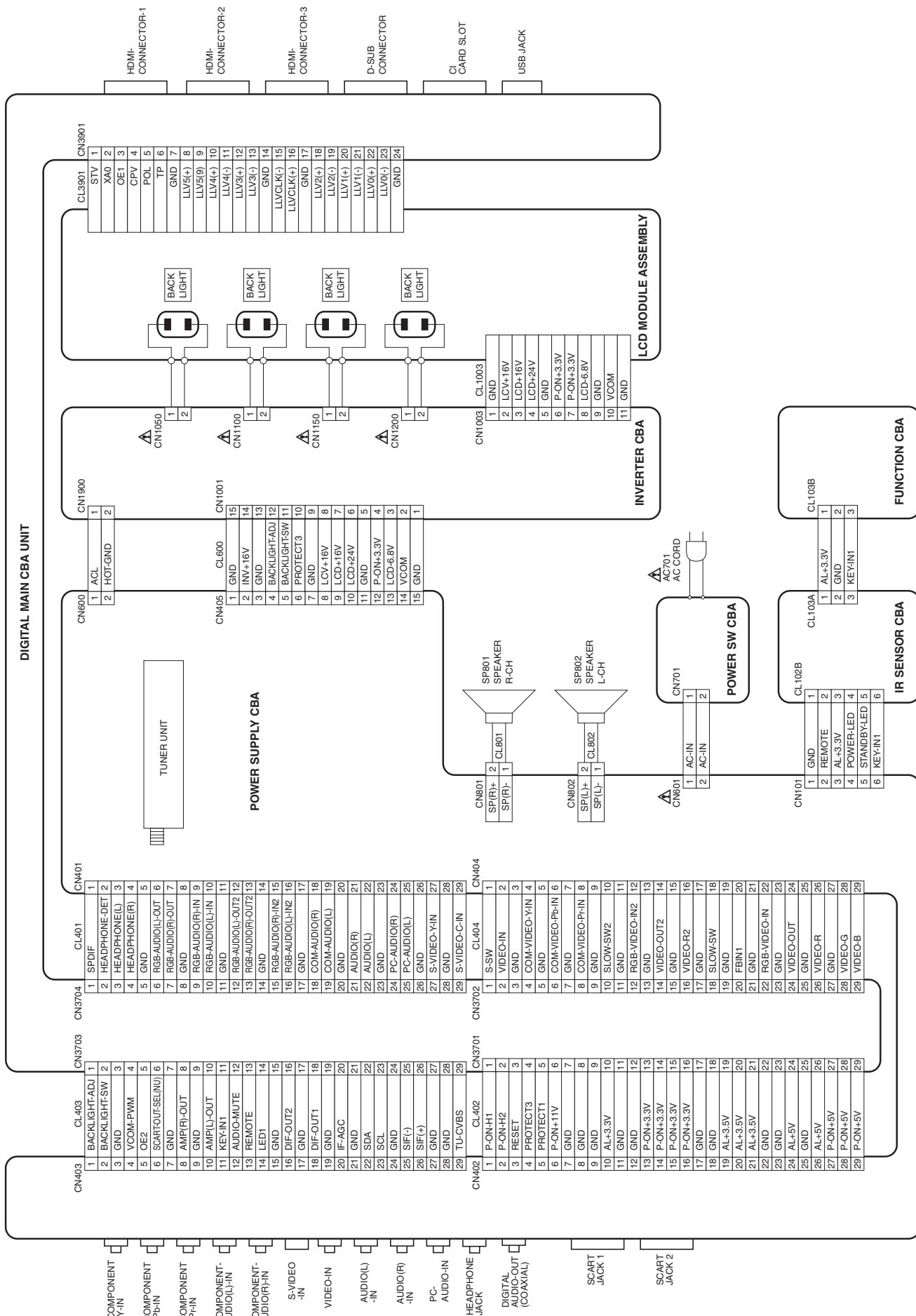
WF8 Pin 29 of CN404



WF9 Pin 28 of CN404

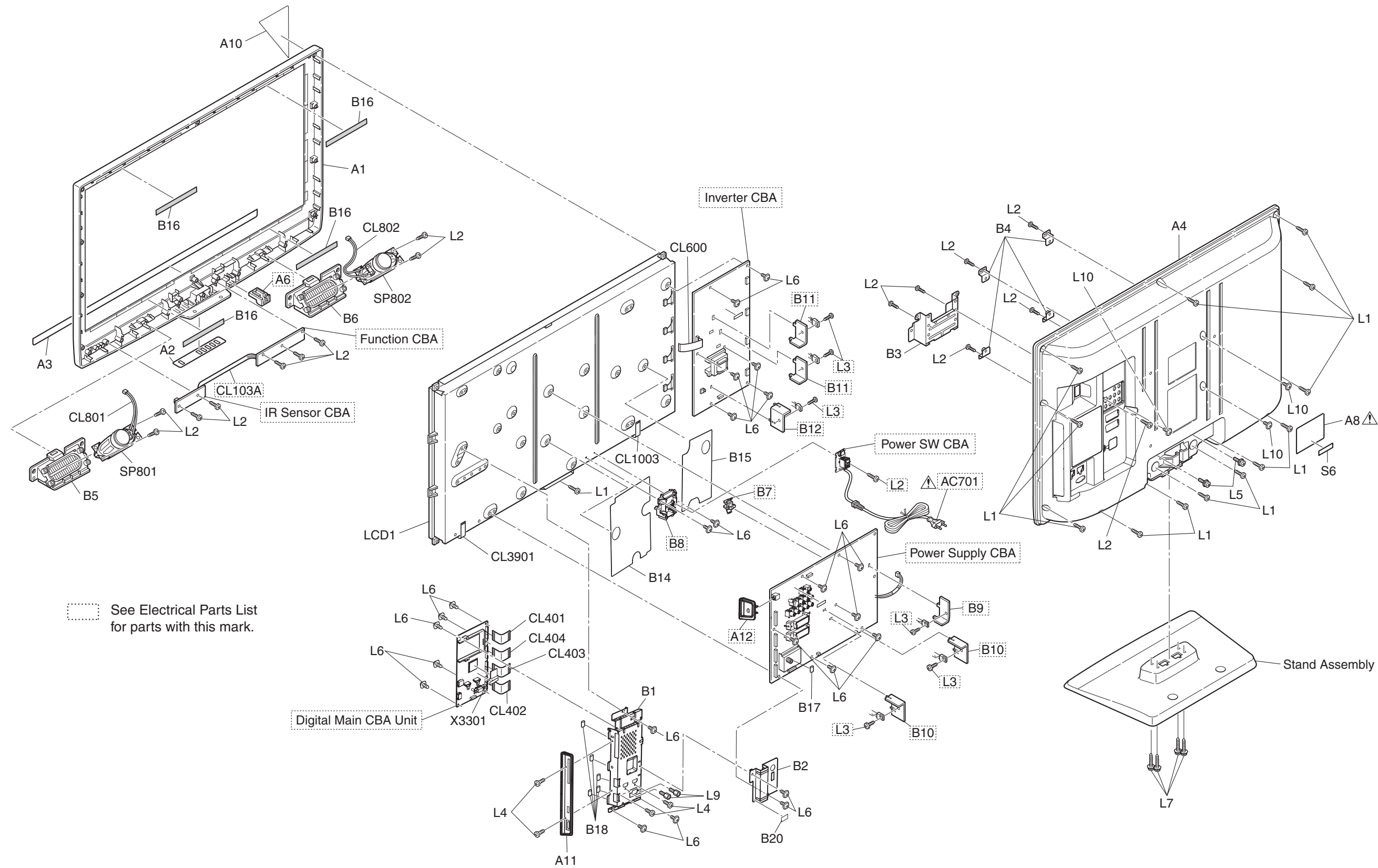


WIRING DIAGRAMS



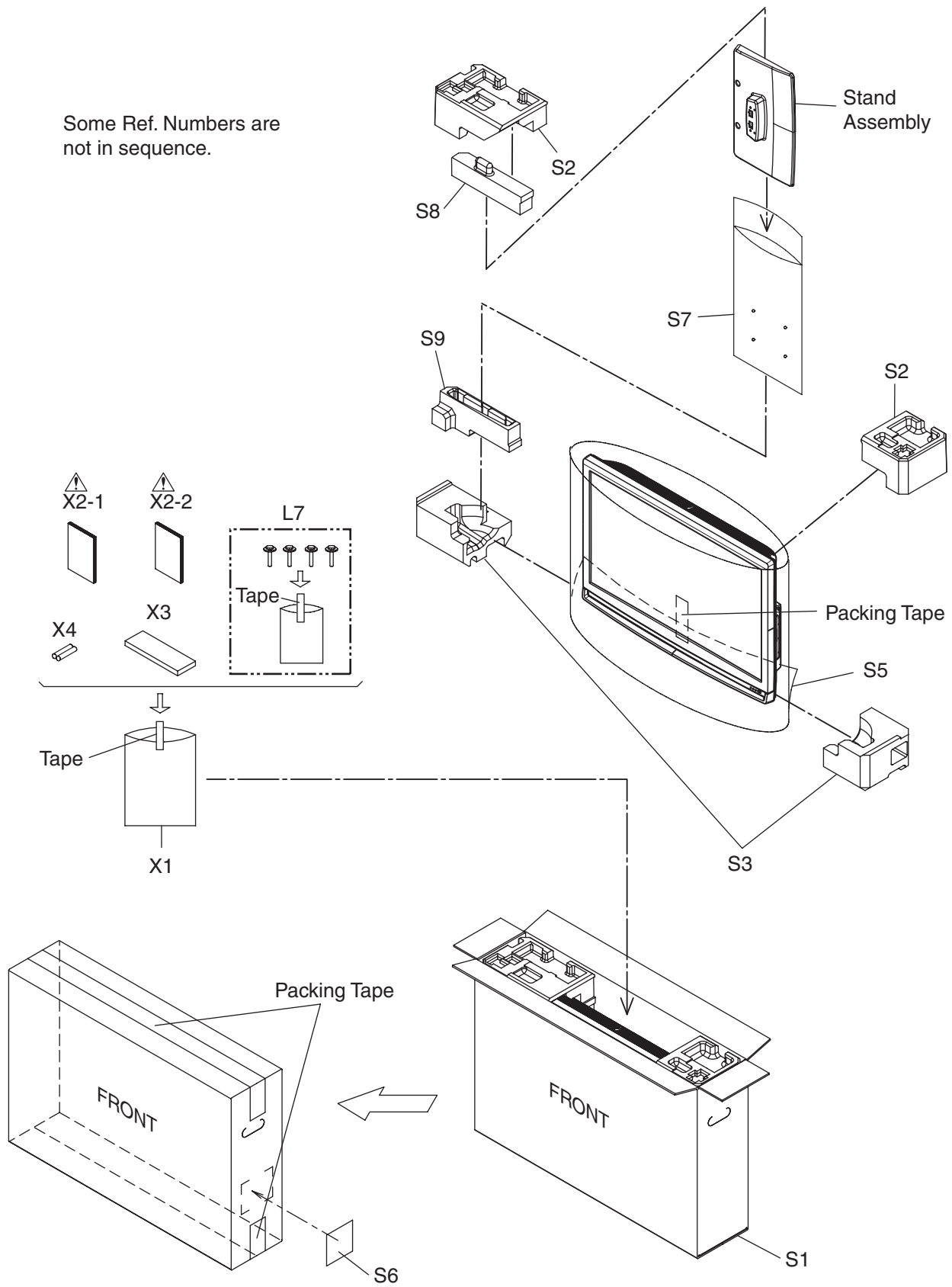
EXPLODED VIEWS

Cabinet



Packing

Some Ref. Numbers are not in sequence.



MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (-----) are not available.

