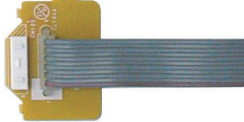



FUNAI SERVICE MANUAL

Depending on the production period, there are two types of product for these models.

TYPE A (JUNCTION CBA is used.)	TYPE B (JUNCTION CBA is not used.)
	

This Service Manual is for the
LT850-M19 (A0CN0EP) / LT851-M19 (A0CN1EP) model.

For the LT850-M19 (A0CN0EP) / LT851-M19 (A0CN1EP) model, the letter (A0CN0EP) / (A0CN1EP) is printed on the Serial Number Label on the back of the unit. Refer to the Serial Number Label below.

Serial No. Label



"A0CN0EP"

Serial No. Label



"A0CN1EP"

19" COLOR LCD TELEVISION LT850-M19



LT851-M19



19" COLOR LCD TELEVISION

LT850-M19 / LT851-M19

TABLE OF CONTENTS

Specifications	1-1
Important Safety Precautions	2-1
Standard Notes for Servicing	3-1
Cabinet Disassembly Instructions	4-1
Electrical Adjustment Instructions	5-1
How to Initialize the LCD Television	6-1
Firmware Renewal Mode	7-1
Troubleshooting	8-1
Block Diagrams	9-1
Schematic Diagrams / CBA and Test Points	10-1
Waveforms	11-1
Wiring Diagram	12-1
Exploded View	13-1
Mechanical Parts List	14-1
Electrical Parts List	15-1

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	pixels	1366	---
	Vertical	pixels	768	---
2. Viewing Angle	Horizontal	°	---	-85 to 85
	Vertical	°	---	-80 to 80

<DVB-T>

Description	Condition	Unit	Nominal	Limit
1. RECEIVED FREQ.RANGE (-60dBm, 45ch.) *1, *2	+	kHz	1000	500
	-	kHz	900	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	dB	18.7	23
	②:*4	dB	14.0	20
b. Performance with long delay echoes	①:*3	dB	19.1	23
	②:*4	dB	13.0	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	%	5	---
	Vertical	%	5	---
2. Color Temperature	AT 70% WHITE FIELD	°K	9200	---
	x		0.286	±0.008
	y		0.295	±0.008
3. Resolution	Horizontal	line	400	---
	Vertical	line	350	---
4. Brightness	AT 100% WHITE FIELD			
	Retail Store Mode	cd/m ²	155	---
	Home Mode	cd/m ²	100	---

< 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	3.0/3.0	2.0/2.0
2. Audio Distortion	500mW: Lch/Rch	%	1.5/1.5	3.0/3.0
3. Audio Freq. Response	−6dB: Lch	Hz	70 to 8 k	---
	−6dB: Rch	Hz	70 to 8 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.

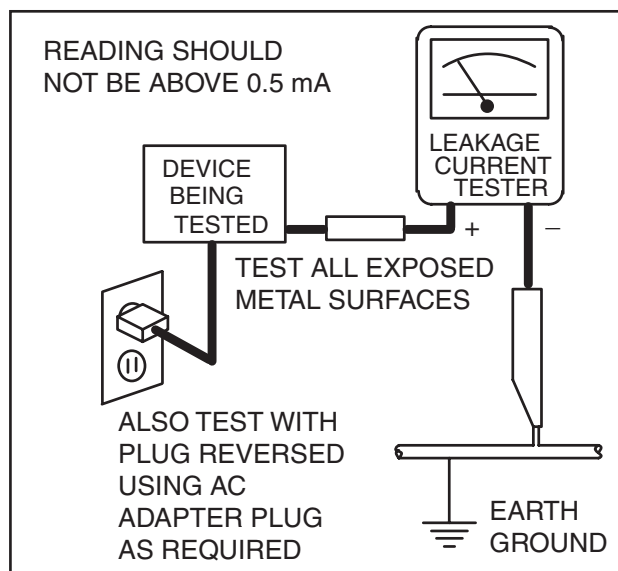
IMPORTANT SAFETY PRECAUTIONS

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.

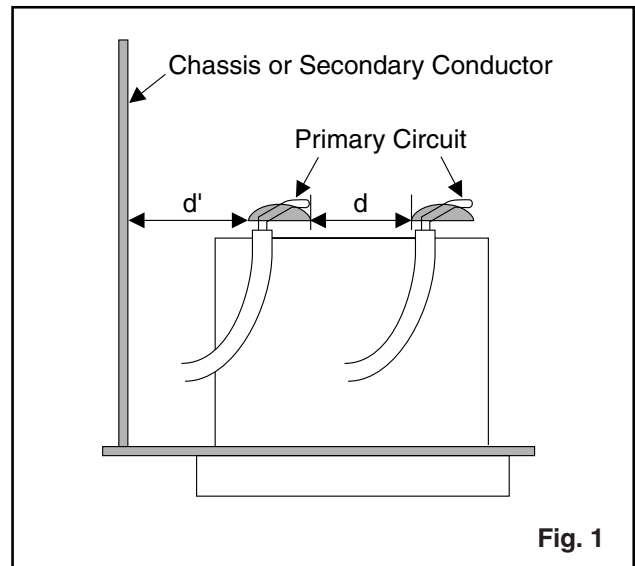


Fig. 1

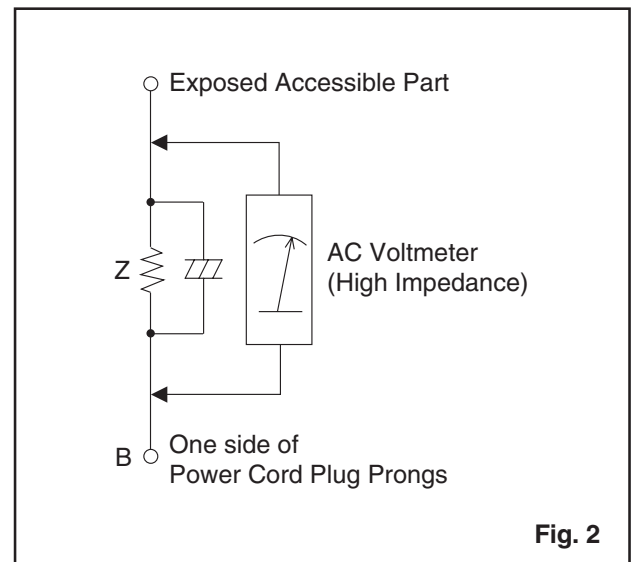


Fig. 2

Table 2: Leakage current ratings for selected areas

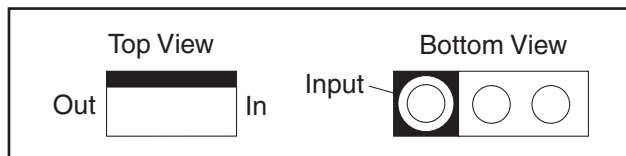
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2k Ω RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	RF or Antenna terminals
	50k Ω RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	A/V Input,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

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

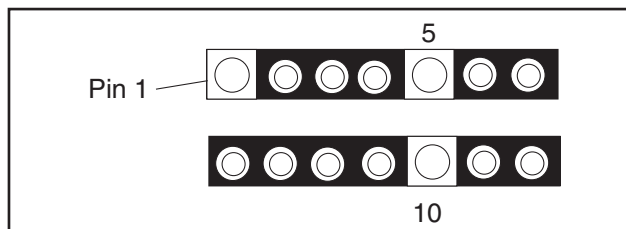
STANDARD NOTES FOR SERVICING

Circuit Board Indications

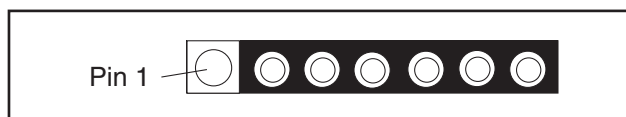
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



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

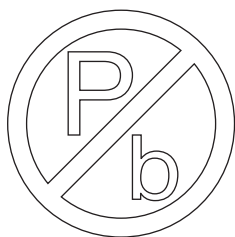


3. The 1st pin of every male connector is indicated as shown.



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)

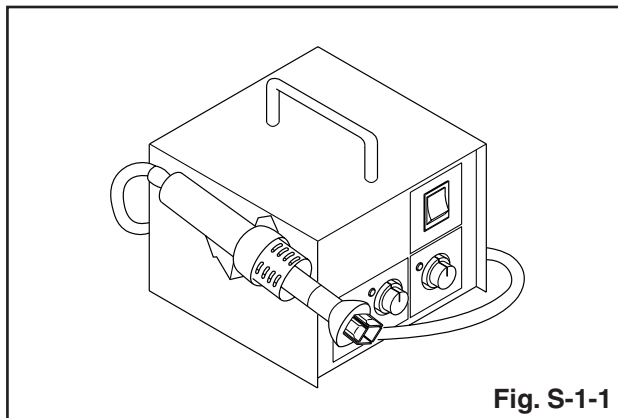


Fig. S-1-1

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.

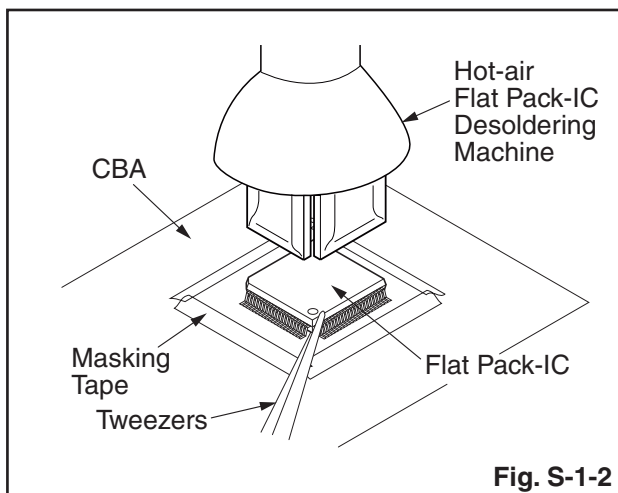
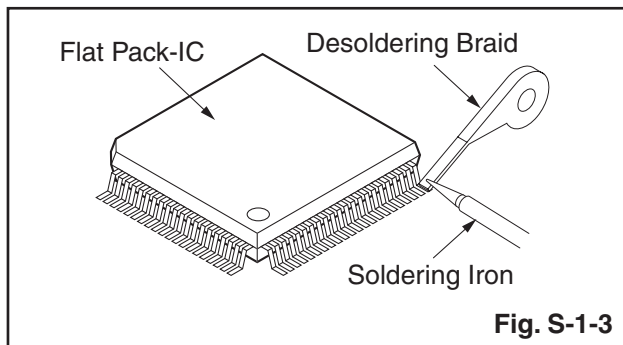


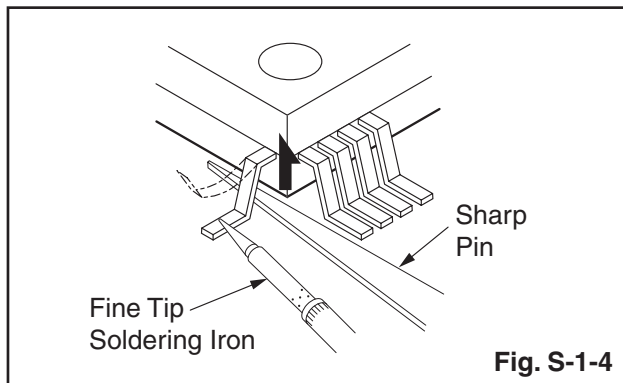
Fig. S-1-2

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)

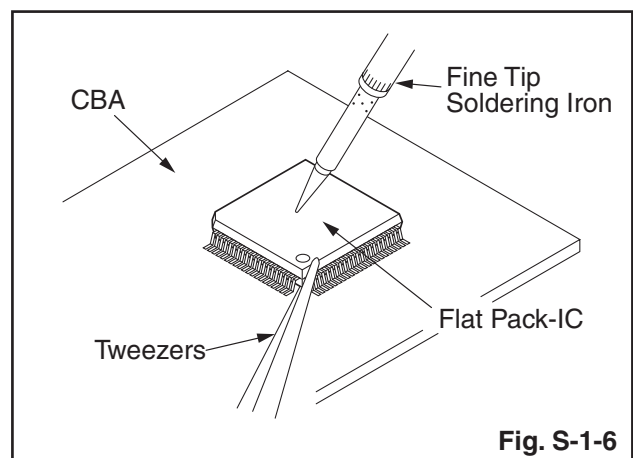
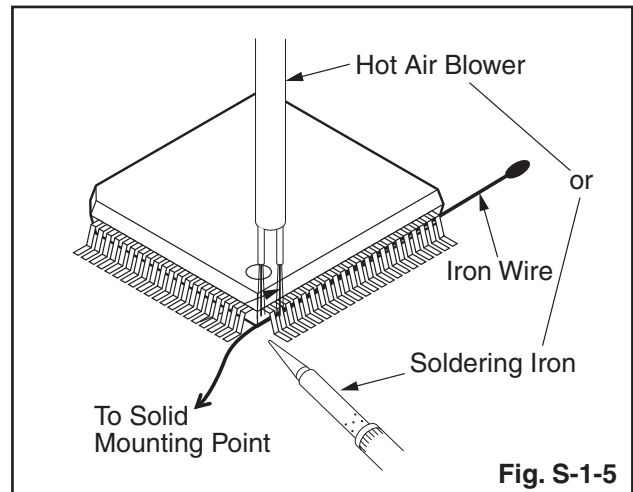


3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

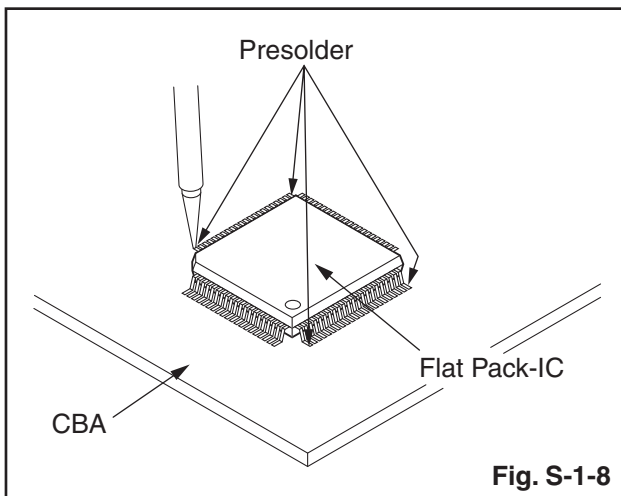
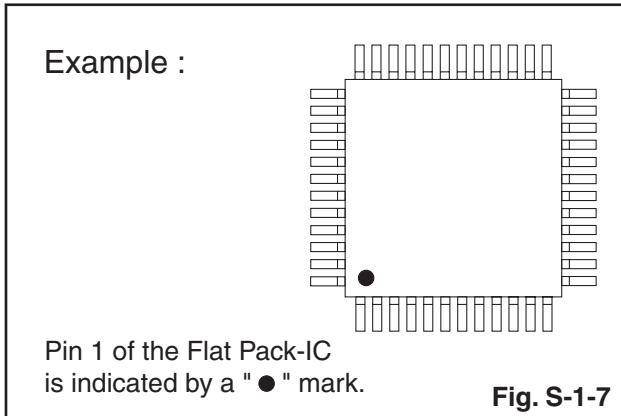
1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins 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

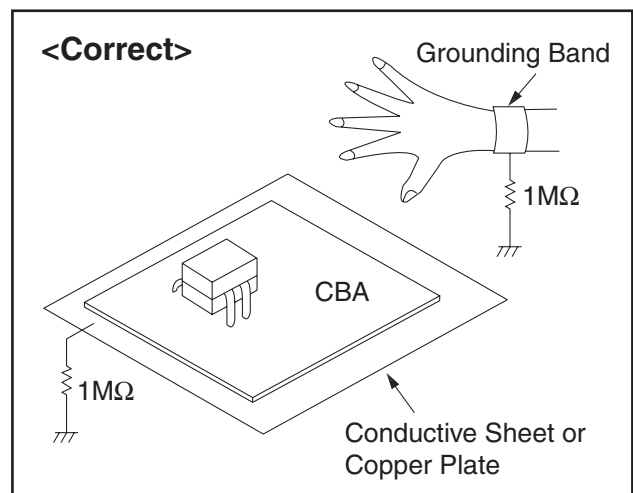
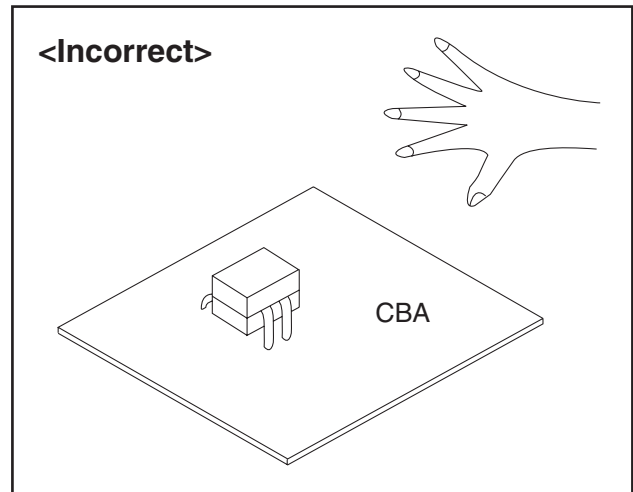
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

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

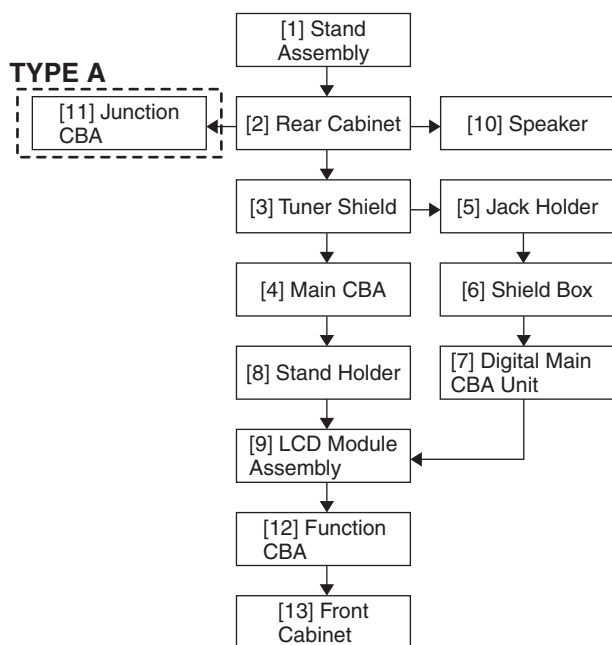
Be sure to place a conductive sheet or copper plate with proper grounding (1 M Ω) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors 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 items 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	Fig. No.	Removal	Note
[1]	Stand Assembly	D1	3(S-1)	---
[2]	Rear Cabinet	D1	12(S-2), 2(S-3), 3(S-4)	---
[3]	Tuner Shield	D2	(S-5)	---
[4]	Main CBA	D2 D3	9(S-6), CN152, CN301, CN302, CN303, CN401, CN404, CN801, CN802, CN1001, CN1002	---
[5]	Jack Holder	D2	2(S-7)	---
[6]	Shield Box	D2 D3	4(S-8), (S-9), 5(S-10), 2(H-1), CN3901	---
[7]	Digital Main CBA Unit	D2 D3	-----	---
[8]	Stand Holder	D2	2(S-11), (S-12)	---
[9]	LCD Module Assembly	D2	Separation Sheet	---
[10]	Speaker	D2	4(S-13), Speaker Holder	---

Step/ Loc. No.	Part	Fig. No.	Removal	Note
[11]	TYPE A			
	Junction CBA	D2 D3	Desolder	---
TYPE B Junction CBA is not used.				
[12]	Function CBA	D2 D3	2(S-14)	---
[13]	Front Cabinet	D2	-----	---

↓ ↓ ↓ ↓ ↓
 (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
e.g. 2(S-2) = two Screws of (S-2),
2(L-2) = two Locking Tabs of (L-2)
- (5) Refer to the following "Reference Notes in the Table."

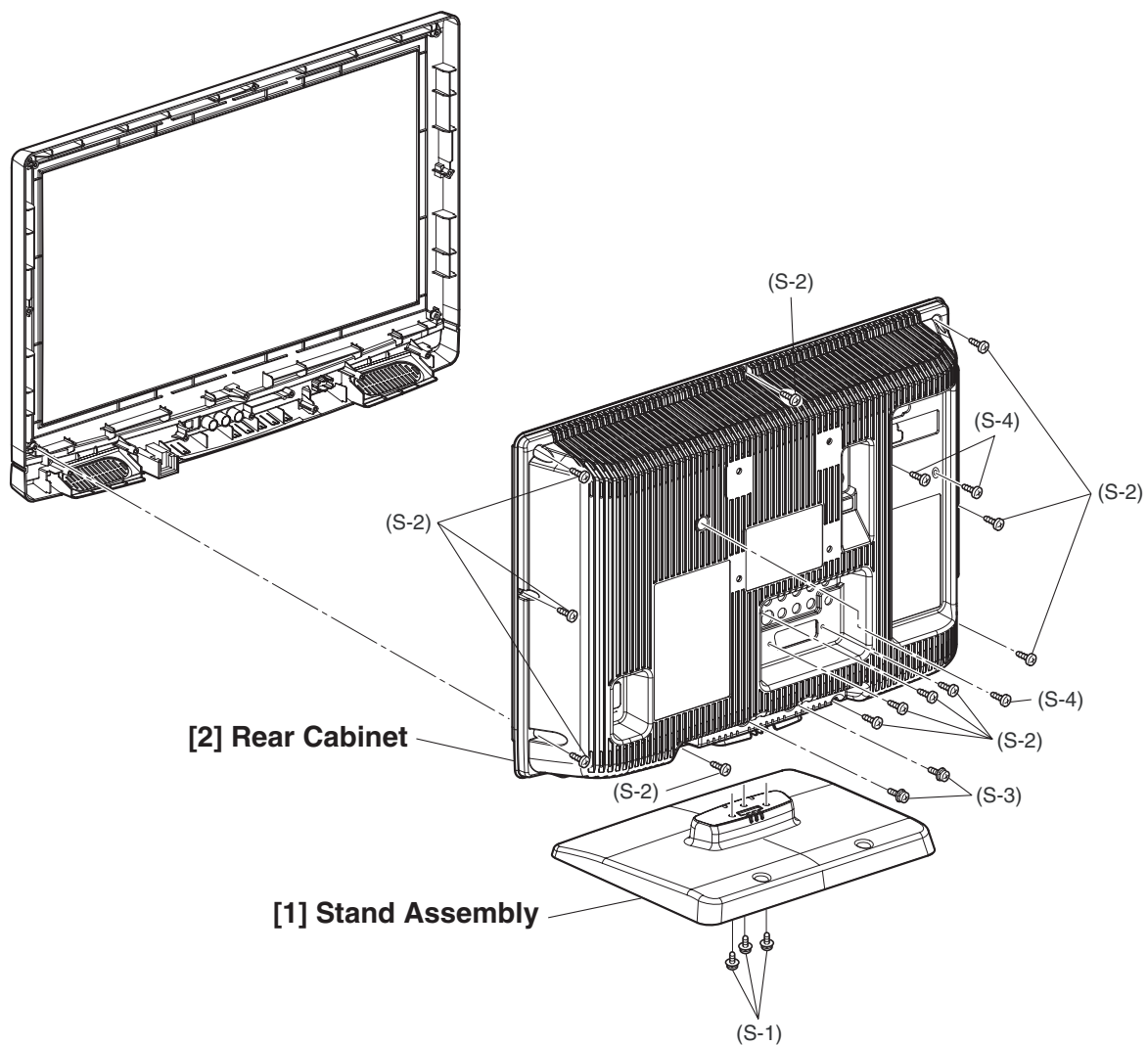


Fig. D1

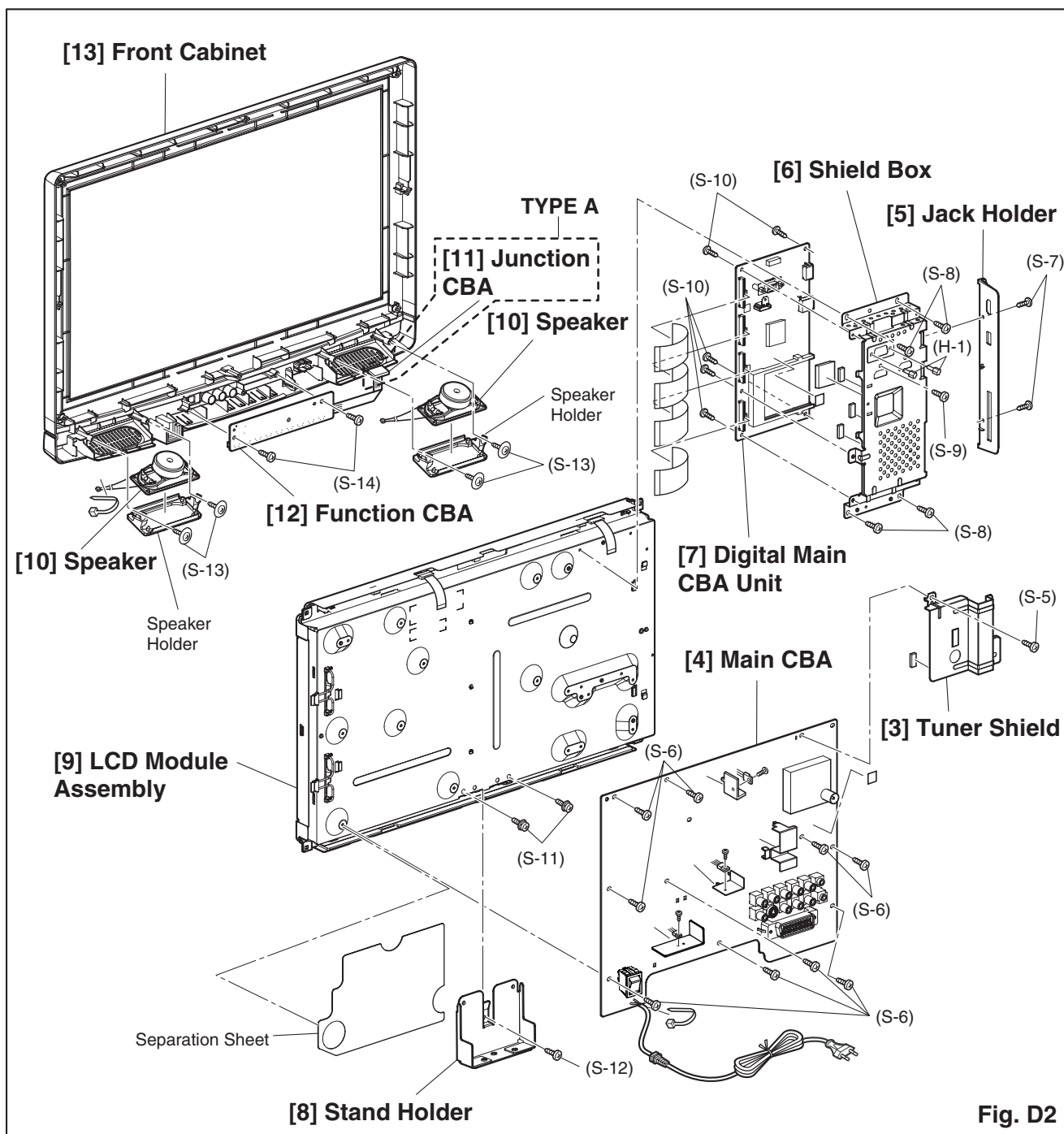


Fig. D2

TV Cable Wiring Diagram

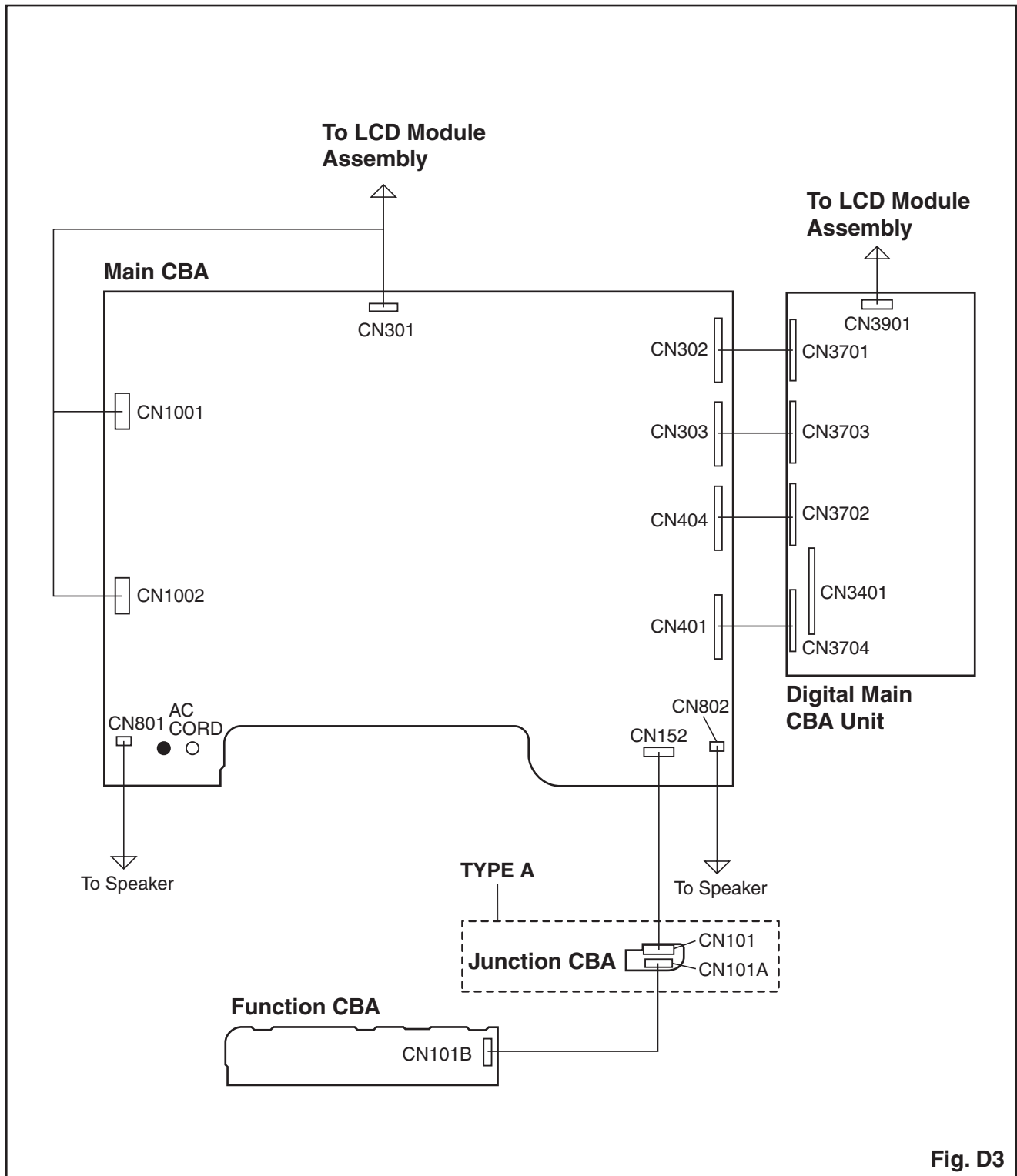


Fig. D3

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.

