



SERVICE MANUAL

This Service Manual is for the
LT6-M22BB(A8C72EP)
/LT6-M22WB(A8C73EP) model.
For the LT6-M22BB(A8C72EP)
/LT6-M22WB(A8C73EP) model,
the letter (A8C72EP)/(A8C73EP) is
printed on the Serial No. Label.
Refer to the Serial No. Label on the
right.

Serial No. Label



"A8C72EP"

Serial No. Label



"A8C73EP"

22" COLOR LCD TELEVISION **LT6-M22BB/LT6-M22WB**



22" COLOR LCD TELEVISION

LT6-M22BB/LT6-M22WB

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

SPECIFICATIONS

< TUNER >

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

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

< LCD PANEL >

Description	Condition	Unit	Nominal	Limit
1. Number of Pixels	Horizontal Vertical	pixels pixels	1680 1050	--- ---
2. Viewing Angle	Horizontal Vertical	° °	-85 to 85 -80 to 80	--- ---

<DVB-T>

Description	Condition	Unit	Nominal	Limit
1. RECEIVED FREQ.RANGE (-60dBm, 45ch.) *1	+ -	kHz kHz	1000 900	500 -150
2. INPUT DYNAMIC RANGE (mix./max) *1	VHF HIGH 7ch. UHF 45ch.	dBm dBm	-82.5/2 -81.1/2	-75/-10 -75/-10
3. C/N PERFORMANCE *1	VHF HIGH 7ch. UHF 45ch.	dB dB	15 15	18 18
4. MULTIPATH	UHF 45ch. ①:*2 ②:*3 ①:*2 ②:*3 ①:*1	dB dB dB dB dB	18.7 14.0 19.1 13.0 20.7	23 20 23 18 24

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

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

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

< VIDEO >

Description	Condition	Unit	Nominal	Limit
1. Over Scan	Horizontal Vertical	% %	5 5	---
2. Color Temperature	AT 80% WHITE FIELD x y	°K	12000 0.272 0.278	--- ±0.005 ±0.005
3. Resolution	Horizontal Vertical	line line	400 350	---
4. Brightness	AT 100% WHITE FIELD	cd/m ²	250	---

< AUDIO >

All items are measured across 8 Ω load at speaker output terminal.

Description	Condition	Unit	Nominal	Limit
1. Audio Output Power	10% THD: Lch/Rch	W	1.0/1.0	0.8/0.8
2. Audio Distortion	500mW: Lch/Rch	%	1.5/1.5	3.0/3.0
3. Audio Freq. Response	-6dB: Lch -6dB: Rch	Hz Hz	70 to 8 k 70 to 8 k	--- ---
4. Audio S/N	VIDEO Component	dB dB	--- ---	>45/45 >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.

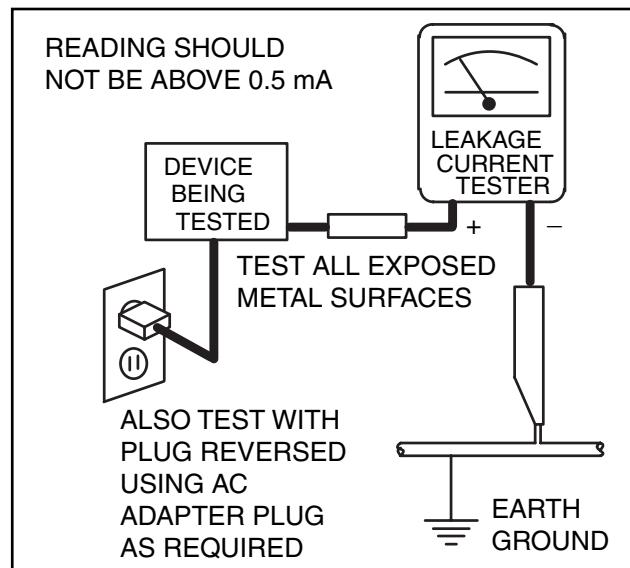
IMPORTANT SAFETY PRECAUTIONS

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	$\geq 3\text{mm}(d)$ $\geq 6\text{ mm}(d')$

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.

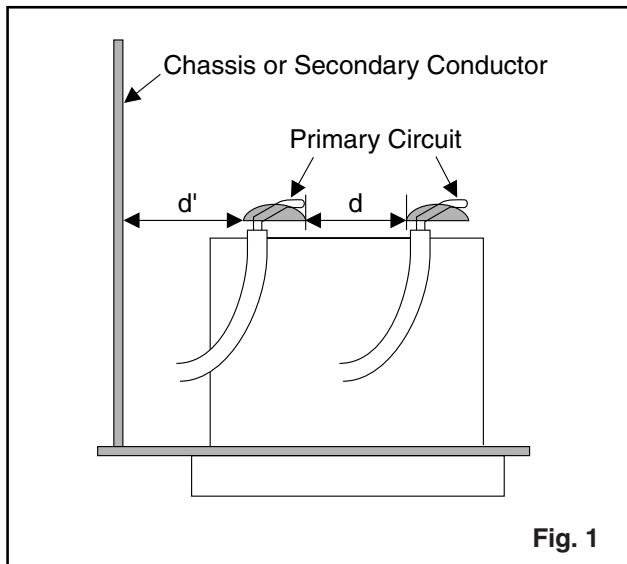


Fig. 1

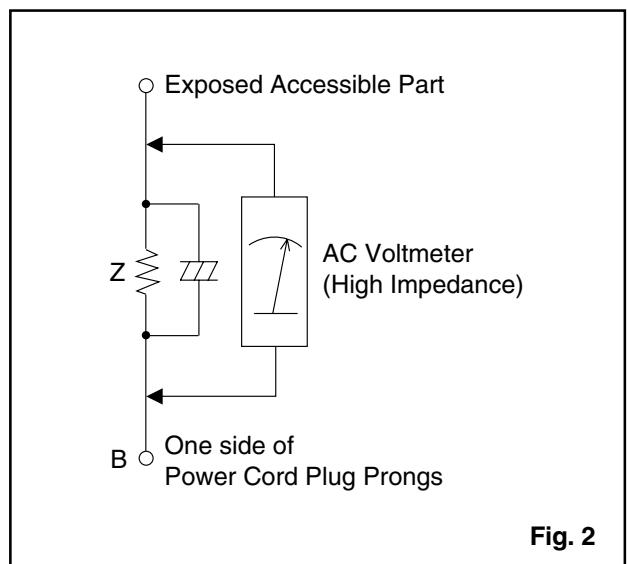


Fig. 2

Table 2: Leakage current ratings for selected areas

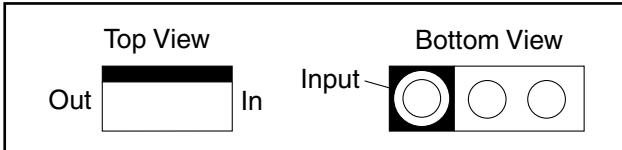
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2k Ω RES. Connected in parallel	i $\leq 0.7\text{mA}$ AC Peak i $\leq 2\text{mA}$ DC	RF or Antenna terminals
	50k Ω RES. Connected in parallel	i $\leq 0.7\text{mA}$ AC Peak i $\leq 2\text{mA}$ DC	A/V Input,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

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

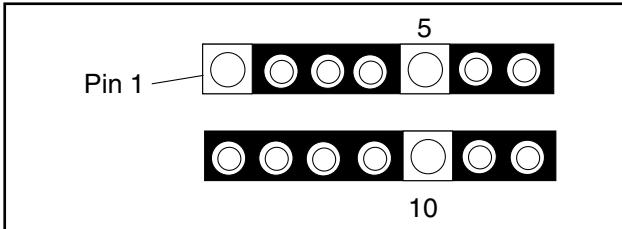
STANDARD NOTES FOR SERVICING

Circuit Board Indications

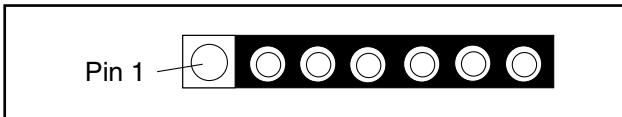
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



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

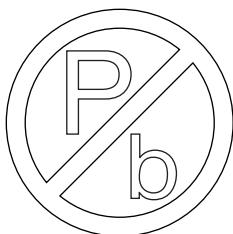


3. The 1st pin of every male connector is indicated as shown.



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)

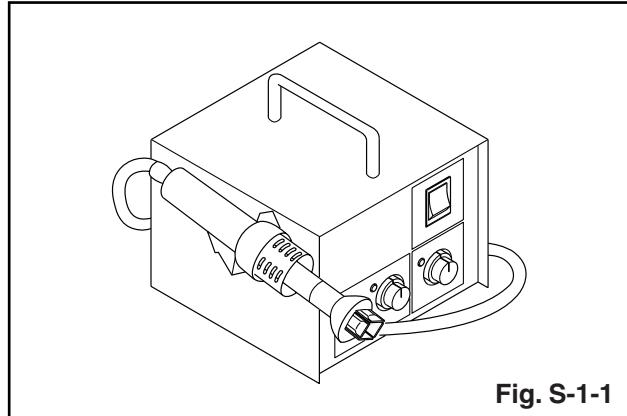


Fig. S-1-1

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.

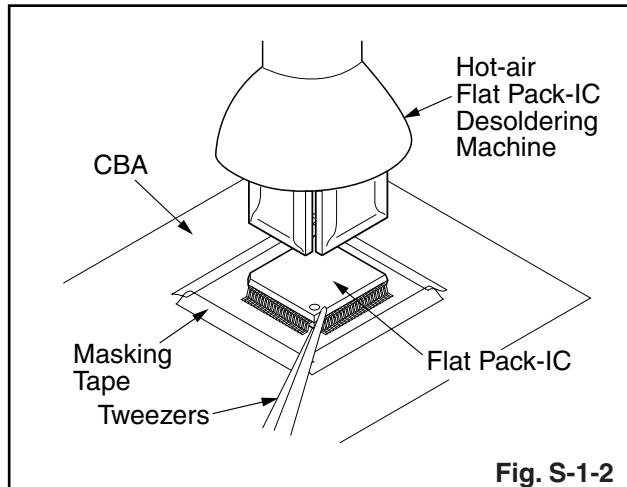
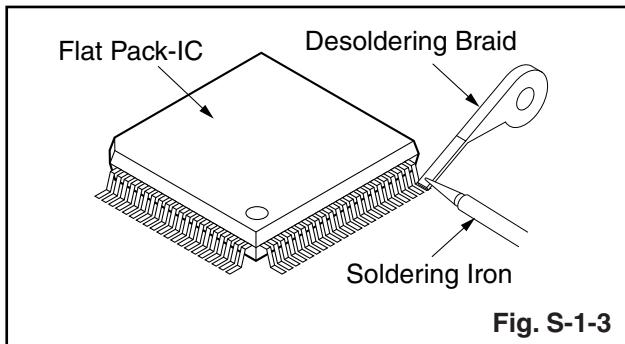


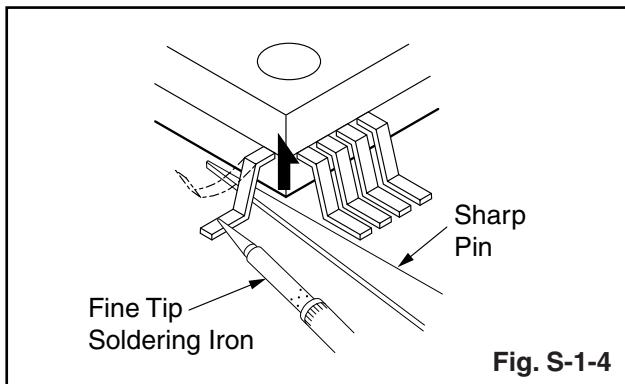
Fig. S-1-2

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)

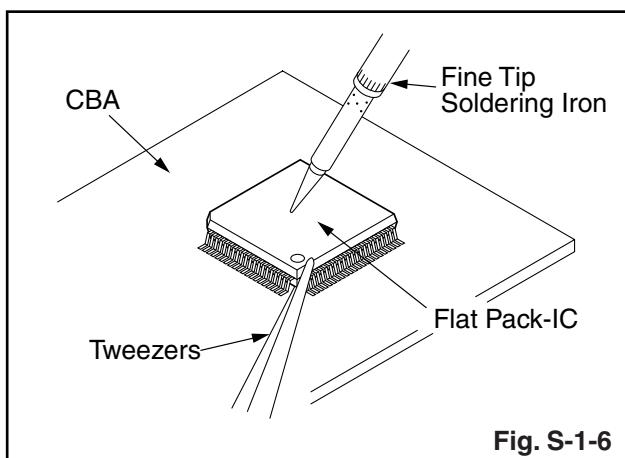
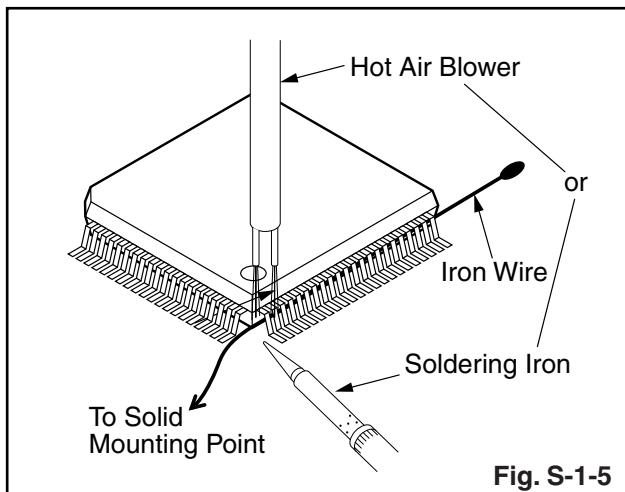


3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

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)

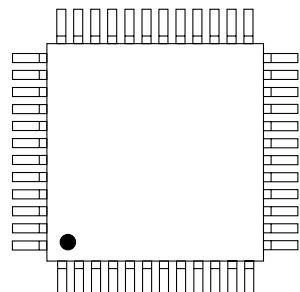
Note: When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.



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 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.

Example :



Pin 1 of the Flat Pack-IC
is indicated by a "●" mark.

Fig. S-1-7

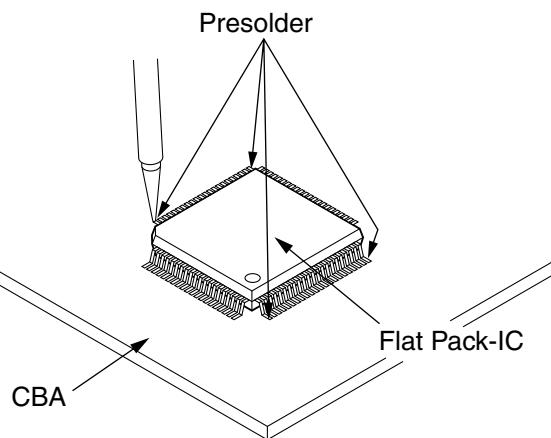


Fig. S-1-8

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.