Ref. No.	Description	Part No.
	STAND ASSEMBLY A0CF2EZ	1ESA24012
A1	FRONT CABINET A93F0FP	1EM024031A
A2	CONTROL PLATE A91F0UH	1EM325799
A3	DECORATION PLATE A0CF2EP	1EM124494
A4	REAR CABINET A0CF2EP	1EM025286
A10	POP LABEL A0CN2EP	-----
A11	JACK HOLDER A93F0FP	1EM123494A
B1	SHIELD BOX(32W-EU) A93F0FP	1EM123493A
B2	TUNER SHIELD A93F0FP	1EM325981
B3	STAND HOLDER 32W A94F0UH	1EM222763
B4	WALL MOUNT BRACKET A84N0UH	1EM323797
B5	SPEAKER HOLDER (L) A94F0UH	1EM123233
B6	SPEAKER HOLDER (R) A94F0UH	1EM123234
B14	SEPARATION SHEET (POW) A93F0FP	1EM326100
B15	SEPARATION SHEET (INV) A93F0FP	1EM326101
B16	CLOTH(10X180XT0.5) L0336JG	0EM408827
B17	GASKET A84F0UH	1EM425861
B18	GASKET(4X15XT3.0) A0CN0EP	1EM431762
CL401	WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL402	WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL403	WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL404	WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL600	WIRE ASSEMBLY 15PIN FFC 15PIN 140MM	WX1A94F0-104
CL801	WIRE ASSEMBLY 2PIN 2PIN 100MM RED BLACK	WX1A94F0-203
CL802	WIRE ASSEMBLY 2PIN 2PIN 310MM RED BLACK	WX1A0CF0-103
CL1003	WIRE ASSEMBLY 11PIN FFC 11PIN 110MM	WX1A94F0-105
CL3901	WIRE ASSEMBLY 24PIN FFC 24PIN 117.5MM	WX1A91F6-102
L2	SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L4	SCREW S-TIGHT M3X8 BIND HEAD+	GBHS3080
L6	ASSEMBLED SCREW (D9 M3X6) A71F0UH	1EM424392B
L9	HEX SCREW #4-40 7MM	1EM430139
LCD1	LCD MODULE CMO 6BIT A GRADE or	UJ32MXA
	LCD MODULE CMO 6BIT A GRADE	UJ32MXC
SP801	SPEAKER MAGNETIC S0412F08 or	DSD1609XQ001
	SPEAKER MAGNETIC YDP411-17FN	DS1610EFU001
SP802	SPEAKER MAGNETIC S0412F08 or	DSD1609XQ001
	SPEAKER MAGNETIC YDP411-17FN	DS1610EFU001
X3301	THERMOSTAR TMS-L-2(12*12HC) or	XK10000X4003
	THERMAL SHEET TT0005-A01A	XK1000SMT001
PACKING		
S5	SET BAG L4300UA	1EM321546
S7	STAND BAG A94F0UH	1EM428757
ACCESSORY		
X3	REMOTE CONTROL NH201RD	NH201RD

Ref. No.	Description	Part No.
A8 	RATING LABEL A0CF2EP	-----
B20	CLOTH(B) L5201U0 15X10X1.0T	0EM400076
L1	SCREW P-TIGHT M4X14 BIND HEAD+BLK	GBHP4140
L2	SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L5	DOUBLE SEMS SCREW M4X10 + BLK	FPH34100
L6	ASSEMBLED SCREW (D9 M3X6) A71F0UH	1EM424392B
L7	STAND SCREW KIT A93F0FP	1ESA20855
L10	SCREW S-TIGHT 3X10 WASHER HEAD+BLK	GCHS3100
PACKING		
S1	CARTON A0CF2EP	1EM431040
S2	STYROFOAM TOP A93F0FP	1EM024165
S3	STYROFOAM BOTTOM A93F0FP	1EM024166
S6	SERIAL NO. LABEL L9750UA	-----
S8	STAND HOLD PAD TOP A93F0FP	1EM123613
S9	STAND HOLD PAD BOTTOM A93F0FP	1EM123614
ACCESSORIES		
X1	BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X2-1 	OWNERS MANUAL(WE-10) A0CF2EP	1EMN25884
X2-2 	OWNERS MANUAL(PL-7) A0CF2EP	1EMN25885
X4	BATTERY DRY R03REL/2PA	XB00M00MS001

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

- Parts that are not assigned part numbers (-----) are not available.
- Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25% D.....±0.5% F.....±1%
 G.....±2% J.....±5% K.....±10%
 M.....±20% N.....±30% Z.....+80/-20%

DIGITAL MAIN CBA UNIT

Ref. No.	Description	Part No.
	DIGITAL MAIN CBA UNIT	A0CF2MMA-002

POWER SUPPLY CBA

Ref. No.	Description	Part No.
	POWER SUPPLY CBA Consists of the following:	A0CF2MPW-001
CAPACITORS		
C11	CHIP CERAMIC CAP. CH J 15pF/50V or CAP CHIP 1608 J/C0G/15pF/50V	CHD1JJ3CH150 CHD150EYA030
C12	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or CAP CHIP 1608 K/X7R/0.01µF/50V	CHD1JK30B103 CHD103EYA032
C13	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or CAP CHIP 1608 K/X7R/0.01µF/50V	CHD1JK30B103 CHD103EYA032
C16	CHIP CERAMIC CAP.(1608) CH J 47pF/50V or CAP CHIP 1608 J/C0G/47pF/50V	CHD1JJ3CH470 CHD470EYA030
C18	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V	CHD1JJ3CH101 CHD101EYA030
C19	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V	CHD1JJ3CH101 CHD101EYA030
C20	ELECTROLYTIC CAP. 100µF/10V M or CAP ELE 100µF/10V/M/85 or CAP ELE 100µF/10V/M/85	CE1AMASDL101 CEB101KSN001 CEB101TEP001
C21	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C22	CHIP CERAMIC CAP.(1608) CH J 47pF/50V or CAP CHIP 1608 J/C0G/47pF/50V	CHD1JJ3CH470 CHD470EYA030
C24	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V	CHD1JJ3CH101 CHD101EYA030
C27	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or CAP CHIP 1608 K/X7R/0.01µF/50V	CHD1JK30B103 CHD103EYA032
C28	ELECTROLYTIC CAP. 100µF/10V M or CAP ELE 100µF/10V/M/85 or CAP ELE 100µF/10V/M/85	CE1AMASDL101 CEB101KSN001 CEB101TEP001
C181	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V	CHD1JJ3CH101 CHD101EYA030
C182	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD1JZ30F104 CHD104EYA036
C204	CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V	CHD1JJ3CH331 CHD331EYA030
C205	CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V	CHD1JJ3CH331 CHD331EYA030
C206	CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V	CHD1JJ3CH331 CHD331EYA030

Ref. No.	Description	Part No.
C207	CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V	CHD1JJ3CH331 CHD331EYA030
C208	CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V	CHD1JJ3CH330 CHD330EYA030
C209	CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105
C212	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V	CHD1JJ3CH101 CHD101EYA030
C213	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V	CHD1JJ3CH101 CHD101EYA030
C214	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V	CHD1JJ3CH101 CHD101EYA030
C215	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V	CHD1JJ3CH101 CHD101EYA030
C216	CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V	CHD1JJ3CH331 CHD331EYA030
C217	CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V	CHD1JJ3CH331 CHD331EYA030
C220	CHIP CERAMIC CAP.(1608) B K 0.047µF/50V or CAP CHIP 1608 K/X7R/0.047µF/50V	CHD1JK30B473 CHD473EYA032
C221	CHIP CERAMIC CAP.(1608) B K 0.047µF/50V or CAP CHIP 1608 K/X7R/0.047µF/50V	CHD1JK30B473 CHD473EYA032
C224	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V	CHD1JJ3CH101 CHD101EYA030
C301	CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω	RRXAZR5Z0000 RRXA000YF002
C303	CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V	CHD1JJ3CH331 CHD331EYA030
C304	CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω	RRXAZR5Z0000 RRXA000YF002
C306	CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V	CHD1JJ3CH331 CHD331EYA030
C307	CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V	CHD1JJ3CH330 CHD330EYA030
C308	CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V	CHD1JJ3CH330 CHD330EYA030
C309	CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V	CHD1JJ3CH330 CHD330EYA030
C310	ELECTROLYTIC CAP. 470µF/10V M or CAP ELE 470µF/10V/M/85 or CAP ELE 470µF/10V/M/85	CE1AMASDL471 CEB471KSN001 CEB471TEP001
C311	CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V	CHD1JJ3CH330 CHD330EYA030
C312	CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω	RRXAZR5Z0000 RRXA000YF002
C314	CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V	CHD1JJ3CH331 CHD331EYA030
C315	CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω	RRXAZR5Z0000 RRXA000YF002
C317	CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V	CHD1JJ3CH331 CHD331EYA030
C318	CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V	CHD1JJ3CH330 CHD330EYA030
C319	ELECTROLYTIC CAP. 470µF/10V M or CAP ELE 470µF/10V/M/85 or CAP ELE 470µF/10V/M/85	CE1AMASDL471 CEB471KSN001 CEB471TEP001
C320	CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V	CHD1JJ3CH330 CHD330EYA030
C340	CHIP CERAMIC CAP.(1608) B K 0.1µF/25V or CAP CHIP 1608 K/X7R/0.1µF/25V	CHD1EK30B104 CHD104EYA039
C401	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C402	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C403	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C404	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C405	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104

Ref. No.	Description	Part No.
	CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C406	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C407	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C408	ELECTROLYTIC CAP. 47μF/25V M or	CE1EMASDL470
	CAP ELE 47μF/25V/M/85 or	CED470KSN001
	CAP ELE 47μF/25V/M/85	CED470TEP001
C409	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C410	CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C411	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C415	ELECTROLYTIC CAP. 22μF/50V M or	CE1JMASDL220
	CAP ELE 22μF/50V/M/85 or	CEF220KSN001
	CAP ELE 22μF/50V/M/85	CEF220TEP001
C416	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V or	CHD1EK30B104
	CAP CHIP 1608 K/X7R/0.1μF/25V	CHD104EYA039
C417	ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
	CAP ELE 1μF/50V/M/85 or	CEF1R0KSN001
	CAP ELE 1μF/50V/M/85	CEF1R0TEP001
C420	CHIP CERAMIC CAP.(1608) B K 0.1μF/16V	CHD1CK30B104
C421	CHIP CERAMIC CAP.(1608) CH D 10pF/50V or	CHD1JD3CH100
	CHIP CERAMIC CAP.(1608) CH J 10pF/50V or	CHD1JJ3CH100
	CAP CHIP 1608 D/C0G/10pF/50V	CHD100EYA029
C501	ELECTROLYTIC CAP. 100μF/25V M or	CE1EMASDL101
	CAP ELE 100μF/25V/M/85 or	CED101KSN001
	CAP ELE 100μF/25V/M/85	CED101TEP001
C503	ELECTROLYTIC CAP. 470μF/25V M or	CE1EMASDL471
	CAP ELE 470μF/25V/M/85 or	CED471KSN001
	CAP ELE 470μF/25V/M/85	CED471TEP001
C504	ELECTROLYTIC CAP. 100μF/25V M or	CE1EMASDL101
	CAP ELE 100μF/25V/M/85 or	CED101KSN001
	CAP ELE 100μF/25V/M/85	CED101TEP001
C505	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C507	CAP ELE STD-85 4700μF 6.3V SL or	CE0KMZNDL472
	ELECTROLYTIC CAP. 4700μF/6.3V SM or	CE0KMZPDL472
	CAP ELE 4700μF/6.3V/M/85 or	CEA472KSN002
	CAP ELE 4700μF/6.3V/M/85	CEA472TEP002
C508	ELECTROLYTIC CAP. 1000μF/6.3V M or	CE0KMASDL102
	CAP ELE 1000μF/6.3V/M/85 or	CEA102KSN001
	CAP ELE 1000μF/6.3V/M/85	CEA102TEP001
C509	CERAMIC CAP. 1500pF/2KV or	CA3D152PAN04
	CERAMIC CAP RB 1500pF/2KV or	CA3D152TE006
	CERAMIC CAP. BL 1500pF/2KV	CA3D152XF003
C510	ELECTROLYTIC CAP. 22μF/50V M or	CE1JMASDL220
	CAP ELE 22μF/50V/M/85 or	CEF220KSN001
	CAP ELE 22μF/50V/M/85	CEF220TEP001
C511	ELECTROLYTIC CAP. 220μF/50V M or	CE1JMZADL221
	ELECTROLYTIC CAP. 220μF/50V M or	CE1JMZPDL221
	CAP ELE 220μF/50V/M/85 or	CEF221KSN002
	CAP ELE 220μF/50V/M/85	CEF221TEP002
C513	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	CAP ELE 10μF/50V/M/85 or	CEF100KSN001
	CAP ELE 10μF/50V/M/85	CEF100TEP001
C514	ELECTROLYTIC CAP. 100μF/25V M or	CE1EMASDL101
	CAP ELE 100μF/25V/M/85 or	CED101KSN001
	CAP ELE 100μF/25V/M/85	CED101TEP001
C515	ELECTROLYTIC CAP. 3300μF/10V or	CE1AMZNDL332
	ELECTROLYTIC CAP. 3300μF/10V M or	CE1AMZPDL332
	CAP ELE 3300μF/10V/M/85 or	CEB332KSN002
	CAP ELE 3300μF/10V/M/85	CEB332TEP002
C516	ELECTROLYTIC CAP. 2200μF/10V M or	CE1AMZNDL222
	ELECTROLYTIC CAP. 2200μF/10V M or	CE1AMZPDL222
	CAP ELE 2200μF/10V/M/85 or	CEB222KSN002
	CAP ELE 2200μF/10V/M/85	CEB222TEP002
C517	ELECTROLYTIC CAP. 1000μF/10V M or	CE1AMASDL102