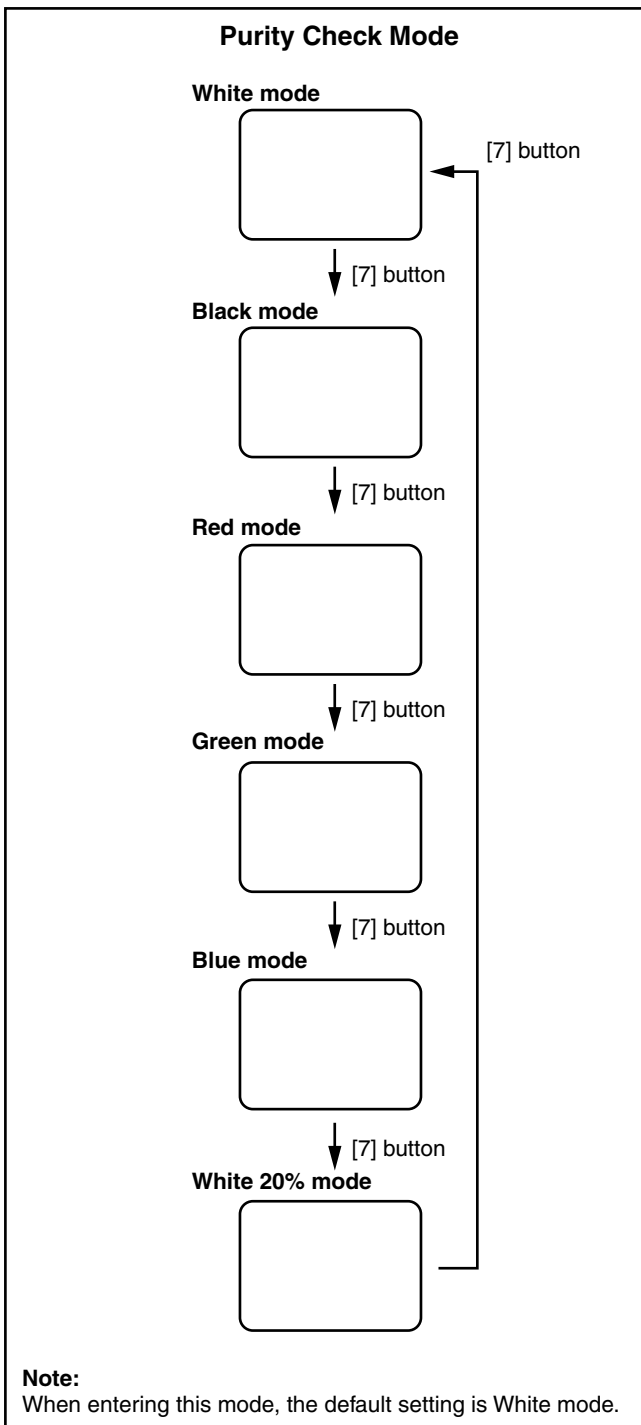
```
Code : *****_**_*
Pic code : ** ***** ** *
Inch : *** ***** - - -
MIPS : ****
```

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 the [7] button on the remote control unit is pressed, the display changes as follows.

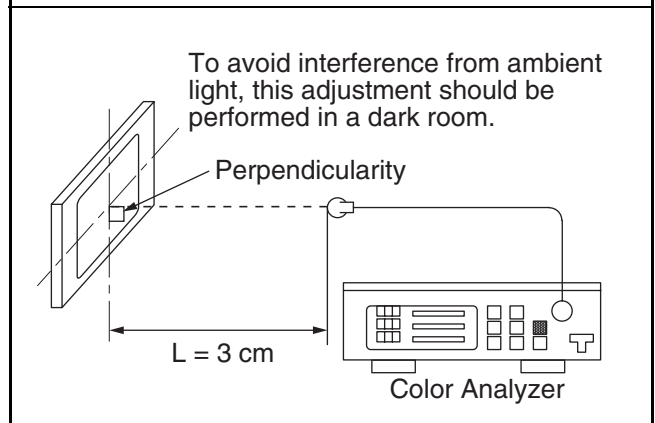


3. To cancel or to exit from the Purity Check Mode, press [BACK] button.

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 at the zero point calibration and bring the optical receptor pointing at the center of the LCD-Panel at a distance of 3cm away from 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.

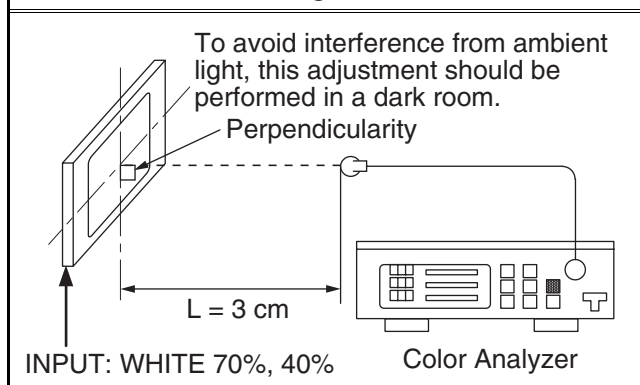
3. White Balance Adjustment

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

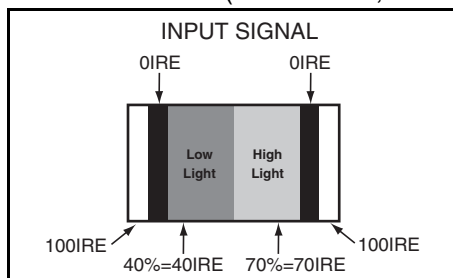
Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	[P ^ / ∨] 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 at the CHROMA mode and zero point calibration. Bring the optical receptor pointing at the center of the LCD-Panel at a distance of 3cm away from the LCD-Panel surface.
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 ^ / ∨] 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.

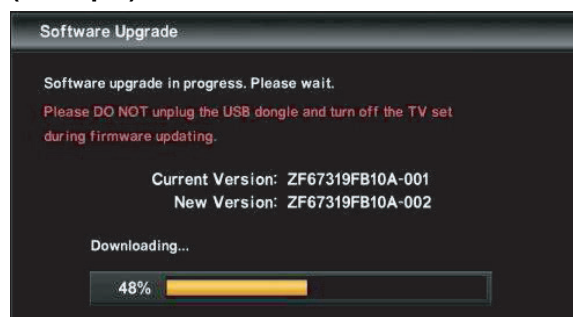
Step1. Add the "_F" at the end of the name.
(If the file name in USB says "ZF6731915NOS-030-05.ecc", the new file name should be "ZF6731915NOS-030-05_F.ecc".)

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.

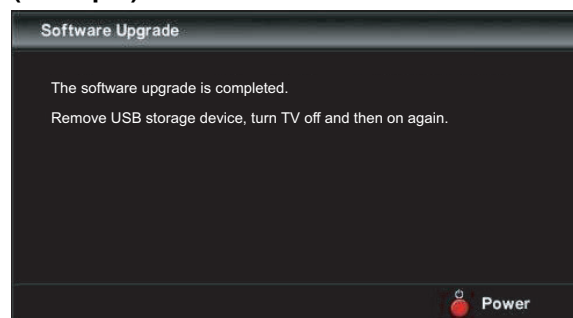
(Example)



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.

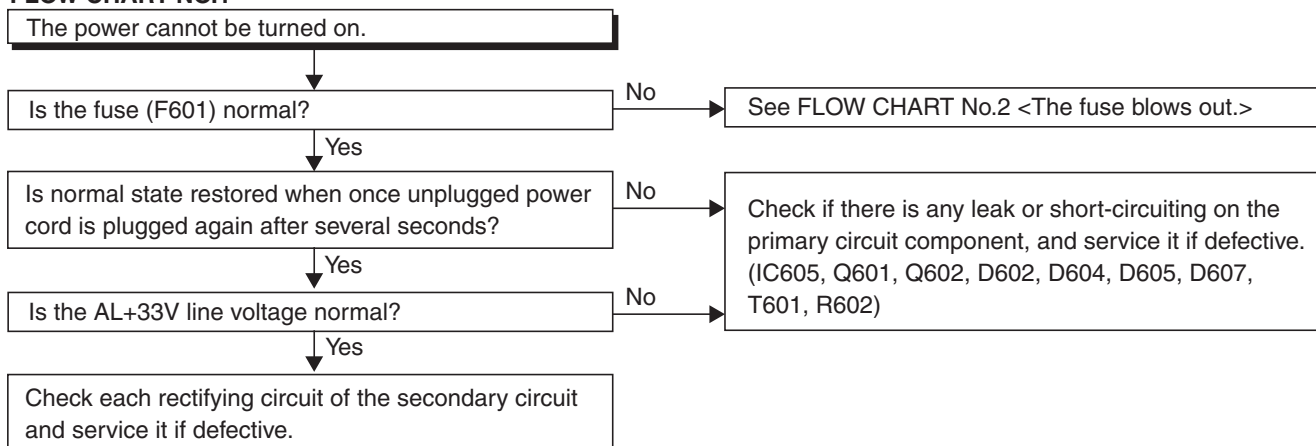
(Example)



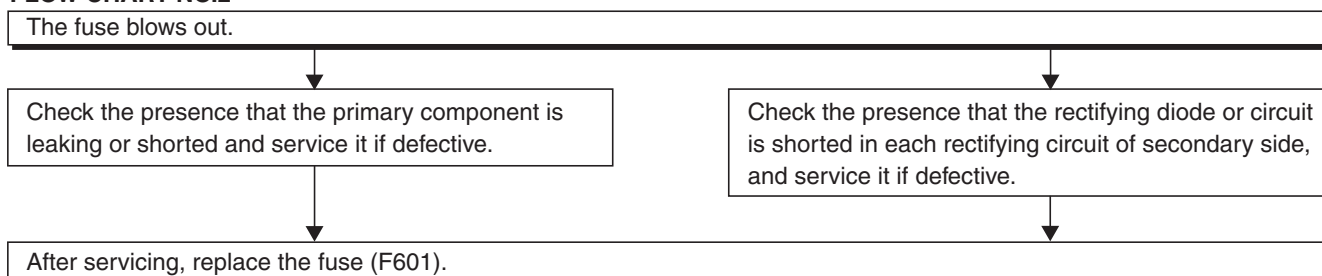
7. Press [⏻] button to turn off (standby).
8. Check "STAND BY" indicator (Red LED) lighting.
9. Remove USB storage device from TV set.
10. Press [⏻] button to turn on.