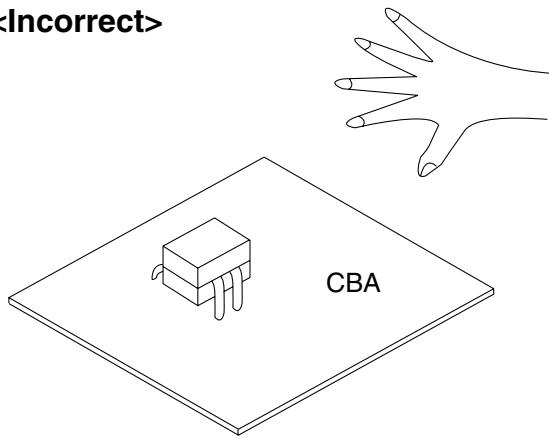
1. Ground for Human Body

Be sure to wear a grounding band ($1\text{ M}\Omega$) that is properly grounded to remove any static electricity that may be charged on the body.

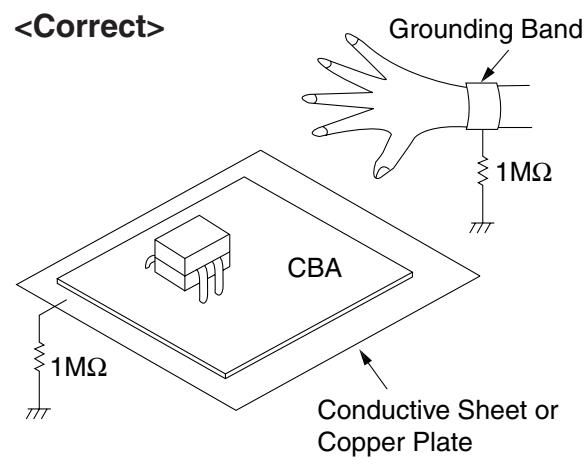
2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding ($1\text{ M}\Omega$) 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.

<Incorrect>



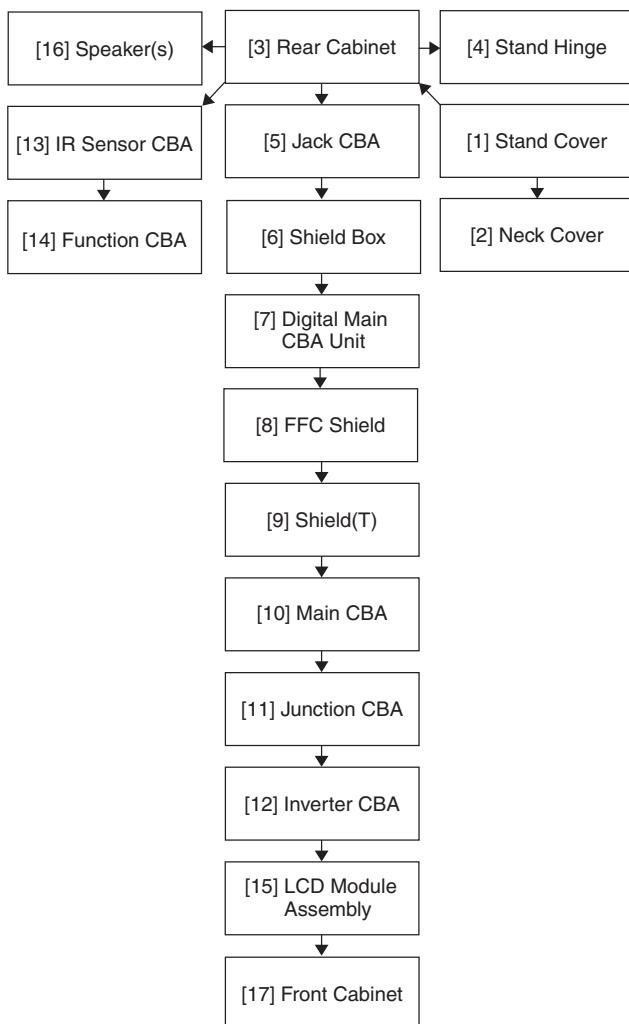
<Correct>



CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

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



2. Disassembly Method

Step/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder	Note
[1]	Stand Cover	D1	2(S-1)	---
[2]	Neck Cover	D1	-----	---
[3]	Rear Cabinet	D1	2(S-2), 3(S-3), 12(S-4)	---
[4]	Stand Hinge	D1	-----	---
[5]	Jack CBA	D2 D3	2(S-5), *CN107	---

Step/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder	Note
[6]	Shield Box	D2 D3	2(S-6), (S-7), 3(S-8), 6(S-9), *CN101A, *CN102A, *CN103A, *CN104A, *CN4501, *CN4502	---
[7]	Digital Main CBA Unit	D2 D3	2(S-10), Connector IC Card OSU	---
[8]	FFC Shield	D2	2(S-11)	---
[9]	Shield(T)	D2	2(S-12), (S-13)	---
[10]	Main CBA	D2 D3	4(S-14), (S-15), *CN106, *CN105A, *CN802	---
[11]	Junction CBA	D2 D3	*CN404A	---
[12]	Inverter CBA	D2 D3	4(S-16), *CN401, *CN402, *CN403, *CN451	---
[13]	IR Sensor CBA	D2 D3	(S-17), *CN301	---
[14]	Function CBA	D2 D3	-----	---
[15]	LCD Module Assembly	D2	-----	---
[16]	Speaker(s)	D2	4(S-18), Speaker Holder(s)	---
[17]	Front Cabinet	D2	-----	---

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.
P = Spring, L = Locking Tab, S = Screw,
CN = Connector
* = Unhook, Unlock, Release, Unplug, or Desolder
e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)
- (5) Refer to the following "Reference Notes in the Table."

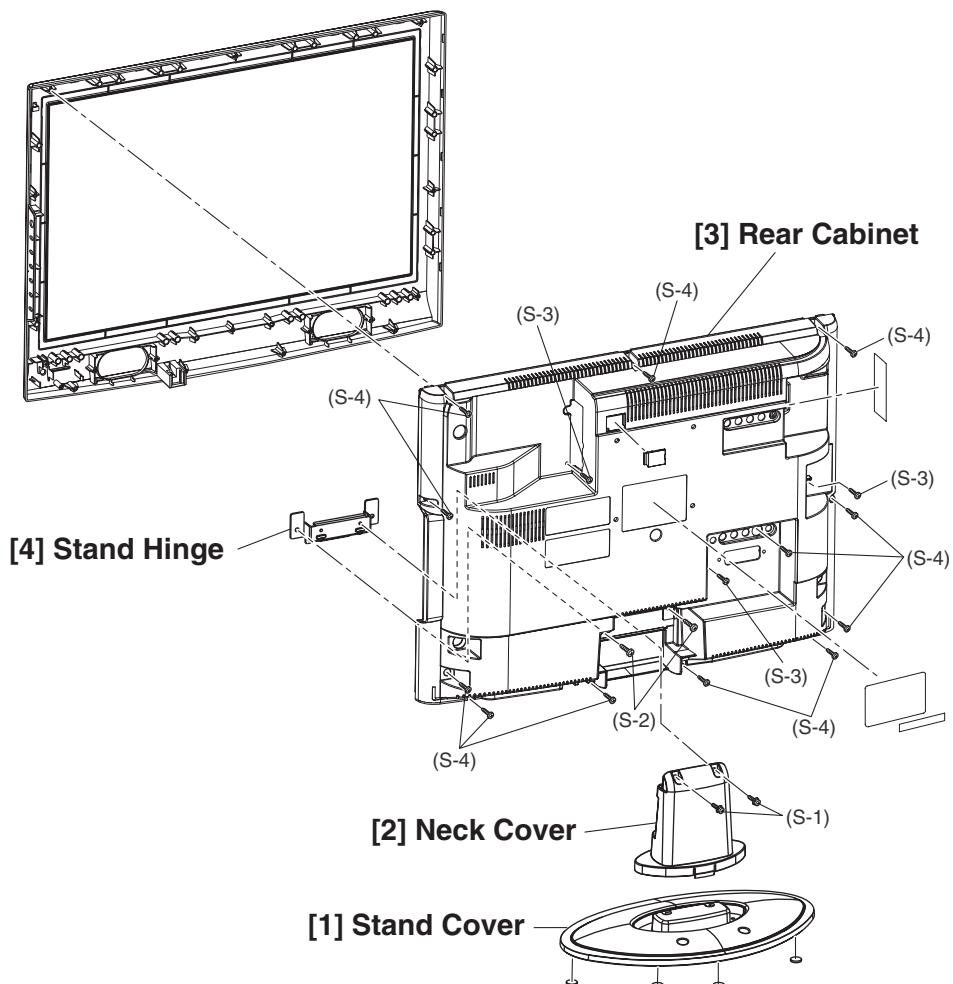


Fig. D1

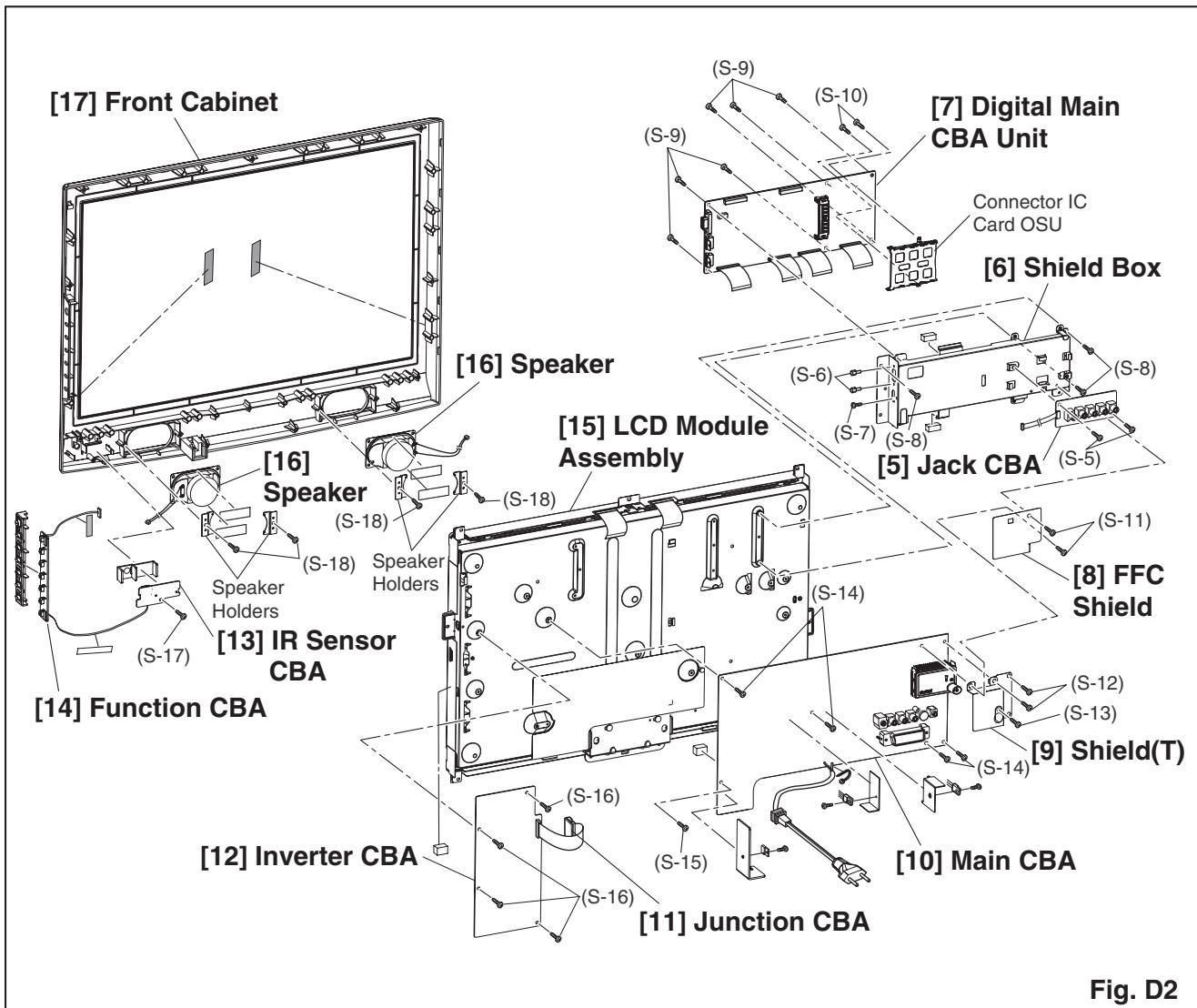


Fig. D2

TV Cable Wiring Diagram

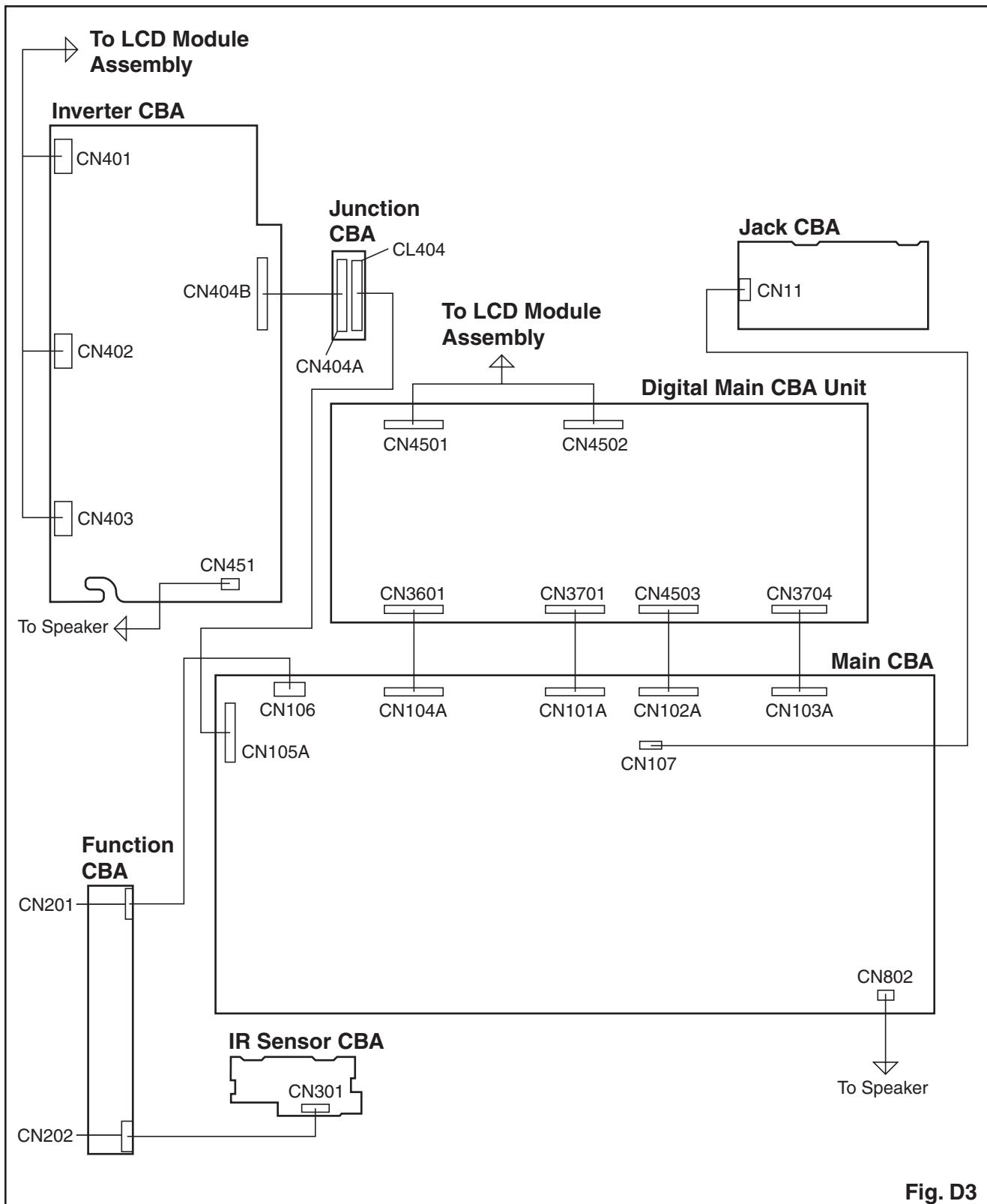


Fig. D3

ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: "CBA" is abbreviation for "Circuit Board Assembly."