Ref. No.	Description	Part No.
	CAP ELE 1000μF/10V/M/85 or	CEB102KSN001
	CAP ELE 1000μF/10V/M/85	CEB102TEP001
C518	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C519	POLYESTER FILM CAP. (PB FREE) 0.0022μF/100V J or	CA2A222DT018
	CAP POLYESTER FILM 0.0022μF/100V J or	CA2A222SER02
	POLYESTER FILM CAP. 0.0022μF/100V J	CMB222EUR001
C521	ELECTROLYTIC CAP. 100μF/10V M or	CE1AMASDL101
	CAP ELE 100μF/10V/M/85 or	CEB101KSN001
	CAP ELE 100μF/10V/M/85	CEB101TEP001
C522	ELECTROLYTIC CAP. 1000μF/25V M or	CE1EMZPDL102
	ELECTROLYTIC CAP. 1000μF/25V M or	CE1EMZNDL102
	CAP ELE 1000μF/25V/M/85 or	CED102KSN002
	CAP ELE 1000μF/25V/M/85	CED102TEP002
C524	ELECTROLYTIC CAP. 100μF/16V M or	CE1CMASDL101
	CAP ELE 100μF/16V/M/85 or	CEC101KSN001
	CAP ELE 100μF/16V/M/85	CEC101TEP001
C525	ELECTROLYTIC CAP. 100μF/16V M or	CE1CMASDL101
	CAP ELE 100μF/16V/M/85 or	CEC101KSN001
	CAP ELE 100μF/16V/M/85	CEC101TEP001
C527	ELECTROLYTIC CAP. 47μF/25V M or	CE1EMASDL470
	CAP ELE 47μF/25V/M/85 or	CED470KSN001
	CAP ELE 47μF/25V/M/85	CED470TEP001
C528	ELECTROLYTIC CAP. 1000μF/10V M or	CE1AMASDL102
	CAP ELE 1000μF/10V/M/85 or	CEB102KSN001
	CAP ELE 1000μF/10V/M/85	CEB102TEP001
C529	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C532	ELECTROLYTIC CAP. 47μF/25V M or	CE1EMASDL470
	CAP ELE 47μF/25V/M/85 or	CED470KSN001
	CAP ELE 47μF/25V/M/85	CED470TEP001
C533	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C601	POLYESTER FILM CAP. (PB FREE) 0.047μF/100V J or	CA2A473DT018
	CAP POLYESTER FILM 0.047μF/100V J or	CA2A473SER02
	CAP POLYESTER FILM 0.047μF/100V/J/PCMT or	CTA473PKR003
	POLYESTER FILM CAP. 0.047μF/100V J	CMB473EUR001
C604	CAP METALIZED FILM 0.47μF/300V K 3.5MM or	CT2F474DC004
⚠	CAP METALIZED FILM 0.47μF/310V /K/LE-MX or	CTA4740DC001
⚠	CAP METALIZED FILM 0.47μF/250V/K/MPX or	CTA474EUR001
⚠	CAP METALIZED FILM 0.47μF/275V/K	CTA474PKR001
C605	CAP METALIZED FILM 0.47μF/300V K 3.5MM or	CT2F474DC004
⚠	CAP METALIZED FILM 0.47μF/310V /K/LE-MX or	CTA4740DC001
⚠	CAP METALIZED FILM 0.47μF/250V/K/MPX or	CTA474EUR001
⚠	CAP METALIZED FILM 0.47μF/275V/K	CTA474PKR001
C606	CERAMIC CAP. B K 0.01μF/500V	CCD2JKP0B103
C607	CERAMIC CAP. B K 0.01μF/500V	CCD2JKP0B103
C608	SAFTY CAP. 1000pF/250V KX or	CA2E102MR101
⚠	SAFTY CAP. 1000pF/250V or	CCN2EMA0E102
⚠	SAFETY CAP. 1000pF/250V	CCN2HMN0E102
C610	CAP ELECTROLYTIC 220μF/400V/M/30/30 or	CA2H221DYG10
	CAP ELE 85 220μF/400V M85_30X35 or	CEN221KSN006
	CAP ELE 220μF/400V	CA2H221NC206
C611	CERAMIC CAP. 220pF/2KV or	CA3D221PAN04
	CERAMIC CAP. RB 220pF/2KV or	CA3D221TE006
	CERAMIC CAP. BL 220pF/2KV	CA3D221XF003
C613	POLYESTER FILM CAP. (PB FREE) 0.033μF/100V J or	CA2A333DT018
	CAP POLYESTER FILM 0.033μF/100V J or	CA2A333SER02
	CAP POLYESTER FILM 0.033μF/100V/J/PCMT or	CTA333PKR003
	POLYESTER FILM CAP. 0.033μF/100V J	CMB333EUR001
C615	POLYESTER FILM CAP. (PB FREE) 0.0027μF/100V J or	CA2A272DT018
	CAP POLYESTER FILM 0.0027μF/100V J or	CA2A272SER02
	CAP POLYESTER 0.0027μF/50V/5%/POLY	CA1J272DT026

Ref. No.	Description	Part No.
C801	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or CAP CHIP 1608 K/X7R/0.047μF/50V	CHD1JK30B473 CHD473EYA032
C802	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or CAP CHIP 1608 K/X7R/0.047μF/50V	CHD1JK30B473 CHD473EYA032
C803	CHIP CERAMIC CAP.(1608) B K 0.22μF/16V or CAP CHIP 1608 K/X5R/0.22μF/16V	CHD1CK30B224 CHD224EYA045
C805	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or CAP CHIP 1608 K/X7R/0.047μF/50V	CHD1JK30B473 CHD473EYA032
C806	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or CAP CHIP 1608 K/X7R/0.047μF/50V	CHD1JK30B473 CHD473EYA032
C807	CHIP CERAMIC CAP.(1608) B K 0.22μF/16V or CAP CHIP 1608 K/X5R/0.22μF/16V	CHD1CK30B224 CHD224EYA045
C809	ELECTROLYTIC CAP. 2.2μF/50V M or CAP ELE 2.2μF/50V/M/85 or CAP ELE 2.2μF/50V/M/85	CE1JMASDL2R2 CEF2R2KSN001 CEF2R2TEP001
C810	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or CAP CHIP 1608 K/X7R/0.1μF/50V	CHD1JK30B104 CHD104EYA032
C811	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or CAP CHIP 1608 K/X7R/0.1μF/50V	CHD1JK30B104 CHD104EYA032
C812	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C813	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or CAP CHIP 1608 K/X7R/0.1μF/50V	CHD1JK30B104 CHD104EYA032
C814	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C815	ELECTROLYTIC CAP. 10μF/50V M or CAP ELE 10μF/50V/M/85 or CAP ELE 10μF/50V/M/85	CE1JMASDL100 CEF100KSN001 CEF100TEP001
C816	ELECTROLYTIC CAP. 2.2μF/50V M or CAP ELE 2.2μF/50V/M/85 or CAP ELE 2.2μF/50V/M/85	CE1JMASDL2R2 CEF2R2KSN001 CEF2R2TEP001
C817	ELECTROLYTIC CAP. 10μF/50V M or CAP ELE 10μF/50V/M/85 or CAP ELE 10μF/50V/M/85	CE1JMASDL100 CEF100KSN001 CEF100TEP001
C818	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C819	ELECTROLYTIC CAP. 10μF/50V M or CAP ELE 10μF/50V/M/85 or CAP ELE 10μF/50V/M/85	CE1JMASDL100 CEF100KSN001 CEF100TEP001
C820	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or CAP CHIP 1608 K/X7R/0.1μF/50V	CHD1JK30B104 CHD104EYA032
C821	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or CAP CHIP 1608 K/X7R/0.1μF/50V	CHD1JK30B104 CHD104EYA032
C822	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C823	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or CAP CHIP 1608 K/X7R/0.1μF/50V	CHD1JK30B104 CHD104EYA032
C824	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C825	ELECTROLYTIC CAP. 10μF/50V M or CAP ELE 10μF/50V/M/85 or CAP ELE 10μF/50V/M/85	CE1JMASDL100 CEF100KSN001 CEF100TEP001
C826	ELECTROLYTIC CAP. 3.3μF/50V M or CAP ELE 3.3μF/50V/M/85 or CAP ELE 3.3μF/50V/M/85	CE1JMASDL3R3 CEF3R3KSN001 CEF3R3TEP001
C827	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or CAP CHIP 1608 K/X7R/0.1μF/50V	CHD1JK30B104 CHD104EYA032
C828	ELECTROLYTIC CAP. 47μF/25V M or CAP ELE 47μF/25V/M/85 or CAP ELE 47μF/25V/M/85	CE1EMASDL470 CED470KSN001 CED470TEP001
C830	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C831	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C832	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C833	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C835	CHIP CERAMIC CAP.(1608) CH J 270pF/50V	CHD1JJ3CH271
C836	CHIP CERAMIC CAP.(1608) CH J 270pF/50V	CHD1JJ3CH271
C837	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V	CHD1JJ3CH101 CHD101EYA030
C838	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C839	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C840	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C841	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102

Ref. No.	Description	Part No.
CONNECTORS		
CN101	CONNECTOR PRINT OSU JS-1125-06(K) or PH CONNECTOR TOP 6P B6B-PH-K-S (LF)(SN)	J3JT06CHY001 J3PHC06JG029
CN401	FFC CONNECTOR IMSA-9615S-29A-PP-A or CONNECTOR PRINT MES 00 6232 029 006 800+ or CONNECTOR PRINT MES 29 S 1.0-11-29P	JC96J29ER007 JC62G29UG026 JC1129JSH001
CN402	FFC CONNECTOR IMSA-9615S-29A-PP-A or CONNECTOR PRINT MES 00 6232 029 006 800+ or CONNECTOR PRINT MES 29 S 1.0-11-29P	JC96J29ER007 JC62G29UG026 JC1129JSH001
CN403	FFC CONNECTOR IMSA-9615S-29A-PP-A or CONNECTOR PRINT MES 00 6232 029 006 800+ or CONNECTOR PRINT MES 29 S 1.0-11-29P	JC96J29ER007 JC62G29UG026 JC1129JSH001
CN404	FFC CONNECTOR IMSA-9615S-29A-PP-A or CONNECTOR PRINT MES 00 6232 029 006 800+ or CONNECTOR PRINT MES 29 S 1.0-11-29P	JC96J29ER007 JC62G29UG026 JC1129JSH001
CN405	FFC CONNECTOR 15P IMSA-9615S-15A-PP-A or CONNECTOR FPC 15P 00 6232 015 006 800+ or CONNECTOR PRINT MES 15 S 1.0-11-15P	JC96J15ER007 JC62G15UG026 JC1115JSH001
CN600	WIRE ASSEMBLY 2PIN 2PIN/115MM/AWG18/ BLA	WX1A93F0-205
CN601 	WIRE ASSEMBLY 2PIN 2PIN/50MM/AWG18/ BLUE	WX1A0CF0-102
CN801	PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN) or CONNECTOR PRINT OSU TOP 2P 440054-2 or CONNECTOR PRINT OSU JS-1125-02KK	J3PHC02JG029 J344C02AP001 J3JT02CHY002
CN802	PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN) or CONNECTOR PRINT OSU TOP 2P 440054-2 or CONNECTOR PRINT OSU JS-1125-02KK	J3PHC02JG029 J344C02AP001 J3JT02CHY002
DIODES		
D183	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E or DIODE SWITCHING 1N4148-F0021	QDTZ001SS133 QDTZ0HSS4148 NDTZ01N4148F
D206	DIODE ZENER 5V6BSB-T26 or DIODE ZENER HZS5.6NB2TE-EQ	NDTB5R6BST26 QDTB0HZS5R6N
D207	DIODE ZENER 5V6BSB-T26 or DIODE ZENER HZS5.6NB2TE-EQ	NDTB5R6BST26 QDTB0HZS5R6N
D208	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E or DIODE SWITCHING 1N4148-F0021	QDTZ001SS133 QDTZ0HSS4148 NDTZ01N4148F
D209	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E or DIODE SWITCHING 1N4148-F0021	QDTZ001SS133 QDTZ0HSS4148 NDTZ01N4148F
D212	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E or DIODE SWITCHING 1N4148-F0021	QDTZ001SS133 QDTZ0HSS4148 NDTZ01N4148F
D213	DIODE ZENER 3V9BSB-T26 or DIODE ZENER HZS3.9NB2TE-EQ	NDTB3R9BST26 QDTB0HZS3R9N
D301	DIODE ZENER 5V6BSB-T26 or DIODE ZENER HZS5.6NB2TE-EQ	NDTB5R6BST26 QDTB0HZS5R6N
D302	DIODE ZENER 5V6BSB-T26 or DIODE ZENER HZS5.6NB2TE-EQ	NDTB5R6BST26 QDTB0HZS5R6N
D303	DIODE ZENER 5V6BSB-T26 or DIODE ZENER HZS5.6NB2TE-EQ	NDTB5R6BST26 QDTB0HZS5R6N
D304	DIODE ZENER 5V6BSB-T26 or DIODE ZENER HZS5.6NB2TE-EQ	NDTB5R6BST26 QDTB0HZS5R6N
D305	DIODE ZENER 5V6BSB-T26 or DIODE ZENER HZS5.6NB2TE-EQ	NDTB5R6BST26 QDTB0HZS5R6N
D306	DIODE ZENER 5V6BSB-T26 or DIODE ZENER HZS5.6NB2TE-EQ	NDTB5R6BST26 QDTB0HZS5R6N
D307	DIODE ZENER 5V6BSB-T26 or DIODE ZENER HZS5.6NB2TE-EQ	NDTB5R6BST26 QDTB0HZS5R6N
D308	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26