TROUBLESHOOTING

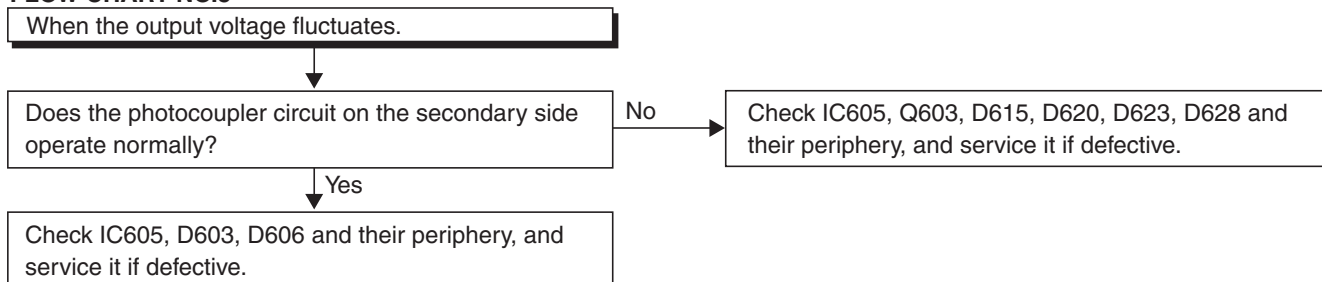
FLOW CHART NO.1



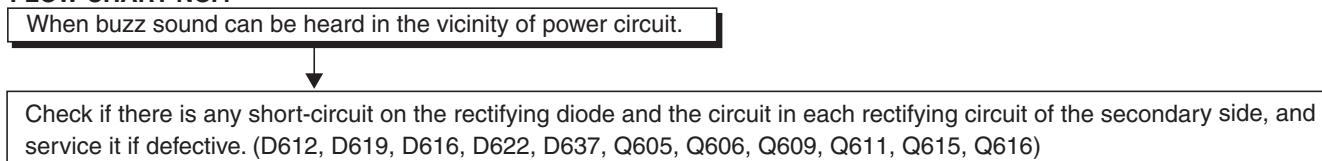
FLOW CHART NO.2



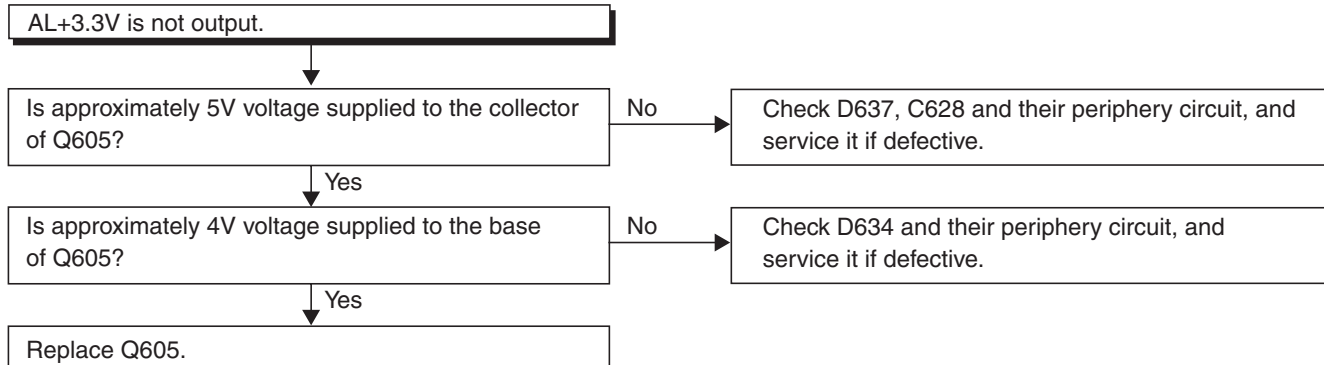
FLOW CHART NO.3



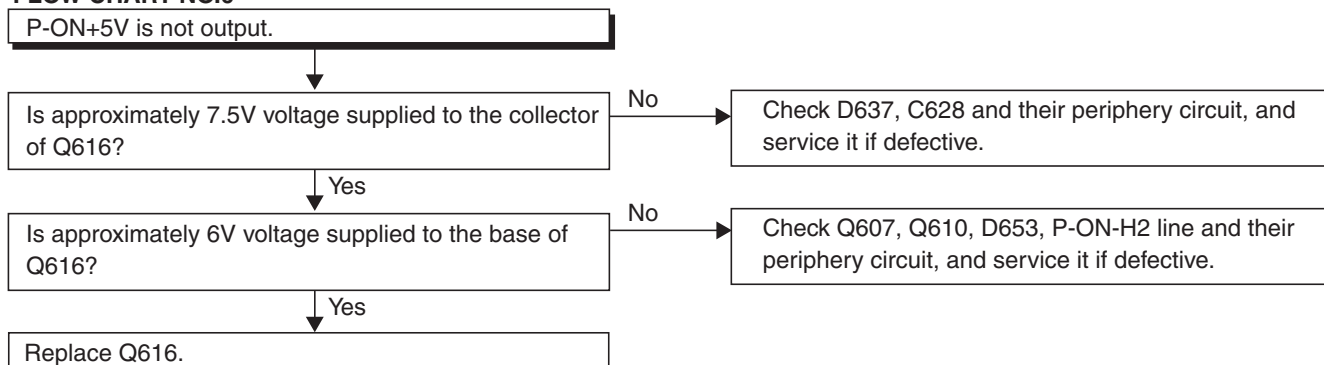
FLOW CHART NO.4



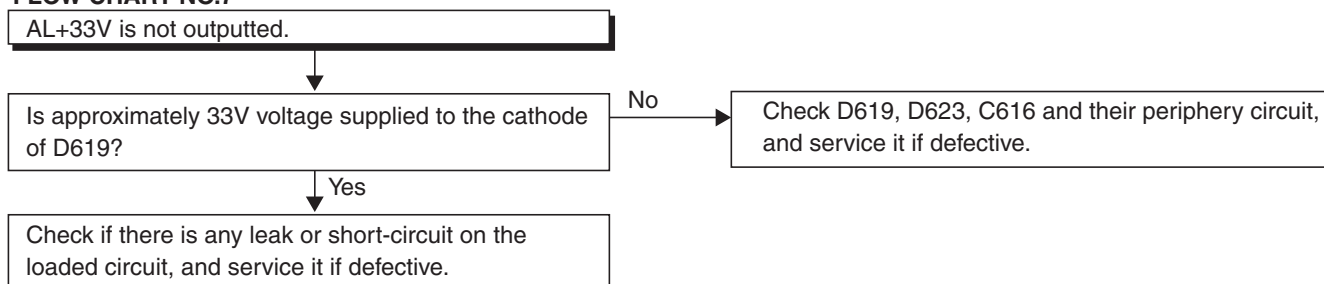
FLOW CHART NO.5



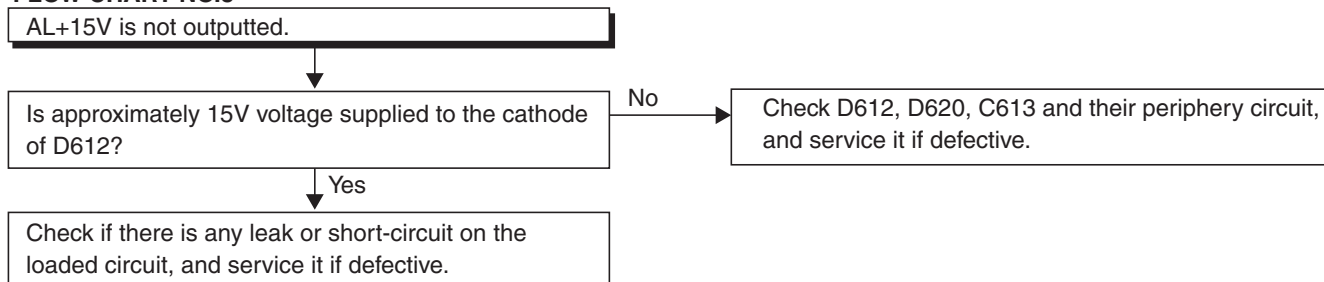
FLOW CHART NO.6



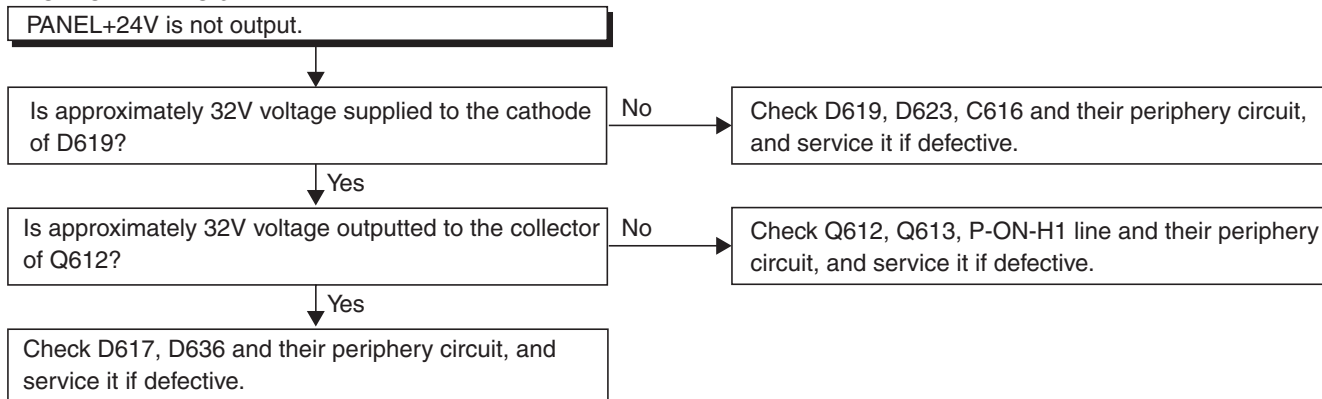
FLOW CHART NO.7



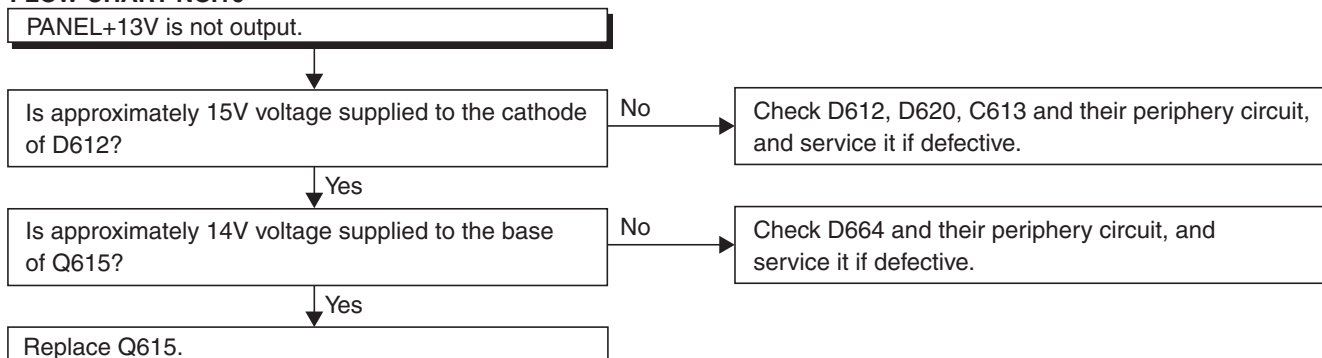
FLOW CHART NO.8



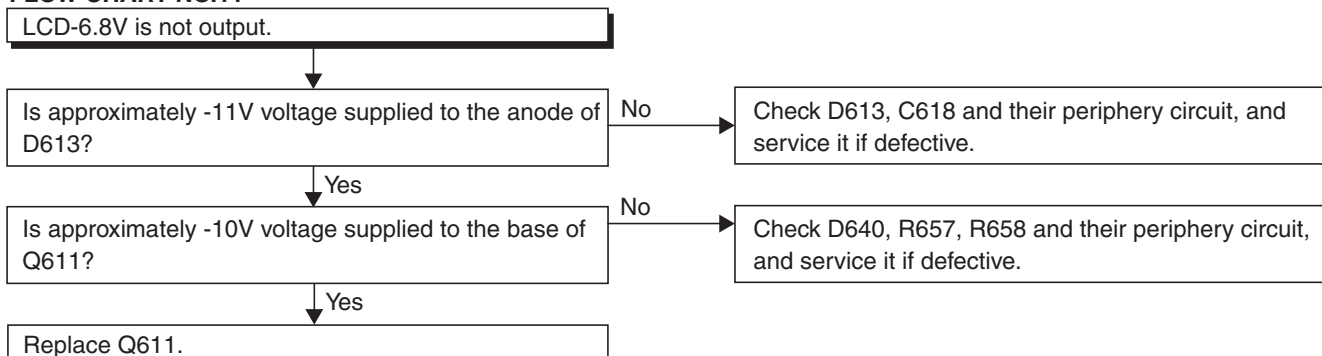
FLOW CHART NO.9



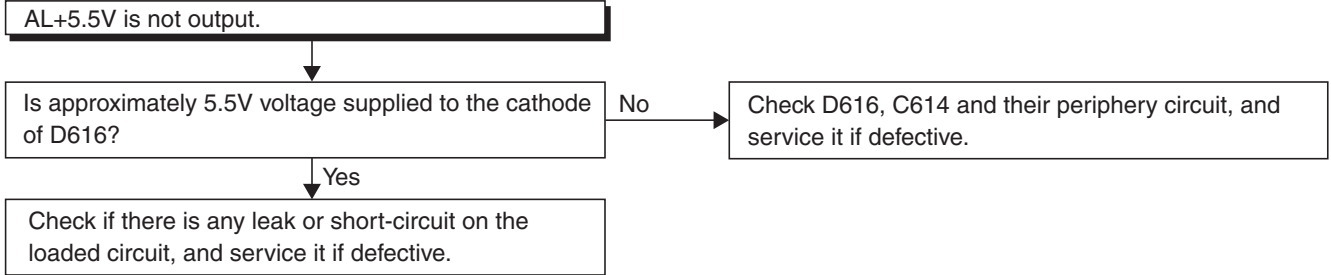
FLOW CHART NO.10



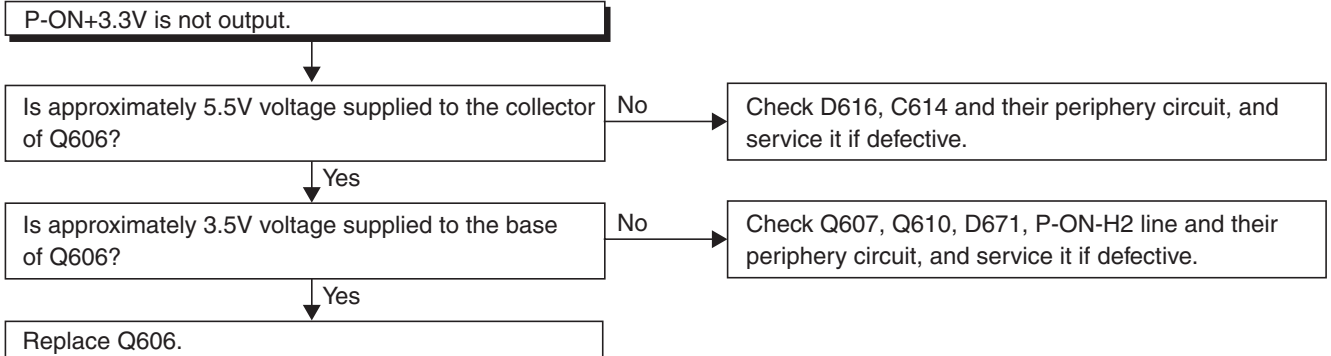
FLOW CHART NO.11



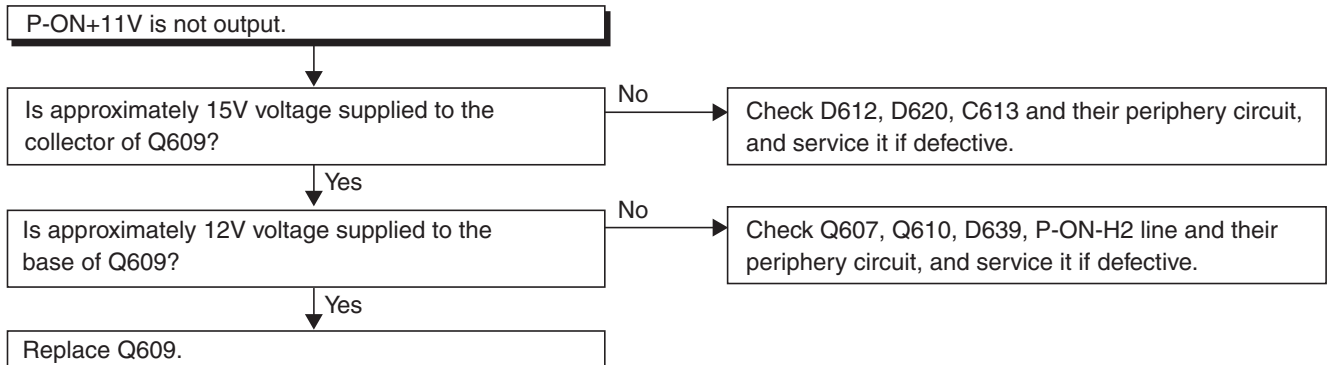
FLOW CHART NO.12



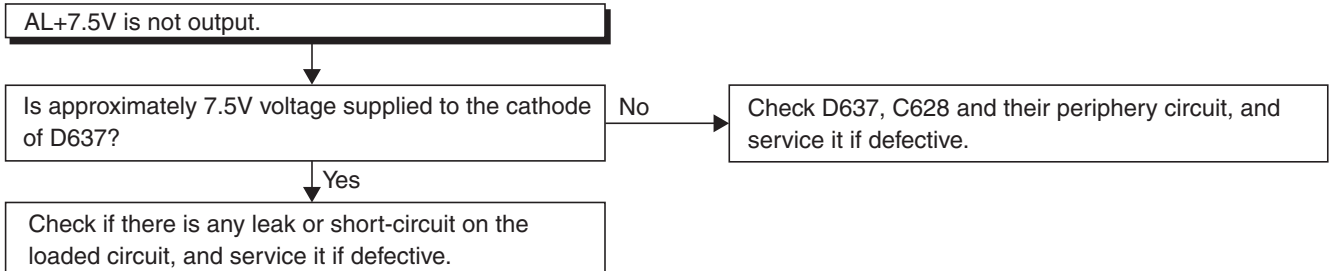
FLOW CHART NO.13



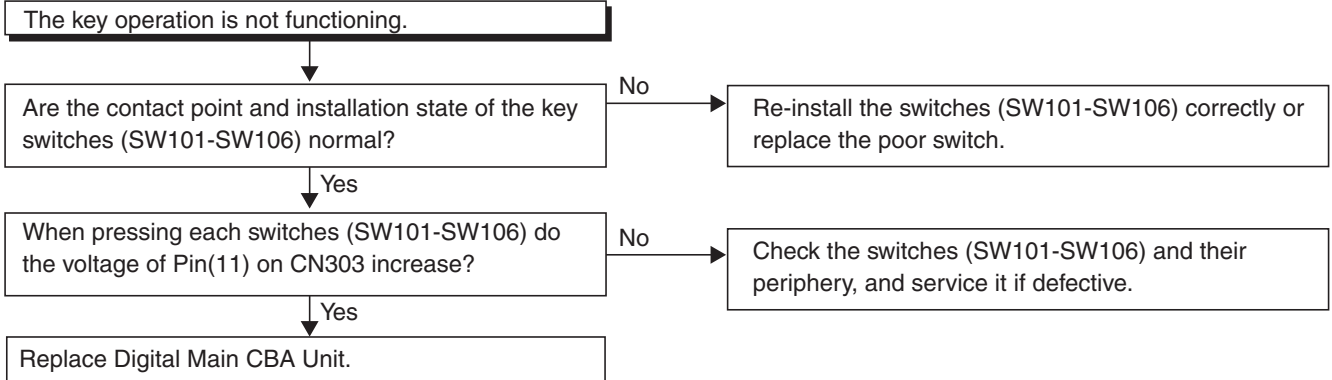
FLOW CHART NO.14



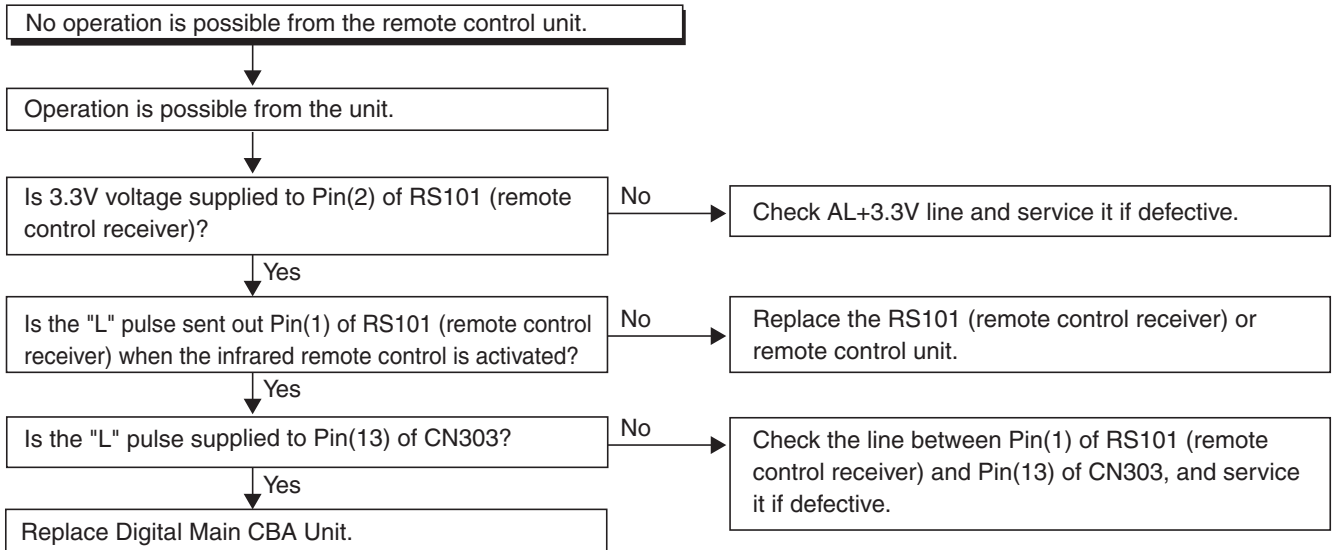
FLOW CHART NO.15



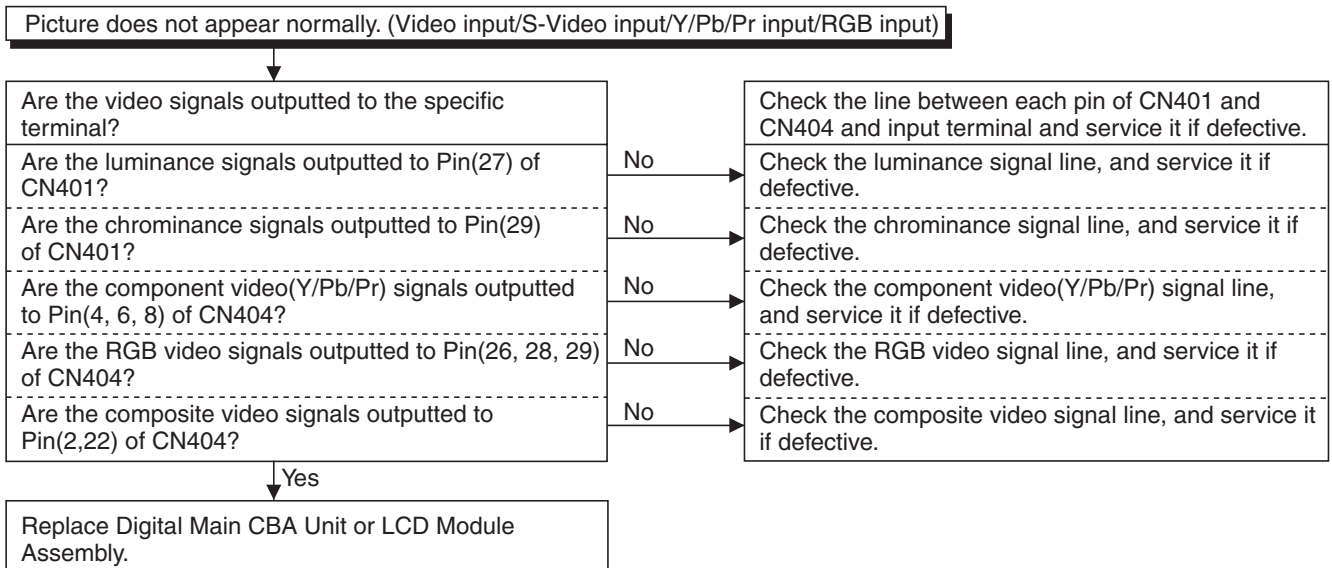
FLOW CHART NO.16



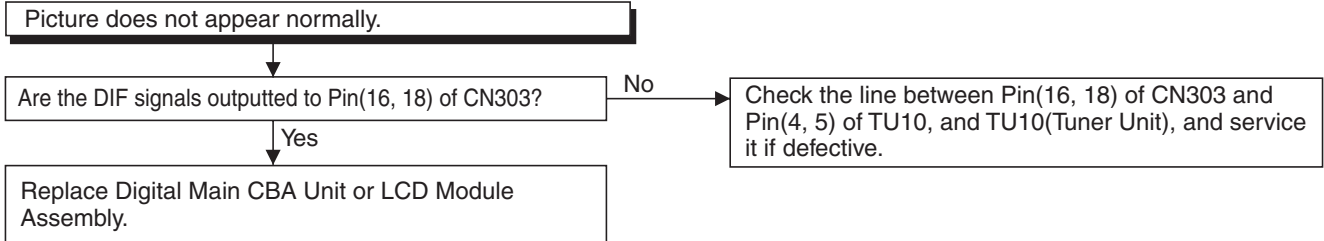
FLOW CHART NO.17



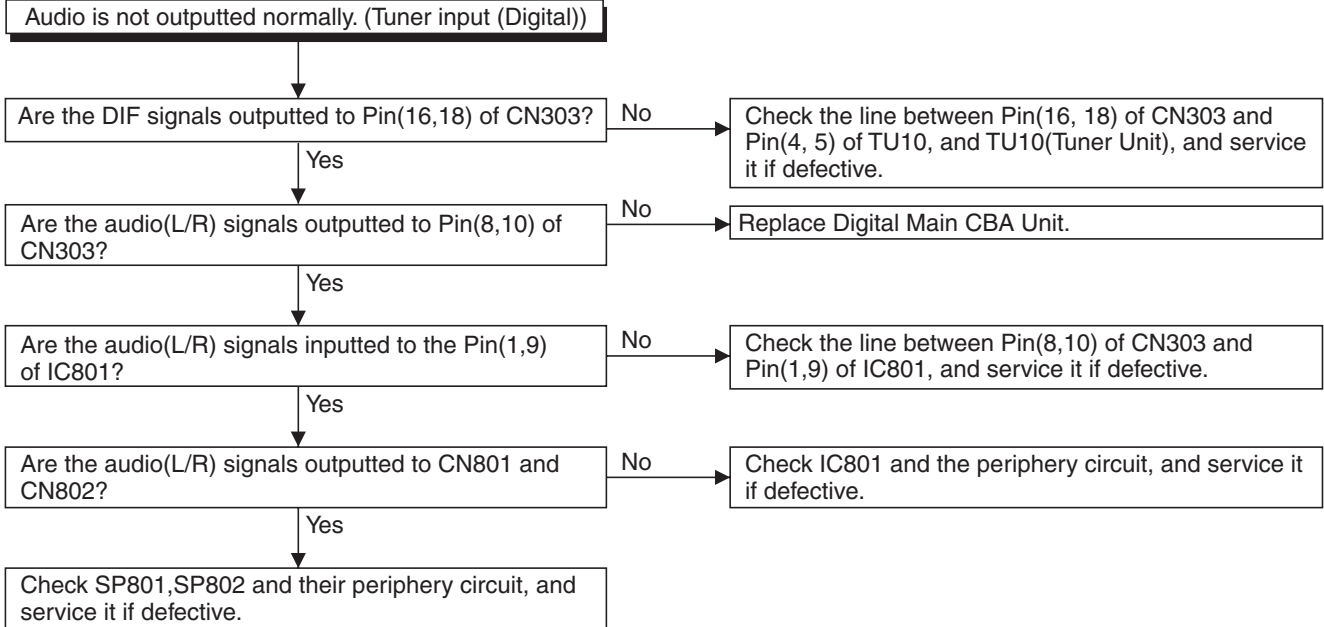
FLOW CHART NO.18



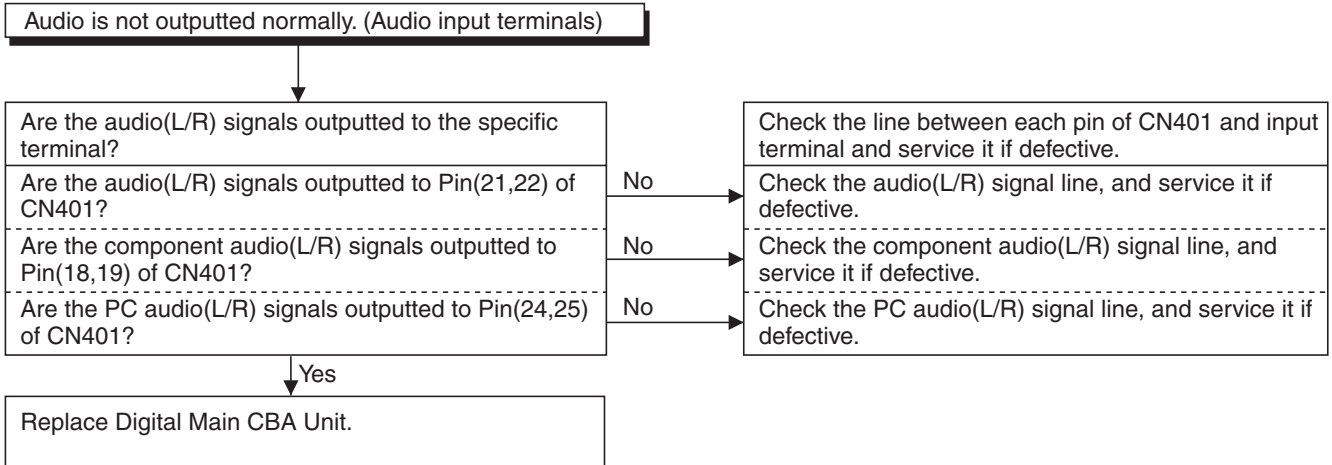
FLOW CHART NO.19



FLOW CHART NO.20

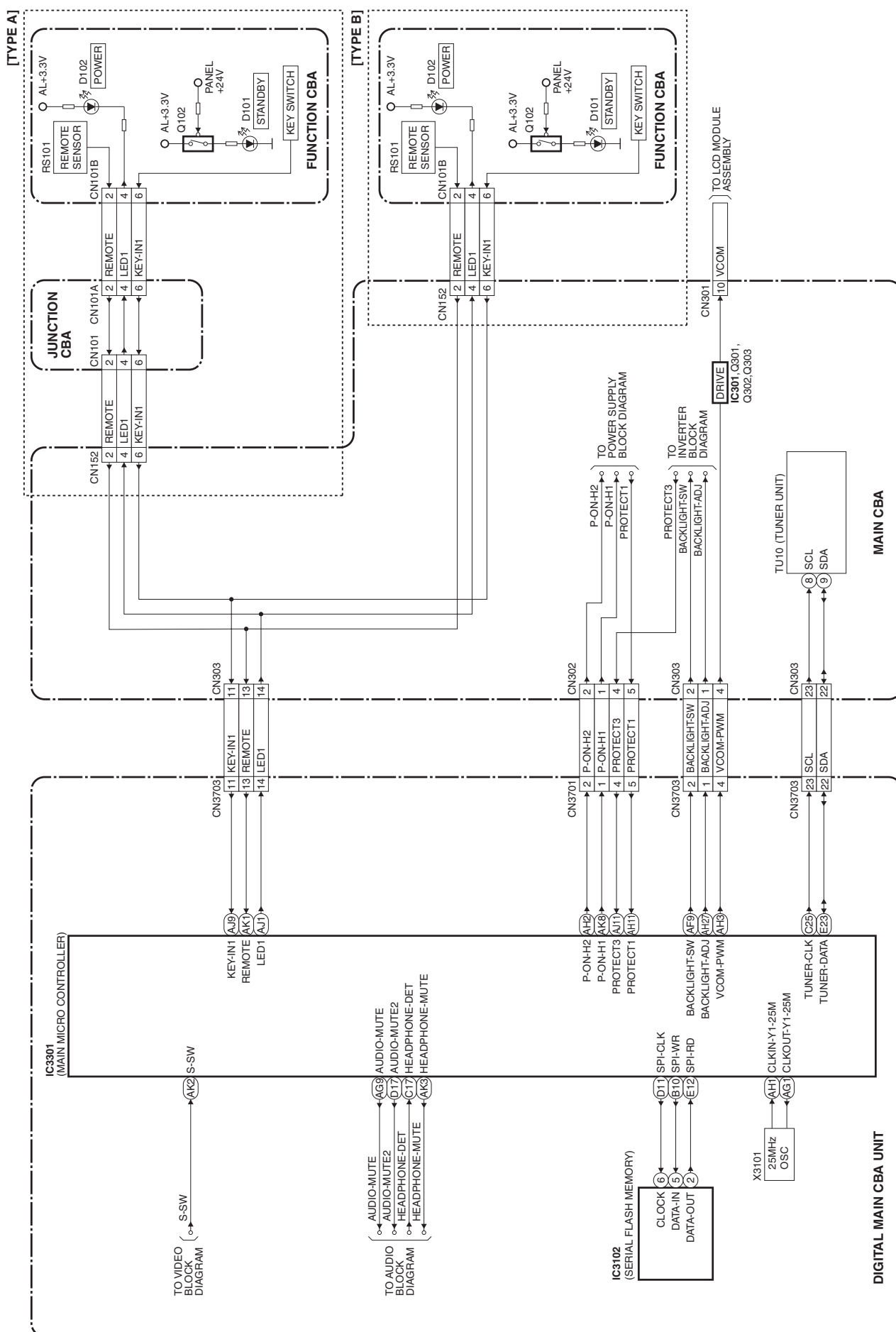


FLOW CHART NO.21

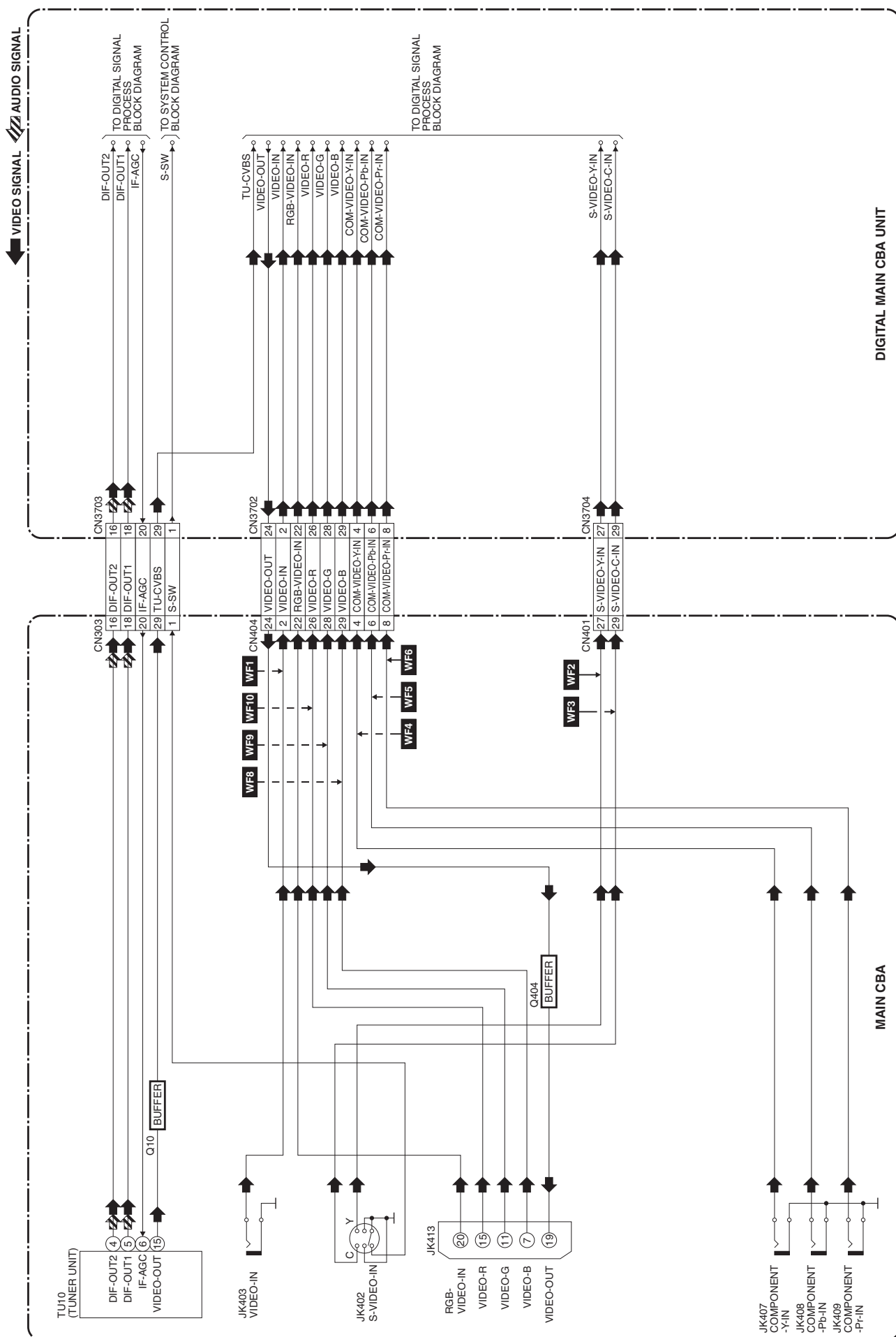


BLOCK DIAGRAMS

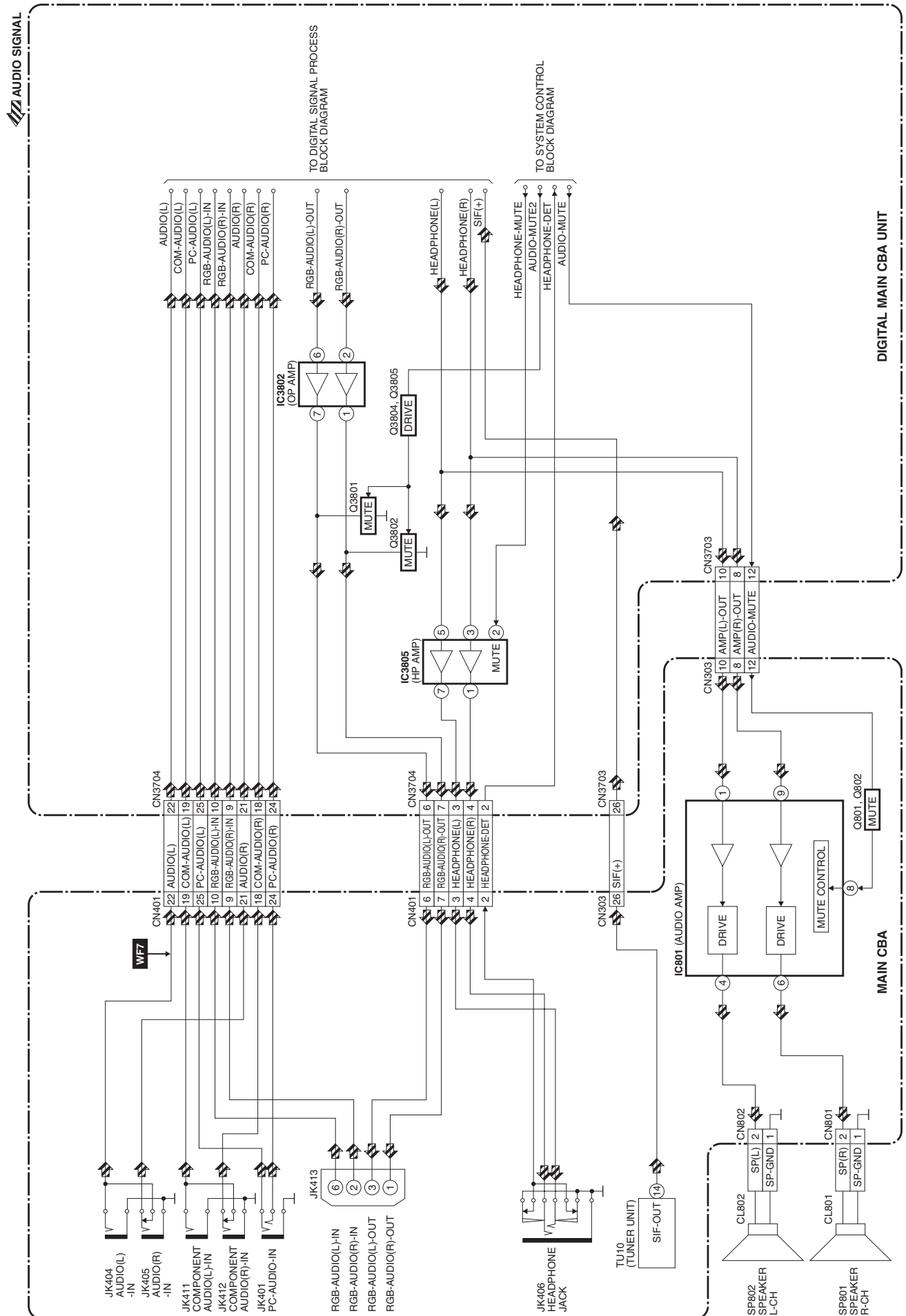
System Control Block Diagram



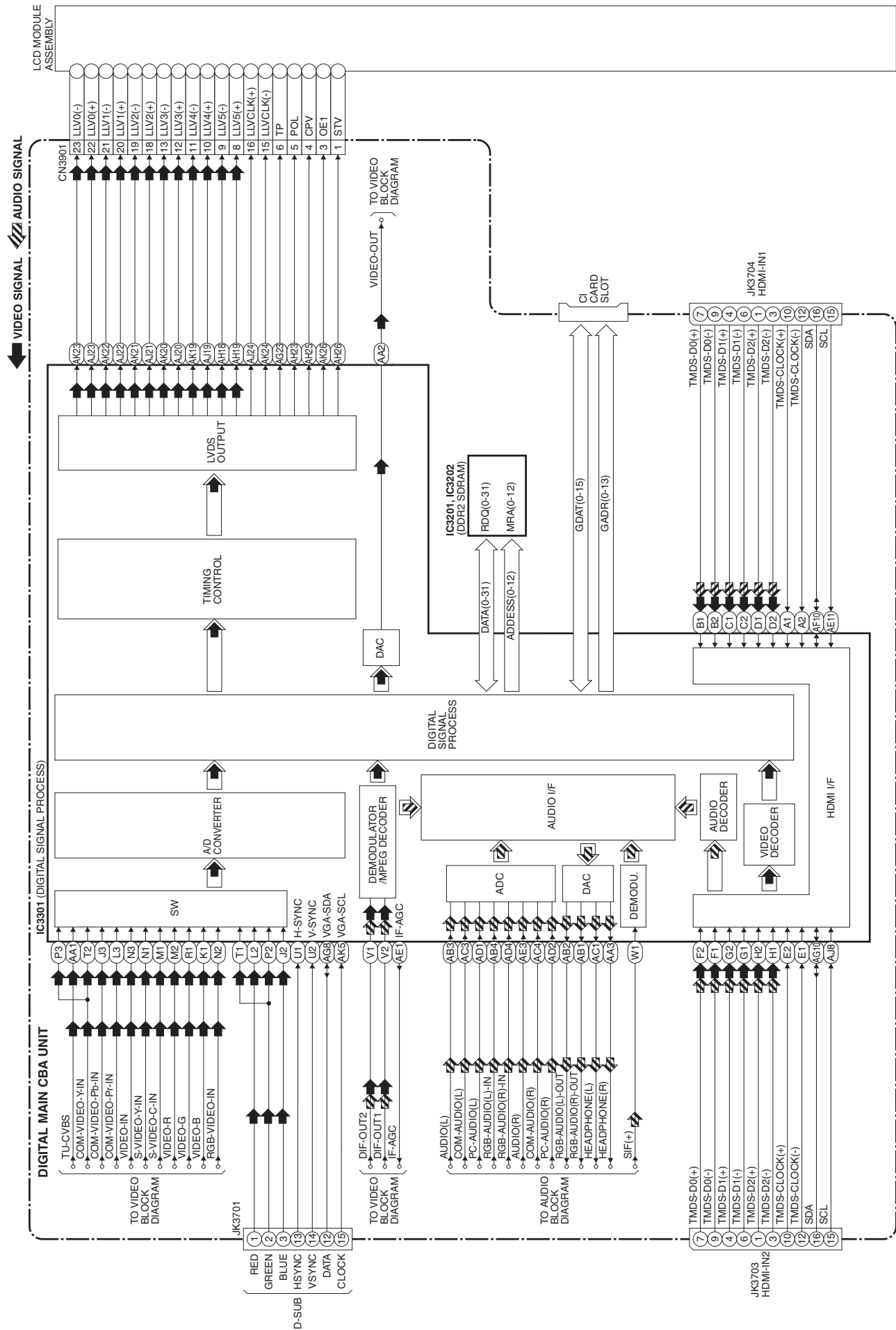
Video Block Diagram