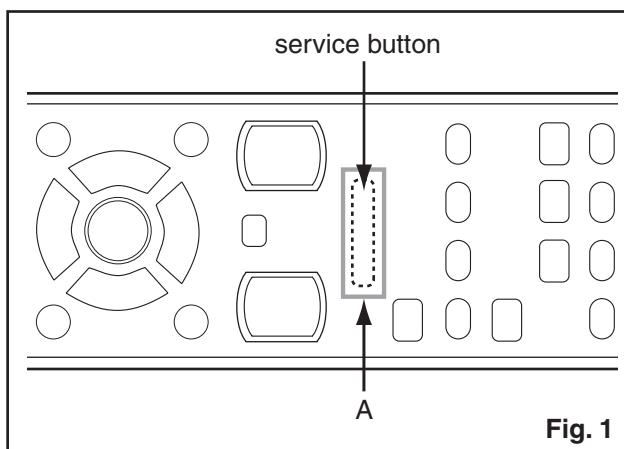
Note: Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.

Test Equipment Required

1. DC Voltmeter
2. Pattern Generato
3. Color Analyzer

How to make the Service remote control unit:

Cut "A" portion of the attached remote control unit as shown in Fig. 1.



How to set up the service mode:

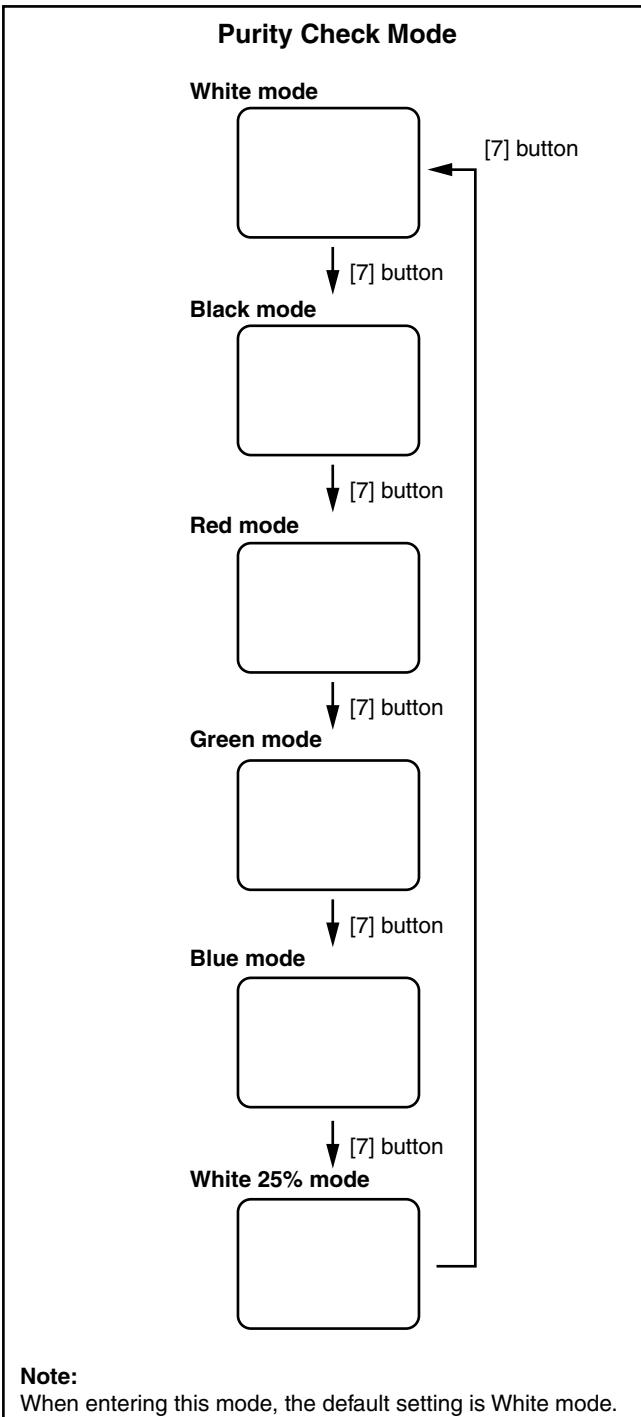
Service mode:

1. Use the service remote control unit.
2. Turn the power on.
3. Press the service button on the service remote control unit as shown in Fig.1.

1. Purity Check Mode

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

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



2. VCOM Adjustment.

Test Point	Adj. Point
Screen	[P ^ / √] buttons
M. EQ.	Spec.
Color analyzer	See below
Figure	
<p>It carries out in a darkroom. Perpendicularity L = 3 cm Color Analyzer</p>	

1. Operate the unit for more than 20 minutes.
2. Set the color analyzer and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.
Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
3. Enter the Service mode.
4. **[VCOM1]**
 Press [2] button on the service remote control unit.
[VCOM2]
 Press [3] button on the service remote control unit.
5. Press [P ^ / √] buttons on the service remote control unit so that the color analyzer value becomes minimum.

The following adjustment normally are not attempted in the field. Only when replacing the LCD Panel then adjust as a preparation.

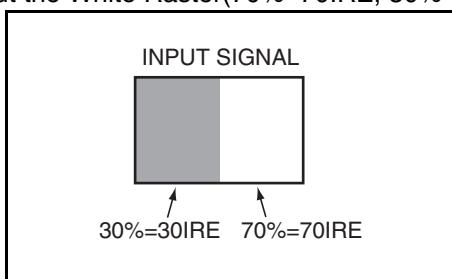
3. White Balance Adjustment

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 \wedge / \vee] buttons	[VIDEO] C/D	White Raster (APL 70%) or (APL 25%)		
M. EQ.		Spec.			
Pattern Generator, Color analyzer		$x = 0.272 \pm 0.005$ $y = 0.278 \pm 0.005$			
Figure					
<p>It carries out in a darkroom. Perpendicularity L = 3 cm INPUT: WHITE 70%, 30% Color Analyzer</p>					

1. Operate the unit for more than 20 minutes.
2. Input the White Raster(70%=70IRE, 30%=30IRE).



3. Set the color analyzer to the CHROMA mode and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.
Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
4. Enter the Service mode. Press [\blacktriangleleft -] button on the service remote control unit and select "C/D" mode.

5. [CUTOFF]

Press [3] button to select "COB" for Blue Cutoff adjustment. Press [1] button to select "COR" for Red Cutoff adjustment.

[DRIVE]

Press [6] button to select "DB" for Blue Drive adjustment. Press [4] button to select "DR" for Red Drive adjustment.

6. In each color mode, press [P \wedge / \vee] buttons to adjust the values of color.
7. Adjust Cutoff and Drive so that the color temperature becomes 12000°K ($x = 0.272$ / $y = 0.278 \pm 0.005$).

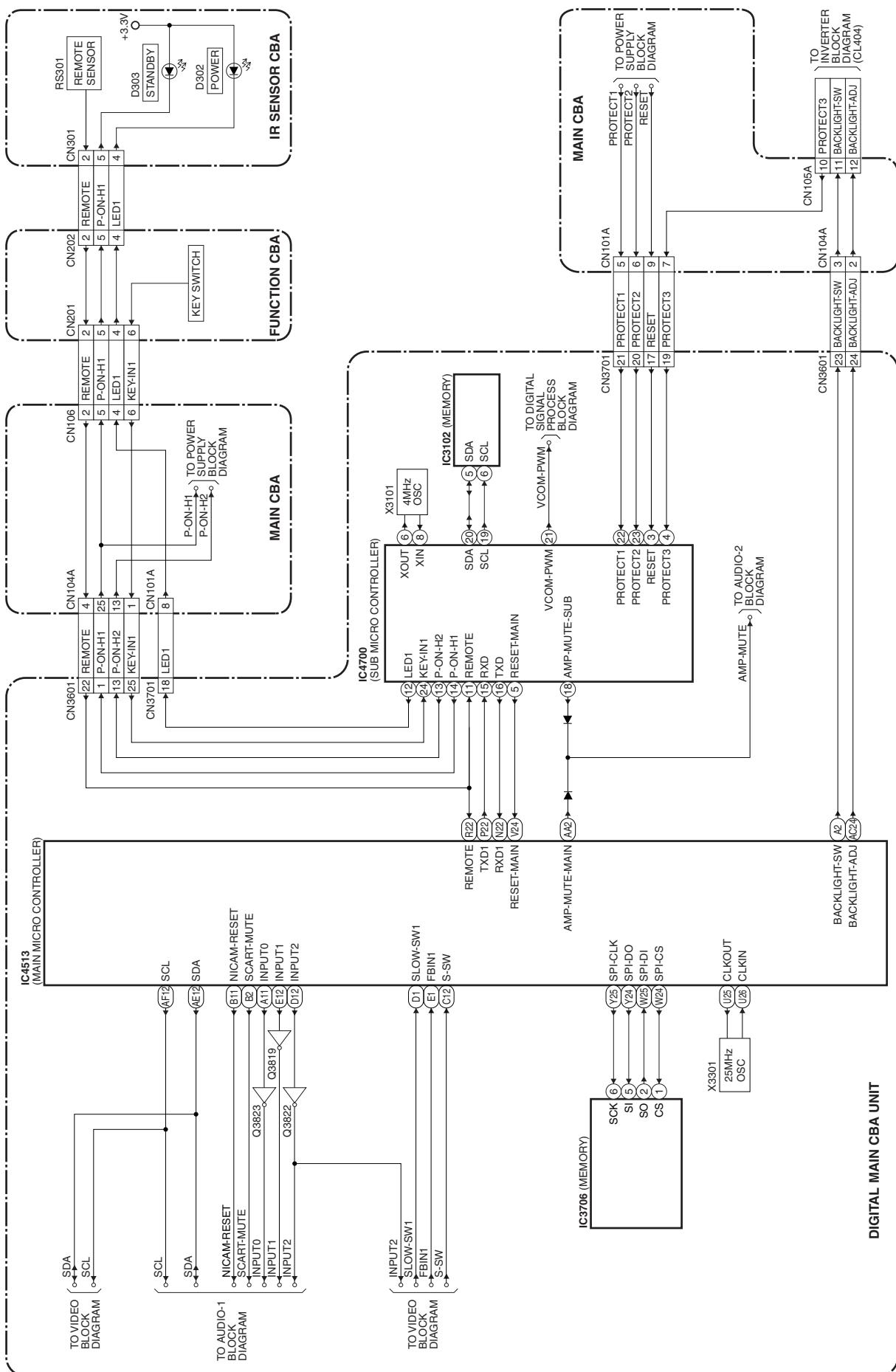
HOW TO INITIALIZE THE LCD TELEVISION

How to initialize the LCD television:

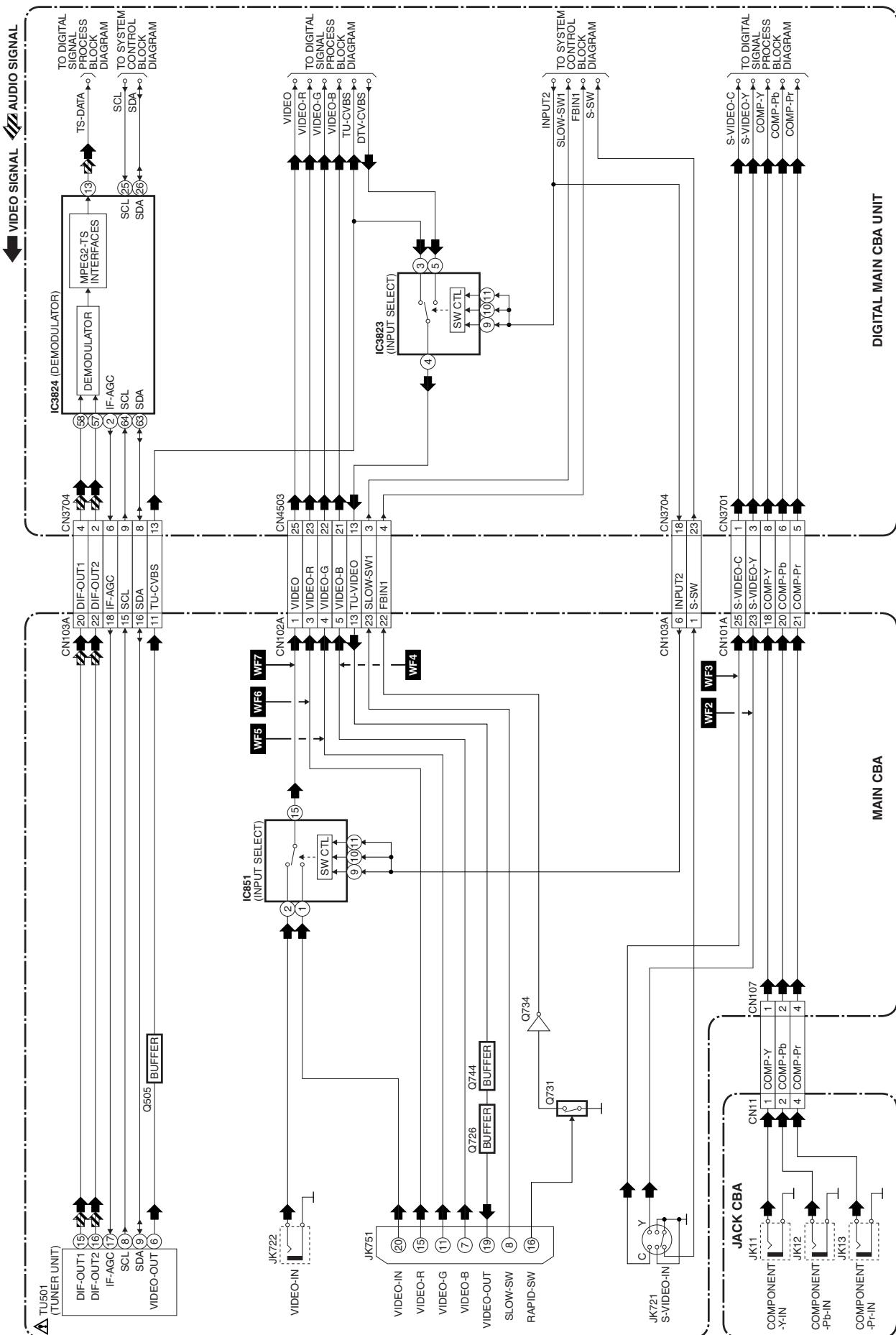
1. Turn the power on.
2. To enter the service mode, press the service button on the service remote control unit. (Refer to page 5-1.)
 - To cancel the service mode, Press [◊] button on the remote control unit.
3. Press [**i**] button on the service remote control unit to initialize the LCD television.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