Ref. No.	Description	Part No.
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D309	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D310	DIODE ZENER 3V9BSB-T26 or	NDTB3R9BST26
	DIODE ZENER HZS3.9NB2TE-EQ	QDTB0HZS3R9N
D311	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D312	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D313	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D314	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D315	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D316	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D317	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D318	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D319	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D320	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D321	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D322	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D323	DIODE ZENER 3V9BSB-T26 or	NDTB3R9BST26
	DIODE ZENER HZS3.9NB2TE-EQ	QDTB0HZS3R9N
D324	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D325	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D326	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D401	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D402	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D403	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D502	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D503	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D504	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD	NDL1000FR154
D505	DIODE ZENER 20BSB-T26 or	NDTB020BST26
	DIODE ZENER HZS20NB2TE-EQ	QDTBHZS20NB2
D506	IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
	IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
	IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
D507	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D508	DIODE ZENER 8V2BSA-T26 or	NDTA8R2BST26
	DIODE ZENER HZS8.2NB1TE-EQ	QDTA0HZS8R2N
D509	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F

Ref. No.	Description	Part No.
D511	SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D512	DIODE ZENER 24BSB-T26 or	NDTB024BST26
	DIODE ZENER HZS24NB2TE-EQ	QDTBHZS24NB2
D513	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D514	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD	NDL1000FR154
D516	DIODE ZENER 1ZB43BB or	NDWZ0001ZB43
	DIODE ZENER 1N4755A B0 43V	NDLZ01N4755A
D518	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D519	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D520	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D521	DIODE ZENER 6V2BSA-T26 or	NDTA6R2BST26
	DIODE ZENER HZS6.2NB1TE-EQ	QDTA0HZS6R2N
D522	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D523	SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D524	SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D525	SCHOTTKY BARRIER DIODE SB270-B/P	NDWZ000SB270
D526	IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
	IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
	IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
D527	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D528	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D529	DIODE ZENER 3V9BSB-T26 or	NDTB3R9BST26
	DIODE ZENER HZS3.9NB2TE-EQ	QDTB0HZS3R9N
D530	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D531	SCHOTTKY BARRIER DIODE SB140	NDWZ000SB140
D532	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
D533	DIODE ZENER 6V2BSB-T26 or	NDTB6R2BST26
	DIODE ZENER HZS6.2NB2TE-EQ	QDTB0HZS6R2N
D534	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D536	DIODE ZENER 3V3BSB-T26 or	NDTB3R3BST26
	DIODE ZENER HZS3.3NB2TE-EQ	QDTB0HZS3R3N
D537	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D538	DIODE ZENER 6V8BSB-T26 or	NDTB6R8BST26
	DIODE ZENER HZS6.8NB2TE-EQ	QDTB0HZS6R8N
D539	SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D541	DIODE ZENER 3V3BSB-T26 or	NDTB3R3BST26
	DIODE ZENER HZS3.3NB2TE-EQ	QDTB0HZS3R3N
D542	DIODE ZENER 6V2BSB-T26 or	NDTB6R2BST26
	DIODE ZENER HZS6.2NB2TE-EQ	QDTB0HZS6R2N
D543	DIODE ZENER 5V6BSC-T26 or	NDTC5R6BST26
	DIODE ZENER HZS5.6NB3TE-EQ	QDTC0HZS5R6N
D544	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
D545	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148

Ref. No.	Description	Part No.
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D546	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D549	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D552	IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
	IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
	IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
D557	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D608	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D609	DIODE 1N5408-B/P or	NDLZ001N5408
	DIODE RECTIFY 1N5408BH	NDL2001N5408
D610	DIODE 1N5408-B/P or	NDLZ001N5408
	DIODE RECTIFY 1N5408BH	NDL2001N5408
D611	DIODE 1N5408-B/P or	NDLZ001N5408
	DIODE RECTIFY 1N5408BH	NDL2001N5408
D612	DIODE 1N5408-B/P or	NDLZ001N5408
	DIODE RECTIFY 1N5408BH	NDL2001N5408
D613	DIODE ZENER 27BSB-T26 or	NDTB027BST26
	DIODE ZENER HZS27NB2TE-EQ	QDTBHZS27NB2
D614	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D615	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D616	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D617	DIODE ZENER 1ZB18BB or	NDWZ0001ZB18
	DIODE ZENER 1N4746A B0 18V	NDLZ01N4746A
D620	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
D801	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D803	DIODE ZENER 18BSB-T26 or	NDTB018BST26
	DIODE ZENER HZS18NB2TE-EQ	QDTBHZS18NB2
D804	DIODE ZENER 18BSB-T26 or	NDTB018BST26
	DIODE ZENER HZS18NB2TE-EQ	QDTBHZS18NB2
D805	DIODE ZENER 18BSB-T26 or	NDTB018BST26
	DIODE ZENER HZS18NB2TE-EQ	QDTBHZS18NB2
D806	DIODE ZENER 18BSB-T26 or	NDTB018BST26
	DIODE ZENER HZS18NB2TE-EQ	QDTBHZS18NB2
D807	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D810	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
ICS		
IC401	IC TL3472CDR or	NSZBA0TTY115
	IC MC34072L-S08-R	QSZBA0TUTC01
IC607	PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV
IC803	IC D-AMP BD5426EFS-E2	QSZBA0TRM137
COILS		
L11	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
L202	INDUCTOR 0.22μH-J-26T	LLAXJATTUR22
L203	INDUCTOR 0.22μH-J-26T	LLAXJATTUR22
L204	INDUCTOR 0.22μH-J-26T	LLAXJATTUR22
L301	INDUCTOR 4.7μH-J-26T	LLAXJATTU4R7
L302	INDUCTOR 4.7μH-J-26T	LLAXJATTU4R7

Ref. No.	Description	Part No.
L303	INDUCTOR 12μH-J-26T	LLAXJATTU120
L304	INDUCTOR 12μH-J-26T	LLAXJATTU120
L601	LINE FILTER MS036 or	LLBG00ZY2009
	LINE FILTER JLB2808 or	LLBG00ZXB004
	COIL BOBBIN LCL-2868/8.2MH	LLB00EME001
L602	LINE FILTER MS036 or	LLBG00ZY2009
	LINE FILTER JLB2808 or	LLBG00ZXB004
	COIL BOBBIN LCL-2868/8.2MH	LLB00EME001
L801	COIL SEALED POWER INDUCTORS LHL10NB680K or	LLARKGQTU680
	COIL SEALED POWER INDUCTORS CWKBNP-680K or	LLF6800KV002
	COIL DRUM JLC08105 68UH	LLD0A0XB005
L802	COIL SEALED POWER INDUCTORS LHL10NB680K or	LLARKGQTU680
	COIL SEALED POWER INDUCTORS CWKBNP-680K or	LLF6800KV002
	COIL DRUM JLC08105 68UH	LLD0A0XB005
L803	COIL SEALED POWER INDUCTORS LHL10NB680K or	LLARKGQTU680
	COIL SEALED POWER INDUCTORS CWKBNP-680K or	LLF6800KV002
	COIL DRUM JLC08105 68UH	LLD0A0XB005
L804	COIL SEALED POWER INDUCTORS LHL10NB680K or	LLARKGQTU680
	COIL SEALED POWER INDUCTORS CWKBNP-680K or	LLF6800KV002
	COIL DRUM JLC08105 68UH	LLD0A0XB005
COILS		
Q11	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-Y(Te2 F T) or	QQSY2SA1015F
	TRANSISTOR 2SA1015-GR(Te2 F T) or	QQS12SA1015F
	PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q182	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-Y(Te2 F T) or	QQSY2SA1015F
	TRANSISTOR 2SA1015-GR(Te2 F T) or	QQS12SA1015F
	PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q183	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
	TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q340	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-Y(Te2 F T) or	QQSY2SA1015F
	TRANSISTOR 2SA1015-GR(Te2 F T) or	QQS12SA1015F
	PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q401	TRANSISTOR 2SC2655-Y(Te6 F M)	QQSY2SC2655F
Q402	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
	TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343

Ref. No.	Description	Part No.
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q521	TRANSISTOR 2SC2120-Y(T _{E2} F T) or	QQSY2SC2120F
	TRANSISTOR 2SC2120-Q(T _{E2} F T) or	QQS02SC2120F
	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
	TRANSISTOR KTC3203-O-AT/P or	NQS0KTC3203P
	NPN TRANSISTOR 2SC5344 Y or	NQSY02SC5344
	NPN TRANSISTOR 2SC5344O-AT	NQS002SC5344
Q525	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-Y(T _{E2} F T) or	QQSY2SA1015F
	TRANSISTOR 2SA1015-GR(T _{E2} F T) or	QQS12SA1015F
	PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q526	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-Y(T _{E2} F T) or	QQSY2SC1815F
	TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q601 [△]	FET 2SK3566(Q) or	QFWZ02SK3566
[△]	FET 2SK3566(Q M)	QFQZSK3566QM
Q602	TRANSISTOR 2SC2120-Y(T _{E2} F T) or	QQSY2SC2120F
	TRANSISTOR 2SC2120-Q(T _{E2} F T) or	QQS02SC2120F
	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
	TRANSISTOR KTC3203-O-AT/P or	NQS0KTC3203P
	NPN TRANSISTOR 2SC5344 Y or	NQSY02SC5344
	NPN TRANSISTOR 2SC5344O-AT	NQS002SC5344
RESISTORS		
R12	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R13	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R14	RES CARBON FILM 1/4W J 1.2k Ω or	RCX4122FS002
	RES CARBON FILM T 1/4W J 1.2k Ω or	RCX4122T1001
	RES CARBON FILM 1/4W J 1.2k Ω	RCJ122PAK001
R15	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
R17	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R18	RES CARBON FILM 1/4W J 820 Ω or	RCX4821FS002
	RES CARBON FILM T 1/4W J 820 Ω or	RCX4821T1001
	RES CARBON FILM 1/4W J 820 Ω	RCJ821PAK001
R183	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R184	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R186	CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
	RES CHIP 1608 1/10W J 33k Ω	RRXA333YF002
R201	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R203	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R204	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R206	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R208	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R209	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R210	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R211	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R212	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R213	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R214	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R215	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R216	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R217	CHIP RES. 1/10W J 300 Ω or	RRXAJR5Z0301
	RES CHIP 1608 1/10W J 300 Ω	RRXA301YF002
R218	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R219	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R222	RES CARBON FILM 1/4W J 1k Ω or	RCX4102FS002
	RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
	RES CARBON FILM 1/4W J 1.0k Ω	RCJ102PAK001
R227	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R228	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R229	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R230	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R301	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R303	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R304	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R305	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R307	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R308	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R309	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R310	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R311	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R312	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R313	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R314	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R315	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R316	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R317	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R318	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R319	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R320	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R322	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R324	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R325	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R326	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R328	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R329	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R330	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R331	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R332	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R333	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R334	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R335	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R336	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R341	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R342	RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
	RES CARBON FILM T 1/4W J 470 Ω or	RCX4471T1001
	RES CARBON FILM 1/4W J 470 Ω	RCJ471PAK001
R401	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R402	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R403	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R404	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R405	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R406	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R407	CHIP RES. 1/10W J 1 Ω or	RRXAJR5Z01R0
	RES CHIP 1608 1/10W J 1 Ω	RRXA1R0YF002
R408	RES CARBON FILM 1/4W J 10 Ω or	RCX4100FS002
	RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
	RES CARBON FILM 1/4W J 10 Ω	RCJ100PAK001
R409	RES CARBON FILM 1/4W J 10 Ω or	RCX4100FS002
	RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
	RES CARBON FILM 1/4W J 10 Ω	RCJ100PAK001
R410	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R411	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R412	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R413	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R414	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R415	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R418	RES CARBON FILM 1/4W J 1k Ω or	RCX4102FS002
	RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
	RES CARBON FILM 1/4W J 1.0k Ω	RCJ102PAK001
R422	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002