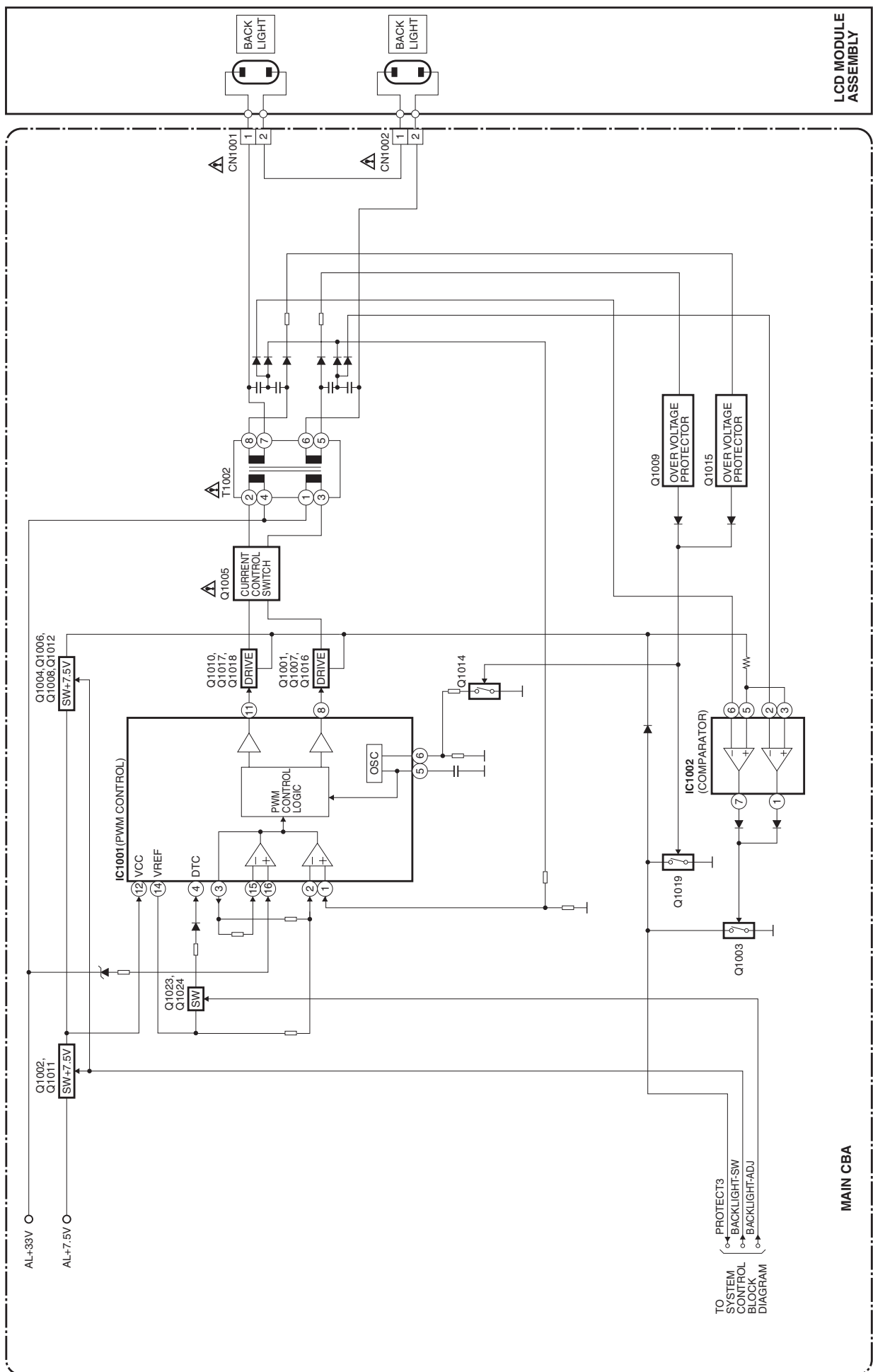
Audio Block Diagram



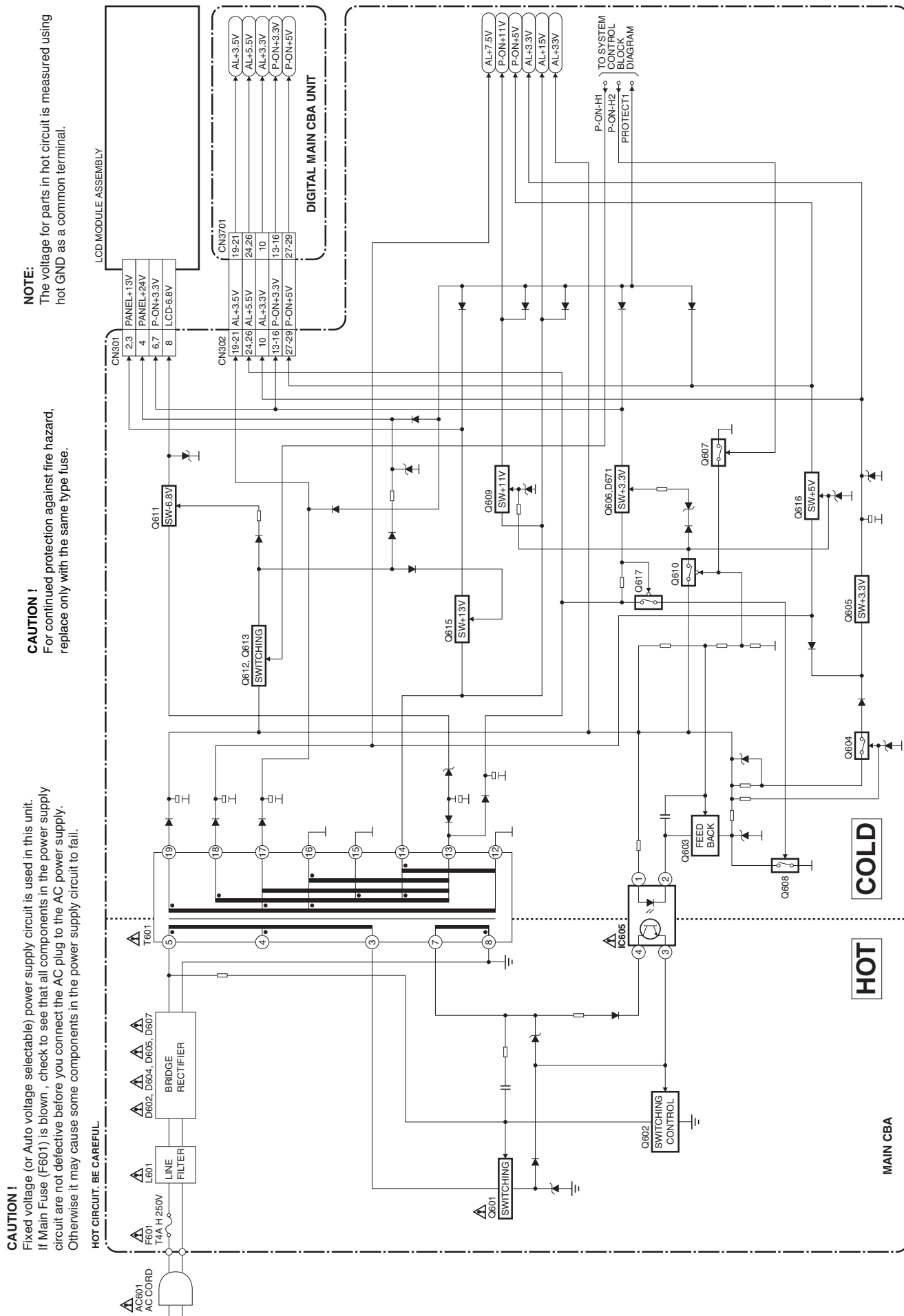
Digital Signal Process Block Diagram



Inverter Block Diagram



Power Supply Block Diagram



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.

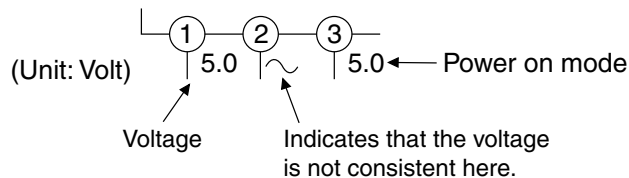
If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

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.:

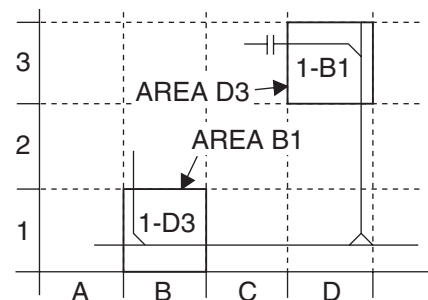


5. How to read converged lines

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.

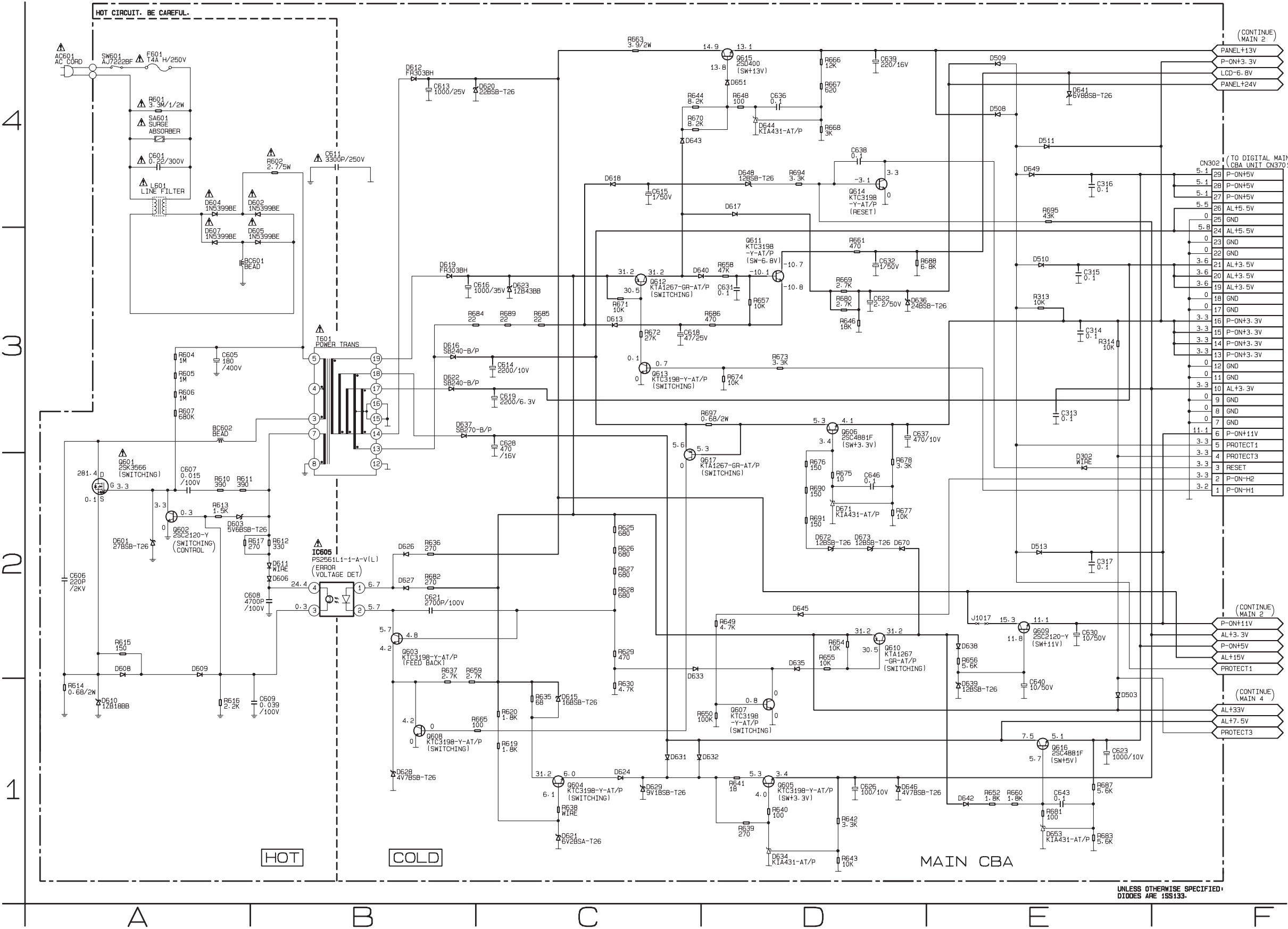
● : Used to indicate a test point with a test pin.

Main 1 Schematic Diagram

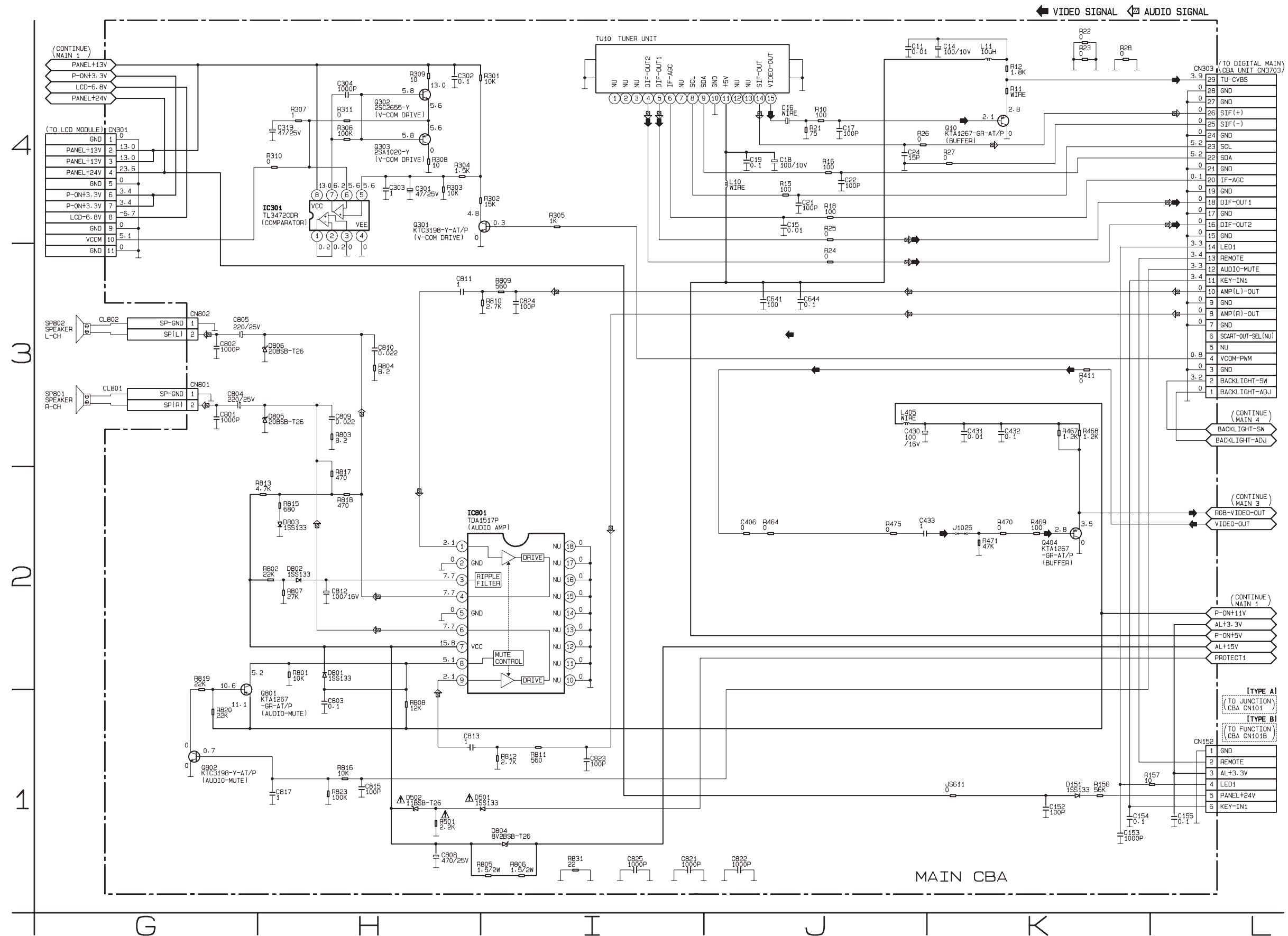
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in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

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

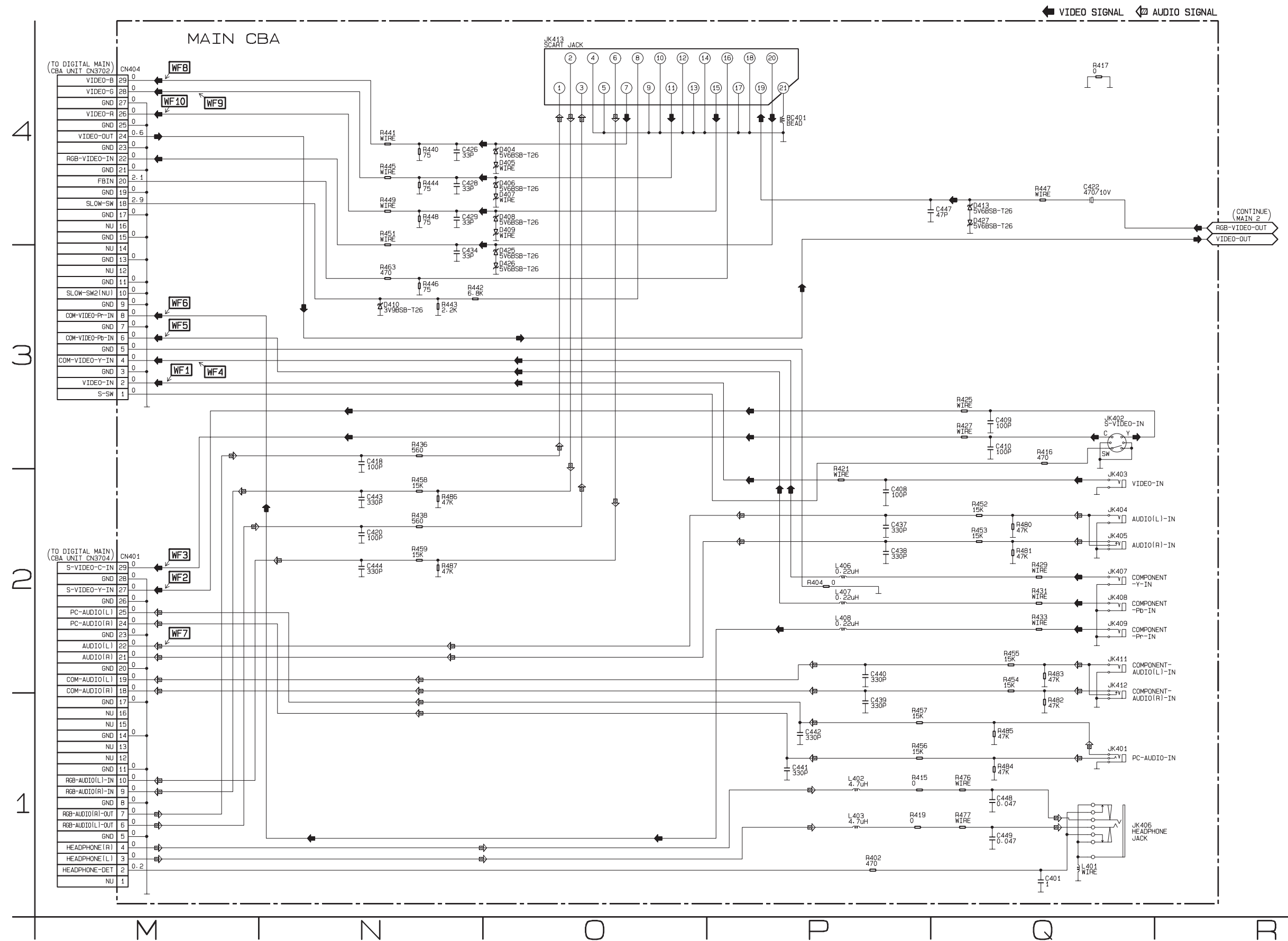
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.



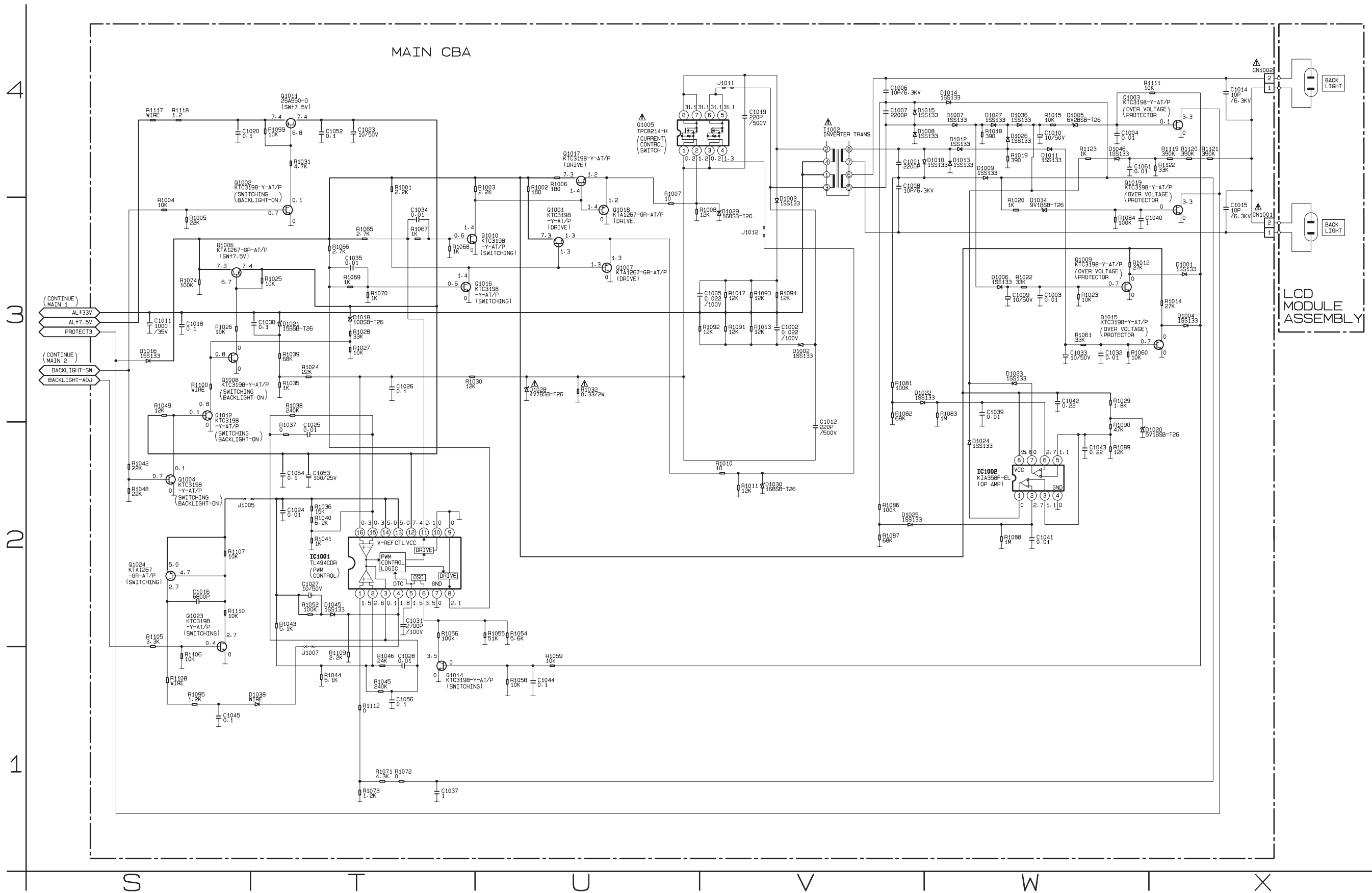
Main 2 Schematic Diagram



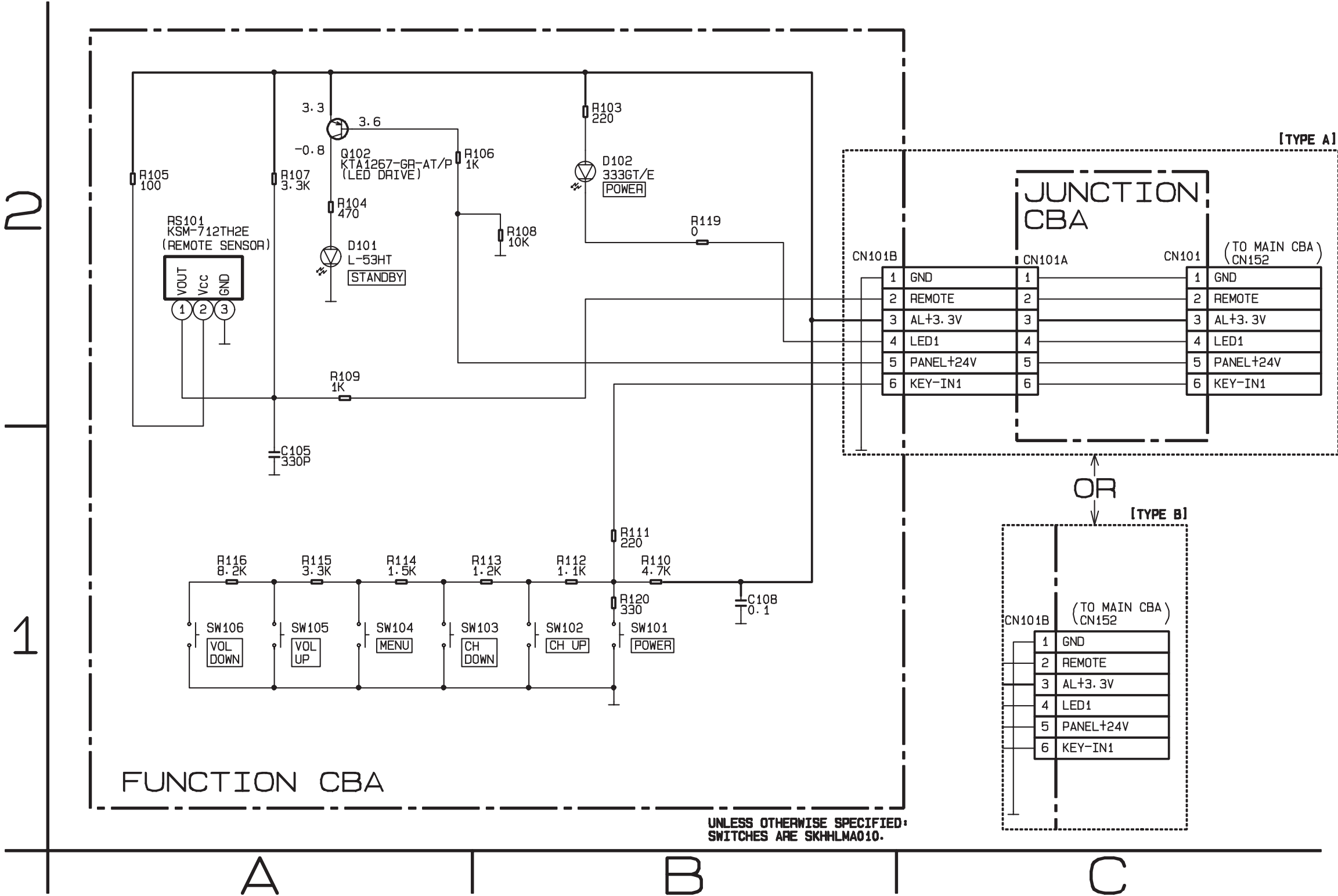
Main 3 Schematic Diagram



Main 4 Schematic Diagram

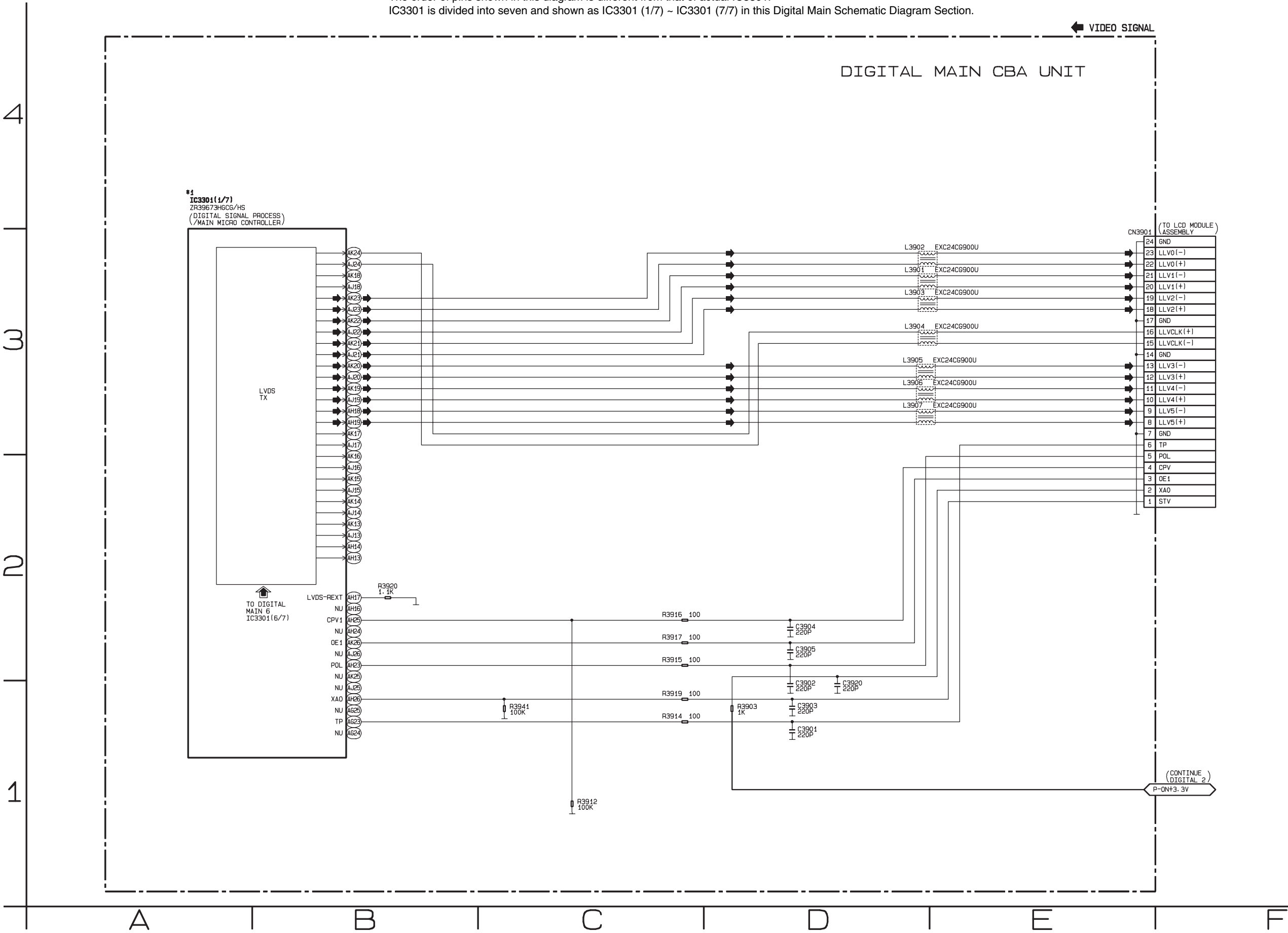


Function & Junction Schematic Diagram



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 seven and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



4
3
2
1

The order of pins shown in this diagram is different from that of actual IC3301.