BLOCK DIAGRAMS

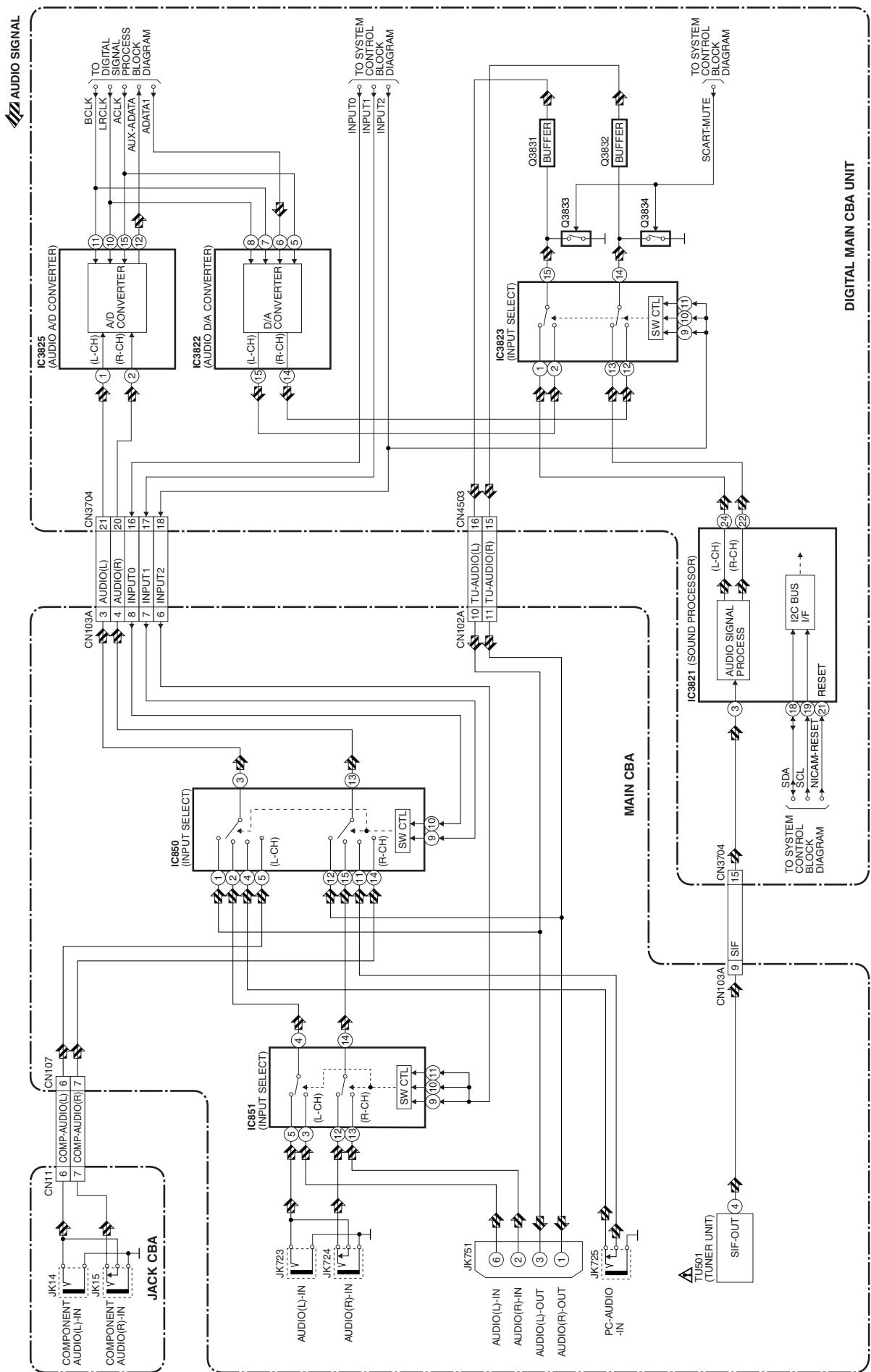
System Control Block Diagram



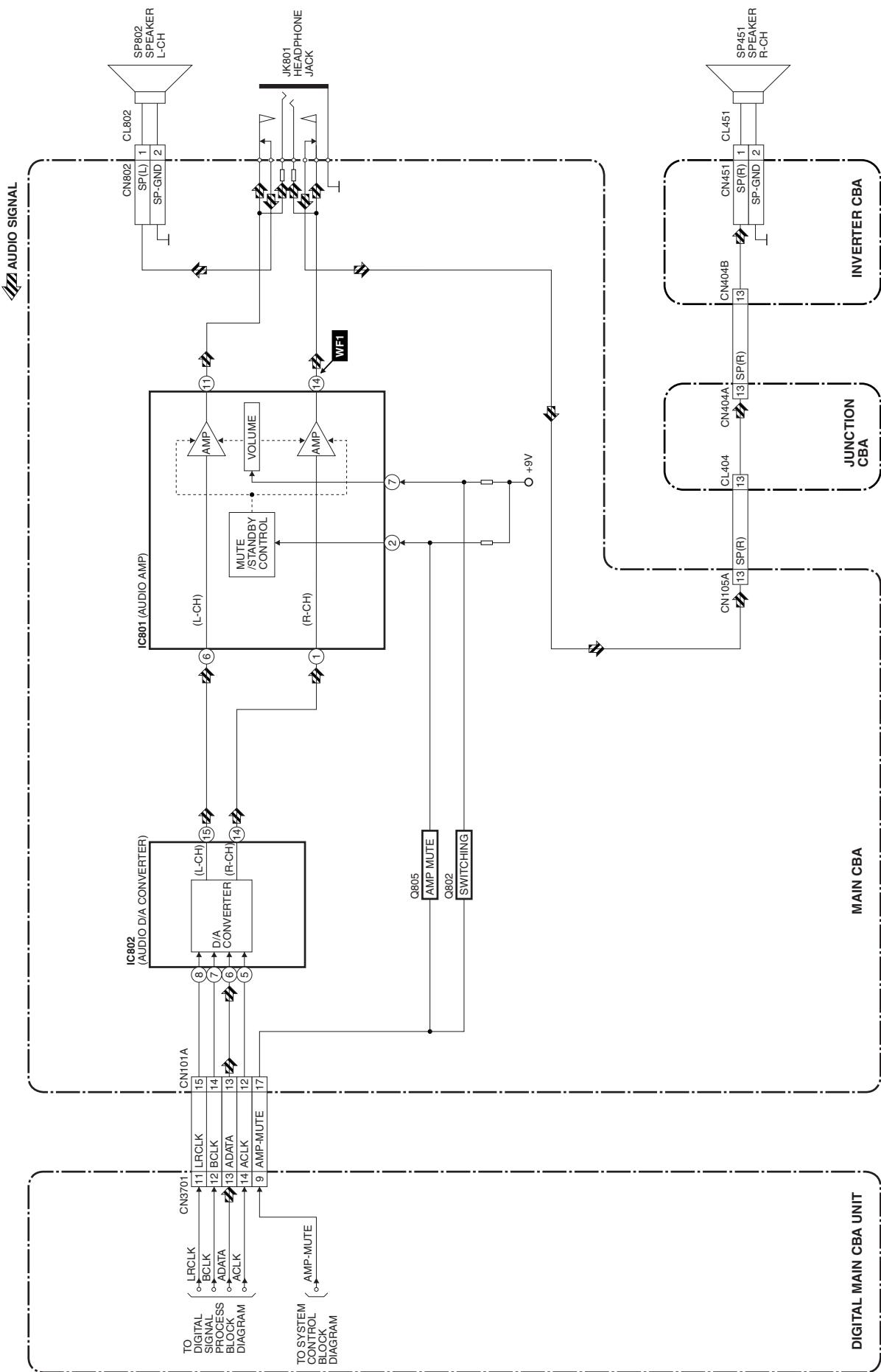
Video Block Diagram



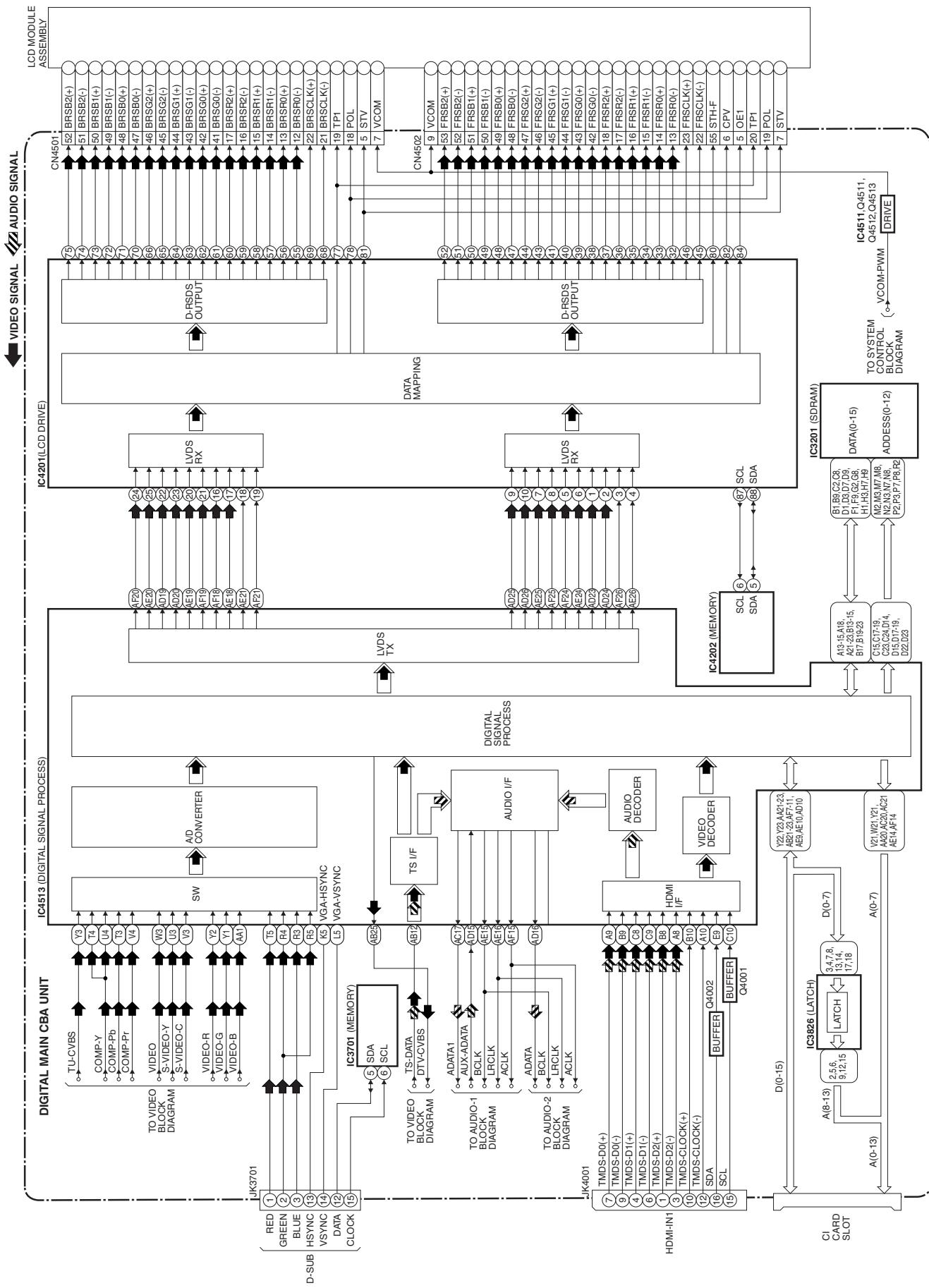
Audio-1 Block Diagram



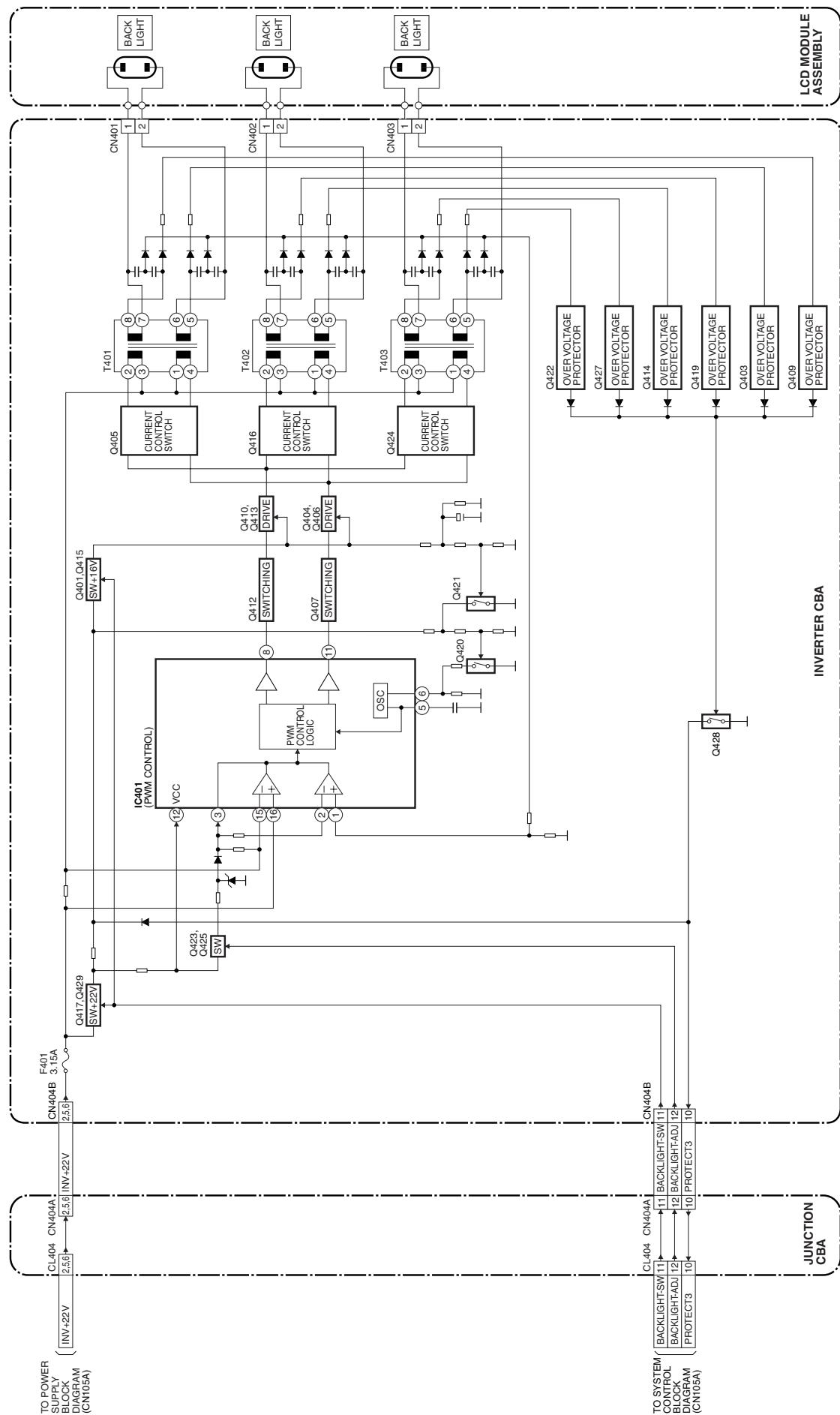
Audio-2 Block Diagram



Digital Signal Process Block Diagram



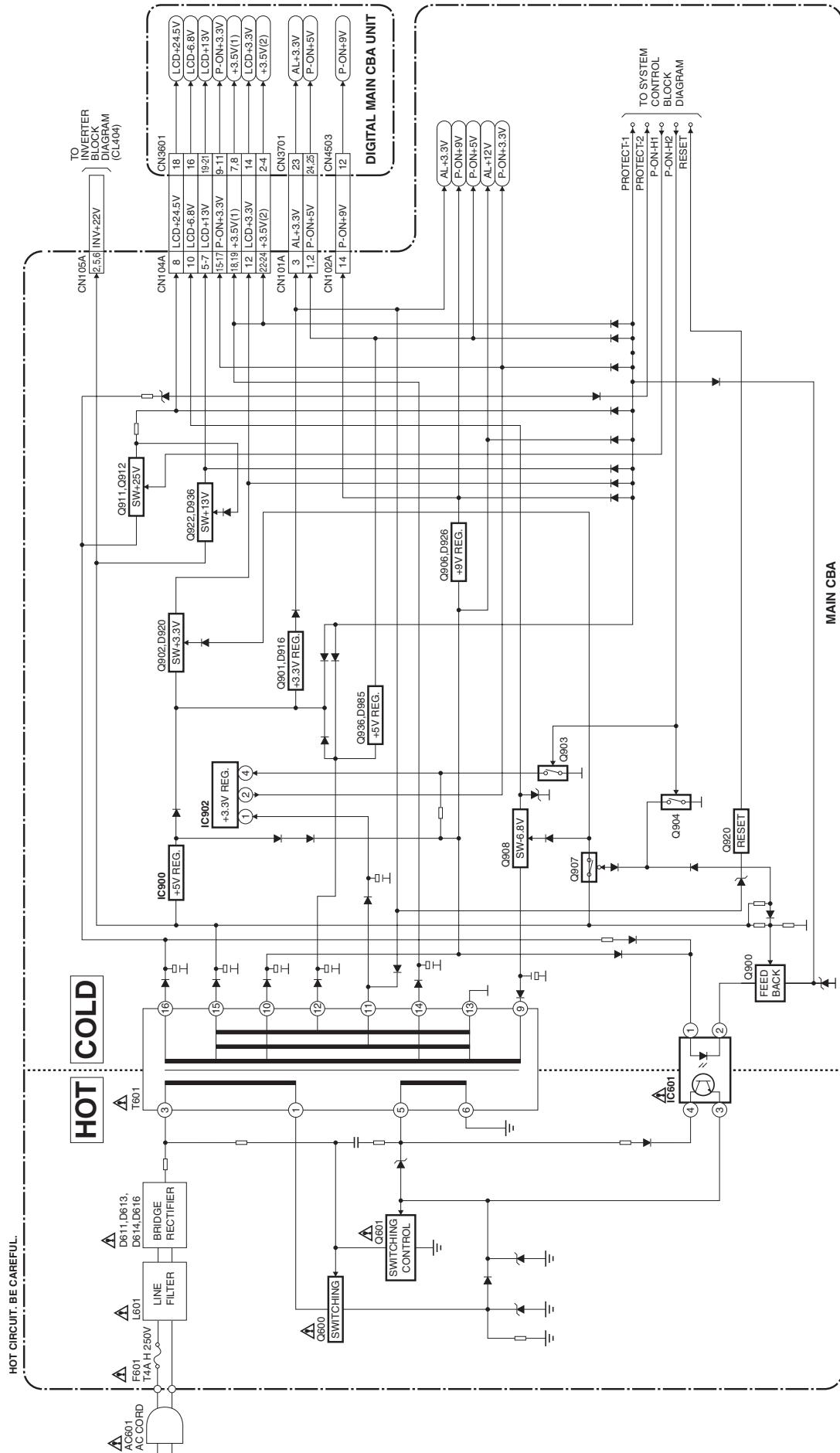
Inverter Block Diagram



Power Supply Block Diagram

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

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



SCHEMATIC DIAGRAMS / CBA AND TEST POINTS

Standard Notes

WARNING

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

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K = 10^3$, $M = 10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P = 10^{-6} \mu F$).