Ref. No.	Description	Part No.
R423	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R501	RES CARBON FILM 1/4W J 3.3 Ω or	RCX43R3FS002
	RES CARBON FILM T 1/4W J 3.3 Ω or	RCX43R3T1001
	RES CARBON FILM 1/4W J 3.3 Ω	RCJ3R3PAK001
R508	CHIP RES. 1/10W F 11k Ω or	RRXAFR5H1102
	CHIP RES. 1/10W F 11k Ω or	RRXAFR5Z1102
	RES CHIP 1608 1/10W F 11.0k Ω	RTW1102YF002
R509	CHIP RES. 1/10W F 750 Ω or	RRXAFR5H7500
	CHIP RES. 1/10W F 750 Ω or	RRXAFR5Z7500
	RES CHIP 1608 1/10W F 750 Ω	RTW7500YF002
R510	RES CARBON FILM 1/4W J 8.2k Ω or	RCX4822FS002
	RES CARBON FILM T 1/4W J 8.2k Ω or	RCX4822T1001
	RES CARBON FILM 1/4W J 8.2k Ω	RCJ822PAK001
R511	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R512	CHIP RES. 1/10W F 2.2k Ω or	RRXAFR5H2201
	CHIP RES.(1608) 1/10W F 2.2k Ω or	RRXAFR5Z2201
	RES CHIP 1608 1/10W F 2.20k Ω	RTW2201YF002
R513	RES CARBON FILM 1/4W J 8.2k Ω or	RCX4822FS002
	RES CARBON FILM T 1/4W J 8.2k Ω or	RCX4822T1001
	RES CARBON FILM 1/4W J 8.2k Ω	RCJ822PAK001
R515	CHIP RES. 1/10W F 3.3k Ω or	RRXAFR5H3301
	CHIP RES.(1608) 1/10W F 3.3k Ω or	RRXAFR5Z3301
	RES CHIP 1608 1/10W F 3.30k Ω	RTW3301YF002
R517	RES CARBON FILM 1/4W J 1.8k Ω or	RCX4182FS002
	RES CARBON FILM T 1/4W J 1.8k Ω or	RCX4182T1001
	RES CARBON FILM 1/4W J 1.8k Ω	RCJ182PAK001
R518	RES CARBON FILM 1/4W J 1.8k Ω or	RCX4182FS002
	RES CARBON FILM T 1/4W J 1.8k Ω or	RCX4182T1001
	RES CARBON FILM 1/4W J 1.8k Ω	RCJ182PAK001
R519	RES CARBON FILM 1/4W J 100k Ω or	RCX4104FS002
	RES CARBON FILM T 1/4W J 100k Ω or	RCX4104T1001
	RES CARBON FILM 1/4W J 100k Ω	RCJ104PAK001
R520	RES CARBON FILM 1/4W J 47k Ω or	RCX4473FS002
	RES CARBON FILM T 1/4W J 47k Ω or	RCX4473T1001
	RES CARBON FILM 1/4W J 47k Ω	RCJ473PAK001
R521	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R522	RES CARBON FILM 1/4W J 3.3k Ω or	RCX4332FS002
	RES CARBON FILM T 1/4W J 3.3k Ω or	RCX4332T1001
	RES CARBON FILM 1/4W J 3.3k Ω	RCJ332PAK001
R523	RES CARBON FILM 1/4W J 27k Ω or	RCX4273FS002
	RES CARBON FILM T 1/4W J 27k Ω or	RCX4273T1001
	RES CARBON FILM 1/4W J 27k Ω	RCJ273PAK001
R524	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R526	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
R527	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R529	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R530	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R532	RES CARBON FILM 1/4W J 180 Ω or	RCX4181FS002
	RES CARBON FILM T 1/4W J 180 Ω or	RCX4181T1001
	RES CARBON FILM 1/4W J 180 Ω	RCJ181PAK001
R533	RES CARBON FILM 1/4W J 4.7k Ω or	RCX4472FS002
	RES CARBON FILM T 1/4W J 4.7k Ω or	RCX4472T1001
	RES CARBON FILM 1/4W J 4.7k Ω	RCJ472PAK001
R535	METAL OXIDE FILM RES. 1W J 0.47 Ω or	RN01R47ZU001
	METALOXIDE RES 1W J 0.47OHM	RNJR47PAK001
R536	CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R537	RES CARBON FILM 1/4W J 10 Ω or	RCX4100FS002

Ref. No.	Description	Part No.
	RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
	RES CARBON FILM 1/4W J 10 Ω	RCJ100PAK001
R538	CHIP RES. 1/10W F 3.3k Ω or	RRXAFR5H3301
	CHIP RES.(1608) 1/10W F 3.3k Ω or	RRXAFR5Z3301
	RES CHIP 1608 1/10W F 3.3k Ω	RTW3301YF002
R540	RES CARBON FILM 1/4W J 120 Ω or	RCX4121FS002
	RES CARBON FILM T 1/4W J 120 Ω or	RCX4121T1001
	RES CARBON FILM 1/4W J 120 Ω	RCJ121PAK001
R541	RES CARBON FILM 1/4W J 22k Ω or	RCX4223FS002
	RES CARBON FILM T 1/4W J 22k Ω or	RCX4223T1001
	RES CARBON FILM 1/4W J 22k Ω	RCJ223PAK001
R545	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
R546	RES CARBON FILM 1/4W J 6.8k Ω or	RCX4682FS002
	RES CARBON FILM T 1/4W J 6.8k Ω or	RCX4682T1001
	RES CARBON FILM 1/4W J 6.8k Ω	RCJ682PAK001
R547	RES CARBON FILM 1/4W J 270 Ω or	RCX4271FS002
	RES CARBON FILM T 1/4W J 270 Ω or	RCX4271T1001
	RES CARBON FILM 1/4W J 270 Ω	RCJ271PAK001
R548	RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
	RES CARBON FILM T 1/4W J 10k Ω or	RCX4103T1001
	RES CARBON FILM 1/4W J 10k Ω	RCJ103PAK001
R549	RES CARBON FILM 1/4W J 15k Ω or	RCX4153FS002
	RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
	RES CARBON FILM 1/4W J 15k Ω	RCJ153PAK001
R550	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
R551	RES CARBON FILM 1/4W J 12k Ω or	RCX4123FS002
	RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
	RES CARBON FILM 1/4W J 12k Ω	RCJ123PAK001
R552	RES CARBON FILM 1/4W J 12k Ω or	RCX4123FS002
	RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
	RES CARBON FILM 1/4W J 12k Ω	RCJ123PAK001
R554	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
R555	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
R556	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R557	RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
	RES CARBON FILM T 1/4W J 10k Ω or	RCX4103T1001
	RES CARBON FILM 1/4W J 10k Ω	RCJ103PAK001
R558	CHIP RES. 1/10W J 56k Ω or	RRXAJR5Z0563
	RES CHIP 1608 1/10W J 56k Ω	RRXA563YF002
R559	RES CARBON FILM 1/4W J 3.3k Ω or	RCX4332FS002
	RES CARBON FILM T 1/4W J 3.3k Ω or	RCX4332T1001
	RES CARBON FILM 1/4W J 3.3k Ω	RCJ332PAK001
R560	RES CARBON FILM 1/4W J 15 Ω or	RCX4150FS002
	RES CARBON FILM T 1/4W J 15 Ω or	RCX4150T1001
	RES CARBON FILM 1/4W J 15 Ω	RCJ150PAK001
R562	RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
	RES CARBON FILM T 1/4W J 10k Ω or	RCX4103T1001
	RES CARBON FILM 1/4W J 10k Ω	RCJ103PAK001
R565	RES CARBON FILM 1/4W J 1k Ω or	RCX4102FS002
	RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
	RES CARBON FILM 1/4W J 1.0k Ω	RCJ102PAK001
R566	RES CARBON FILM 1/4W J 1k Ω or	RCX4102FS002
	RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
	RES CARBON FILM 1/4W J 1.0k Ω	RCJ102PAK001
R567	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R568	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R569	RES CARBON FILM 1/4W J 47 Ω or	RCX4470FS002
	RES CARBON FILM T 1/4W J 47 Ω or	RCX4470T1001
	RES CARBON FILM 1/4W J 47 Ω	RCJ470PAK001
R570	RES CARBON FILM 1/4W J 1.8k Ω or	RCX4182FS002

Ref. No.	Description	Part No.
	RES CARBON FILM T 1/4W J 1.8k Ω or	RCX4182T1001
	RES CARBON FILM 1/4W J 1.8k Ω	RCJ182PAK001
R572	METAL OXIDE FILM RES. 1W J 1 Ω or	RN011R0ZU001
	METALOXIDE RES 1W J 1 Ω	RNJ1R0PAK001
R573	RES CARBON FILM 1/4W J 2.2k Ω or	RCX4222FS002
	RES CARBON FILM T 1/4W J 2.2k Ω or	RCX4222T1001
	RES CARBON FILM 1/4W J 2.2k Ω	RCJ222PAK001
R578	RES CARBON FILM 1/4W J 3.3k Ω or	RCX4332FS002
	RES CARBON FILM T 1/4W J 3.3k Ω or	RCX4332T1001
	RES CARBON FILM 1/4W J 3.3k Ω	RCJ332PAK001
R580	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
R581	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
R583	RES CARBON FILM 1/4W J 100k Ω or	RCX4104FS002
	RES CARBON FILM T 1/4W J 100k Ω or	RCX4104T1001
	RES CARBON FILM 1/4W J 100k Ω	RCJ104PAK001
R589	RES CARBON FILM 1/4W J 180 Ω or	RCX4181FS002
	RES CARBON FILM T 1/4W J 180 Ω or	RCX4181T1001
	RES CARBON FILM 1/4W J 180 Ω	RCJ181PAK001
R590	RES CARBON FILM 1/4W J 47 Ω or	RCX4470FS002
	RES CARBON FILM T 1/4W J 47 Ω or	RCX4470T1001
	RES CARBON FILM 1/4W J 47 Ω	RCJ470PAK001
R591	RES CARBON FILM 1/4W J 47 Ω or	RCX4470FS002
	RES CARBON FILM T 1/4W J 47 Ω or	RCX4470T1001
	RES CARBON FILM 1/4W J 47 Ω	RCJ470PAK001
R594	RES CARBON FILM 1/4W J 2.2k Ω or	RCX4222FS002
	RES CARBON FILM T 1/4W J 2.2k Ω or	RCX4222T1001
	RES CARBON FILM 1/4W J 2.2k Ω	RCJ222PAK001
R595	RES CARBON FILM 1/4W J 2.2k Ω or	RCX4222FS002
	RES CARBON FILM T 1/4W J 2.2k Ω or	RCX4222T1001
	RES CARBON FILM 1/4W J 2.2k Ω	RCJ222PAK001
R598	RES CARBON FILM 1/4W J 270 Ω or	RCX4271FS002
	RES CARBON FILM T 1/4W J 270 Ω or	RCX4271T1001
	RES CARBON FILM 1/4W J 270 Ω	RCJ271PAK001
R603	RES CARBON FILM 1/4W J 3.3k Ω or	RCX4332FS002
	RES CARBON FILM T 1/4W J 3.3k Ω or	RCX4332T1001
	RES CARBON FILM 1/4W J 3.3k Ω	RCJ332PAK001
R604	RES CHIP 3216 1/4W J 680k Ω or	RRX4684HH034
	RES CHIP 3216 1/4W J 680k Ω or	RRX4684YF004
	CHIP RES. 1/4W J 680k Ω	RRX4JR7Z0684
R605	GLASS GLAZE RES. 1/2W J 1.5M Ω or	RXX2JZLZ0155
△	RES. CARBON FILM J 1/2W J 1.5M Ω	RCX2155T1003
R606	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105YF004
	CHIP RES. 1/4W J 1M Ω	RRX4JR7Z0105
R607	RES CARBON FILM 1/4W J 270 Ω or	RCX4271FS002
	RES CARBON FILM T 1/4W J 270 Ω or	RCX4271T1001
	RES CARBON FILM 1/4W J 270 Ω	RCJ271PAK001
R611	RES CARBON FILM 1/4W J 120 Ω or	RCX4121FS002
	RES CARBON FILM T 1/4W J 120 Ω or	RCX4121T1001
	RES CARBON FILM 1/4W J 120 Ω	RCJ121PAK001
R612	METAL OXIDE FILM RES. 2W J 1 Ω or	RN021R0ZU001
	METALOXIDE RES 2W J 1 Ω	RNJ1R0PAK002
R615	RES CARBON FILM 1/4W J 150 Ω or	RCX4151FS002
	RES CARBON FILM T 1/4W J 150 Ω or	RCX4151T1001
	RES CARBON FILM 1/4W J 150 Ω	RCJ151PAK001
R617	GLASS GLAZE RES. 1/2W J 1.5M Ω or	RXX2JZLZ0155
△	RES. CARBON FILM J 1/2W J 1.5M Ω	RCX2155T1003
R618	RES CARBON FILM 1/4W J 390 Ω or	RCX4391FS002
	RES CARBON FILM T 1/4W J 390 Ω or	RCX4391T1001
	RES CARBON FILM 1/4W J 390 Ω	RCJ391PAK001
R619	RES CARBON FILM 1/4W J 1.8k Ω or	RCX4182FS002
	RES CARBON FILM T 1/4W J 1.8k Ω or	RCX4182T1001
	RES CARBON FILM 1/4W J 1.8k Ω	RCJ182PAK001
R620	RES CARBON FILM 1/4W J 330 Ω or	RCX4331FS002
	RES CARBON FILM T 1/4W J 330 Ω or	RCX4331T1001