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



A vertical axis with tick marks labeled 1, 2, 3, and 4.

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



4

3

2

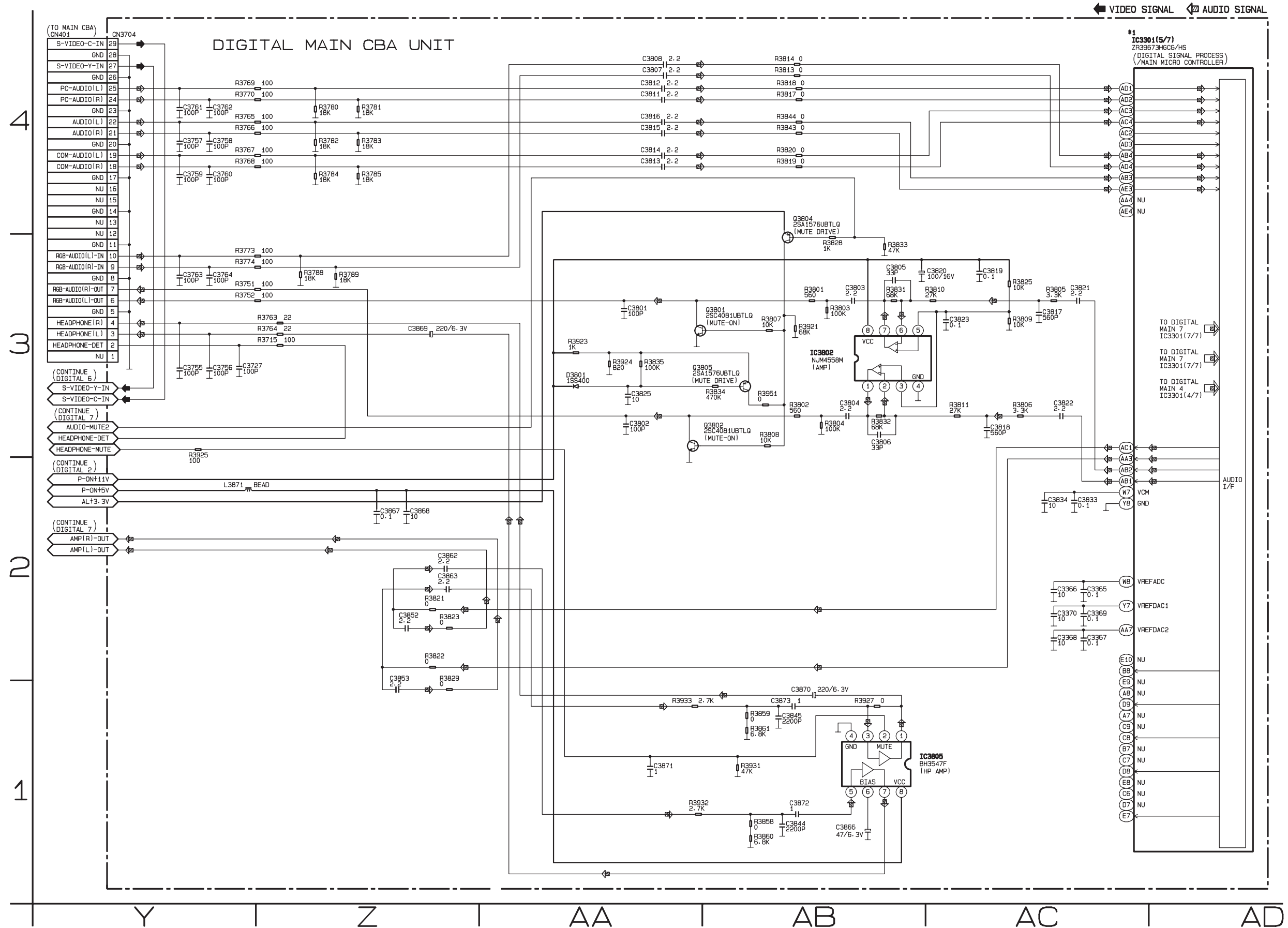


Digital Main 5 Schematic Diagram

***1 NOTE:**

The order of pins shown in this diagram is different from that of actual IC3301.

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

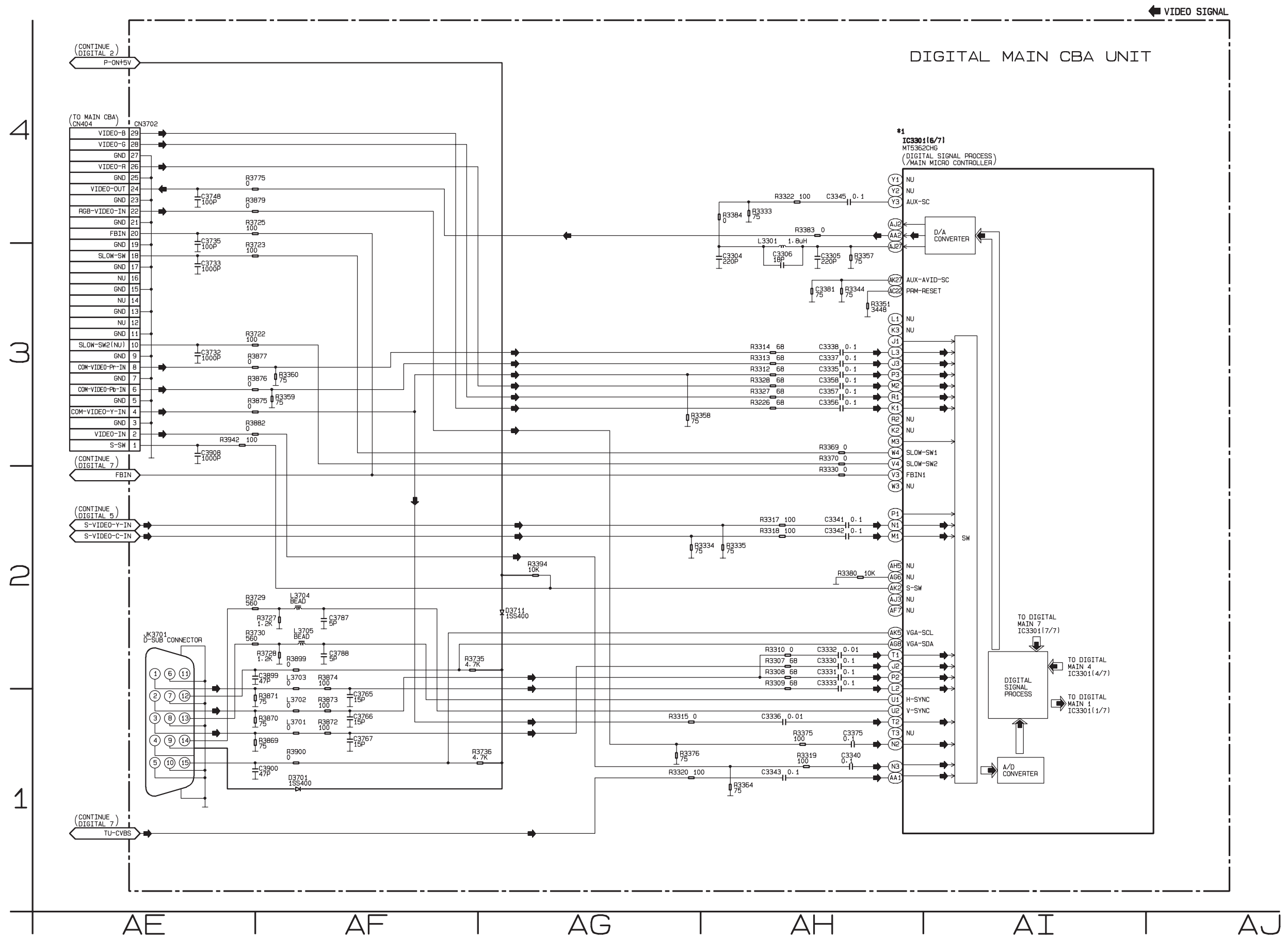


Digital Main 6 Schematic Diagram

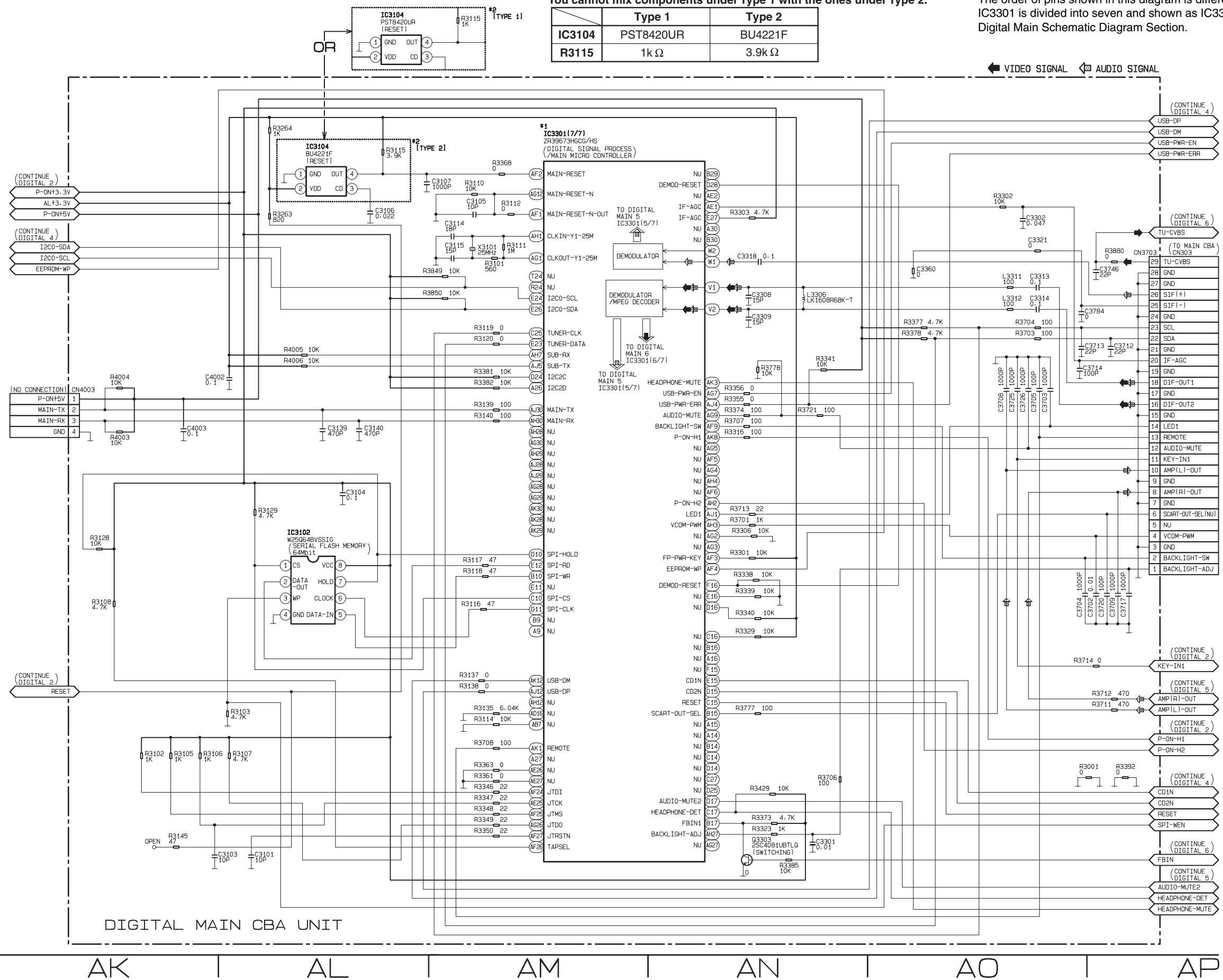
***1 NOTE:**

The order of pins shown in this diagram is different from that of actual IC3301.

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



A vertical axis with tick marks and labels 1, 2, 3, and 4.



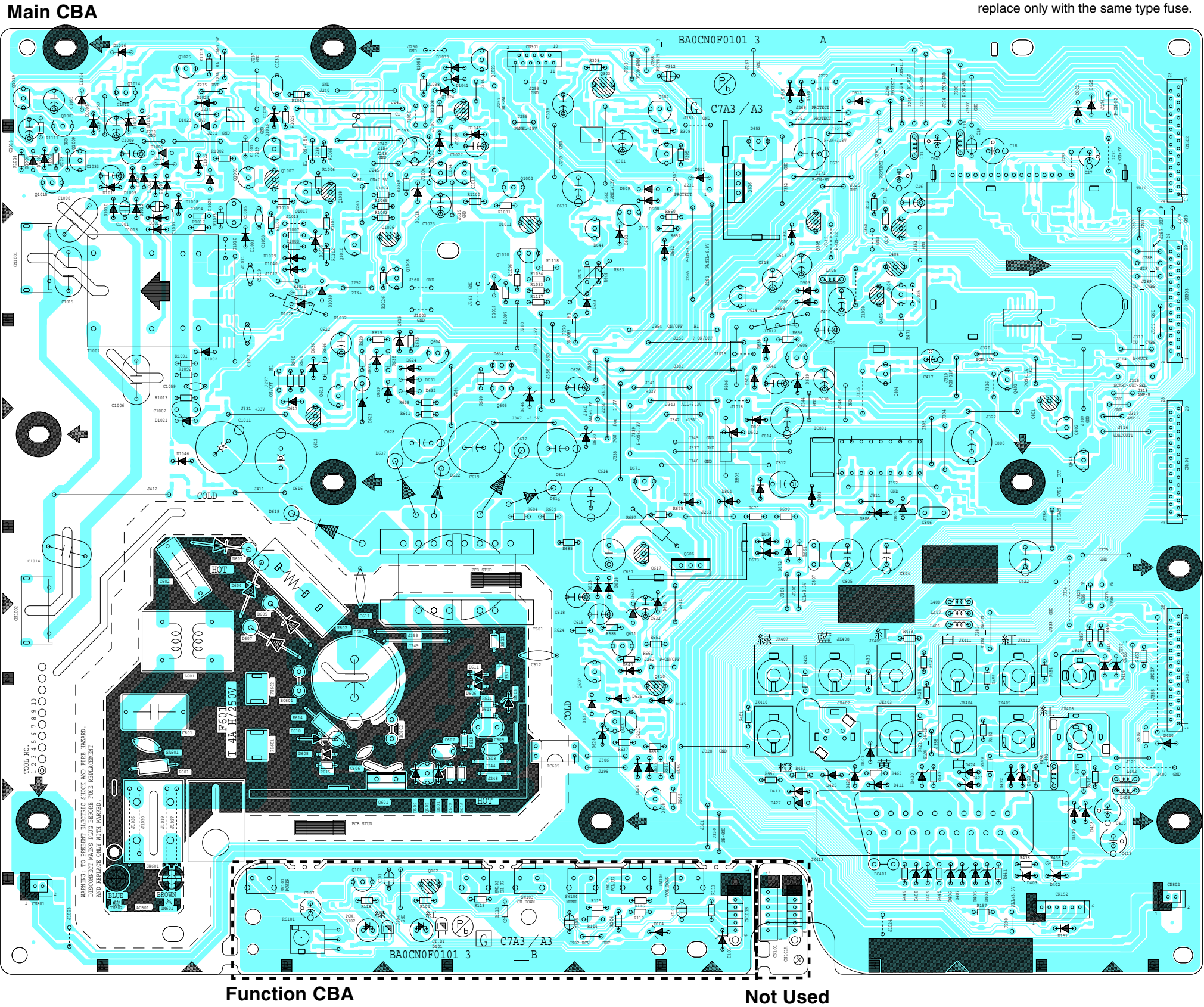
Main CBA & Function CBA Top View

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.



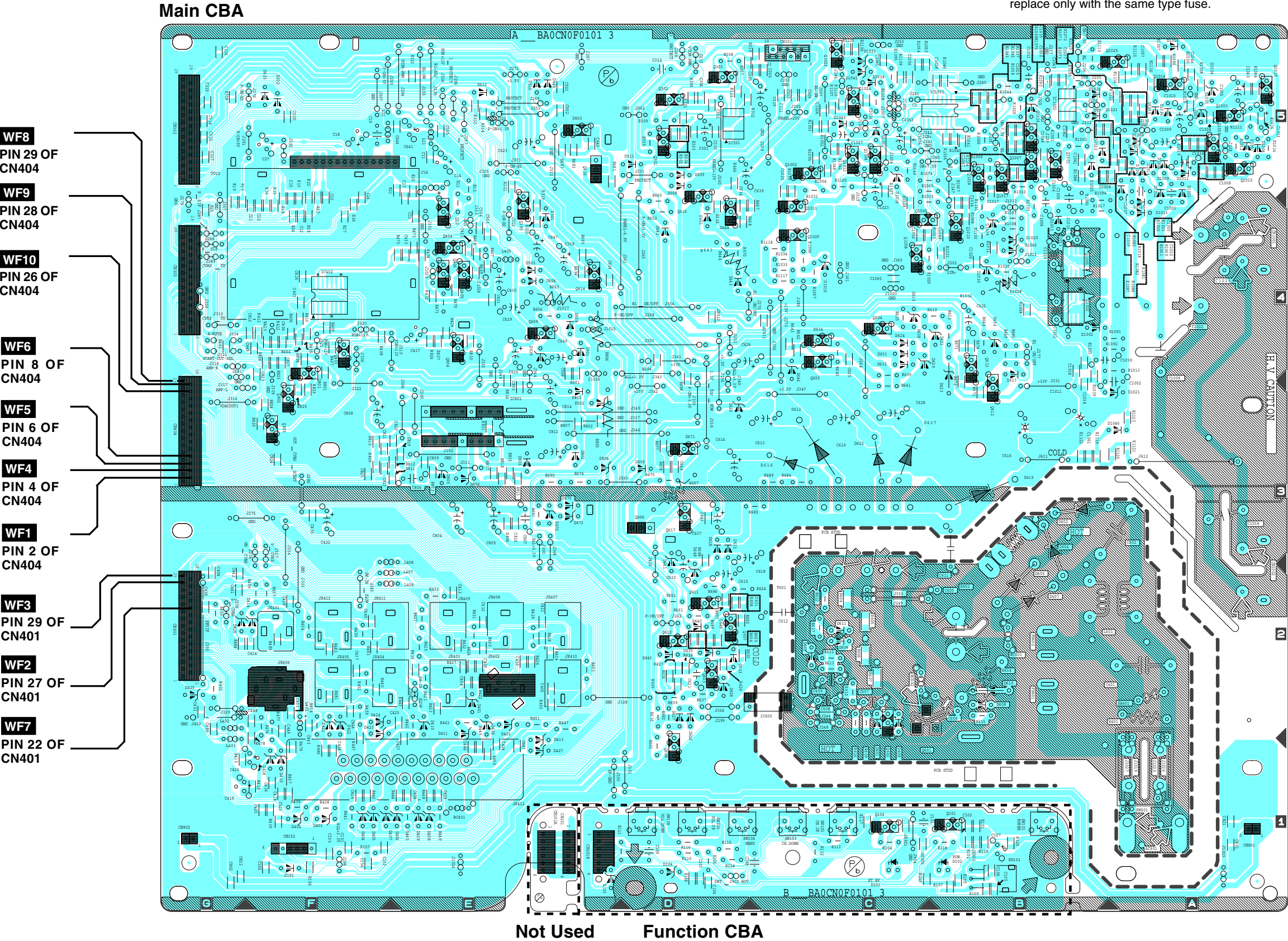
Main CBA & Function CBA Bottom View

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.

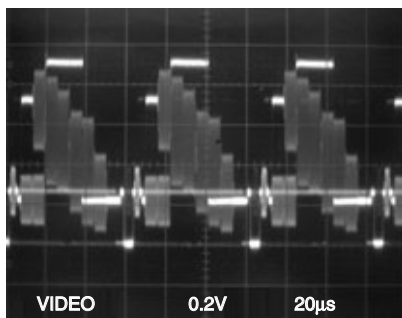


WAVEFORMS

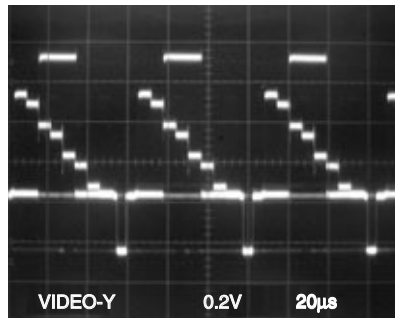
WF1 ~ WF6 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

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

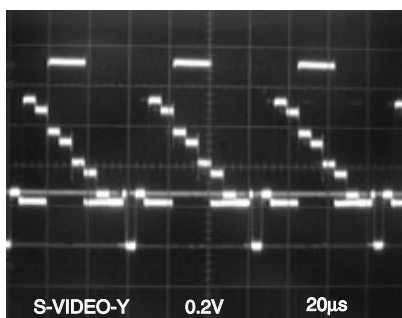
WF1 Pin 2 of CN404



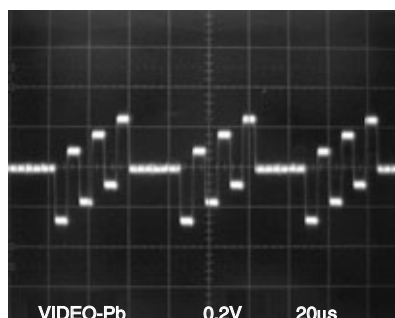
WF4 Pin 4 of CN404



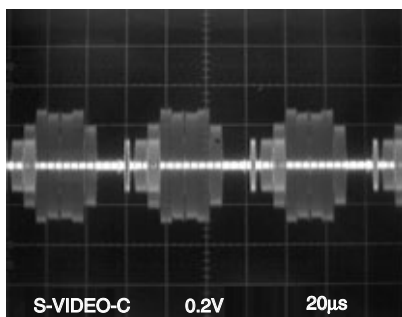
WF2 Pin 27 of CN401



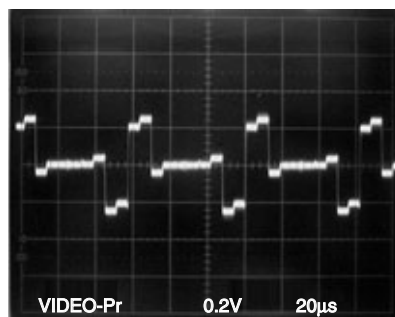
WF5 Pin 6 of CN404



WF3 Pin 29 of CN401



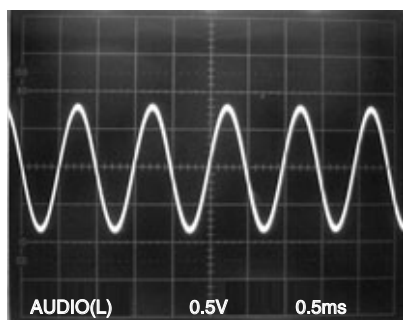
WF6 Pin 8 of CN404



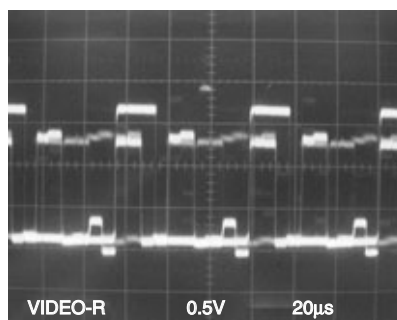
WF7 ~ WF10 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