5. All voltages are DC voltages unless otherwise specified.

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.

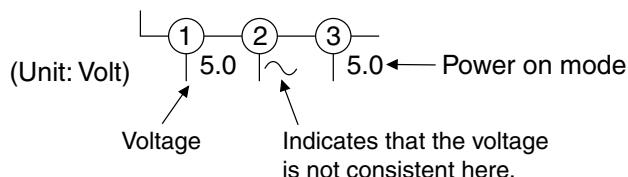
If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

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.:

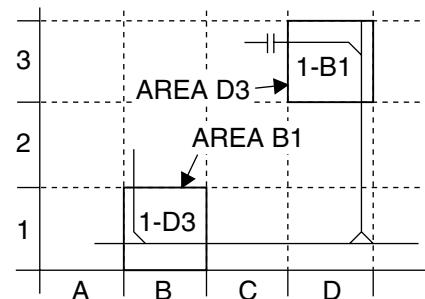


5. How to read converged lines

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

Examples:

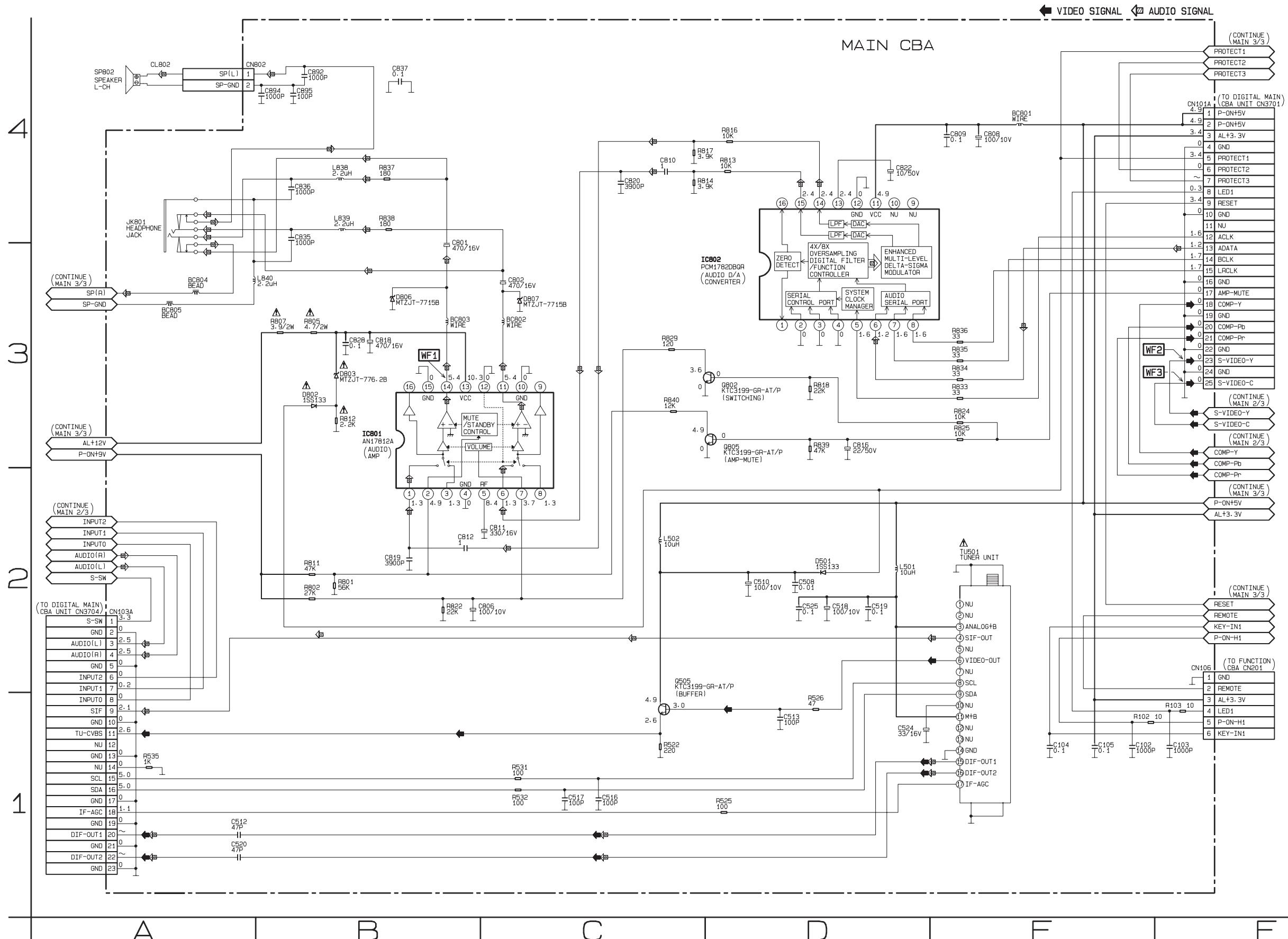
1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



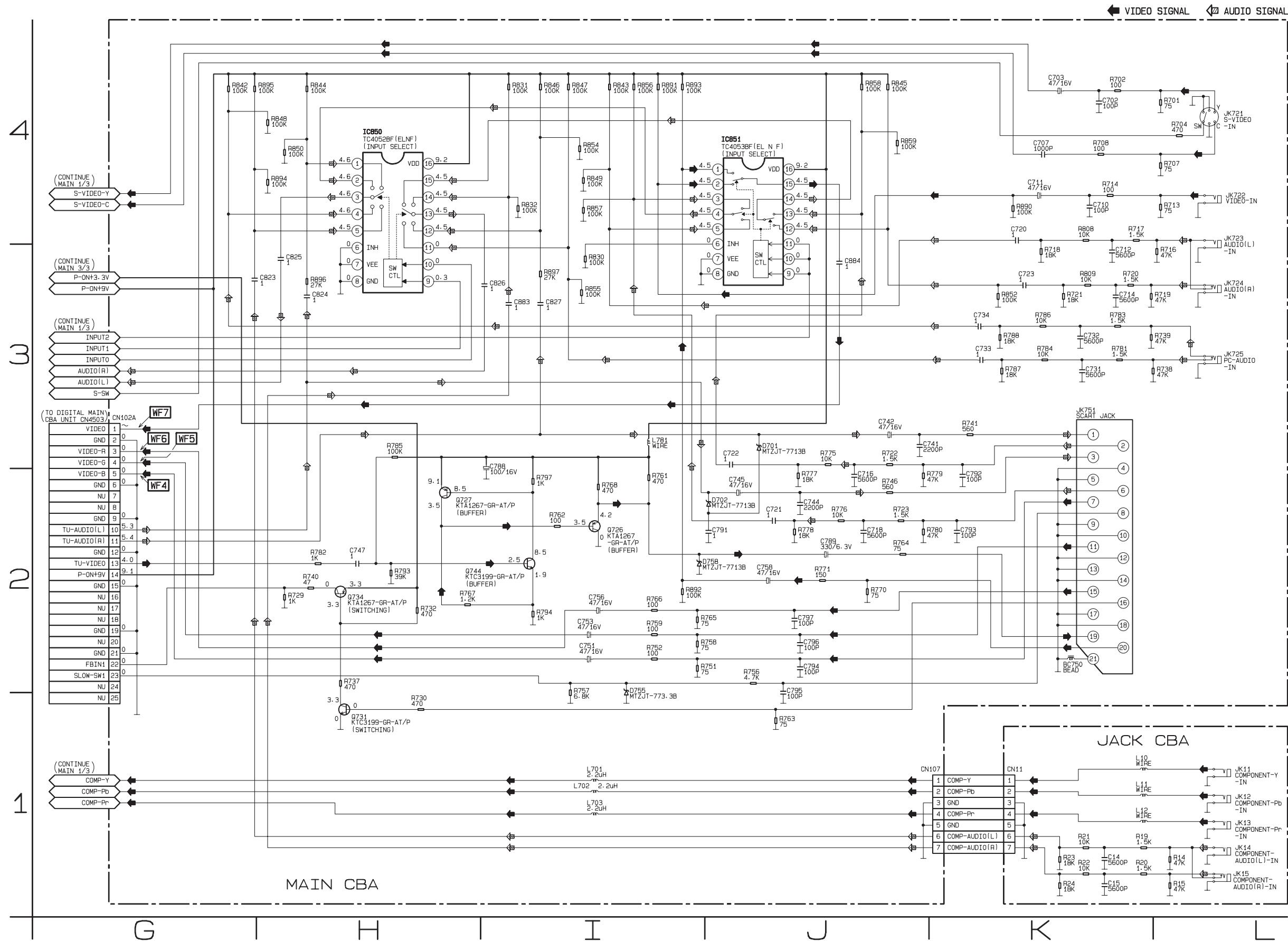
6. Test Point Information

- : 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 1/3 Schematic Diagram



Main 2/3, Jack Schematic Diagram



Main 3/3 Schematic Diagram

CAUTION !