Ref. No.	Description	Part No.
	RES CARBON FILM 1/4W J 330 Ω	RCJ331PAK001
R623	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105YF004
	CHIP RES. 1/4W J 1M Ω	RRX4JR7Z0105
R624	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105YF004
	CHIP RES. 1/4W J 1M Ω	RRX4JR7Z0105
R626	RES CARBON FILM 1/4W J 120 Ω or	RCX4121FS002
	RES CARBON FILM T 1/4W J 120 Ω or	RCX4121T1001
	RES CARBON FILM 1/4W J 120 Ω	RCJ121PAK001
R628	CHIP RES. 1/10W F 3.3k Ω or	RRXAFR5H3301
	CHIP RES.(1608) 1/10W F 3.3k Ω or	RRXAFR5Z3301
	RES CHIP 1608 1/10W F 3.30k Ω	RTW3301YF002
R629	CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R630	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R631	RES CARBON FILM 1/4W J 100 Ω or	RCX4101FS002
	RES CARBON FILM T 1/4W J 100 Ω or	RCX4101T1001
	RES CARBON FILM 1/4W J 100 Ω	RCJ101PAK001
R632	CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
	RES CHIP 1608 1/10W J 33k Ω	RRXA333YF002
R801	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R802	CHIP RES. 1/10W F 27k Ω or	RRXAFR5H2702
	CHIP RES.(1608) 1/10W F 27k Ω or	RRXAFR5Z2702
	RES CHIP 1608 1/10W F 27.0k Ω	RTW2702YF002
R803	CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R804	CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R806	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R807	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R903	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R904	RES CARBON FILM 1/4W J 100 Ω or	RCX4101FS002
	RES CARBON FILM T 1/4W J 100 Ω or	RCX4101T1001
	RES CARBON FILM 1/4W J 100 Ω	RCJ101PAK001
R905	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
R908	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R909	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
MISCELLANEOUS		
A12	JACK HOLDER(HP) A93F0FP	1EM325982
B7	PCB STUD A93F0FP	1EM326099
B9	HEAT SINK PMR ASSEMBLY A8CN0FP	1EM425837A
B10	MODULE HEAT SINK PMC P7150UT	1EM423968
BC11	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
BC182	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
BC501	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
BC601	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
BC602	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
BC801	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
F601	FUSE 4A/250V(PB FREE) 0215004.MXP	PBGZ20BAG021

Ref. No.	Description	Part No.
FH605	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH606	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
JK201	JACK RCA PCB S GREEN 01/RCA-101H(GN) or	JXRJ010YUQ03
	JACK RCA PCB S(GREEN) 01 MTJ-032-04B-73 FE or	JXRJ010LY030
	JACK RCA PCB S GREEN 01 / RCA-101HF(GN)	JXRJ01YUQ009
JK202	JACK RCA PCB S BLUE 01/RCA-101H(BL) or	JXRJ010YUQ04
	JACK RCA PCB S(BLUE) 01 MTJ-032-04B-74 FE or	JXRJ010LY033
	JACK RCA PCB S BLUE 01 / RCA-101HF(BL)	JXRJ01YUQ010
JK203	JACK RCA PCB S RED 01/RCA-101H(RD) or	JXRJ010YUQ01
	JACK RCA PCB S(RED) 01 MTJ-032-04B-75 FE or	JXRJ010LY028
	JACK PCA PCB S RED 01 / RCA-101HF(RD)	JXRJ01YUQ007
JK204	JACK RCA PCB S WHITE 01/RCA-101H(WH) or	JXRJ010YUQ02
	JACK RCA PCB S (WHITE) 01 MTJ-032-04B-41 FE or	JXRJ010LY031
	JACK RCA PCB S WHITE 01 / RCA-101HF(WH)	JXRJ01YUQ008
JK205	JACK SW RCA PCB S RED RCA-102H(RD) or	JYRJ010YUQ03
	JACK SW RCA PCB S(RED) 01 MTJ-032-04A-75 FE	JYRJ010LY031
JK206	JACK HPEP SML PCB S PJ-358H or	JXSJ020YUQ01
	JACK HPEP SML PCB S 02 MSJ-035-29D (ABS)	JXSJ020LY001
JK207	JACK RCA PCB S ORANGE 01/RCA-101H(OR) or	JXRJ010YUQ06
	JACK RCA PCB S(ORANGE) 01 MTJ-032-04B-76 FE	JXRJ010LY029
JK208	JACK SW HPEP SML PCB L PJ-350 or	JYSL010YUQ03
	JACK SW HPEP SML PCB L MSJ-2000 AG(B110)	JYSL010LY005
JK210	JACK SW DIN PCB S 04/DIN-417HA-01 or	JYEJ040YUQ03
	JACK SW DIN PCB S 04 MDC-076H-A LF	JYEJ040LY002
JK211	JACK RCA PCB S YELLOW 01/RCA-101H(YL) or	JXRJ010YUQ05
	JACK RCA PCB S (YELLOW) 01 MTJ-032-04B-40 FE or	JXRJ010LY032
	JACK RCA PCB S YELLOW 01 / RCA-101HF(YL)	JXRJ01YUQ011
JK212	JACK RCA PCB S WHITE 01/RCA-101H(WH) or	JXRJ010YUQ02
	JACK RCA PCB S (WHITE) 01 MTJ-032-04B-41 FE or	JXRJ010LY031
	JACK RCA PCB S WHITE 01 / RCA-101HF(WH)	JXRJ01YUQ008
JK213	JACK SW RCA PCB S RED RCA-102H(RD) or	JYRJ010YUQ03
	JACK SW RCA PCB S(RED) 01 MTJ-032-04A-75 FE	JYRJ010LY031
JK301	JACK RGB PCB S 01/RGB-11HS	JXGJ21YUQ001
JK302	JACK RGB PCB S 01/RGB-11HS	JXGJ21YUQ001
JS301	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
JS501	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
JS504	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
JS505	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
JS551	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
JS552	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
JS609	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
JS610	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
JS611	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
L3	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
SA602	SURGE ABSORBER 470V+-10PER or	NVQZ10D471KB
△	VARISTOR 10D 471K SVR or	NVQZVR10D471
△	VARISTOR/Q TVR10471KS42Y	NVQKTVR10471
SA608	SURGE ABSORBER 470V+-10PER or	NVQZ10D471KB

Ref. No.	Description	Part No.
△	VARIATOR 10D 471K SVR or	NVQZVR10D471
△	VARIATOR/Q TVR10471KS42Y	NVQKTVR10471
T601△	TRANS POWER BCK-35-0755 or	LTT3PE0XB063
△	TRANS POWER BCK-35AN	LTT3PEMEK011
T602	COIL EE JCC41-0024 54MH	LLEE0Z0XB006

INVERTER ASSEMBLY

Ref. No.	Description	Part No.
	INVERTER ASSEMBLY Consists of the following:	A0CF2M1V-001
	INVERTER CBA FUNCTION CBA IR SENSOR CBA POWER SW CBA	----- ----- ----- -----

INVERTER CBA

Ref. No.	Description	Part No.
	INVERTER CBA Consists of the following:	-----
CAPACITORS		
C1001	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1002	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1003	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1004	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1005	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1006	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1007	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1008	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1009	ELECTROLYTIC CAP. 100μF/25V M or	CE1EMASDL101
	CAP ELE 100μF/25V/M/85 or	CED101KSN001
	CAP ELE 100μF/25V/M/85	CED101TEP001
C1011	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1012	POLYESTER FILM CAP. (PB FREE) 0.0039μF/100V J or	CA2A392DT018
	CAP POLYESTER FILM 0.0039μF/100V J or	CA2A392SER02
	POLYESTER FILM CAP. 0.0039μF/100V J	CMB392EUR001
C1013	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1014	CHIP CERAMIC CAP.(1608) B K 6800pF/50V	CHD1JK30B682
C1040	CHIP CERAMIC CAP.(1608) B K 0.47μF/10V or	CHD1AK30B474
	CAP CHIP 1608 K/X5R/0.47μF/10V	CHD474EYA048
C1050	CERAMIC CAP. B K 0.01μF/1KV	CCD3AKP0B103
C1051	CERAMIC CAP. B K 0.01μF/1KV	CCD3AKP0B103
C1052	ELECTROLYTIC CAP 100μF/100V or	CE2AMZNDL101
	ELECTROLYTIC CAP 100μF/100V or	CE2AMZPDL101
	CAP ELE 100μF/100V/M/85 or	CEH101TEP002
	CAP ELE 100μF/100V/M/85	CEH101KSN002
C1053	ELECTROLYTIC CAP 100μF/100V or	CE2AMZNDL101
	ELECTROLYTIC CAP 100μF/100V or	CE2AMZPDL101
	CAP ELE 100μF/100V/M/85 or	CEH101TEP002
	CAP ELE 100μF/100V/M/85	CEH101KSN002
C1056	ELECTROLYTIC CAP 470μF/100V or	CE2AMZNDL471
	ELECTROLYTIC CAP 470μF/100V or	CE2AMZPDL471
	CAP ELE 470μF/100V/M/85 or	CEH471TEP002
	CAP ELE 470μF/100V/M/85	CEH471KSN002
C1061	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCA1500MR001
	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCC1500MR007
	CAP CERAMIC HV 15pF/6KV/SL/J	CCK1500TE009

Ref. No.	Description	Part No.
C1062	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1063	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	CAP ELE 10μF/50V/M/85 or	CEF100KSN001
	CAP ELE 10μF/50V/M/85	CEF100TEP001
C1065	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCA1500MR001
	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCC1500MR007
	CAP CERAMIC HV 15pF/6KV/SL/J	CCK1500TE009
C1066	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1067	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	CAP ELE 10μF/50V/M/85 or	CEF100KSN001
	CAP ELE 10μF/50V/M/85	CEF100TEP001
C1072	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1111	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCA1500MR001
	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCC1500MR007
	CAP CERAMIC HV 15pF/6KV/SL/J	CCK1500TE009
C1112	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1113	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	CAP ELE 10μF/50V/M/85 or	CEF100KSN001
	CAP ELE 10μF/50V/M/85	CEF100TEP001
C1115	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCA1500MR001
	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCC1500MR007
	CAP CERAMIC HV 15pF/6KV/SL/J	CCK1500TE009
C1116	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1117	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	CAP ELE 10μF/50V/M/85 or	CEF100KSN001
	CAP ELE 10μF/50V/M/85	CEF100TEP001
C1122	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1161	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCA1500MR001
	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCC1500MR007
	CAP CERAMIC HV 15pF/6KV/SL/J	CCK1500TE009
C1162	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1163	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	CAP ELE 10μF/50V/M/85 or	CEF100KSN001
	CAP ELE 10μF/50V/M/85	CEF100TEP001
C1165	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCA1500MR001
	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCC1500MR007
	CAP CERAMIC HV 15pF/6KV/SL/J	CCK1500TE009
C1166	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1167	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	CAP ELE 10μF/50V/M/85 or	CEF100KSN001
	CAP ELE 10μF/50V/M/85	CEF100TEP001
C1172	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1211	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCA1500MR001
	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCC1500MR007
	CAP CERAMIC HV 15pF/6KV/SL/J	CCK1500TE009
C1212	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1213	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	CAP ELE 10μF/50V/M/85 or	CEF100KSN001
	CAP ELE 10μF/50V/M/85	CEF100TEP001
C1215	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCA1500MR001
	CAP CERAMIC HV 15pF/6.3KV/SL/J or	CCC1500MR007
	CAP CERAMIC HV 15pF/6KV/SL/J	CCK1500TE009
C1216	CAP CERAMIC (AX) 1500pF/50V/B/K	CA1J152TU061
C1217	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	CAP ELE 10μF/50V/M/85 or	CEF100KSN001
	CAP ELE 10μF/50V/M/85	CEF100TEP001
C1222	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1500	CERAMIC CAP. 470pF/2KV or	CA3D471PAN04
	CERAMIC CAP. RB 470pF/2KV or	CA3D471TE006
	CERAMIC CAP. BL 470pF/2KV	CA3D471XF003
C1502	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1550	CERAMIC CAP. 470pF/2KV or	CA3D471PAN04