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

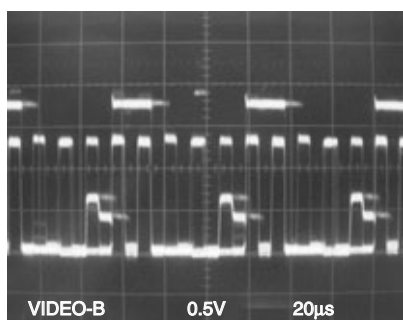
WF7 Pin 22 of CN401



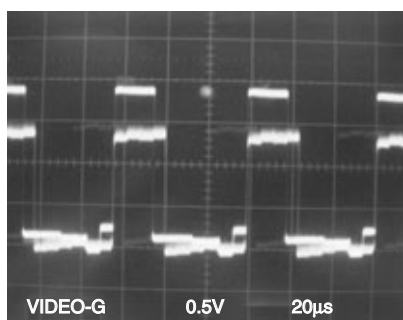
WF10 Pin 26 of CN404



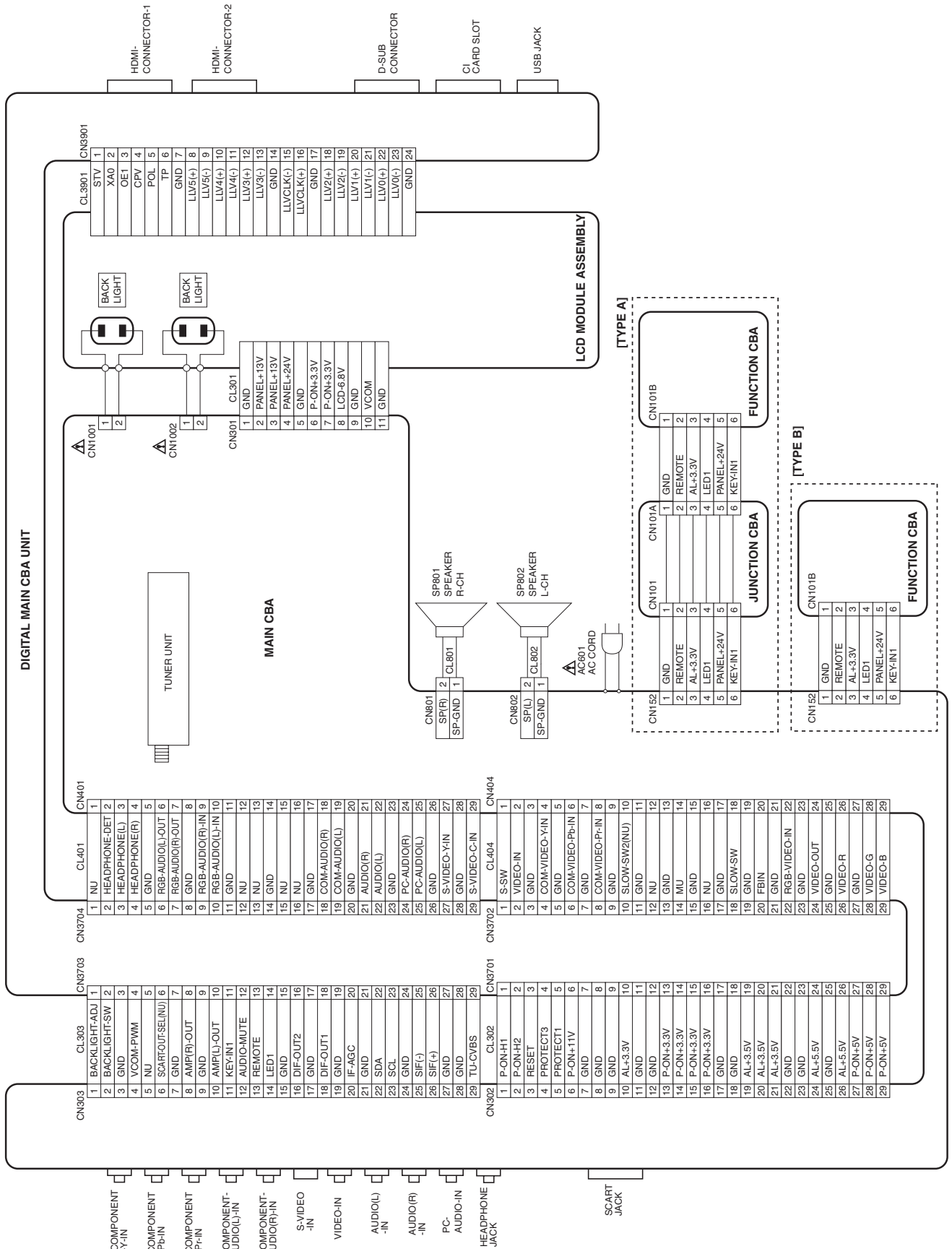
WF8 Pin 29 of CN404



WF9 Pin 28 of CN404

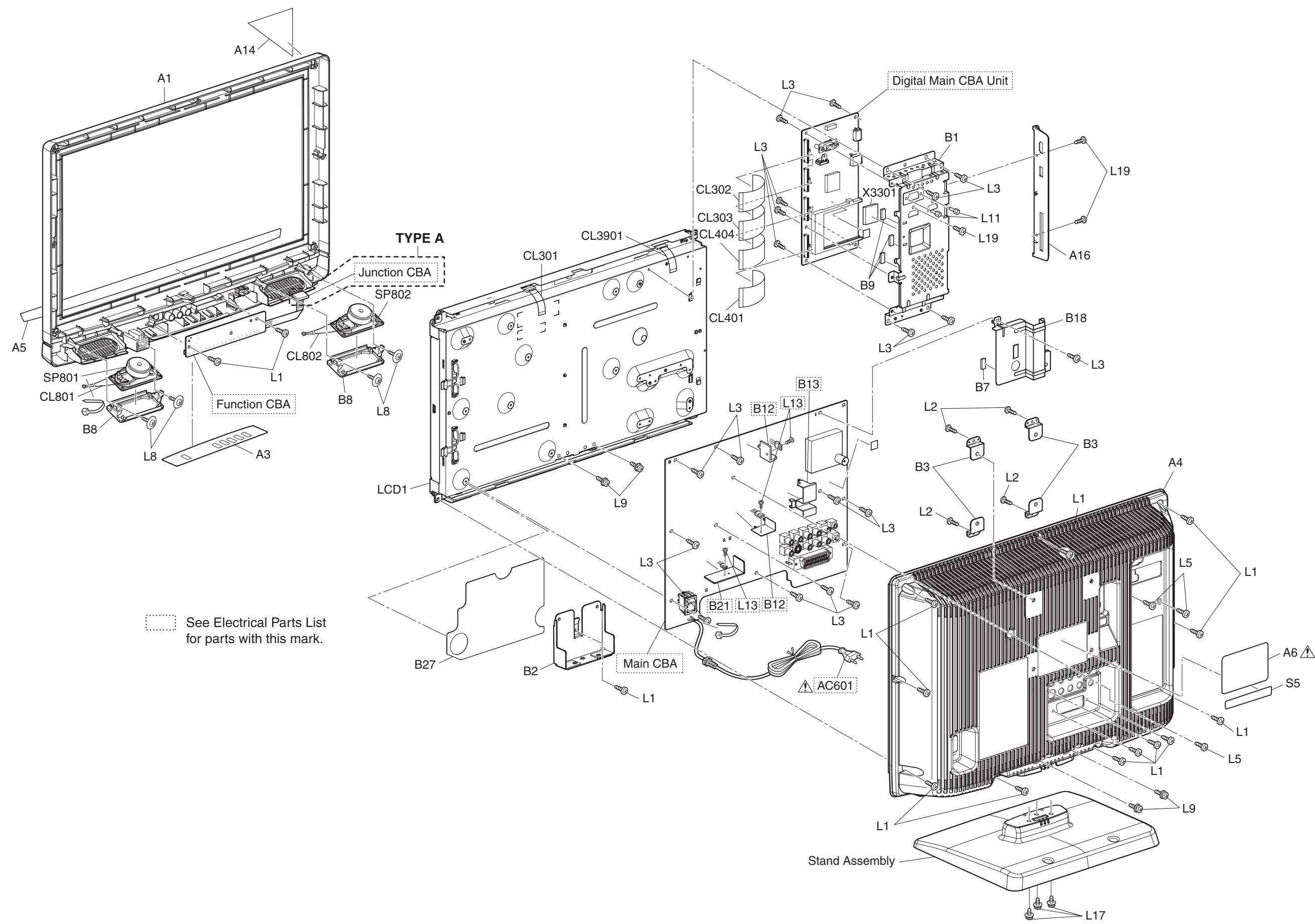


WIRING DIAGRAMS

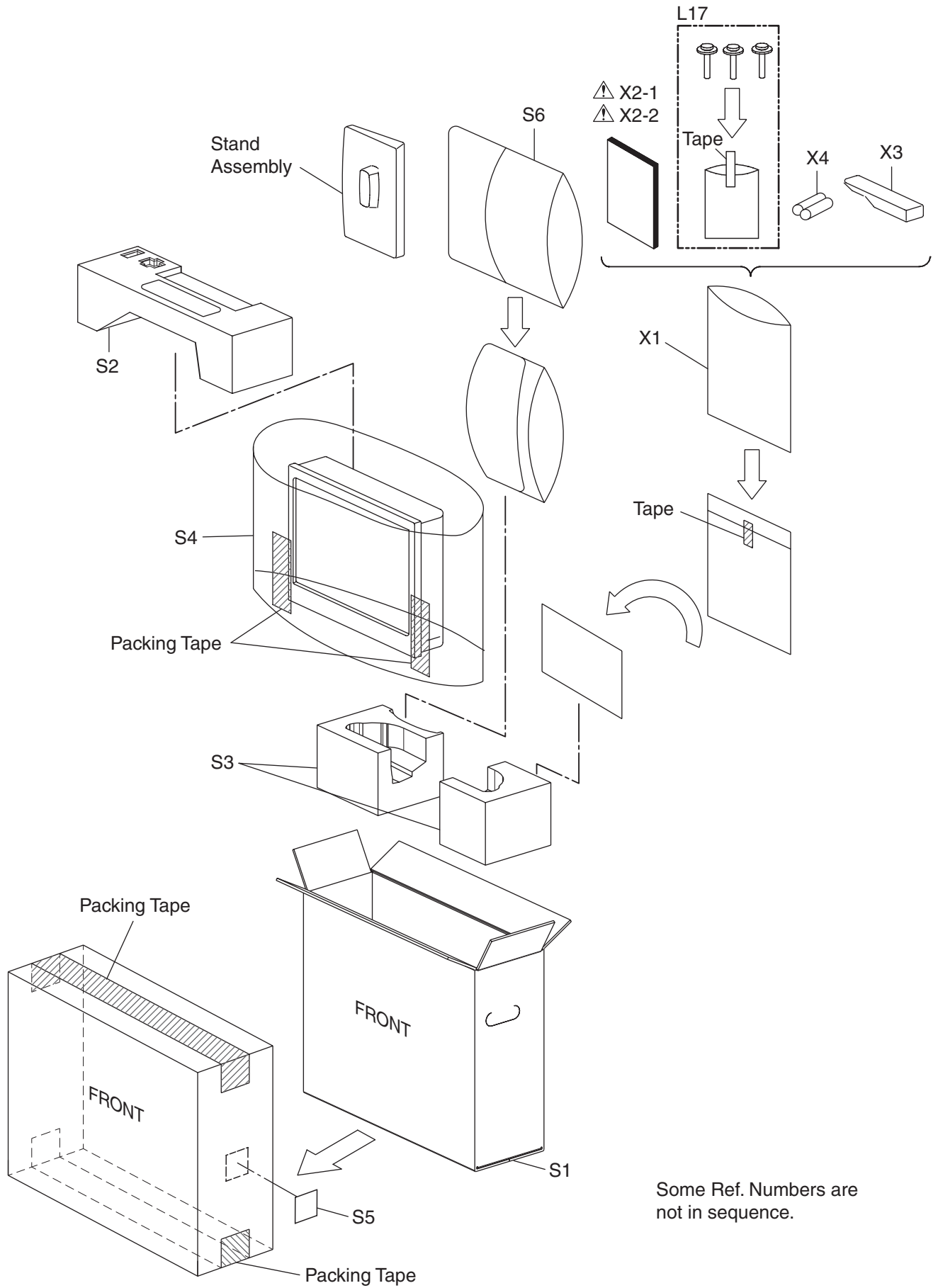


EXPLODED VIEWS

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.

Comparison Chart of Models and Marks


Model	Mark
LT850-M19	A
LT851-M19	B

Ref. No.	Mark	Description	Part No.
	A	STAND ASSEMBLY A0CN0EZ	1ESA23370
	B	STAND ASSEMBLY A0CN1EZ	1ESA23993
A1	A	FRONT CABINET A93N2EP	1EM123593
A1	B	FRONT CABINET A93N1EP	1EM123733
A3	A	CONTROL PLATE A91N0UH	1EM325762
A3	B	CONTROL PLATE A93N1EP	1EM326657
A4	A	REAR CABINET A0CN0EP	1EM124393
A4	B	REAR CABINET A0CN1EP	1EM124333
A5	A	DECORATION PLATE A0CN0EP	1EM224204
A5	B	DECORATION PLATE A0CN1EP	1EM224205
A14		POP LABEL A0CN0EP	-----
A16	A	JACK HOLDER A93F0FP	1EM123494A
A16	B	JACK HOLDER A0CN1EP	1EM327357
B1		SHIELD BOX A93N2EP	1EM123594A
B2		STAND HOLDER A94N0UH	1EM325619
B3		WALL MOUNT BRACKET A84N0UH	1EM323797
B7		GASKET A8AF0UH	1EM425861
B8		SPEAKER HOLDER A94N0UH	1EM325677
B9		GASKET(4X15XT3.0) A0CN0EP	1EM431762
B18		TUNER SHIELD A93N2EP	1EM326238
B27		SEPARATION SHEET A93N2EP	1EM326297
CL301		WIRE ASSEMBLY 11PIN FFC 11PIN 75MM	WX1A94N0-105
CL302		WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL303		WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL401		WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL404		WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL801		WIRE ASSEMBLY 2PIN WX1A93N0-001	WX1A93N0-001
CL802		WIRE ASSEMBLY 2PIN WX1A93N0-001	WX1A93N0-001
CL3901		WIRE ASSEMBLY 24PIN FFC 24PIN 65MM	WX1A94N0-106
L1		SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L2		SCREW P-TIGHT M3X8 BIND HEAD+	GBJP3080
L3		SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
L8		ASSEMBLED SCREW M3X10	1EM420633A
L9		DOUBLE SEMS SCREW M4X10 + BLK	FPH34100
L11		HEX SCREW #4-40 7MM	1EM430139
L19		S-TIGHT SCREW M3X6 BIND HEAD+BLACK	GBHS3060
LCD1		LCD MODULE 18.5INCH WIDE CMO 18.5INCH WXGA	UJ19MXA
SP801		SPEAKER S0307F03	DS08070XQ001
SP802		SPEAKER S0307F03	DS08070XQ001
X3301		THERMOSTAR TMS-L-2(12*12HC)	XK10000X4003
PACKING			
S4		SET BAG A81N0UH	1EM322872A

Ref. No.	Mark	Description	Part No.
S6		STAND BAG A81N0UH	1EM424597
ACCESSORIES			
X3	A	REMOTE CONTROL NH201RD	NH201RD
X3	B	REMOCON UNIT NH203RD	NH203RD
X4		BATTERY DRY R03REL/2PA	XB00M00MS001

Ref. No.	Mark	Description	Part No.
A6 	A	RATING LABEL A0CN0EP	-----
A6 	B	RATING LABEL A0CN1EP	-----
L1		SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L3		SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
L5		SCREW TAP TIGHT M3X10 BIND HEAD+BLK NI	GBHS3100
L9		DOUBLE SEMS SCREW M4X10 + BLK	FPH34100
PACKING			
S1	A	CARTON A0CN0EP	1EM431459A
S1	B	CARTON A0CN1EP	1EM431460
S2		STYROFOAM TOP A93N2EP	1EM024265
S3		STYROFOAM BOTTOM A93N2EP	1EM024266
S5		SERIAL NO. LABEL L9750UA	-----
ACCESSORIES			
X1		BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X2-1 		OWNERS MANUAL(WE-10) A0CN0EP	1EMN25761A
X2-2 		OWNERS MANUAL(PL-7) A0CN0EP	1EMN25762A
L17		STAND SCREW KIT A93N2EP	1ESA21092

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:

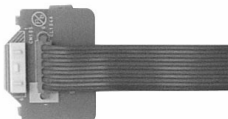

- Parts that are not assigned part numbers (-----) are not available.
- Tolerance of Capacitors and Resistors are noted with the following symbols.

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

For TYPE A and B products, two different connectors are used between MAIN CBA and FUNCTION CBA.

TYPE A connector can only be used for Type A MAIN CBA and FUNCTION CBA.

TYPE B connector can only be used for Type B MAIN CBA and FUNCTION CBA.

TYPE A (JUNCTION CBA is used.)	TYPE B (JUNCTION CBA is not used.)
	

Comparison Chart of Models and Marks

Model	Mark
LT850-M19 (TYPE A)	A
LT850-M19 (TYPE B)	B
LT851-M19 (TYPE A)	C
LT851-M19 (TYPE B)	D

DIGITAL MAIN CBA UNIT

Ref. No.	Description	Part No.
	DIGITAL MAIN CBA UNIT	A0CN0MMA-008

POWER ASSEMBLY

Ref. No.	Mark	Description	Part No.
	A B C D	POWER ASSEMBLY POWER ASSEMBLY POWER ASSEMBLY POWER ASSEMBLY Consists of the following:	A0CN0MPW-001 A0CN0MPW-002 A0CN1MPW-001 A0CN1MPW-002
	A, C	MAIN CBA FUNCTION CBA JUNCTION CBA	----- ----- -----

MAIN CBA

Ref. No.	Mark	Description	Part No.
		MAIN CBA Consists of the following:	-----
CAPACITORS			
C11		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C14		ELECTROLYTIC CAP. 100μF/10V M H7 or	CE1AMAVSL101
		CAP ELE 100μF/10V/M85 H7	CEB101KSN003
C15		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C16		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
C17		CHIP CERAMIC CAP.(1608) CH J 100pF/550V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/550V	CHD101EYA030
C18		ELECTROLYTIC CAP. 100μF/10V M H7 or	CE1AMAVSL101
		CAP ELE 100μF/10V/M85 H7	CEB101KSN003
C19		CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
C21		CHIP CERAMIC CAP.(1608) CH J 100pF/550V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/550V	CHD101EYA030
C22		CHIP CERAMIC CAP.(1608) CH J 100pF/550V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/550V	CHD101EYA030
C24		CHIP CERAMIC CAP. CH J 15pF/550V or	CHD1JJ3CH150
		CAP CHIP 1608 J/C0G/15pF/550V	CHD150EYA030
C152		CHIP CERAMIC CAP.(1608) CH J 1000pF/550V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001μF/50V	CHD102EYA030
C153		CHIP CERAMIC CAP.(1608) CH J 1000pF/550V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001μF/50V	CHD102EYA030
C154		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C155		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C301		ELECTROLYTIC CAP. 47μF/25V M or	CE1EMASDL470
		CAP ELE 47μF/25V/M85 or	CED470KSN001
		CAP ELE 47μF/25V/M85	CED470TEP001
C302		CHIP CERAMIC CAP.(1608) B K 0.1μF/16V	CHD1CK30B104
C303		CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C304		CHIP CERAMIC CAP.(1608) CH J 1000pF/550V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001μF/50V	CHD102EYA030
C313		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C314		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C315		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C316		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C317		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C319		ELECTROLYTIC CAP. 47μF/25V M or	CE1EMASDL470
		CAP ELE 47μF/25V/M85 or	CED470KSN001
		CAP ELE 47μF/25V/M85	CED470TEP001
C401		CHIP CERAMIC CAP.(1608) B K 1μF/10V or	CHD1AK30B105

Ref. No.	Mark	Description	Part No.
		CAP CHIP 1608 K/X5R/1μF/10V	CHD105EYA048
C406		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
C408		CHIP CERAMIC CAP.(1608) CH J 100pF/550V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/550V	CHD101EYA030
C409		CHIP CERAMIC CAP.(1608) CH J 100pF/550V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/550V	CHD101EYA030
C410		CHIP CERAMIC CAP.(1608) CH J 100pF/550V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/550V	CHD101EYA030
C418		CHIP CERAMIC CAP.(1608) CH J 100pF/550V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/550V	CHD101EYA030
C420		CHIP CERAMIC CAP.(1608) CH J 100pF/550V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/550V	CHD101EYA030
C422		ELECTROLYTIC CAP. 470μF/10V M or	CE1AMASDL471
		CAP ELE 470μF/10V/M/85 or	CEB471KSN001
		CAP ELE 470μF/10V/M/85	CEB471TEP001
C426		CHIP CERAMIC CAP.(1608) CH J 33pF/550V or	CHD1JJ3CH330
		CAP CHIP 1608 J/C0G/33pF/550V	CHD330EYA030
C428		CHIP CERAMIC CAP.(1608) CH J 33pF/550V or	CHD1JJ3CH330
		CAP CHIP 1608 J/C0G/33pF/550V	CHD330EYA030
C429		CHIP CERAMIC CAP.(1608) CH J 33pF/550V or	CHD1JJ3CH330
		CAP CHIP 1608 J/C0G/33pF/550V	CHD330EYA030
C430		ELECTROLYTIC CAP. 100μF/16V M or	CE1CMASDL101
		CAP ELE 100μF/16V/M/85 or	CEC101KSN001
		CAP ELE 100μF/16V/M/85	CEC101TEP001
C431		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C432		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1μF/50V	CHD104EYA036
C433		CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C434		CHIP CERAMIC CAP.(1608) CH J 33pF/550V or	CHD1JJ3CH330
		CAP CHIP 1608 J/C0G/33pF/550V	CHD330EYA030
C437		CHIP CERAMIC CAP. CH J 330pF/550V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/550V	CHD331EYA030
C438		CHIP CERAMIC CAP. CH J 330pF/550V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/550V	CHD331EYA030
C439		CHIP CERAMIC CAP. CH J 330pF/550V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/550V	CHD331EYA030
C440		CHIP CERAMIC CAP. CH J 330pF/550V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/550V	CHD331EYA030
C441		CHIP CERAMIC CAP. CH J 330pF/550V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/550V	CHD331EYA030
C442		CHIP CERAMIC CAP. CH J 330pF/550V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/550V	CHD331EYA030
C443		CHIP CERAMIC CAP. CH J 330pF/550V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/550V	CHD331EYA030
C444		CHIP CERAMIC CAP. CH J 330pF/550V or	CHD1JJ3CH331
		CAP CHIP 1608 J/C0G/330pF/550V	CHD331EYA030
C447		CHIP CERAMIC CAP.(1608) CH J 47pF/550V or	CHD1JJ3CH470
		CAP CHIP 1608 J/C0G/47pF/550V	CHD470EYA030
C448		CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
		CAP CHIP 1608 K/X7R/0.047μF/50V	CHD473EYA032

Ref. No.	Mark	Description	Part No.
C449		CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
		CAP CHIP 1608 K/X7R/0.047μF/50V	CHD473EYA032
C601	△	CAP METALIZED FILM 0.22μF/300V K 3.5MM or	CT2F224DC004
△		CAP METALIZED FILM MPX-224K27B15L3 or	CT2E224EUR01
△		CAP METALIZED FILM 0.22μF/310V /K/ LE-MX or	CTA2240DC001
△		CAP METALIZED FILM 0.22μF/275V/K	CTA224PKR001
C605		CAP ELECTROLYTIC 180μF/400V/M/22/40 or	CA2H181DYG17
		CAP ELE 180μF/400V M or	CA2H181NC205
		CAP ELE 85 180μF/400V M85_22X40	CEN181KSN009
C606		CERAMIC CAP. RB 220pF/52KV or	CA3D221TE006
		CERAMIC CAP. BN J 220pF/52KV or	CCD3DKA0B221
		CERAMIC CAP. 220pF/52KV or	CA3D221PAN04
		CERAMIC CAP. BL 220pF/52KV	CA3D221XF003
C607		POLYESTER FILM CAP. (PB FREE) 0.015μF/100V J or	CA2A153DT018
		CAP POLYESTER FILM 0.015μF/100V J or	CA2A153SER02
		CAP POLYESTER FILM 0.015μF/100V/J/ PCMT or	CTA153PKR003
		POLYESTER FILM CAP. 0.015μF/100V J	CMB153EUR001
C608		POLYESTER FILM CAP. (PB FREE) 0.0047μF/100V J or	CA2A472DT018
		CAP POLYESTER FILM 0.0047μF/100V J or	CA2A472SER02
		POLYESTER FILM CAP. 0.0047μF/100V J	CMB472EUR001
C609		POLYESTER FILM CAP. (PB FREE) 0.039μF/100V J or	CA2A393DT018
		CAP POLYESTER FILM 0.039μF/100V J or	CA2A393SER02
		CAP POLYESTER FILM 0.039μF/100V/J/ PCMT or	CTA393PKR003
		POLYESTER FILM CAP. 0.039μF/100V J	CMB393EUR001
C611	△	SAFTY CAP. 3300pF/5250V or	CCN2EMA0E332
△		SAFTY CAP. 3300pF/5250V KX or	CA2E332MR101
△		SAFETY CAP. 3300pF/5250V M	CCN2HMN0E332
C613		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
C614		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
C615		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		CAP ELE 1μF/50V/M/85 or	CEF1R0KSN001
		CAP ELE 1μF/50V/M/85	CEF1R0TEP001
C616		ELECTROLYTIC CAP. 1000μF/35V M or	CE1GMZNDL102
		CAP ELE 1000μF/35V/M/85 or	CEE102V8007
		CAP ELE 1000μF/35V/M/85 or	CEE102KSN002
		CAP ELE 1000μF/35V/M/85	CEE102TEP002
C618		ELECTROLYTIC CAP. 47μF/25V M or	CE1EMASDL470
		CAP ELE 47μF/25V/M/85 or	CED470KSN001
		CAP ELE 47μF/25V/M/85	CED470TEP001
C619		CAP ALUMINUM ELECTROLYTIC 2200μF/6.3V M or	CE0KMZNDL222
		ELECTROLYTIC CAP. 2200μF/6.3V M or	CE0KMZPDL222
		CAP ELE 2200μF/6.3V/M/85 or	CEA222KSN002
		CAP ELE 2200μF/6.3V/M/85	CEA222TEP002
C621		POLYESTER FILM CAP. (PB FREE) 0.0027μF/100V J or	CA2A272DT018
		CAP POLYESTER FILM 0.0027μF/100V J or	CA2A272SER02
		POLYESTER FILM CAP. 0.0027μF/100V J	CMB272EUR001
C622		ELECTROLYTIC CAP. 2.2μF/50V M or	CE1JMASDL2R2
		CAP ELE 2.2μF/50V/M/85 or	CEF2R2KSN001
		CAP ELE 2.2μF/50V/M/85	CEF2R2TEP001
C623		ELECTROLYTIC CAP. 1000μF/10V M or	CE1AMASDL102
		CAP ELE 1000μF/10V/M/85 or	CEB102KSN001

Ref. No.	Mark	Description	Part No.
		CAP ELE 1000µF/10V/M85	CEB102TEP001
C626		ELECTROLYTIC CAP. 100µF/10V M or	CE1AMASDL101
		CAP ELE 100µF/10V/M85 or	CEB101KSN001
		CAP ELE 100µF/10V/M85	CEB101TEP001
C628		ELECTROLYTIC CAP. 470µF/16V M or	CE1CMASDL471
		CAP ELE 470µF/16V/M85 or	CEC471KSN001
		CAP ELE 470µF/16V/M85	CEC471TEP001
C630		ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
		CAP ELE 10µF/50V/M85 or	CEF100KSN001
		CAP ELE 10µF/50V/M85	CEF100TEP001
C631		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C632		ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL1R0
		CAP ELE 1µF/50V/M85 or	CEF1R0KSN001
		CAP ELE 1µF/50V/M85	CEF1R0TEP001
C636		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C637		ELECTROLYTIC CAP. 470µF/10V M or	CE1AMASDL471
		CAP ELE 470µF/10V/M85 or	CEB471KSN001
		CAP ELE 470µF/10V/M85	CEB471TEP001
C638		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C639		ELECTROLYTIC CAP. 220µF/16V M or	CE1CMASDL221
		CAP ELE 220µF/16V/M85 or	CEC221KSN001
		CAP ELE 220µF/16V/M85	CEC221TEP001
C640		ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
		CAP ELE 10µF/50V/M85 or	CEF100KSN001
		CAP ELE 10µF/50V/M85	CEF100TEP001
C641		ELECTROLYTIC CAP. 100µF/10V M H7 or	CE1AMAVSL101
		CAP ELE 100µF/10V/M85 H7	CEB101KSN003
C643		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C644		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C646		CHIP CERAMIC CAP.(1608) B K 0.1µF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1µF/50V	CHD104EYA032
C801		CHIP CERAMIC CAP.(1608) CH J 1000pF/550V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001µF/50V	CHD102EYA030
C802		CHIP CERAMIC CAP.(1608) CH J 1000pF/550V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001µF/50V	CHD102EYA030
C803		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CAP CHIP 1608 Z/Y5V/0.1µF/50V	CHD104EYA036
C804		ELECTROLYTIC CAP. 220µF/25V M or	CE1EMASDL221
		CAP ELE 220µF/25V/M85 or	CED221KSN001
		CAP ELE 220µF/25V/M85	CED221TEP001
C805		ELECTROLYTIC CAP. 220µF/25V M or	CE1EMASDL221
		CAP ELE 220µF/25V/M85 or	CED221KSN001
		CAP ELE 220µF/25V/M85	CED221TEP001
C808		ELECTROLYTIC CAP. 470µF/25V M or	CE1EMASDL471
		CAP ELE 470µF/25V/M85 or	CED471KSN001
		CAP ELE 470µF/25V/M85	CED471TEP001
C809		CHIP CERAMIC CAP.(1608) B K 0.022µF/50V or	CHD1JK30B223
		CAP CHIP 1608 K/X7R/0.022µF/50V	CHD223EYA032
C810		CHIP CERAMIC CAP.(1608) B K 0.022µF/50V or	CHD1JK30B223
		CAP CHIP 1608 K/X7R/0.022µF/50V	CHD223EYA032
C811		CHIP CERAMIC CAP.(1608) B K 1µF/10V or	CHD1AK30B105
		CAP CHIP 1608 K/X5R/1µF/10V	CHD105EYA048
C812		ELECTROLYTIC CAP. 100µF/16V M or	CE1CMASDL101
		CAP ELE 100µF/16V/M85 or	CEC101KSN001