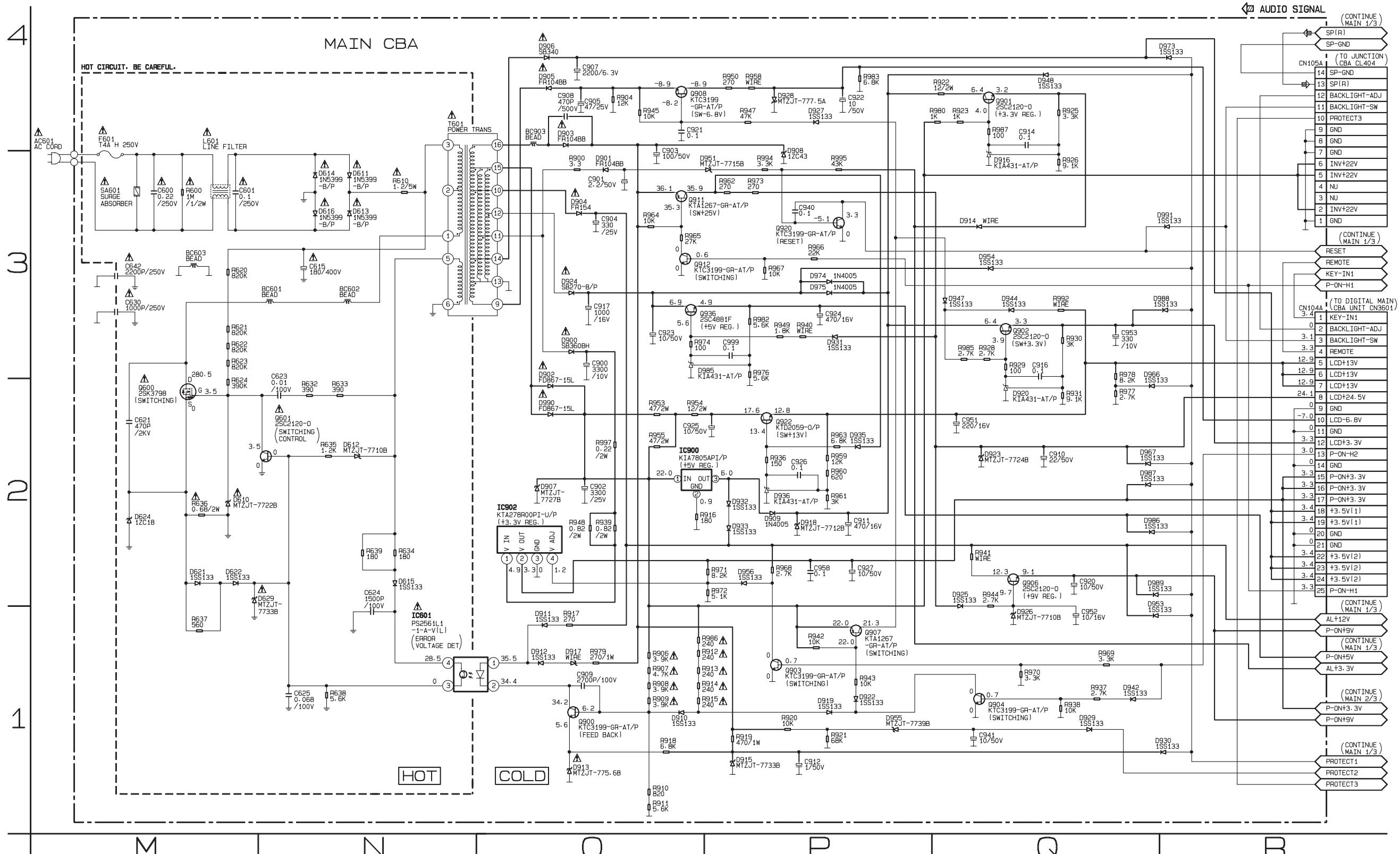
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power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

CAUTION !

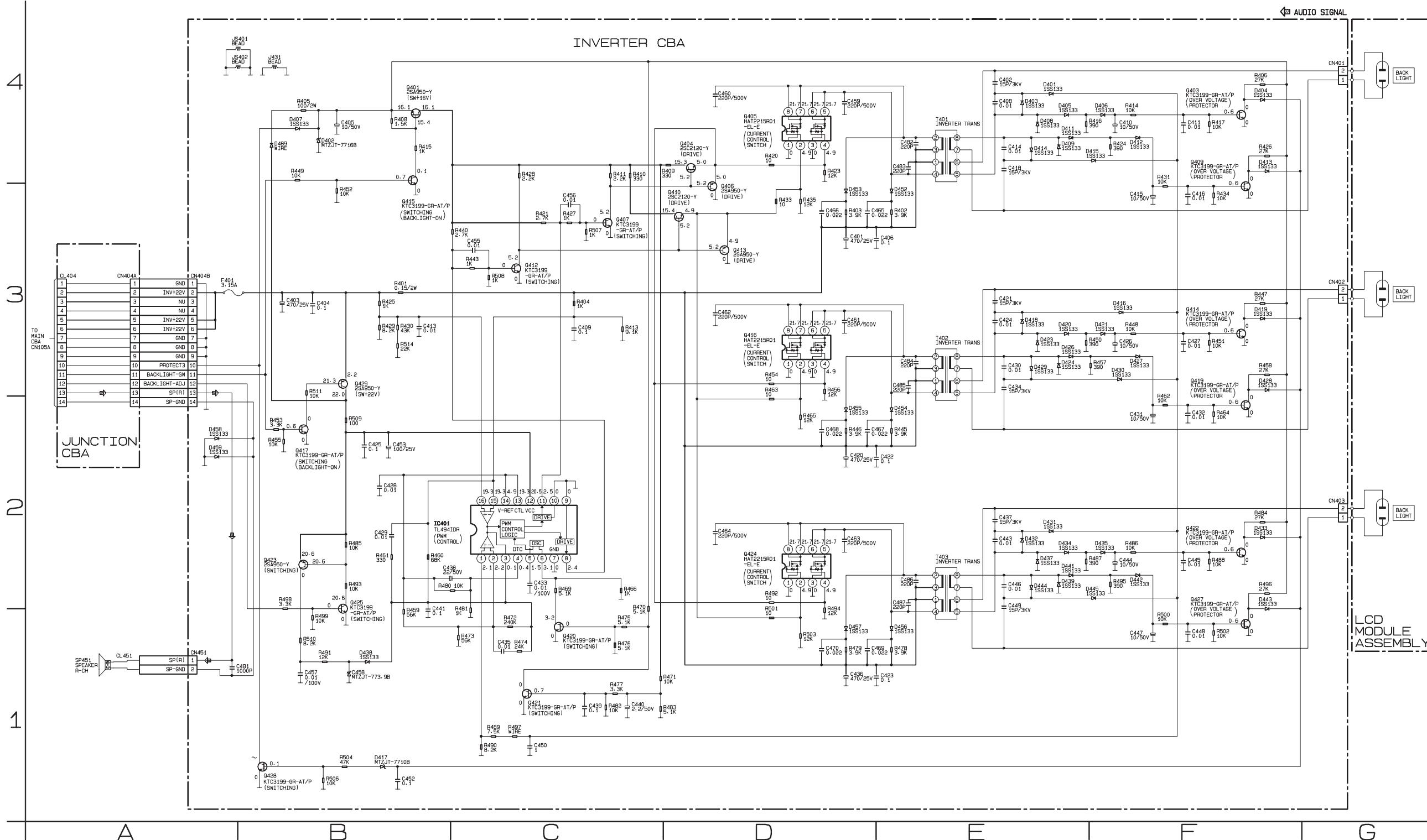
For continued protection against fire hazard,
replace only with the same type fuse.

NOTE:

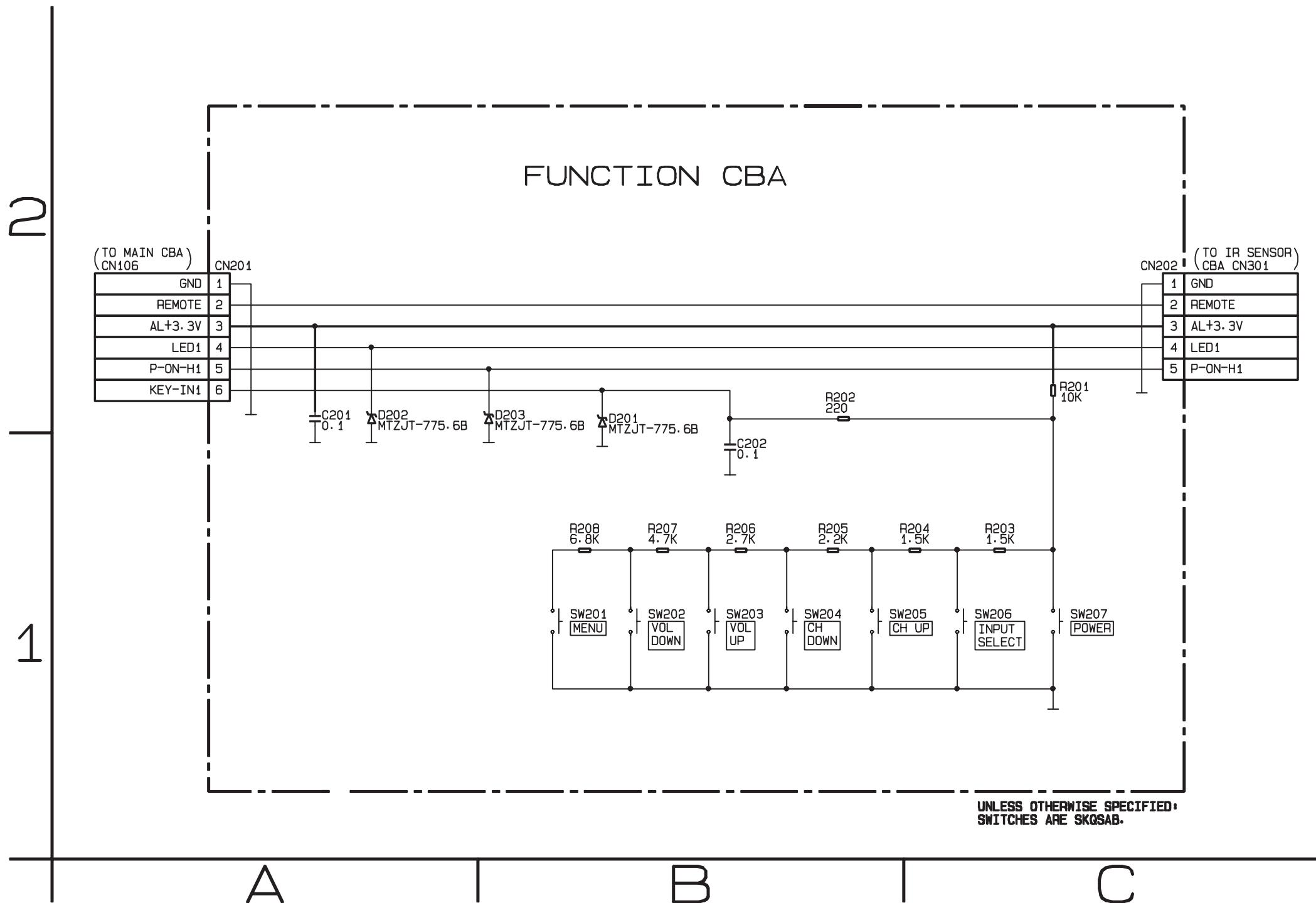
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