Ref. No.	Description	Part No.
	CERAMIC CAP. RB 470pF/2KV or	CA3D471TE006
	CERAMIC CAP. BL 470pF/2KV	CA3D471XF003
C1552	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1600	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1800	ELECTROLYTIC CAP. 100μF/25V M or	CE1EMASDL101
	CAP ELE 100μF/25V/M/85 or	CED101KSN001
	CAP ELE 100μF/25V/M/85	CED101TEP001
C1801	ELECTROLYTIC CAP. 22μF/35V M or	CE1GMASDL220
	CAP ELE 22μF/35V/M/85 or	CEE220KSN001
	CAP ELE 22μF/35V/M/85	CEE220TEP001
C1802	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1905△	SAFTY CAP. 2200pF/250V KX or	CA2E222MR101
△	SAFETY CAP. 2200pF/250V M	CCN2HMMOE222
C1910	CAP ELECTROLYTIC 150μF/400V/M/25/30 or	CA2H151DYG18
	CAP ELE 85 150μF/400V M85 22X35 or	CEN151KSN008
	CAP ELE STD-85 150μF 400V M 85C	CA2H151NC205
C1930	CERAMIC CAP. 330pF/2KV or	CA3D331PAN04
	CERAMIC CAP. RB 330pF/2KV or	CA3D331TE006
	CERAMIC CAP. BL 330pF/2KV	CA3D331XF003
C1932	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
C1933	POLYESTER FILM CAP. (PB FREE) 0.056μF/100V J or	CA2A563DT018
	CAP POLYESTER FILM 0.056μF/100V J or	CA2A563SER02
	CAP POLYESTER FILM 0.056μF/100V/J/PCMT or	CTA563PKR003
	POLYESTER FILM CAP. 0.056μF/100V J	CMB563EUR001
C1934	POLYESTER FILM CAP. (PB FREE) 0.0015μF/100V J or	CA2A152DT018
	CAP POLYESTER FILM 0.0015μF/100V J	CA2A152SER02
C1970	POLYESTER FILM CAP. (PB FREE) 0.047μF/100V J or	CA2A473DT018
	CAP POLYESTER FILM 0.047μF/100V J or	CA2A473SER02
	CAP POLYESTER FILM 0.047μF/100V/J/PCMT or	CTA473PKR003
	POLYESTER FILM CAP. 0.047μF/100V J	CMB473EUR001
C1981	CHIP CERAMIC CAP. F Z 0.01μF/50V	CHD1JZ30F103
C1982	ELECTROLYTIC CAP. 0.47μF/50V M or	CE1JMASDLR47
	CAP ELE 0.47μF/50V/M/85 or	CEFR47KSN001
	CAP ELE 0.47μF/50V/M/85	CEFR47TEP001
C1990	CAP CERAMIC HV 820pF/1KV B K or	CA3A821TE006
	CERAMIC CAP. 820pF/2KV or	CA3D821PAN04
	CERAMIC CAP. BL 820pF/2KV	CA3D821XF003
CONNECTORS		
CN1001	FFC CONNECTOR 15P IMSA-9615S-15A-PP-A or	JC96J15ER007
	CONNECTOR FPC 15P 00 6232 015 006 800+ or	JC62G15UG026
	CONNECTOR PRINT MES 15 S 1.0-11-15P	JC1115JSH001
CN1003	FFC CONNECTOR IMSA-9615S-11A-PP-A or	JC96J11ER007
	CONNECTOR PRINT MES 00 6232 011 006 800+ or	JC62G11UG026
	CONNECTOR PRINT MES 11 S 1.0-11-11P	JC1111JSH001
CN1050△	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1100△	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1150△	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1200△	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1900△	CONNECTOR B2P3-VH(LF)(SN) or	J3VH020JG001
△	CONNECTOR PRINT OSU 02/S/JS-1120-03N02	J3JT02CHY004
DIODES		
D1000	DIODE ZENER 15BSB-T26 or	NDTB015BST26
	DIODE ZENER HZS15NB2TE-EQ	QDTBHZS15NB2
D1001	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
D1005	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001

Ref. No.	Description	Part No.
D1006	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1040	DIODE ZENER 36BSB-T26 or	NDTB036BST26
	DIODE ZENER HZS36NB2TE-EQ	QDTBHZS36NB2
D1050	DIODE FR104-B or	NDLZ000FR104
	DIODE FR104BB	NDL1000FR104
D1051	DIODE FR104-B or	NDLZ000FR104
	DIODE FR104BB	NDL1000FR104
D1060	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1061	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1062	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1064	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1065	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1066	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1067	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1068	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1070	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1071	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1072	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1110	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1111	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1112	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1114	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1115	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1116	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1117	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1118	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1120	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133

Ref. No.	Description	Part No.
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1121	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1122	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1160	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1161	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1162	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1164	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1165	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1166	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1167	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1168	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1170	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1171	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1172	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1210	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1211	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1212	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1214	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1215	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1216	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1217	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1218	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1220	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148

Ref. No.	Description	Part No.
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1221	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1222	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1500	DIODE ZENER 20BSB-T26 or	NDTB020BST26
	DIODE ZENER HZS20NB2TE-EQ	QDTBHZS20NB2
D1550	DIODE ZENER 20BSB-T26 or	NDTB020BST26
	DIODE ZENER HZS20NB2TE-EQ	QDTBHZS20NB2
D1630	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1801	DIODE ZENER 10BSB-T26 or	NDTB010BST26
	DIODE ZENER HZS10NB2TE-EQ	QDTBHZS10NB2
D1802	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
D1930 	DIODE ZENER 27BSB-T26 or	NDTB027BST26
	DIODE ZENER HZS27NB2TE-EQ	QDTBHZS27NB2
D1931	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0H-ZS5R6N
D1932	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1933	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1934 	DIODE ZENER 1ZB36BB or	NDWZ0001ZB36
	DIODE ZENER IN4753A B0 36V	NDLZ01N4753A
D1936	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1960	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
D1970	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0H-ZS5R6N
D1971	DIODE ZENER 33BSB-T26 or	NDTB033BST26
	DIODE ZENER HZS33NB2TE-EQ	QDTBHZS33NB2
D1973	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1990	DIODE FAST RECOVERY 31DF4-FC	QDWZ031DF4FC
D1994	DIODE ZENER 1ZB100BB or	NDWZ001ZB100
	DIODE ZENER IN4764A B0 100V	NDLZ01N4764A
ICS		
IC1000	IC PULSE-WIDTH-MODULATION CONT TL494CDR	NSCA0T0TY006
IC1930 	PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV
IC1931 	PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV
TRANSISTORS		
Q1003	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-Y(Te2 F T) or	QQSY2SC1815F
	TRANSISTOR 2SC1815-GR(Te2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1004	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-Y(Te2 F T) or	QQSY2SA1015F
	TRANSISTOR 2SA1015-GR(Te2 F T) or	QQS12SA1015F
	PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M

Ref. No.	Description	Part No.
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-Y(T _{E2} F T) or	QQS2SC1815F
	TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1815	TRANSISTOR 2SA950-O (TE ₂ F T) or	QQS002SA950F
	TRANSISTOR 2SA950-Y(T _{E2} F T) or	QQS02SA950F
	TRANSISTOR (PB FREE) KTA1271-Y-AT/P or	NQSYKTA1271P
	TRANSISTOR (PB FREE) KTA1271-O-AT/P or	NQS0KTA1271P
	PNP TRANSISTOR 2SA1981 or	NQS002SA1981
	PNP TRANSISTOR 2SA1981Y-AT	NQSY02SA1981
Q1930	FET MOS 2SK3562/100UA	QFQZ2SK3562Q
Q1931	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
△	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
△	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
△	TRANSISTOR 2SC1815-Y(T _{E2} F T) or	QQS2SC1815F
△	TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QQS12SC1815F
△	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
△	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
△	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
△	NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1932	TRANSISTOR 2SC2120-Y(T _{E2} F T) or	QQS2SC2120F
△	TRANSISTOR 2SC2120-O(T _{E2} F T) or	QQS02SC2120F
△	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
△	TRANSISTOR KTC3203-O-AT/P or	NQS0KTC3203P
△	NPN TRANSISTOR 2SC5344 Y or	NQSY02SC5344
△	NPN TRANSISTOR 2SC5344O-AT	NQS002SC5344
Q1970	NPN TRANSISTOR KTC3200-GR-AT/P	NQSGKTC3200P
Q1971	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-Y(T _{E2} F T) or	QQS2SC1815F
	TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1972	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-Y(T _{E2} F T) or	QQS2SC1815F
	TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
RESISTORS		
R1001	CHIP RES. 1/10W F 22k Ω or	RRXAFR5H2202
	CHIP RES.(1608) 1/10W F 22k Ω or	RRXAFR5Z2202
	RES CHIP 1608 1/10W F 22.0k Ω	RTW2202YF002
R1002	CHIP RES. 1/10W F 1.0k Ω or	RRXAFR5H1001
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z1001
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R1003	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1004	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1005	RES CARBON FILM 1/4W J 220k Ω or	RCX4224FS002
	RES CARBON FILM T 1/4W J 220k Ω or	RCX4224T1001
	RES CARBON FILM 1/4W J 220k Ω	RCJ224PAK001
R1006	RES CARBON FILM 1/4W J 56k Ω or	RCX4563FS002
	RES CARBON FILM T 1/4W J 56k Ω or	RCX4563T1001
	RES CARBON FILM 1/4W J 56k Ω	RCJ563PAK001
R1007	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002

Ref. No.	Description	Part No.
R1008	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R1009	CHIP RES. 1/10W J 82k Ω or	RRXAJR5Z0823
	RES CHIP 1608 1/10W J 82k Ω	RRXA823YF002
R1010	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1011	CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R1012	CHIP RES. 1/10W F 24k Ω or	RRXAFR5H2402
	CHIP RES.(1608) 1/10W F 24k Ω or	RRXAFR5Z2402
	RES CHIP 1608 1/10W F 24.0k Ω	RTW2402YF002
R1013	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1014	CHIP RES. 1/10W F 4.7k Ω or	RRXAFR5H4701
	CHIP RES.(1608) 1/10W F 4.7k Ω or	RRXAFR5Z4701
	RES CHIP 1608 1/10W F 4.70k Ω	RTW4701YF002
R1015	CHIP RES. 1/10W F 7.5k Ω or	RRXAFR5H7501
	CHIP RES. 1/10W F 7.5k Ω or	RRXAFR5Z7501
	RES CHIP 1608 1/10W F 7.50k Ω	RTW7501YF002
R1016	CHIP RES. 1/10W J 120k Ω or	RRXAJR5Z0124
	RES CHIP 1608 1/10W J 120k Ω	RRXA124YF002
R1017	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1018	RES CARBON FILM 1/4W J 1.2k Ω or	RCX4122FS002
	RES CARBON FILM T 1/4W J 1.2k Ω or	RCX4122T1001
	RES CARBON FILM 1/4W J 1.2k Ω	RCJ122PAK001
R1019	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
R1022	CHIP RES. 1/10W F 2.2k Ω or	RRXAFR5H2201
	CHIP RES.(1608) 1/10W F 2.2k Ω or	RRXAFR5Z2201
	RES CHIP 1608 1/10W F 2.20k Ω	RTW2201YF002
R1023	CHIP RES. 1/10W F 3.3k Ω or	RRXAFR5H3301
	CHIP RES.(1608) 1/10W F 3.3k Ω or	RRXAFR5Z3301
	RES CHIP 1608 1/10W F 3.30k Ω	RTW3301YF002
R1024	CHIP RES. 1/10W F 100k Ω or	RRXAFR5H1003
	CHIP RES. 1/10W F 100k Ω or	RRXAFR5Z1003
	RES CHIP 1608 1/10W F 100k Ω	RTW1003YF002
R1026	CHIP RES. 1/10W F 220 Ω or	RRXAFR5H2200
	CHIP RES.(1608) 1/10W F 220 Ω or	RRXAFR5Z2200
	RES CHIP 1608 1/10W F 220 Ω	RTW2200YF002
R1028	CHIP RES. 1/10W F 36k Ω or	RRXAFR5H3602
	CHIP RES. 1/10W F 36k Ω or	RRXAFR5Z0363
	RES CHIP 1608 1/10W F 36.0k Ω	RTW3602YF002
R1030	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R1031	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R1033	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1034	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1035	RES CARBON FILM 1/4W J 3.3k Ω or	RCX4332FS002
	RES CARBON FILM T 1/4W J 3.3k Ω or	RCX4332T1001
	RES CARBON FILM 1/4W J 3.3k Ω	RCJ332PAK001
R1036	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1041	RES CARBON FILM 1/4W J 33k Ω or	RCX4333FS002
	RES CARBON FILM T 1/4W J 33k Ω or	RCX4333T1001
	RES CARBON FILM 1/4W J 33k Ω	RCJ333PAK001
R1043	RES CARBON FILM 1/4W J 12k Ω or	RCX4123FS002
	RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
	RES CARBON FILM 1/4W J 12k Ω	RCJ123PAK001
R1044	METAL OXIDE FILM RES. 2W J 0.39 Ω or	RN02R39ZU001
	METALOXIDE RES 2W J 0.39 Ω	RNJR39PAK002
R1045	METAL OXIDE FILM RES. 2W J 0.39 Ω or	RN02R39ZU001
	METALOXIDE RES 2W J 0.39 Ω	RNJR39PAK002