Ref. No.	Mark	Description	Part No.
		CAP ELE 100µF/16V/M85	CEC101TEP001
C813		CHIP CERAMIC CAP.(1608) B K 1µF/10V or	CHD1AK30B105
		CAP CHIP 1608 K/X5R/1µF/10V	CHD105EYA048
C815		CHIP CERAMIC CAP.(1608) CH J 100pF/550V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/550V	CHD101EYA030
C817		CHIP CERAMIC CAP.(1608) B K 1µF/10V or	CHD1AK30B105
		CAP CHIP 1608 K/X5R/1µF/10V	CHD105EYA048
C821		CHIP CERAMIC CAP.(1608) CH J 1000pF/550V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001µF/50V	CHD102EYA030
C822		CHIP CERAMIC CAP.(1608) CH J 1000pF/550V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001µF/50V	CHD102EYA030
C823		CHIP CERAMIC CAP.(1608) CH J 100pF/550V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/550V	CHD101EYA030
C824		CHIP CERAMIC CAP.(1608) CH J 100pF/550V or	CHD1JJ3CH101
		CAP CHIP 1608 J/C0G/100pF/550V	CHD101EYA030
C825		CHIP CERAMIC CAP.(1608) CH J 1000pF/550V or	CHD1JJ3CH102
		CAP CHIP 1608 J/C0G/0.001µF/50V	CHD102EYA030
C1001		CAP CERAMIC (AX) 2200pF/550V/B/K	CA1J222TU061
C1002		POLYESTER FILM CAP. (PB FREE) 0.022µF/100V J or	CA2A223DT018
		CAP POLYESTER FILM 0.022µF/100V J or	CA2A223SER02
		CAP POLYESTER FILM 0.022µF/100V/J/PCMT	CTA223PKR003
C1003		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01µF/50V	CHD103EYA032
C1004		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01µF/50V	CHD103EYA032
C1005		POLYESTER FILM CAP. (PB FREE) 0.022µF/100V J or	CA2A223DT018
		CAP POLYESTER FILM 0.022µF/100V J or	CA2A223SER02
		CAP POLYESTER FILM 0.022µF/100V/J/PCMT	CTA223PKR003
C1006		CAP CERAMIC HV 10pF/56.3KV/SL/J or	CCA1000MR001
		CAP CERAMIC HV 10pF/56.3KV/SL/J or	CCC1000MR007
		CAP CERAMIC HV 10pF/56KV/SL/J	CKK1000TE009
C1007		CAP CERAMIC (AX) 2200pF/550V/B/K	CA1J222TU061
C1008		CAP CERAMIC HV 10pF/56.3KV/SL/J or	CCA1000MR001
		CAP CERAMIC HV 10pF/56.3KV/SL/J or	CCC1000MR007
		CAP CERAMIC HV 10pF/56KV/SL/J	CKK1000TE009
C1009		ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
		CAP ELE 10µF/50V/M85 or	CEF100KSN001
		CAP ELE 10µF/50V/M85	CEF100TEP001
C1010		ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
		CAP ELE 10µF/50V/M85 or	CEF100KSN001
		CAP ELE 10µF/50V/M85	CEF100TEP001
C1011		ELECTROLYTIC CAP. 1000µF/35V M or	CE1GMZNDL102
		CAP ELE 1000µF/35V/M85 or	CEE1020V8007
		CAP ELE 1000µF/35V/M85 or	CEE102KSN002
		CAP ELE 1000µF/35V/M85	CEE102TEP002
C1012		CERAMIC CAP. B K 220pF/5500V	CCD2JKS0B221
C1014		CAP CERAMIC HV 10pF/56.3KV/SL/J or	CCA1000MR001
		CAP CERAMIC HV 10pF/56.3KV/SL/J or	CCC1000MR007
		CAP CERAMIC HV 10pF/56KV/SL/J	CKK1000TE009
C1015		CAP CERAMIC HV 10pF/56.3KV/SL/J or	CCA1000MR001
		CAP CERAMIC HV 10pF/56.3KV/SL/J or	CCC1000MR007
		CAP CERAMIC HV 10pF/56KV/SL/J	CKK1000TE009
C1016		CHIP CERAMIC CAP.(1608) B K 6800pF/550V or	CHD1JK30B682
		CAP CHIP 1608 K/X7R/0.0068µF/50V	CHD682EYA032
C1018		CHIP CERAMIC CAP.(1608) B K 0.1µF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1µF/50V	CHD104EYA032

Ref. No.	Mark	Description	Part No.
C1019		CERAMIC CAP. B K 220pF/5500V	CCD2JKS0B221
C1020		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1023		ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
		CAP ELE 10μF/50V/M/85 or	CEF100KSN001
		CAP ELE 10μF/50V/M/85	CEF100TEP001
C1024		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1025		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1026		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1027		ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
		CAP ELE 10μF/50V/M/85 or	CEF100KSN001
		CAP ELE 10μF/50V/M/85	CEF100TEP001
C1028		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1031		POLYESTER FILM CAP. (PB FREE) 0.0027μF/100V J or	CA2A272DT018
		CAP POLYESTER FILM 0.0027μF/100V J or	CA2A272SER02
		POLYESTER FILM CAP. 0.0027μF/100V J	CMB272EUR001
C1032		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1033		ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
		CAP ELE 10μF/50V/M/85 or	CEF100KSN001
		CAP ELE 10μF/50V/M/85	CEF100TEP001
C1034		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1035		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1037		CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C1038		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1039		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1040		CHIP CERAMIC CAP.(1608) B K 1μF/10V or	CHD1AK30B105
		CAP CHIP 1608 K/X5R/1μF/10V	CHD105EYA048
C1041		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CAP CHIP 1608 K/X7R/0.01μF/50V	CHD103EYA032
C1042		CHIP CERAMIC CAP.(1608) F Z 0.22μF/50V or	CHD1JZ30F224
		CAP CHIP 1608 Z/Y5V/0.22μF/50V	CHD224EYA036
C1043		CHIP CERAMIC CAP.(1608) B K 0.22μF/16V or	CHD1CK30B224
		CAP CHIP 1608 K/X5R/0.22μF/16V	CHD224EYA045
C1044		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1045		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1052		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1053		ELECTROLYTIC CAP. 100μF/25V M or	CE1EMASDL101
		CAP ELE 100μF/25V/M/85 or	CED101KSN001
		CAP ELE 100μF/25V/M/85	CED101TEP001
C1054		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
C1056		CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104

Ref. No.	Mark	Description	Part No.
		CAP CHIP 1608 K/X7R/0.1μF/50V	CHD104EYA032
CONNECTORS			
CN152	A, C	242 SERIES CONNECTOR 224202106W1	J322C06TG001
CN152	B, D	PH CONNECTOR TOP 6P B6B-PH-K-S (LF)(SN) or	J3PHC06JG029
	B, D	CONNECTOR PRINT OSU JS-1125-06(K) or	J3JT06CHY001
	B, D	CONNECTOR PRINT OSU C S 440054-6	J344C06AP001
CN301		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
CN302		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
CN303		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
CN401		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
CN404		FFC CONNECTOR IMSA-9615S-29A-PP-A or	JC96J29ER007
		CONNECTOR PRINT MES 00 6232 029 006 800+ or	JC62G29UG026
		CONNECTOR PRINT MES 29 S 1.0-11-29P	JC1129JSH001
CN801		PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN) or	J3PHC02JG029
		CONNECTOR PRINT OSU TOP 2P 440054-2 or	J344C02AP001
		CONNECTOR PRINT OSU JS-1125-02KK	J3JT02CHY002
CN802		PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN) or	J3PHC02JG029
		CONNECTOR PRINT OSU TOP 2P 440054-2 or	J344C02AP001
		CONNECTOR PRINT OSU JS-1125-02KK	J3JT02CHY002
CN1001	⚠	CONNECTOR PRINT OSU KW05-120-02-00	J30502KET001
CN1002	⚠	CONNECTOR PRINT OSU KW05-120-02-00	J30502KET001
DIODES			
D151		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D302		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
D404		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D405		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
D406		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D407		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
D408		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26

Ref. No.	Mark	Description	Part No.
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D409		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
D410		DIODE ZENER 3V9BSB-T26 or	NDTB3R9BST26
		DIODE ZENER HZS3.9NB2TE-EQ	QDTB0HZS3R9N
D413		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D425		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D426		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D427		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D501	△	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
△		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
△		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D502	△	DIODE ZENER 11BSB-T26 or	NDTB011BST26
△		DIODE ZENER HZS11NB2TE-EQ	QDTBHZS11NB2
D503		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D508		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D509		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D510		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D511		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D513		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D601		DIODE ZENER 22BSB-T26 or	NDTB022BST26
		DIODE ZENER HZS22NB2TE-EQ	QDTBHZS22NB2
D602	△	DIODE 1N5399BE	NDL1001N5399
D603		DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
		DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D604	△	DIODE 1N5399BE	NDL1001N5399
D605	△	DIODE 1N5399BE	NDL1001N5399
D606		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D607	△	DIODE 1N5399BE	NDL1001N5399
D608		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D609		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D610		DIODE ZENER 1ZB18BB or	NDWZ0001ZB18
		DIODE ZENER 1N4746A B0 18V	NDLZ01N4746A
D611		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
D612		DIODE FAST RECOVERY FR303BH or	NDWZ0FR303BH
		DIODE FAST RECOVERY FR303-B/P	NDWZ0FR303BP
D613		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D615		DIODE ZENER 16BSB-T26 or	NDTB016BST26

Ref. No.	Mark	Description	Part No.
		DIODE ZENER HZS16NB2TE-EQ	QDTBHZS16NB2
D616		SCHOTTKY BARRIER DIODE SB240-B/P	NDWZ000SB240
D617		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D618		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D619		DIODE FAST RECOVERY FR303BH or	NDWZ0FR303BH
		DIODE FAST RECOVERY FR303-B/P	NDWZ0FR303BP
D620		DIODE ZENER 22BSB-T26 or	NDTB022BST26
		DIODE ZENER HZS22NB2TE-EQ	QDTBHZS22NB2
D621		DIODE ZENER 6V2BSA-T26 or	NDTA6R2BST26
		DIODE ZENER HZS6.2NB1TE-EQ	QDTA0HZS6R2N
D622		SCHOTTKY BARRIER DIODE SB240-B/P	NDWZ000SB240
D623		DIODE ZENER 1ZB43BB or	NDWZ0001ZB43
		DIODE ZENER 1N4755A B0 43V	NDLZ01N4755A
D624		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D626		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D627		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D628		DIODE ZENER 4V7BSB-T26 or	NDTB4R7BST26
		DIODE ZENER HZS4.7NB2TE-EQ	QDTB0HZS4R7N
D629		DIODE ZENER 9V1BSB-T26 or	NDTB9R1BST26
		DIODE ZENER HZS9.1NB2TE-EQ	QDTB0HZS9R1N
D631		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D632		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D633		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D634		IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
		IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
		IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
D635		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D636		DIODE ZENER 24BSB-T26 or	NDTB024BST26
		DIODE ZENER HZS24NB2TE-EQ	QDTBHZS24NB2
D637		SCHOTTKY BARRIER DIODE SB270-B/P	NDWZ000SB270
D638		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D639		DIODE ZENER 12BSB-T26 or	NDTB012BST26
		DIODE ZENER HZS12NB2TE-EQ	QDTBHZS12NB2
D640		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D641		DIODE ZENER 6V8BSB-T26 or	NDTB6R8BST26
		DIODE ZENER HZS6.8NB2TE-EQ	QDTB0HZS6R8N
D642		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D643		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D644		IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036

Ref. No.	Mark	Description	Part No.
		IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
		IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
D645		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D646		DIODE ZENER 4V7BSB-T26 or	NDTB4R7BST26
		DIODE ZENER HZS4.7NB2TE-EQ	QDTB0HZS4R7N
D648		DIODE ZENER 12BSB-T26 or	NDTB012BST26
		DIODE ZENER HZS12NB2TE-EQ	QDTBHZS12NB2
D649		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D651		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D653		IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
		IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
		IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
D670		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D671		IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
		IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
		IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
D672		DIODE ZENER 12BSB-T26 or	NDTB012BST26
		DIODE ZENER HZS12NB2TE-EQ	QDTBHZS12NB2
D673		DIODE ZENER 12BSB-T26 or	NDTB012BST26
		DIODE ZENER HZS12NB2TE-EQ	QDTBHZS12NB2
D801		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D802		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D803		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D804		DIODE ZENER 8V2BSB-T26 or	NDTB8R2BST26
		DIODE ZENER HZS8.2NB2TE-EQ	QDTB0HZS8R2N
D805		DIODE ZENER 20BSB-T26 or	NDTB020BST26
		DIODE ZENER HZS20NB2TE-EQ	QDTBHZS20NB2
D806		DIODE ZENER 20BSB-T26 or	NDTB020BST26
		DIODE ZENER HZS20NB2TE-EQ	QDTBHZS20NB2
D1001		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1002		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1003		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1004		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1005		DIODE ZENER 6V2BSB-T26 or	NDTB6R2BST26
		DIODE ZENER HZS6.2NB2TE-EQ	QDTB0HZS6R2N
D1006		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1007		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1008		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1009		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133

Ref. No.	Mark	Description	Part No.
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1010		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1011		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1012		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1013		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1014		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1015		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1016		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1018		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
D1020		DIODE ZENER 5V1BSB-T26 or	NDTB5R1BST26
		DIODE ZENER HZS5.1NB2TE-EQ	QDTB0HZS5R1N
D1021		DIODE ZENER 15BSB-T26 or	NDTB015BST26
		DIODE ZENER HZS15NB2TE-EQ	QDTBHZS15NB2
D1022		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1023		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1024		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1025		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1026		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1027		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1028	△	DIODE ZENER 4V7BSB-T26 or	NDTB4R7BST26
△		DIODE ZENER HZS4.7NB2TE-EQ	QDTB0HZS4R7N
D1029		DIODE ZENER 16BSB-T26 or	NDTB016BST26
		DIODE ZENER HZS16NB2TE-EQ	QDTBHZS16NB2
D1030		DIODE ZENER 16BSB-T26 or	NDTB016BST26
		DIODE ZENER HZS16NB2TE-EQ	QDTBHZS16NB2
D1034		DIODE ZENER 9V1BSB-T26 or	NDTB9R1BST26
		DIODE ZENER HZS9.1NB2TE-EQ	QDTB0HZS9R1N
D1036		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F
D1038		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
D1045		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
		DIODE SWITCHING 1N4148-F0021	NDTZ01N4148F

Ref. No.	Mark	Description	Part No.
D1046		SWITCHING DIODE 1SS133(T-77) or	QDT2001SS133
		DIODE SWITCHING HSS4148TE-E or	QDT20HSS4148
		DIODE SWITCHING 1N4148-F0021	NDT201N4148F
ICS			
IC301		IC TL3472CDR or	NSZBA0TTY115
		IC MC34072L-S08-R	QSZBA0UTC01
IC605 Δ		PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV
IC801		AUDIO AMP IC TDA1517P/N3 112	NSCA0SNXP003
IC1001		IC PULSE-WIDTH-MODULATION CONT TL494CDR	NSCA0T0TY006
IC1002		IC OPERATIONNAL AMPLIFIER KIA358F-EL or	NSZBA0TJY030
		OPERATIONAL AMPLIFIERS AS358MTR-E1	NSZBA0TBCD02
COILS			
L10		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40FOXRC001
L11		INDUCTOR 10 μ H-K-5FT	LLARKBSTU100
L401		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40FOXRC001
L402		INDUCTOR 4.7 μ H-J-26T	LLAXJATTU4R7
L403		INDUCTOR 4.7 μ H-J-26T	LLAXJATTU4R7
L405		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40FOXRC001
L406		INDUCTOR 0.22 μ H-J-26T	LLAXJATTUR22
L407		INDUCTOR 0.22 μ H-J-26T	LLAXJATTUR22
L408		INDUCTOR 0.22 μ H-J-26T	LLAXJATTUR22
L601 Δ		COIL LINE FILTER JLB20108 or	LLEG020XB008
Δ		COIL LINE FILTER LCL-2027 18.0MH	LLEG02ZMEK001
TRANSISTORS			
Q10		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(T _{E2} F T) or	QGSY2SA1015F
		TRANSISTOR 2SA1015-GR(T _{E2} F T) or	QGS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q301		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	QGSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QGS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q302		TRANSISTOR 2SC2655-Y(T _{E6} F M)	QGSY2SC2655F
Q303		TRANSISTOR 2SA1020-Y(T _{E6} F M) or	QGSY2SA1020F
		TRANSISTOR KTA1281-Y-AT/P	NQVYKTA1281P
Q404		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(T _{E2} F T) or	QGSY2SA1015F
		TRANSISTOR 2SA1015-GR(T _{E2} F T) or	QGS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q601 Δ		FET 2SK3566(Q) or	QFWZ02SK3566
Δ		FET 2SK3566(Q M)	QFQZ9K3566QM
Q602		TRANSISTOR 2SC2120-Y(T _{E2} F T) or	QGSY2SC2120F
		TRANSISTOR 2SC2120-Q(T _{E2} F T) or	QGS02SC2120F

Ref. No.	Mark	Description	Part No.
		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
Q603		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	QGSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QGS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q604		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	QGSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QGS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q605		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	QGSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QGS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q606		NPN TRANSISTOR POWER 2SC4881F HFE MAX320 or	QQWZ2SC4881F
		TRANSISTOR(PB FREE) KTC2026-Y/P or	NQEYKTC2026P
		NPN TRANSISTOR STC403	NQEZ00STC403
Q607		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	QGSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QGS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q608		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	QGSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QGS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q609		TRANSISTOR 2SC2120-Y(T _{E2} F T) or	QGSY2SC2120F
		TRANSISTOR 2SC2120-O(T _{E2} F T) or	QGS02SC2120F
		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
Q610		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(T _{E2} F T) or	QGSY2SA1015F
		TRANSISTOR 2SA1015-GR(T _{E2} F T) or	QGS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M

Ref. No.	Mark	Description	Part No.
Q611		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
Q612		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(Te2 F T) or	QOSY2SA1015F
		TRANSISTOR 2SA1015-GR(Te2 F T) or	QOS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
Q613		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
		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	QOSY2SC1815F
Q614		TRANSISTOR 2SC1815-GR(Te2 F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
		TRANSISTOR 2SD400(F) or	QQUF002SD400
		TRANSISTOR 2SD400(E) or	QQUE002SD400
Q615		TRANSISTOR KTC3205-Y-AT/P or	NQSYKTC3205P
		NPN TRANSISTOR STD1862O-AT or	NQS00STD1862
		NPN TRANSISTOR STD1862Y-AT or	NQSY0STD1862
		TRANSISTOR KTC3205OAT	NQS00KTC3205
		NPN TRANSISTOR POWER 2SC4881F HFE MAX320 or	QQWZ2SC4881F
		TRANSISTOR(PB FREE) KTC2026-Y/P or	NQEYKTC2026P
		NPN TRANSISTOR STC403	NQEY00STC403
Q617		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(Te2 F T) or	QOSY2SA1015F
		TRANSISTOR 2SA1015-GR(Te2 F T) or	QOS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
Q801		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(Te2 F T) or	QOSY2SA1015F
		TRANSISTOR 2SA1015-GR(Te2 F T) or	QOS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
Q802		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QOS12SC1815F
Q802		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343

Ref. No.	Mark	Description	Part No.
Q1001		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
		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	QOSY2SC1815F
Q1002		TRANSISTOR 2SC1815-GR(Te2 F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
		TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
Q1003		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(Te2 F T) or	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QOS12SC1815F
		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 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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
Q1005		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QOS12SC1815F
Q1006		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
		FET MOS SMD TPC8214-H	QF2ZTPC8214H
		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
Q1007		TRANSISTOR 2SA1015-Y(Te2 F T) or	QOSY2SA1015F
		TRANSISTOR 2SA1015-GR(Te2 F T) or	QOS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
Q1008		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(Te2 F T) or	QOSY2SA1015F
		TRANSISTOR 2SA1015-GR(Te2 F T) or	QOS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q1009		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
Q1009		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(Te2 F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343

Ref. No.	Mark	Description	Part No.
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-Y(T _{E2} F T) or	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1010		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1011		TRANSISTOR 2SA950-O (T _{E2} F T) or	QOS002SA950F
		TRANSISTOR 2SA950-Y(T _{E2} F T) or	QOSY02SA950F
		TRANSISTOR (PB FREE) KTA1271-Y-AT/ P or	NQSYKTA1271P
		TRANSISTOR (PB FREE) KTA1271-O-AT/ P or	NQS0KTA1271P
		PNP TRANSISTOR 2SA1981Y-AT or	NQSY02SA1981
		PNP TRANSISTOR 2SA1981	NQS002SA1981
Q1012		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1014		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1015		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1016		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1017		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M

Ref. No.	Mark	Description	Part No.
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1018		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(T _{E2} F T) or	QOSY2SA1015F
		TRANSISTOR 2SA1015-GR(T _{E2} F T) or	QOS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q1019		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1023		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	QOSY2SC1815F
		TRANSISTOR 2SC1815-GR(T _{E2} F T) or	QOS12SC1815F
		NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
		NPN TRANSISTOR 2SC5343M Y	NQSY2SC5343M
Q1024		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(T _{E2} F T) or	QOSY2SA1015F
		TRANSISTOR 2SA1015-GR(T _{E2} F T) or	QOS12SA1015F
		PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
RESISTORS			
R10		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R11		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R12		RES CARBON FILM T 1/4W J 1.8k Ω or	RCX4182T1001
		RES CARBON FILM 1/4W J 1.8k Ω	RCX4182FS002
R15		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R16		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R18		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R21		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω or	RRXA750YF002
		RES CHIP 1608 1/10W J 75 Ω	RRJ750WAL002
R22		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R23		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R24		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R25		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R26		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R27		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R28		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R156		CHIP RES. 1/10W J 56k Ω or	RRXAJR5Z0563
		RES CHIP 1608 1/10W J 56k Ω or	RRXA563YF002
		RES CHIP 1608 1/10W J 56k Ω	RRJ563WAL002
R157		RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
		RES CARBON FILM 1/4W J 10 Ω	RCX4100FS002
R301		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R302		CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
		RES CHIP 1608 1/10W J 15k Ω or	RRXA153YF002
		RES CHIP 1608 1/10W J 15k Ω	RRJ153WAL002
R303		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R304		CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
		RES CHIP 1608 1/10W J 1.5k Ω or	RRXA152YF002
		RES CHIP 1608 1/10W J 1.5k Ω	RRJ152WAL002
R305		RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
		RES CARBON FILM 1/4W J 1k Ω	RCX4102FS002
R306		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω or	RRXA104YF002
		RES CHIP 1608 1/10W J 100k Ω	RRJ104WAL002
R307		CHIP RES. 1/10W J 1 Ω or	RRXAJR5Z01R0
		RES CHIP 1608 1/10W J 1 Ω or	RRXA1R0YF002
		RES CHIP 1608 1/10W J 1.0 Ω	RRJ1R0WAL002
R308		RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
		RES CARBON FILM 1/4W J 10 Ω	RCX4100FS002
R309		RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
		RES CARBON FILM 1/4W J 10 Ω	RCX4100FS002
R310		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R311		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R313		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R314		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R402		RES CARBON FILM T 1/4W J 470 Ω or	RCX4471T1001
		RES CARBON FILM 1/4W J 470 Ω	RCX4471FS002
R404		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R411		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R415		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R416		CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
		RES CHIP 1608 1/10W J 470 Ω or	RRXA471YF002
		RES CHIP 1608 1/10W J 470 Ω	RRJ471WAL002
R417		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R419		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R421		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R425		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R427		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R429		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R431		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R433		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R436		RES CARBON FILM T 1/4W J 560 Ω or	RCX4561T1001
		RES CARBON FILM 1/4W J 560 Ω	RCX4561FS002
R438		RES CARBON FILM T 1/4W J 560 Ω or	RCX4561T1001
		RES CARBON FILM 1/4W J 560 Ω	RCX4561FS002
R440		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω or	RRXA750YF002
		RES CHIP 1608 1/10W J 75 Ω	RRJ750WAL002
R441		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R442		RES CARBON FILM T 1/4W J 6.8k Ω or	RCX4682T1001
		RES CARBON FILM 1/4W J 6.8k Ω	RCX4682FS002
R443		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
		RES CHIP 1608 1/10W J 2.2k Ω or	RRXA222YF002
		RES CHIP 1608 1/10W J 2.2k Ω	RRJ222WAL002
R444		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω or	RRXA750YF002
		RES CHIP 1608 1/10W J 75 Ω	RRJ750WAL002
R445		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R446		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω or	RRXA750YF002
		RES CHIP 1608 1/10W J 75 Ω	RRJ750WAL002
R447		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R448		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω or	RRXA750YF002
		RES CHIP 1608 1/10W J 75 Ω	RRJ750WAL002
R449		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R451		WIRE CP STP-S-0.50 or	XZ40F0REN001

Ref. No.	Mark	Description	Part No.
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40FOXRC001
R452		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω	RCX4153FS002
R453		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω	RCX4153FS002
R454		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω	RCX4153FS002
R455		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω	RCX4153FS002
R456		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω	RCX4153FS002
R457		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω	RCX4153FS002
R458		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω	RCX4153FS002
R459		RES CARBON FILM T 1/4W J 15k Ω or	RCX4153T1001
		RES CARBON FILM 1/4W J 15k Ω	RCX4153FS002
R463		RES CARBON FILM T 1/4W J 470 Ω or	RCX4471T1001
		RES CARBON FILM 1/4W J 470 Ω	RCX4471FS002
R464		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R467		CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
		RES CHIP 1608 1/10W J 1.2k Ω or	RRXA122YF002
		RES CHIP 1608 1/10W J 1.2k Ω	RRJ122WAL002
R468		CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
		RES CHIP 1608 1/10W J 1.2k Ω or	RRXA122YF002
		RES CHIP 1608 1/10W J 1.2k Ω	RRJ122WAL002
R469		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R470		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R471		RES CARBON FILM T 1/4W J 47k Ω or	RCX4473T1001
		RES CARBON FILM 1/4W J 47k Ω	RCX4473FS002
R475		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R476		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40FOXRC001
R477		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40FOXRC001
R480		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R481		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R482		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R483		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R484		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R485		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002

Ref. No.	Mark	Description	Part No.
R486		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R487		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R501 Δ		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
Δ		RES CHIP 1608 1/10W J 2.2k Ω or	RRXA222YF002
Δ		RES CHIP 1608 1/10W J 2.2k Ω	RRJ222WAL002
R601 Δ		GLASS GLAZE RES. 1/2W J 3.3M Ω or	RRX2JZLZ0335
Δ		RES. CARBON FILM J 1/2W J 3.3M Ω	RCX2335T1003
R602 Δ		CEMENT RESISTOR 5W K 2.7 Ω or	RW052R7PAK10
Δ		CEMENT RES. 5W K 2.7 Ω	RW052R7PG001
R604		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
R605		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
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 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
R610		RES CARBON FILM T 1/4W J 390 Ω or	RCX4391T1001
		RES CARBON FILM 1/4W J 390 Ω	RCX4391FS002
R611		RES CARBON FILM T 1/4W J 390 Ω or	RCX4391T1001
		RES CARBON FILM 1/4W J 390 Ω	RCX4391FS002
R612		RES CARBON FILM T 1/4W J 330 Ω or	RCX4331T1001
		RES CARBON FILM 1/4W J 330 Ω	RCX4331FS002
R613		RES CARBON FILM T 1/4W J 1.5k Ω or	RCX4152T1001
		RES CARBON FILM 1/4W J 1.5k Ω	RCX4152FS002
R614		METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68ZU001
R615		RES CARBON FILM T 1/4W J 150 Ω or	RCX4151T1001
		RES CARBON FILM 1/4W J 150 Ω	RCX4151FS002
R616		RES CARBON FILM T 1/4W J 2.2k Ω or	RCX4222T1001
		RES CARBON FILM 1/4W J 2.2k Ω	RCX4222FS002
R617		RES CARBON FILM T 1/4W J 270 Ω or	RCX4271T1001
		RES CARBON FILM 1/4W J 270 Ω	RCX4271FS002
R619		RES CARBON FILM T 1/4W J 1.8k Ω or	RCX4182T1001
		RES CARBON FILM 1/4W J 1.8k Ω	RCX4182FS002
R620		RES CARBON FILM T 1/4W J 1.8k Ω or	RCX4182T1001
		RES CARBON FILM 1/4W J 1.8k Ω	RCX4182FS002
R625		CHIP RES. 1/10W F 680 Ω or	RRXAFR5H6800
		RES CHIP 1608 1/10W F 680 Ω or	RRXAFR5Z6800
		RES CHIP 1608 1/10W F 680 Ω	RTW6800YF002
R626		CHIP RES. 1/10W F 680 Ω or	RRXAFR5H6800
		RES CHIP 1608 1/10W F 680 Ω or	RRXAFR5Z6800
		RES CHIP 1608 1/10W F 680 Ω	RTW6800YF002
R627		CHIP RES. 1/10W F 680 Ω or	RRXAFR5H6800
		RES CHIP 1608 1/10W F 680 Ω or	RRXAFR5Z6800
		RES CHIP 1608 1/10W F 680 Ω	RTW6800YF002
R628		CHIP RES. 1/10W F 680 Ω or	RRXAFR5H6800
		RES CHIP 1608 1/10W F 680 Ω or	RRXAFR5Z6800
		RES CHIP 1608 1/10W F 680 Ω	RTW6800YF002
R629		CHIP RES. 1/10W F 470 Ω or	RRXAFR5H4700
		RES CHIP 1608 1/10W F 470 Ω or	RRXAFR5Z4700
		RES CHIP 1608 1/10W F 470 Ω	RTW4700YF002
R630		CHIP RES. 1/10W F 4.7k Ω or	RRXAFR5H4701
		RES CHIP 1608 1/10W F 4.7k Ω or	RRXAFR5Z4701
		RES CHIP 1608 1/10W F 4.7k Ω	RTW4701YF002
R635		RES CARBON FILM T 1/4W J 68 Ω or	RCX4680T1001
		RES CARBON FILM 1/4W J 68 Ω	RCX4680FS002
R636		RES CARBON FILM T 1/4W J 270 Ω or	RCX4271T1001
		RES CARBON FILM 1/4W J 270 Ω	RCX4271FS002
R637		RES CARBON FILM T 1/4W J 2.7k Ω or	RCX4272T1001