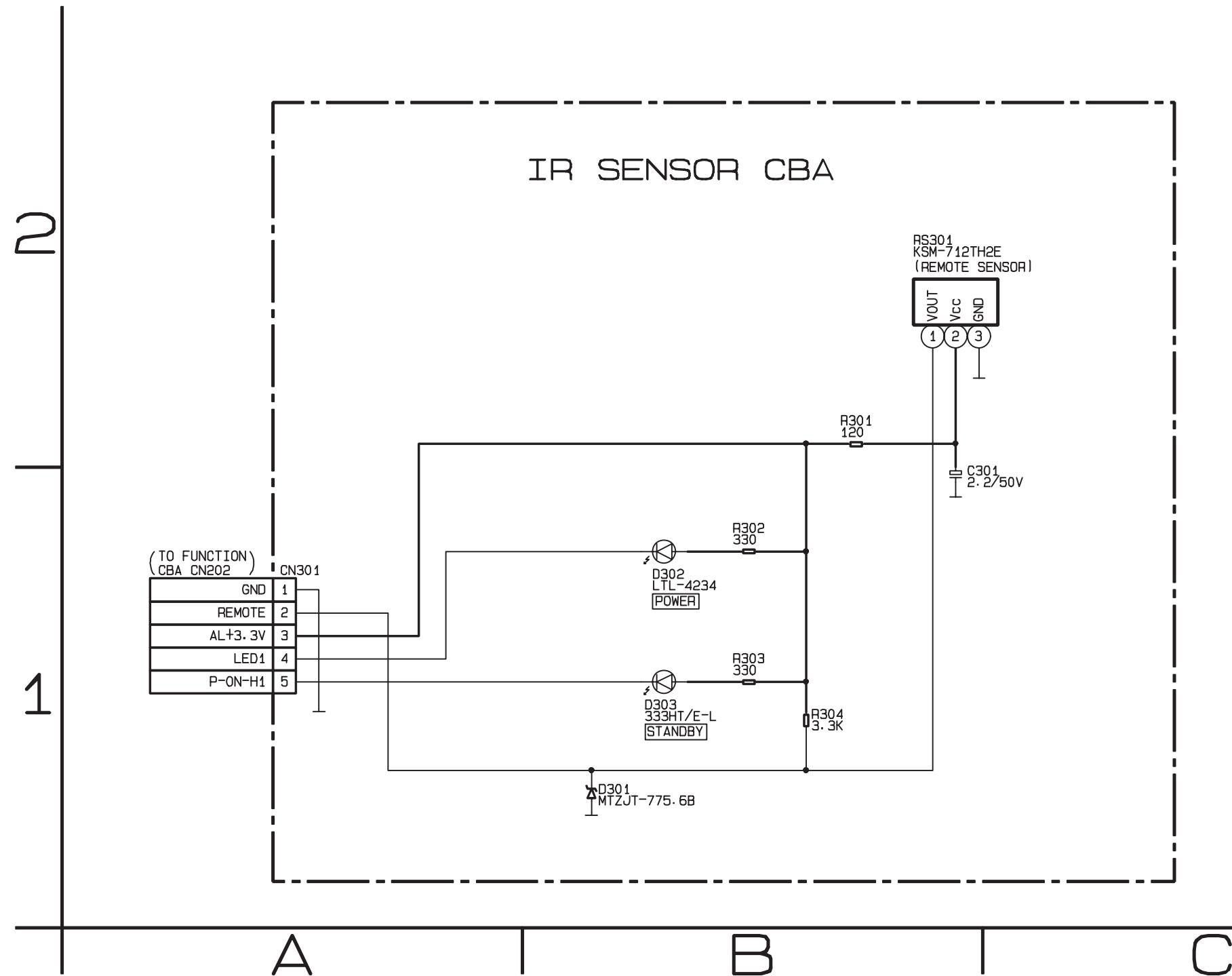
Inverter & Junction Schematic Diagram



Function Schematic Diagram



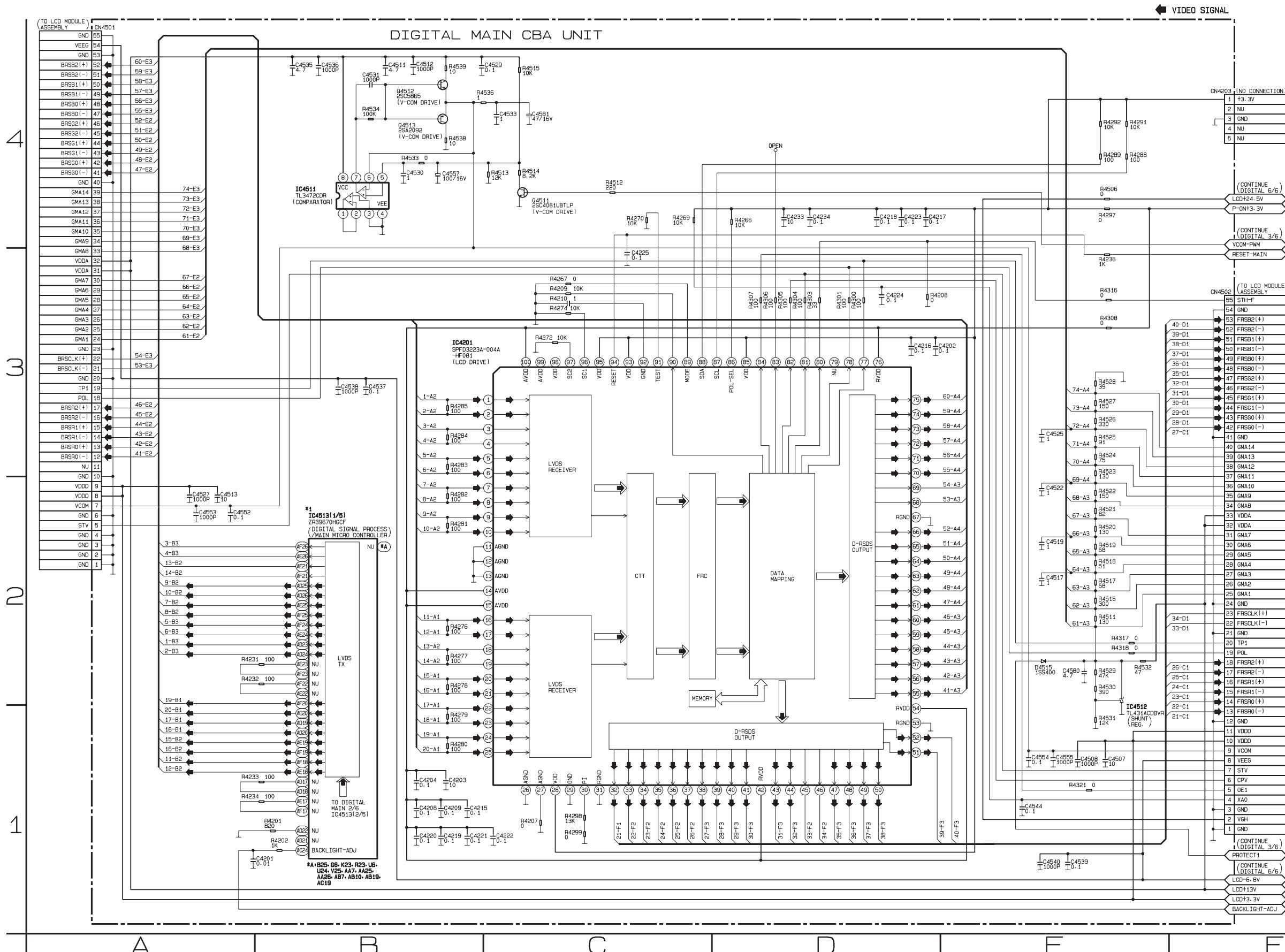
IR Sensor Schematic Diagram



Digital Main 1/6 Schematic Diagram

*1 NOTE:

The order of pins shown in this diagram is different from that of actual IC4513.
IC4513 is divided into seven and shown as IC4513 (1/5) ~ IC4513 (4/5) in this Digital Main Schematic Diagram Section.

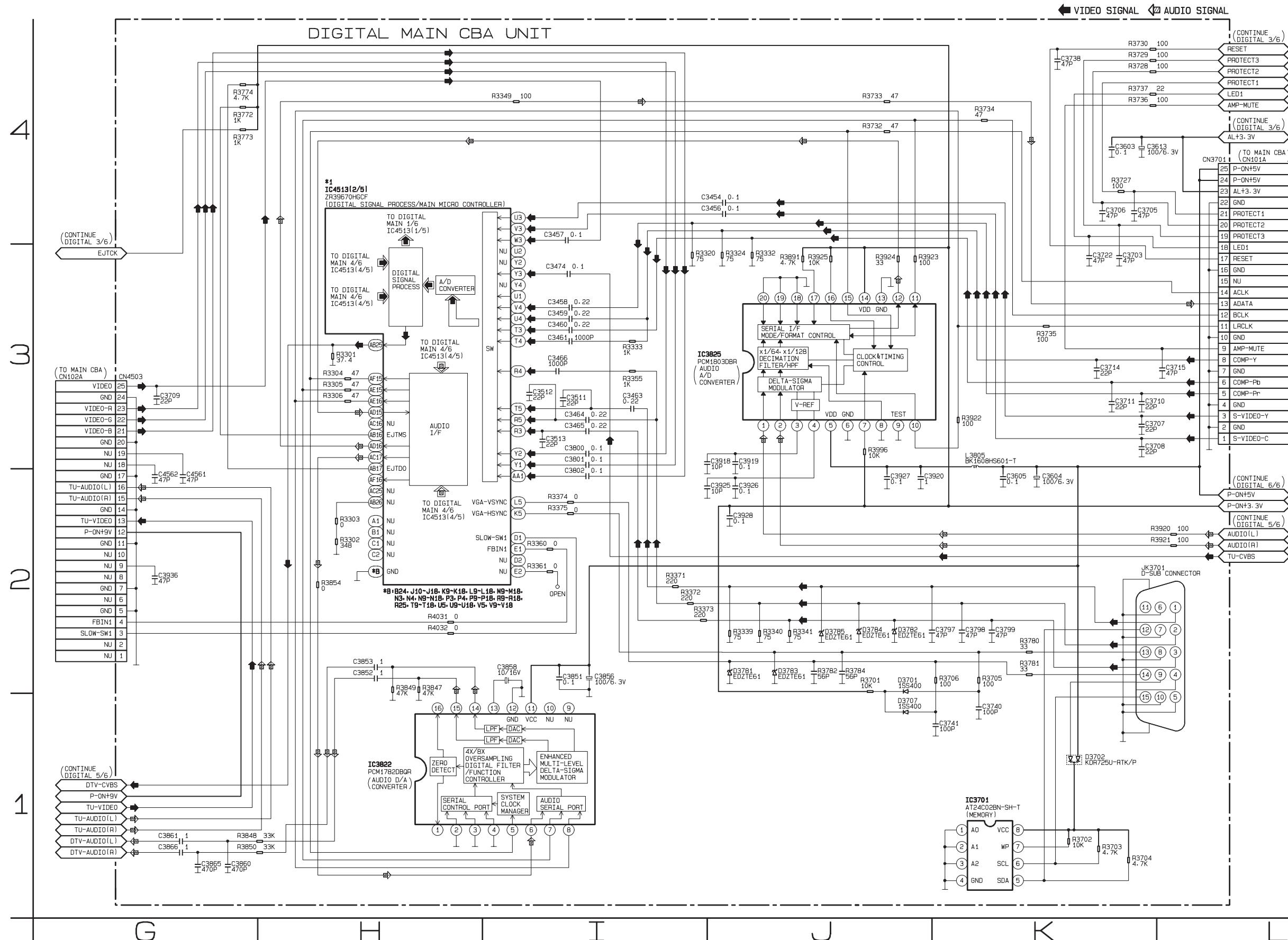


Digital Main 2/6 Schematic Diagram

***1 NOTE:**

NOTE: The order of pins shown in this diagram is different from that of actual IC451.

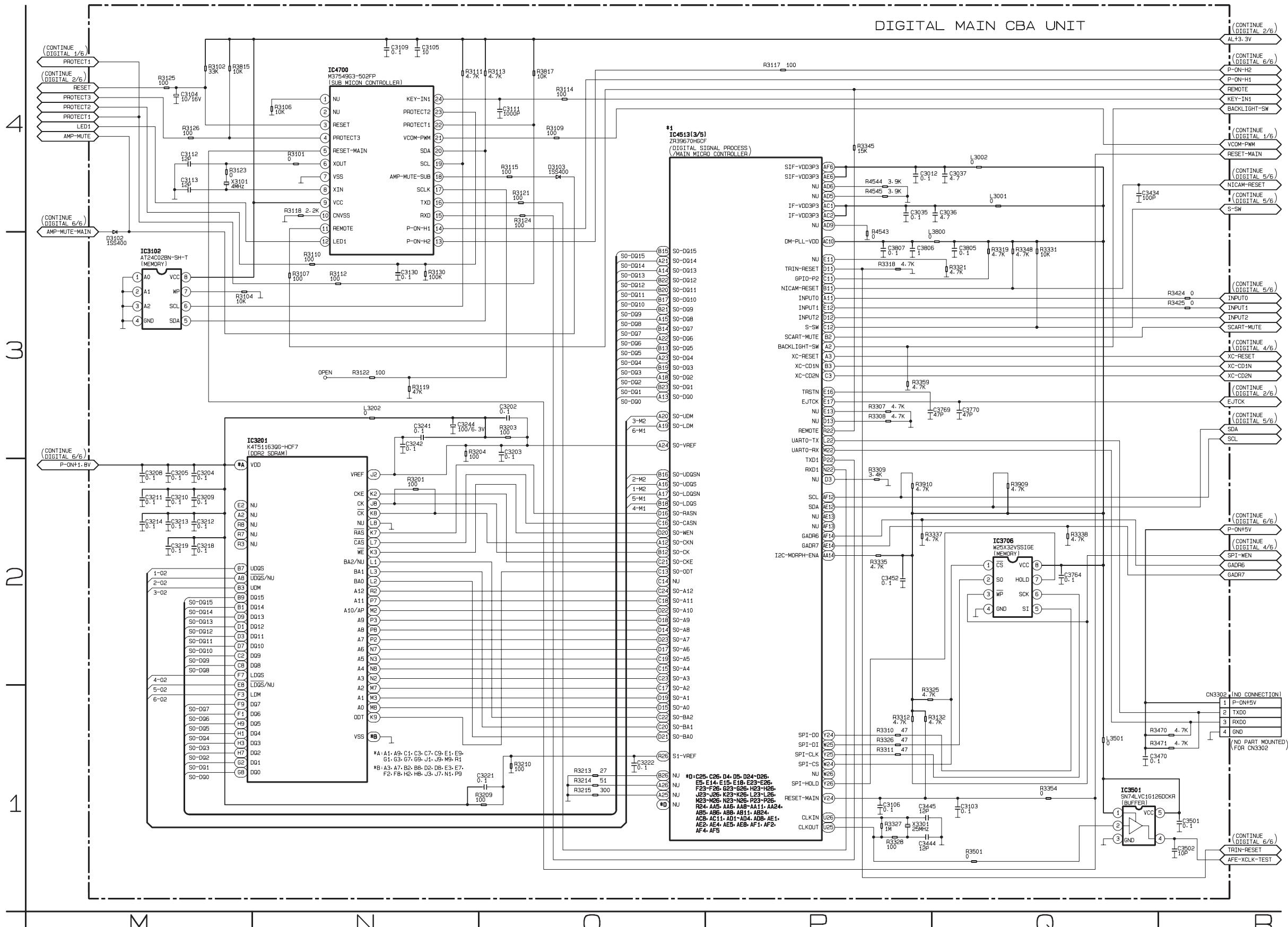
IC4513 is divided into seven and shown as IC4513 (1/5) ~ IC4513 (4/5) in this Digital Main Schematic Diagram Section.



Digital Main 3/6 Schematic Diagram

*1 NOTE:

The order of pins shown in this diagram is different from that of actual IC4513.
IC4513 is divided into seven and shown as IC4513 (1/5) ~ IC4513 (4/5) in this Digital Main Schematic Diagram Section.