Ref. No.	Description	Part No.
R1812	RES CARBON FILM 1/4W J 12k Ω or	RCX4123FS002
	RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
	RES CARBON FILM 1/4W J 12k Ω	RCJ123PAK001
R1930	RES CARBON FILM 1/4W J 47 Ω or	RCX4470FS002
	RES CARBON FILM T 1/4W J 47 Ω or	RCX4470T1001
	RES CARBON FILM 1/4W J 47 Ω	RCJ470PAK001
R1931	RES CARBON FILM 1/4W J 47k Ω or	RCX4473FS002
	RES CARBON FILM T 1/4W J 47k Ω or	RCX4473T1001
	RES CARBON FILM 1/4W J 47k Ω	RCJ473PAK001
R1932	RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
	RES CARBON FILM T 1/4W J 470 Ω or	RCX4471T1001
	RES CARBON FILM 1/4W J 470 Ω	RCJ471PAK001
R1933	RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
	RES CARBON FILM T 1/4W J 470 Ω or	RCX4471T1001
	RES CARBON FILM 1/4W J 470 Ω	RCJ471PAK001
R1934	POLYESTER FILM CAP. (PB FREE) 0.01 μ F/ 100V J or	CA2A103DT018
	CAP POLYESTER FILM 0.01 μ F/100V J or	CA2A103SER02
	CAP POLYESTER FILM 0.01 μ F/100V/J/PCMT or	CTA103PKR003
	POLYESTER FILM CAP. 0.01 μ F/100V J	CMB103EUR001
R1935	RES CARBON FILM 1/4W J 1.5k Ω or	RCX4152FS002
	RES CARBON FILM T 1/4W J 1.5k Ω or	RCX4152T1001
	RES CARBON FILM 1/4W J 1.5k Ω	RCJ152PAK001
R1936	RES CARBON FILM 1/4W J 180 Ω or	RCX4181FS002
	RES CARBON FILM T 1/4W J 180 Ω or	RCX4181T1001
	RES CARBON FILM 1/4W J 180 Ω	RCJ181PAK001
R1937 	METAL OXIDE FILM RES. 2W J 0.47 Ω or	RN02R47ZU001
	METALOXIDE RES 2W J 0.47 Ω	RNJR47PAK002
R1938	RES CARBON FILM 1/4W J 220 Ω or	RCX4221FS002
	RES CARBON FILM T 1/4W J 220 Ω or	RCX4221T1001
	RES CARBON FILM 1/4W J 220 Ω	RCJ221PAK001
R1939	RES CARBON FILM 1/4W J 2.2k Ω or	RCX4222FS002
	RES CARBON FILM T 1/4W J 2.2k Ω or	RCX4222T1001
	RES CARBON FILM 1/4W J 2.2k Ω	RCJ222PAK001
R1940	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	CHIP RES. 1/4W J 1M Ω or	RRX4JR7Z0105
	RES CHIP 3216 1/4W J 1.0M Ω	RRX4105YF004
R1941	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	CHIP RES. 1/4W J 1M Ω or	RRX4JR7Z0105
	RES CHIP 3216 1/4W J 1.0M Ω	RRX4105YF004
R1942	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	CHIP RES. 1/4W J 1M Ω or	RRX4JR7Z0105
	RES CHIP 3216 1/4W J 1.0M Ω	RRX4105YF004
R1943	RES CHIP 3216 1/4W J 680k Ω or	RRX4684HH034
	CHIP RES. 1/4W J 680k Ω or	RRX4JR7Z0684
	RES CHIP 3216 1/4W J 680k Ω	RRX4684YF004
R1950	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	CHIP RES. 1/4W J 1M Ω or	RRX4JR7Z0105
	RES CHIP 3216 1/4W J 1.0M Ω	RRX4105YF004
R1951	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	CHIP RES. 1/4W J 1M Ω or	RRX4JR7Z0105
	RES CHIP 3216 1/4W J 1.0M Ω	RRX4105YF004
R1952	RES CHIP 3216 1/4W J 1.0M Ω or	RRX4105HH034
	CHIP RES. 1/4W J 1M Ω or	RRX4JR7Z0105
	RES CHIP 3216 1/4W J 1.0M Ω	RRX4105YF004
R1953	RES CHIP 3216 1/4W J 680k Ω or	RRX4684HH034
	CHIP RES. 1/4W J 680k Ω or	RRX4JR7Z0684
	RES CHIP 3216 1/4W J 680k Ω	RRX4684YF004
R1967	RES CARBON FILM 1/4W J 5.6k Ω or	RCX4562FS002
	RES CARBON FILM T 1/4W J 5.6k Ω or	RCX4562T1001
	RES CARBON FILM 1/4W J 5.6k Ω	RCJ562PAK001
R1968	RES CARBON FILM 1/4W J 5.6k Ω or	RCX4562FS002
	RES CARBON FILM T 1/4W J 5.6k Ω or	RCX4562T1001
	RES CARBON FILM 1/4W J 5.6k Ω	RCJ562PAK001
R1969	RES CARBON FILM 1/4W J 5.6k Ω or	RCX4562FS002
	RES CARBON FILM T 1/4W J 5.6k Ω or	RCX4562T1001
	RES CARBON FILM 1/4W J 5.6k Ω	RCJ562PAK001

Ref. No.	Description	Part No.
R1970	RES CARBON FILM 1/4W J 1.5k Ω or	RCX4152FS002
	RES CARBON FILM T 1/4W J 1.5k Ω or	RCX4152T1001
	RES CARBON FILM 1/4W J 1.5k Ω	RCJ152PAK001
R1971	RES CARBON FILM 1/4W J 5.6k Ω or	RCX4562FS002
	RES CARBON FILM T 1/4W J 5.6k Ω or	RCX4562T1001
	RES CARBON FILM 1/4W J 5.6k Ω	RCJ562PAK001
R1972	CHIP RES. 1/10W J 68k Ω or	RRXAJR5Z0683
	RES CHIP 1608 1/10W J 68k Ω	RRXA683YF002
R1973	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R1974	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1975	CHIP RES. 1/10W F 30k Ω or	RRXAFR5H3002
	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFR5Z3002
	RES CHIP 1608 1/10W F 30.0k Ω	RTW3002YF002
R1976	CHIP RES. 1/10W F 30k Ω or	RRXAFR5H3002
	CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFR5Z3002
	RES CHIP 1608 1/10W F 30.0k Ω	RTW3002YF002
R1977	CHIP RES. 1/10W F 27k Ω or	RRXAFR5H2702
	CHIP RES.(1608) 1/10W F 27k Ω or	RRXAFR5Z2702
	RES CHIP 1608 1/10W F 27.0k Ω	RTW2702YF002
R1979	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1980	CHIP RES. 1/10W F 360 Ω or	RRXAFR5H3600
	CHIP RES. 1/10W F 360 Ω or	RRXAFR5Z3600
	RES CHIP 1608 1/10W F 360 Ω	RTW3600YF002
R1981	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1982	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R1983	RES CARBON FILM 1/4W J 75k Ω or	RCX4753FS002
	RES CARBON FILM T 1/4W J 75k Ω or	RCX4753T1001
	RES CARBON FILM 1/4W J 75k Ω	RCJ753PAK001
R1984	RES CARBON FILM 1/4W J 39k Ω or	RCX4393FS002
	RES CARBON FILM T 1/4W J 39k Ω or	RCX4393T1001
	RES CARBON FILM 1/4W J 39k Ω	RCJ393PAK001
R1986	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1987	RES CARBON FILM 1/4W J 10k Ω or	RCX4103FS002
	RES CARBON FILM T 1/4W J 10k Ω or	RCX4103T1001
	RES CARBON FILM 1/4W J 10k Ω	RCJ103PAK001
R1988	RES CARBON FILM 1/4W J 1k Ω or	RCX4102FS002
	RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
	RES CARBON FILM 1/4W J 1.0k Ω	RCJ102PAK001
MISCELLANEOUS		
B11	HEAT SINK PNA A94F0UH	1EM428121
B12	HEAT SINK PNB ASSEMBLY A94F0UH	1EM428123
BC1301	WIRE COPPER 6111-06003-0120 or	XZ40C0SHG002
	WIRE COPPER JP0.6MM	XZ40C0AKM001
BC1500	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
BC1501	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
BC1550	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
BC1551	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
BC1930	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
BC1931	BEADS INDUCTOR FBR07HA121SB-00 or	LLBF00STU030
	BEAD INDUCTOR B29 RID 2.3X7.5X7.5T	LLEF0S0XM002
L3	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
T1950 	TRANS POWER BCK-35-0655 or	LTT3PEOXB051
	TRANS POWER BCK-35AU	LTT3PEMEK010
When you replace one of the below Trans Inverters on this CBA, please replace with the one that has same parts number. Do not mix different parts number's Trans Inverter.		

Ref. No.	Description	Part No.
T1050 [△]	TRANS INV ETJV23ZF2WAC	LTZ3PZ0MS005
T1100 [△]	TRANS INV ETJV23ZF2WAC	LTZ3PZ0MS005
T1150 [△]	TRANS INV ETJV23ZF2WAC	LTZ3PZ0MS005
T1200 [△]	TRANS INV ETJV23ZF2WAC	LTZ3PZ0MS005
	or	
T1050 [△]	TRANS INVERTER HVT-153	LTZ3PZ0XB009
T1100 [△]	TRANS INVERTER HVT-153	LTZ3PZ0XB009
T1150 [△]	TRANS INVERTER HVT-153	LTZ3PZ0XB009
T1200 [△]	TRANS INVERTER HVT-153	LTZ3PZ0XB009
	or	
T1050 [△]	TRANS INVERTER TK.7609A.101	LTZ3PZDAR007
T1100 [△]	TRANS INVERTER TK.7609A.101	LTZ3PZDAR007
T1150 [△]	TRANS INVERTER TK.7609A.101	LTZ3PZDAR007
T1200 [△]	TRANS INVERTER TK.7609A.101	LTZ3PZDAR007

FUNCTION CBA

Ref. No.	Description	Part No.
	FUNCTION CBA Consists of the following:	-----
RESISTORS		
R108	RES CARBON FILM 1/4W J 220 Ω or	RCX4221FS002
	RES CARBON FILM T 1/4W J 220 Ω or	RCX4221T1001
	RES CARBON FILM 1/4W J 220 Ω	RCJ221PAK001
R109	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R110	CHIP RES. 1/10W J 330 Ω or	RRXAJR5Z0331
	RES CHIP 1608 1/10W J 330 Ω	RRXA331YF002
R111	CHIP RES. 1/10W J 1.1k Ω or	RRXAJR5Z0112
	RES CHIP 1608 1/10W J 1.1k Ω	RRXA112YF002
R112	CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
	RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R113	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R114	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R115	CHIP RES. 1/10W J 8.2k Ω or	RRXAJR5Z0822
	RES CHIP 1608 1/10W J 8.2k Ω	RRXA822YF002
SWITCHES		
SW101A	TACT SWITCH SKHHLMA010 or	SST0101AL049
	TACT SWITCH KSMC632A	SST0101HH025
SW103A	TACT SWITCH SKHHLMA010 or	SST0101AL049
	TACT SWITCH KSMC632A	SST0101HH025
SW104A	TACT SWITCH SKHHLMA010 or	SST0101AL049
	TACT SWITCH KSMC632A	SST0101HH025
SW105A	TACT SWITCH SKHHLMA010 or	SST0101AL049
	TACT SWITCH KSMC632A	SST0101HH025
SW106A	TACT SWITCH SKHHLMA010 or	SST0101AL049
	TACT SWITCH KSMC632A	SST0101HH025
SW107A	TACT SWITCH SKHHLMA010 or	SST0101AL049
	TACT SWITCH KSMC632A	SST0101HH025

IR SENSOR CBA

Ref. No.	Description	Part No.
	IR SENSOR CBA Consists of the following:	-----
CAPACITORS		
C113	ELECTROLYTIC CAP. 47μF/16V M H7 or	CE1CMAVSL470
	CAP ELE 47μF/16V/M/85 H7	CEC470KSN003
C115	CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
DIODES		
D104	LED GREEN 333GT/E(FNA) or	NPWZ33GTEFNA
	LED(GREEN) LTL-4234	NPWZ0LTL4234
D105	LED L-53HT or	NP4Z000L53HT
	LED 333HT/E-L or	NPHL00333HTE
	LED 333HT/E-K	NPHK00333HTE

Ref. No.	Description	Part No.
RESISTORS		
R123	RES CARBON FILM 1/4W J 270 Ω or	RCX4271FS002
	RES CARBON FILM T 1/4W J 270 Ω or	RCX4271T1001
	RES CARBON FILM 1/4W J 270 Ω	RCJ271PAK001
R124	RES CARBON FILM 1/4W J 470 Ω or	RCX4471FS002
	RES CARBON FILM T 1/4W J 470 Ω or	RCX4471T1001
	RES CARBON FILM 1/4W J 470 Ω	RCJ471PAK001
R126	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R127	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R128	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
MISCELLANEOUS		
CL102B	WIRE ASSEMBLY 6PIN 6PIN/215MM/AWG26/ GRA	WX1A0CF2-001
CL103A	WIRE ASSEMBLY 3PIN 3PIN/250MM/AWG26/ GRA	WX1A93F0-003
RS102	SENSOR REMOTE RECEIVER KSM-712TH2E or	USESJR5SKK044
	SENSOR REMOTE RECEIVER KSM-712TH5B-FU or	USEJR50KK006
	SENSOR REMOTE RECEIVER KSM-712TH2M	USEJR50KK001

POWER SW CBA

Ref. No.	Description	Part No.
	POWER SW CBA Consists of the following:	-----
CONNECTORS		
CN701	VH CONNECTOR PRINT OSU B2P3S-VH(LF)(SN) or	J3VH030JG002
	CONNECTOR PRINT OSU 02/R/C15203P1HP2-LF or	J3C502CVL001
	CONNECTOR PRINT OSU 02/R/JS-1120R-03NO2	J3JR02CHY001
SWITCH		
SW701	SWITCH POWER AJ7222BF	SPEVBA0MS001
MISCELLANEOUS		
A6	AC CORD HOLDER A94F0UH	1EM325557
AC701 [△]	AC CORD PE8B2CG980A-057	WAE0172LW006
B8	AC SWITCH HOLDER A0CF0EP	1EM327537
L2	SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
TM701	EYELET TYPE D-1	0VM406868
TM702	EYELET TYPE D-1	0VM406868

Ref. No.	Description	Part No.
TU1	TUNER UNIT DTOS40AML201A	UTNPSG0SM002