Ref. No.	Mark	Description	Part No.
		RES CARBON FILM 1/4W J 2.7k Ω	RCX4272FS002
R638		WIRE CP STP-S-0.50 or	XZ40FOREN001
		WIRE CP STP-S-0.60 or	XZ40FOREN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R639		RES CARBON FILM T 1/4W J 270 Ω or	RCX4271T1001
		RES CARBON FILM 1/4W J 270 Ω	RCX4271FS002
R640		RES CARBON FILM T 1/4W J 100 Ω or	RCX4101T1001
		RES CARBON FILM 1/4W J 100 Ω	RCX4101FS002
R641		RES CARBON FILM T 1/4W J 18 Ω or	RCX4180T1001
		RES CARBON FILM 1/4W J 18 Ω	RCX4180FS002
R642		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
R643		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
R644		RES CARBON FILM T 1/4W J 8.2k Ω or	RCX4822T1001
		RES CARBON FILM 1/4W J 8.2k Ω	RCX4822FS002
R646		RES CARBON FILM T 1/4W J 18k Ω or	RCX4183T1001
		RES CARBON FILM 1/4W J 18k Ω	RCX4183FS002
R648		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R649		CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
		RES CHIP 1608 1/10W J 4.7k Ω or	RRXA472YF002
		RES CHIP 1608 1/10W J 4.7k Ω	RRJ472WAL002
R650		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω or	RRXA104YF002
		RES CHIP 1608 1/10W J 100k Ω	RRJ104WAL002
R652		RES CARBON FILM T 1/4W J 1.8k Ω or	RCX4182T1001
		RES CARBON FILM 1/4W J 1.8k Ω	RCX4182FS002
R654		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R655		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R656		RES CARBON FILM T 1/4W J 5.6k Ω or	RCX4562T1001
		RES CARBON FILM 1/4W J 5.6k Ω	RCX4562FS002
R657		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R658		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω or	RRXA473YF002
		RES CHIP 1608 1/10W J 47k Ω	RRJ473WAL002
R659		RES CARBON FILM T 1/4W J 2.7k Ω or	RCX4272T1001
		RES CARBON FILM 1/4W J 2.7k Ω	RCX4272FS002
R660		RES CARBON FILM T 1/4W J 1.8k Ω or	RCX4182T1001
		RES CARBON FILM 1/4W J 1.8k Ω	RCX4182FS002
R661		RES CARBON FILM T 1/4W J 470 Ω or	RCX4471T1001
		RES CARBON FILM 1/4W J 470 Ω	RCX4471FS002
R663		METAL OXIDE FILM RES. 2W J 3.9 Ω	RN023R9ZU001
R665		RES CARBON FILM T 1/4W J 100 Ω or	RCX4101T1001
		RES CARBON FILM 1/4W J 100 Ω	RCX4101FS002
R666		CHIP RES. 1/10W F 12k Ω or	RRXAFR5H1202
		CHIP RES.(1608) 1/10W F 12k Ω or	RRXAFR5Z1202
		RES CHIP 1608 1/10W F 12.0k Ω	RTW1202YF002
R667		CHIP RES. 1/10W F 620 Ω or	RRXAFR5H6200
		CHIP RES. 1/10W F 620 Ω or	RRXAFR5Z6200
		RES CHIP 1608 1/10W F 620 Ω	RTW6200YF002
R668		CHIP RES. 1/10W F 3k Ω or	RRXAFR5H3001
		CHIP RES. 1/10W F 3.0k Ω or	RRXAFR5Z3001
		RES CHIP 1608 1/10W F 3.00k Ω	RTW3001YF002
R669		RES CARBON FILM T 1/4W J 2.7k Ω or	RCX4272T1001
		RES CARBON FILM 1/4W J 2.7k Ω	RCX4272FS002
R670		RES CARBON FILM T 1/4W J 8.2k Ω or	RCX4822T1001

Ref. No.	Mark	Description	Part No.
		RES CARBON FILM 1/4W J 8.2k Ω	RCX4822FS002
R671		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R672		CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
		RES CHIP 1608 1/10W J 27k Ω or	RRXA273YF002
		RES CHIP 1608 1/10W J 27k Ω	RRJ273WAL002
R673		CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
		RES CHIP 1608 1/10W J 3.3k Ω or	RRXA332YF002
		RES CHIP 1608 1/10W J 3.3k Ω	RRJ332WAL002
R674		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R675		RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
		RES CARBON FILM 1/4W J 10 Ω	RCX4100FS002
R676		RES CARBON FILM T 1/4W J 150 Ω or	RCX4151T1001
		RES CARBON FILM 1/4W J 150 Ω	RCX4151FS002
R677		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
R678		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
R680		RES CARBON FILM T 1/4W J 2.7k Ω or	RCX4272T1001
		RES CARBON FILM 1/4W J 2.7k Ω	RCX4272FS002
R681		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R682		RES CARBON FILM T 1/4W J 270 Ω or	RCX4271T1001
		RES CARBON FILM 1/4W J 270 Ω	RCX4271FS002
R683		CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5H5601
		CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5Z0562
		RES CHIP 1608 1/10W F 5.60k Ω	RTW5601YF002
R684		RES CARBON FILM T 1/4W J 22 Ω or	RCX4220T1001
		RES CARBON FILM 1/4W J 22 Ω	RCX4220FS002
R685		RES CARBON FILM T 1/4W J 22 Ω or	RCX4220T1001
		RES CARBON FILM 1/4W J 22 Ω	RCX4220FS002
R686		RES CARBON FILM T 1/4W J 470 Ω or	RCX4471T1001
		RES CARBON FILM 1/4W J 470 Ω	RCX4471FS002
R687		CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5H5601
		CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5Z0562
		RES CHIP 1608 1/10W F 5.60k Ω	RTW5601YF002
R688		CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
		RES CHIP 1608 1/10W J 6.8k Ω or	RRXA682YF002
		RES CHIP 1608 1/10W J 6.8k Ω	RRJ682WAL002
R689		RES CARBON FILM T 1/4W J 22 Ω or	RCX4220T1001
		RES CARBON FILM 1/4W J 22 Ω	RCX4220FS002
R690		RES CARBON FILM T 1/4W J 150 Ω or	RCX4151T1001
		RES CARBON FILM 1/4W J 150 Ω	RCX4151FS002
R691		RES CARBON FILM T 1/4W J 150 Ω or	RCX4151T1001
		RES CARBON FILM 1/4W J 150 Ω	RCX4151FS002
R694		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
R695		CHIP RES. 1/10W J 43k Ω or	RRXAJR5Z0433
		RES CHIP 1608 1/10W J 43k Ω or	RRXA433YF002
		RES CHIP 1608 1/10W J 43k Ω	RRJ433WAL002
R697		METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68ZU001
R801		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R802		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
		RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R803		CHIP RES. 1/10W J 8.2 Ω or	RRXAJR5Z08R2
		RES CHIP 1608 1/10W J 8.2 Ω or	RRXA8R2YF002
		RES CHIP 1608 1/10W J 8.2 Ω	RRJ8R2WAL002

Ref. No.	Mark	Description	Part No.
R804		CHIP RES. 1/10W J 8.2 Ω or	RRXAJR5Z08R2
		RES CHIP 1608 1/10W J 8.2 Ω or	RRXA8R2YF002
		RES CHIP 1608 1/10W J 8.2 Ω	RRJ8R2WAL002
R805		METAL OXIDE FILM RES. 2W J 1.5 Ω	RN021R5ZU001
R806		METAL OXIDE FILM RES. 2W J 1.5 Ω	RN021R5ZU001
R807		CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
		RES CHIP 1608 1/10W J 27k Ω or	RRXA273YF002
		RES CHIP 1608 1/10W J 27k Ω	RRJ273WAL002
R808		CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
		RES CHIP 1608 1/10W J 12k Ω or	RRXA123YF002
		RES CHIP 1608 1/10W J 12k Ω	RRJ123WAL002
R809		CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
		RES CHIP 1608 1/10W J 560 Ω or	RRXA561YF002
		RES CHIP 1608 1/10W J 560 Ω	RRJ561WAL002
R810		CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
		RES CHIP 1608 1/10W J 2.7k Ω or	RRXA272YF002
		RES CHIP 1608 1/10W J 2.7k Ω	RRJ272WAL002
R811		CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
		RES CHIP 1608 1/10W J 560 Ω or	RRXA561YF002
		RES CHIP 1608 1/10W J 560 Ω	RRJ561WAL002
R812		CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
		RES CHIP 1608 1/10W J 2.7k Ω or	RRXA272YF002
		RES CHIP 1608 1/10W J 2.7k Ω	RRJ272WAL002
R813		CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
		RES CHIP 1608 1/10W J 4.7k Ω or	RRXA472YF002
		RES CHIP 1608 1/10W J 4.7k Ω	RRJ472WAL002
R815		CHIP RES. 1/10W J 680 Ω or	RRXAJR5Z0681
		RES CHIP 1608 1/10W J 680 Ω or	RRXA681YF002
		RES CHIP 1608 1/10W J 680 Ω	RRJ681WAL002
R816		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R817		CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
		RES CHIP 1608 1/10W J 470 Ω or	RRXA471YF002
		RES CHIP 1608 1/10W J 470 Ω	RRJ471WAL002
R818		CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
		RES CHIP 1608 1/10W J 470 Ω or	RRXA471YF002
		RES CHIP 1608 1/10W J 470 Ω	RRJ471WAL002
R819		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
		RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R820		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
		RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R823		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω or	RRXA104YF002
		RES CHIP 1608 1/10W J 100k Ω	RRJ104WAL002
R831		CHIP RES. 1/10W J 22 Ω or	RRXAJR5Z0220
		RES CHIP 1608 1/10W J 22 Ω or	RRXA220YF002
		RES CHIP 1608 1/10W J 22 Ω	RRJ220WAL002
R1001		RES CARBON FILM T 1/4W J 2.2k Ω or	RCX4222T1001
		RES CARBON FILM 1/4W J 2.2k Ω	RCX4222FS002
R1002		RES CARBON FILM T 1/4W J 180 Ω or	RCX4181T1001
		RES CARBON FILM 1/4W J 180 Ω	RCX4181FS002
R1003		RES CARBON FILM T 1/4W J 2.2k Ω or	RCX4222T1001
		RES CARBON FILM 1/4W J 2.2k Ω	RCX4222FS002
R1004		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R1005		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
		RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R1006		RES CARBON FILM T 1/4W J 180 Ω or	RCX4181T1001
		RES CARBON FILM 1/4W J 180 Ω	RCX4181FS002
R1007		RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
		RES CARBON FILM 1/4W J 10 Ω	RCX4100FS002
R1008		RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001

Ref. No.	Mark	Description	Part No.
		RES CARBON FILM 1/4W J 12k Ω	RCX4123FS002
R1010		RES CARBON FILM T 1/4W J 10 Ω or	RCX4100T1001
		RES CARBON FILM 1/4W J 10 Ω	RCX4100FS002
R1011		CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
		RES CHIP 1608 1/10W J 12k Ω or	RRXA123YF002
		RES CHIP 1608 1/10W J 12k Ω	RRJ123WAL002
R1012		RES CARBON FILM T 1/4W J 27k Ω or	RCX4273T1001
		RES CARBON FILM 1/4W J 27k Ω	RCX4273FS002
R1013		RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
		RES CARBON FILM 1/4W J 12k Ω	RCX4123FS002
R1014		RES CARBON FILM T 1/4W J 27k Ω or	RCX4273T1001
		RES CARBON FILM 1/4W J 27k Ω	RCX4273FS002
R1015		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R1017		RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
		RES CARBON FILM 1/4W J 12k Ω	RCX4123FS002
R1018		CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
		RES CHIP 1608 1/10W J 390 Ω or	RRXA391YF002
		RES CHIP 1608 1/10W J 390 Ω	RRJ391WAL002
R1019		CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
		RES CHIP 1608 1/10W J 390 Ω or	RRXA391YF002
		RES CHIP 1608 1/10W J 390 Ω	RRJ391WAL002
R1020		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
		RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R1022		CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
		RES CHIP 1608 1/10W J 33k Ω or	RRXA333YF002
		RES CHIP 1608 1/10W J 33k Ω	RRJ333WAL002
R1023		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R1024		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
R1025		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R1026		RES CARBON FILM T 1/4W J 10k Ω or	RCX4103T1001
		RES CARBON FILM 1/4W J 10k Ω	RCX4103FS002
R1027		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R1028		CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
		RES CHIP 1608 1/10W J 33k Ω or	RRXA333YF002
		RES CHIP 1608 1/10W J 33k Ω	RRJ333WAL002
R1029		RES CARBON FILM T 1/4W J 1.8k Ω or	RCX4182T1001
		RES CARBON FILM 1/4W J 1.8k Ω	RCX4182FS002
R1030		RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
		RES CARBON FILM 1/4W J 12k Ω	RCX4123FS002
R1031		RES CARBON FILM T 1/4W J 4.7k Ω or	RCX4472T1001
		RES CARBON FILM 1/4W J 4.7k Ω	RCX4472FS002
R1032	△	METAL OXIDE FILM RES. 2W J 0.33 Ω	RN02R33ZU001
R1035		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
R1036		CHIP RES. 1/10W F 15k Ω or	RRXAFR5H1502
		CHIP RES. 1/10W F 15k Ω or	RRXAFR5Z1502
		RES CHIP 1608 1/10W F 15.0k Ω	RTW1502YF002
R1037		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R1038		CHIP RES. 1/10W J 240k Ω or	RRXAJR5Z0244
		RES CHIP 1608 1/10W J 240k Ω or	RRXA244YF002
		RES CHIP 1608 1/10W J 240k Ω	RRJ244WAL002
R1039		CHIP RES. 1/10W F 68k Ω or	RRXAFR5H6802
		CHIP RES. 1/10W F 68k Ω or	RRXAFR5Z6802

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W F 68.0k Ω	RTW6802YF002
R1040		CHIP RES. 1/10W F 6.2k Ω or	RRXAFR5H6201
		CHIP RES.(1608) 1/10W F 6.2k Ω or	RRXAFR5Z6201
		RES CHIP 1608 1/10W F 6.20k Ω	RTW6201YF002
R1041		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
R1042		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
		RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R1043		CHIP RES. 1/10W F 5.1k Ω or	RRXAFR5H5101
		CHIP RES. 1/10W F 5.1k Ω or	RRXAFR5Z0512
		RES CHIP 1608 1/10W F 5.10k Ω	RTW5101YF002
R1044		RES CARBON FILM T 1/4W G 5.1k Ω	RCX4512T1002
R1045		CHIP RES. 1/10W J 240k Ω or	RRXAJR5Z0244
		RES CHIP 1608 1/10W J 240k Ω or	RRXA244YF002
		RES CHIP 1608 1/10W J 240k Ω	RRJ244WAL002
R1046		CHIP RES. 1/10W J 24k Ω or	RRXAJR5Z0243
		RES CHIP 1608 1/10W J 24k Ω or	RRXA243YF002
		RES CHIP 1608 1/10W J 24k Ω	RRJ243WAL002
R1048		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω or	RRXA223YF002
		RES CHIP 1608 1/10W J 22k Ω	RRJ223WAL002
R1049		RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
		RES CARBON FILM 1/4W J 12k Ω	RCX4123FS002
R1052		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
R1054		CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5H5601
		CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5Z0562
		RES CHIP 1608 1/10W F 5.60k Ω	RTW5601YF002
R1055		CHIP RES. 1/10W F 51.0 k Ω or	RRXAFR5H5102
		CHIP RES.(1608) 1/10W F 51k Ω or	RRXAFR5Z5102
		RES CHIP 1608 1/10W F 51.0k Ω	RTW5102YF002
R1056		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
R1058		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
R1059		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
R1060		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R1061		CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
		RES CHIP 1608 1/10W J 33k Ω or	RRXA333YF002
		RES CHIP 1608 1/10W J 33k Ω	RRJ333WAL002
R1065		RES CARBON FILM T 1/4W J 2.7k Ω or	RCX4272T1001
		RES CARBON FILM 1/4W J 2.7k Ω	RCX4272FS002
R1066		RES CARBON FILM T 1/4W J 2.7k Ω or	RCX4272T1001
		RES CARBON FILM 1/4W J 2.7k Ω	RCX4272FS002
R1067		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
		RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R1068		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
		RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R1069		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
		RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R1070		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
		RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R1071		CHIP RES. 1/10W F 4.3k Ω or	RRXAFR5H4301
		CHIP RES.(1608) 1/10W F 4.3k Ω or	RRXAFR5Z4301

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W F 4.30k Ω	RTW4301YF002
R1072		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R1073		CHIP RES. 1/10W F 1.2k Ω or	RRXAFR5H1201
		CHIP RES.(1608) 1/10W F 1.2k Ω or	RRXAFR5Z1201
		RES CHIP 1608 1/10W F 1.20k Ω	RTW1201YF002
R1074		RES CARBON FILM T 1/4W J 100k Ω or	RCX4104T1001
		RES CARBON FILM 1/4W J 100k Ω	RCX4104FS002
R1081		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
R1082		CHIP RES. 1/10W F 68k Ω or	RRXAFR5H6802
		CHIP RES. 1/10W F 68k Ω or	RRXAFR5Z6802
		RES CHIP 1608 1/10W F 68.0k Ω	RTW6802YF002
R1083		CHIP RES. 1/10W F 1M Ω or	RRXAFR5H1004
		CHIP RES. 1/10W F 1M Ω or	RRXAFR5Z1004
		RES CHIP 1608 1/10W F 1.00M Ω	RTW1004YF002
R1084		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω or	RRXA104YF002
		RES CHIP 1608 1/10W J 100k Ω	RRJ104WAL002
R1086		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
R1087		CHIP RES. 1/10W F 68k Ω or	RRXAFR5H6802
		CHIP RES. 1/10W F 68k Ω or	RRXAFR5Z6802
		RES CHIP 1608 1/10W F 68.0k Ω	RTW6802YF002
R1088		CHIP RES. 1/10W F 1M Ω or	RRXAFR5H1004
		CHIP RES. 1/10W F 1M Ω or	RRXAFR5Z1004
		RES CHIP 1608 1/10W F 1.00M Ω	RTW1004YF002
R1089		CHIP RES. 1/10W F 12k Ω or	RRXAFR5H1202
		CHIP RES.(1608) 1/10W F 12k Ω or	RRXAFR5Z1202
		RES CHIP 1608 1/10W F 12.0k Ω	RTW1202YF002
R1090		CHIP RES. 1/10W F 47.0 k Ω or	RRXAFR5H4702
		CHIP RES.(1608) 1/10W F 47k Ω or	RRXAFR5Z4702
		RES CHIP 1608 1/10W F 47.0k Ω	RTW4702YF002
R1091		RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
		RES CARBON FILM 1/4W J 12k Ω	RCX4123FS002
R1092		RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
		RES CARBON FILM 1/4W J 12k Ω	RCX4123FS002
R1093		RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
		RES CARBON FILM 1/4W J 12k Ω	RCX4123FS002
R1094		RES CARBON FILM T 1/4W J 12k Ω or	RCX4123T1001
		RES CARBON FILM 1/4W J 12k Ω	RCX4123FS002
R1095		RES CARBON FILM T 1/4W J 1.2k Ω or	RCX4122T1001
		RES CARBON FILM 1/4W J 1.2k Ω	RCX4122FS002
R1099		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R1100		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R1105		CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
		RES CHIP 1608 1/10W J 3.3k Ω or	RRXA332YF002
		RES CHIP 1608 1/10W J 3.3k Ω	RRJ332WAL002
R1106		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R1107		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R1108		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R1109		CHIP RES. 1/10W F 2.2k Ω or	RRXAFR5H2201

Ref. No.	Mark	Description	Part No.
		CHIP RES.(1608) 1/10W F 2.2k Ω or	RRXAFR5Z2201
		RES CHIP 1608 1/10W F 2.20k Ω	RTW2201YF002
R1110		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R1111		RES CARBON FILM T 1/4W J 10k Ω or	RCX4103T1001
		RES CARBON FILM 1/4W J 10k Ω	RCX4103FS002
R1112		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R1117		WIRE CP STP-S-0.50 or	XZ40F0REN001
		WIRE CP STP-S-0.60 or	XZ40F0REN002
		WIRE CP 6113-05603-0220 or	XZ40F0SHG001
		WIRE CP CP0.56	XZ40F0XRC001
R1118		RES CARBON FILM T 1/4W J 1.2 Ω or	RCX41R2T1001
		RES CARBON FILM 1/4W J 1.2 Ω	RCX41R2FS002
R1119		CHIP RES. 1/10W J 390k Ω or	RRXAJR5Z0394
		RES CHIP 1608 1/10W J 390k Ω or	RRXA394YF002
		RES CHIP 1608 1/10W J 390k Ω	RRJ394WAL002
R1120		CHIP RES. 1/10W J 390k Ω or	RRXAJR5Z0394
		RES CHIP 1608 1/10W J 390k Ω or	RRXA394YF002
		RES CHIP 1608 1/10W J 390k Ω	RRJ394WAL002
R1121		CHIP RES. 1/10W J 390k Ω or	RRXAJR5Z0394
		RES CHIP 1608 1/10W J 390k Ω or	RRXA394YF002
		RES CHIP 1608 1/10W J 390k Ω	RRJ394WAL002
R1122		CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
		RES CHIP 1608 1/10W J 33k Ω or	RRXA333YF002
		RES CHIP 1608 1/10W J 33k Ω	RRJ333WAL002
R1123		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
		RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
SWITCH			
SW601		SWITCH POWER AJ7222BF	SPEVBA0MS001
MISCELLANEOUS			
AC601△	A	AC CORD W/O A GND WIRE CEE/ 1760MM/NO/BLACK or	WAE1720LW001
△	A	AC CORD W/O A GND WIRE CEE/ 1760MM/NO/BLACK	WAE172ZHN001
AC601△	B	CORD W/O A GND WIRE CEE/1760MM/ NO/WHITE or	WAE1720LW002
△	B	AC CORD W/O A GND WIRE CEE/ 1760MM/NO/WHITE	WAE172ZHN002
B12		MODULE HEAT SINK PMC P7150UT	1EM423968
B13		HEAT SINK PMU A8A70UH	1EM324377
B21		HEAT SINK PMT ASSEMBLY A8C70EP	1EM426357A
BC401		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC601		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC602		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
F601△		FUSE 4A/250V(PB FREE) 0215004.MXP	PBG220BAG021
FH601		FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH602		FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
JK401		JACK HPEP SML PCB S PJ-358H or	JXSJ020YUQ01
		JACK HPEP SML PCB S 02 MSJ-035- 29D (ABS)	JXSJ020LY001
JK402		JACK SW DIN PCB S 04/DIN-417HA-01 or	JYEJ040YUQ03
		JACK SW DIN PCB S 04 MDC-076H-A LF	JYEJ040LY002
JK403		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
JK404		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
JK405		JACK SW RCA PCB S RED RCA- 102H(RD) or	JYRJ010YUQ03

Ref. No.	Mark	Description	Part No.
		JACK SW RCA PCB S(RED) 01 MTJ-032- 04A-75 FE	JYRJ010LY031
JK406		JACK SE HPEP SML PCM S MSJ-035- 04A LF or	JYSJ020LY002
		JACK SW HPEP SML PCB S PJ-362H-7	JYSJ020YUQ02
JK407		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
JK408		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
JK409		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
JK411		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
JK412		JACK SW RCA PCB S RED RCA- 102H(RD) or	JYRJ010YUQ03
		JACK SW RCA PCB S(RED) 01 MTJ-032- 04A-75 FE	JYRJ010LY031
JK413		JACK RGB PCB S 01/RGB-11HS	JXGJ21YUQ001
JS611		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
L13		SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
SA601△		SURGE ABSORBER 470V+-10PER or	NVQZ10D471KB
△		VARIATOR 10D 471K SVR or	NVQZVR10D471
△		VARIATOR/Q TVR10471KS42Y	NVQKTVR10471
T601△		TRANS POWER BCK-28-9901 or	LTT2PEOXB061
△		TRANS POWER BCK-28BH	LTT2PEMEK018
TM601		EYELET TYPE D-1	0VM406868
TM602		EYELET TYPE D-1	0VM406868
T1002△		TRANS INVERTER HVT-160 or	LTZ3PZ0XB014
△		TRANS INVERTER TK.7611A.101 or	LTZ3PZDAR009
△		INVERTER TRANSFORMER ETJV23ZF2VAC	LTZ3PZ0MS004

FUNCTION CBA

Ref. No.	Mark	Description	Part No.
		FUNCTION CBA Consists of the following:	-----
CAPACITORS			
C105		CHIP CERAMIC CAP. B K 330pF/550V or	CHD1JK30B331
		CAP CHIP 1608 K/X7R/330pF/550V	CHD331EYA032
C107		ELECTROLYTIC CAP. 47μF/16V M H7 or	CE1CMAVSL470
		CAP ELE 47μF/16V/M/85 H7	CEC470KSN003
C108		CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
CONNECTOR			
CN101B	B, D	WIRE ASSEMBLY 6PIN 6PIN/100MM/ AWG26/GRA	WX1A0CN2-002
DIODES			
D101		LED L-53HT or	NP4Z000L53HT
		LED 333HT/E-L or	NPHL00333HTE
		LED 333HT/E-K	NPHK00333HTE
D102		LED GREEN 333GT/E(FNA) or	NPWZ333GTEFNA
		LED(GREEN) LTL-4234	NPWZ0LTL4234
TRANSISTORS			
Q102		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(Te2 F T) or	QGSY2SA1015F

Ref. No.	Mark	Description	Part No.
		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
RESISTORS			
R103		CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
		RES CHIP 1608 1/10W J 220 Ω or	RRXA221YF002
		RES CHIP 1608 1/10W J 220 Ω	RRJ221WAL002
R104		RES CARBON FILM T 1/4W J 470 Ω or	RCX4471T1001
		RES CARBON FILM 1/4W J 470 Ω	RCX4471FS002
R105		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω or	RRXA101YF002
		RES CHIP 1608 1/10W J 100 Ω	RRJ101WAL002
R106		RES CARBON FILM T 1/4W J 1.0k Ω or	RCX4102T1001
		RES CARBON FILM 1/4W J 1k Ω	RCX4102FS002
R107		CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
		RES CHIP 1608 1/10W J 3.3k Ω or	RRXA332YF002
		RES CHIP 1608 1/10W J 3.3k Ω	RRJ332WAL002
R108		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω or	RRXA103YF002
		RES CHIP 1608 1/10W J 10k Ω	RRJ103WAL002
R109		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω or	RRXA102YF002
		RES CHIP 1608 1/10W J 1.0k Ω	RRJ102WAL002
R110		RES CARBON FILM T 1/4W G 4.7k Ω	RCX4472T1002
R111		RES CARBON FILM T 1/4W J 220 Ω or	RCX4221T1001
		RES CARBON FILM 1/4W J 220 Ω	RCX4221FS002
R112		RES CARBON FILM T 1/4W G 1.1k Ω	RCX4112T1002
R113		RES CARBON FILM T 1/4W G 1.2k Ω	RCX4122T1002
R114		RES CARBON FILM T 1/4W G 1.5k Ω	RCX4152T1002
R115		RES CARBON FILM T 1/4W G 3.3k Ω	RCX4332T1002
R116		RES CARBON FILM T 1/4W G 8.2k Ω	RCX4822T1002
R119		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
R120		CHIP RES. 1/10W J 330 Ω or	RRXAJR5Z0331
		RES CHIP 1608 1/10W J 330 Ω or	RRXA331YF002
		RES CHIP 1608 1/10W J 330 Ω	RRJ331WAL002
SWITCHES			
SW101		TACT SWITCH SKHHLMA010 or	SST0101AL049
		TACT SWITCH KSMC632A	SST0101HH025
SW102		TACT SWITCH SKHHLMA010 or	SST0101AL049
		TACT SWITCH KSMC632A	SST0101HH025
SW103		TACT SWITCH SKHHLMA010 or	SST0101AL049
		TACT SWITCH KSMC632A	SST0101HH025
SW104		TACT SWITCH SKHHLMA010 or	SST0101AL049
		TACT SWITCH KSMC632A	SST0101HH025
SW105		TACT SWITCH SKHHLMA010 or	SST0101AL049
		TACT SWITCH KSMC632A	SST0101HH025
SW106		TACT SWITCH SKHHLMA010 or	SST0101AL049
		TACT SWITCH KSMC632A	SST0101HH025
MISCELLANEOUS			
JS901		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
JS902		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
JS903		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
		RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
		RES CHIP 1608 1/10W 0 Ω	RRJ000WAL002
RS101		SENSOR REMOTE RECEIVER KSM-712TH2E or	USESJR5KK044
		SENSOR REMOTE RECEIVER KSM-712TH5B-FU or	USEJRS0KK006
		SENSOR REMOTE RECEIVER KSM-712TH2M	USEJRS0KK001

JUNCTION CBA (TYPE A)

Ref. No.	Mark	Description	Part No.
	A, C	JUNCTION CBA Consists of the following:	-----
CONNECTORS			
CN101	A, C	242 SERIES CONNECTOR TUC-P06X-B1 WHT ST	JCTUB06TG002
CN101A	A, C	WIRE ASSEMBLY 6PIN WX1A93N0-002	WX1A93N0-002

Ref. No.	Description	Part No.
TU10	TUNER UNIT DTOS40AML201A	UTNPSG0SM002