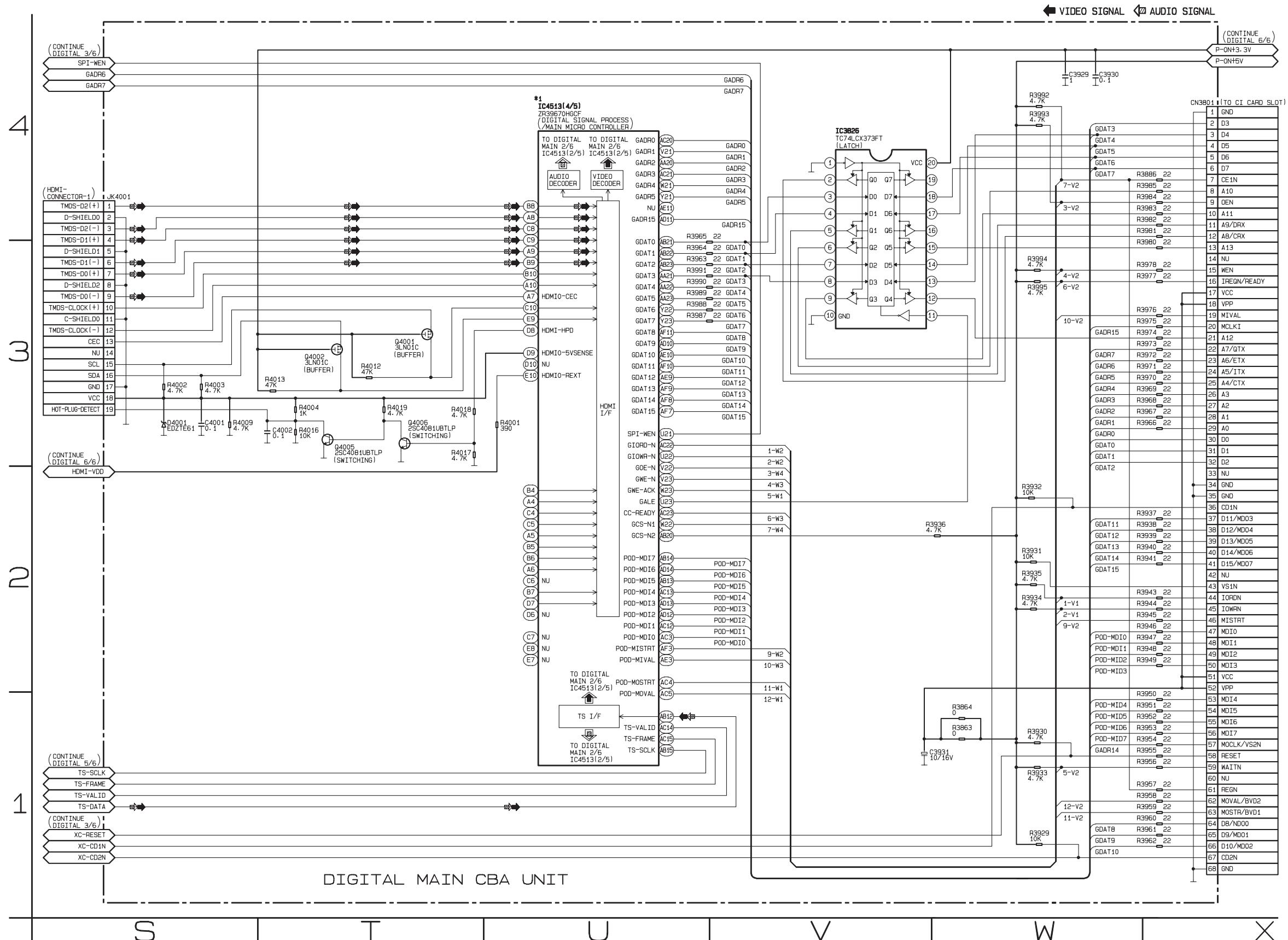


Digital Main 4/6 Schematic Diagram

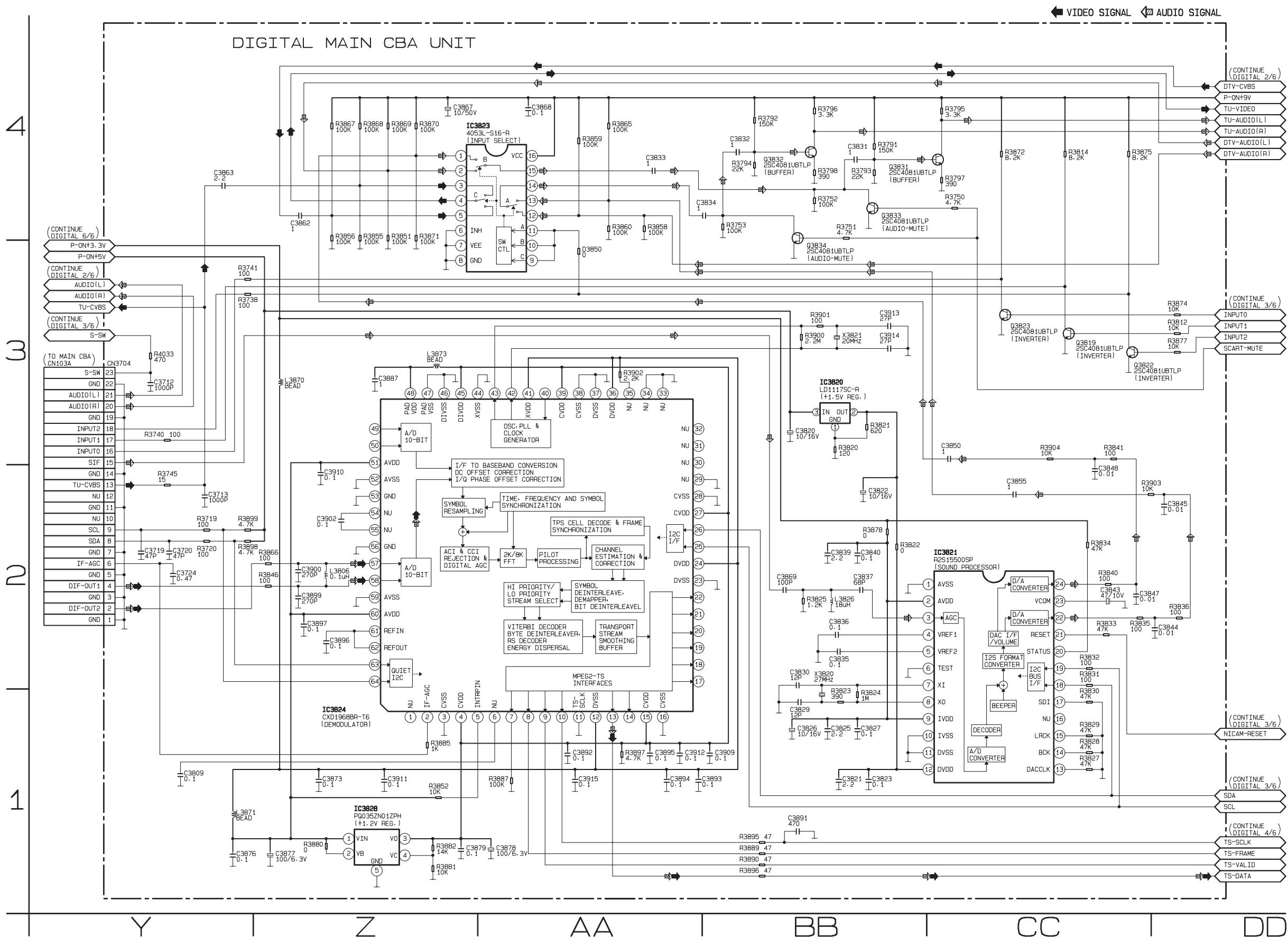
***1 NOTE:**

The order of pins shown in this diagram is different from that of actual IC4513.

IC4513 is divided into seven and shown as IC4513 (1/5) ~ IC4513 (4/5) in this Digital Main Schematic Diagram Section.



Digital Main 5/6 Schematic Diagram

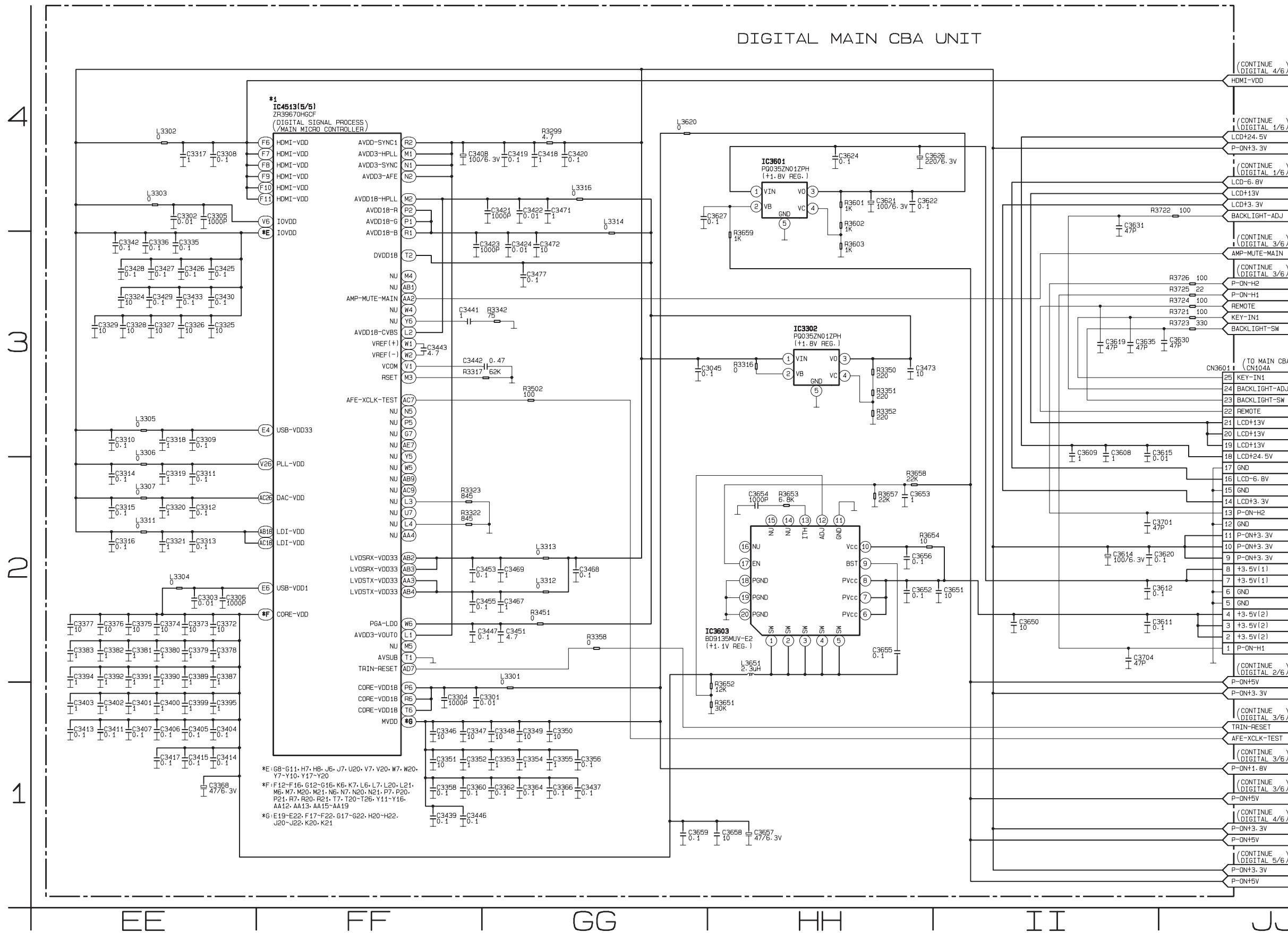


Digital Main 6/6 Schematic Diagram

*1 NOTE

NOTE: The order of pins shown in this diagram is different from that of actual IC451.

IC4513 is divided into seven and shown as IC4513 (1/5) ~ IC4513 (4/5) in this Digital Main Schematic Diagram Section.



Main CBA Top View

CAUTION !

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

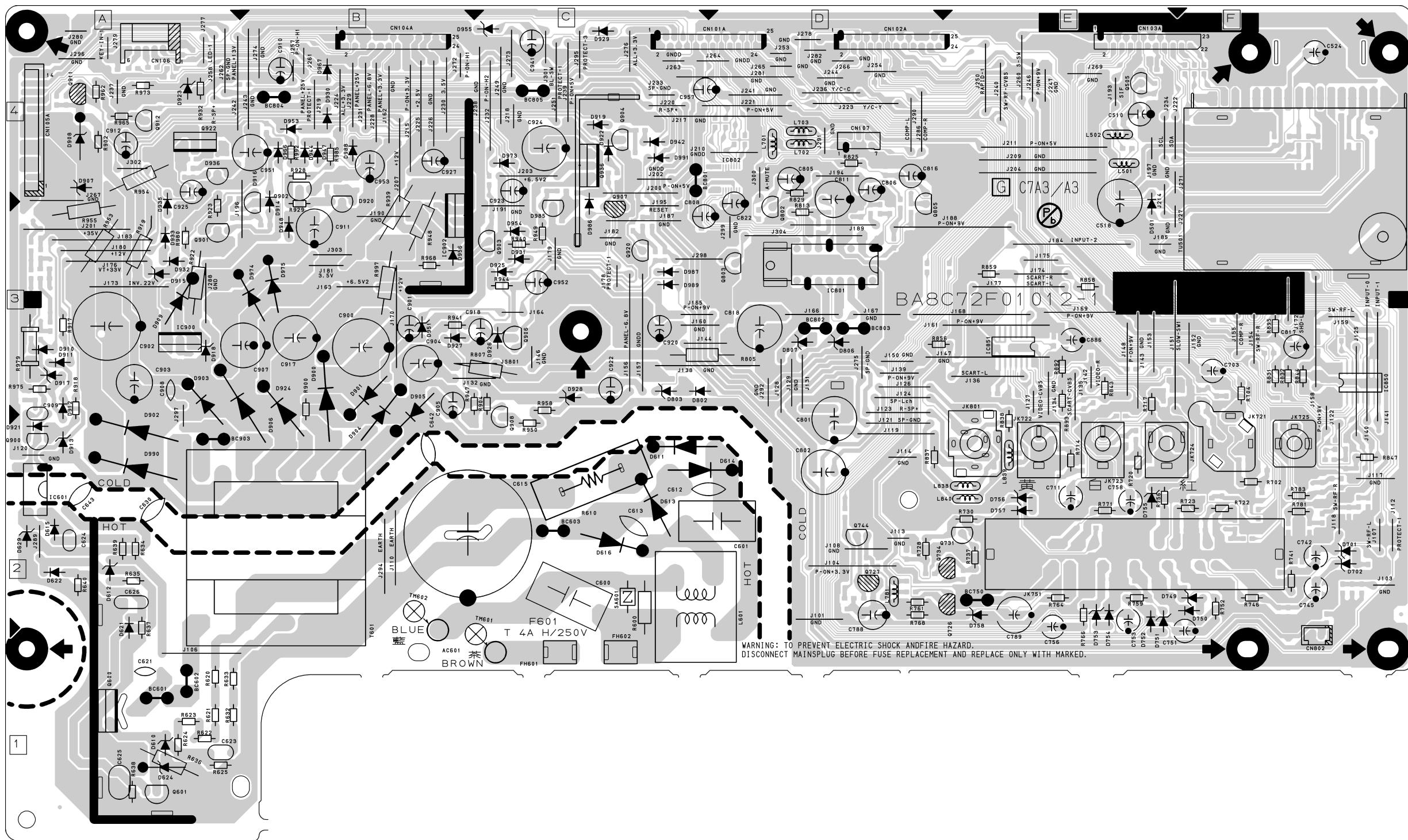
NOTE:

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

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.

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



Main CBA Bottom View

CAUTION !

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

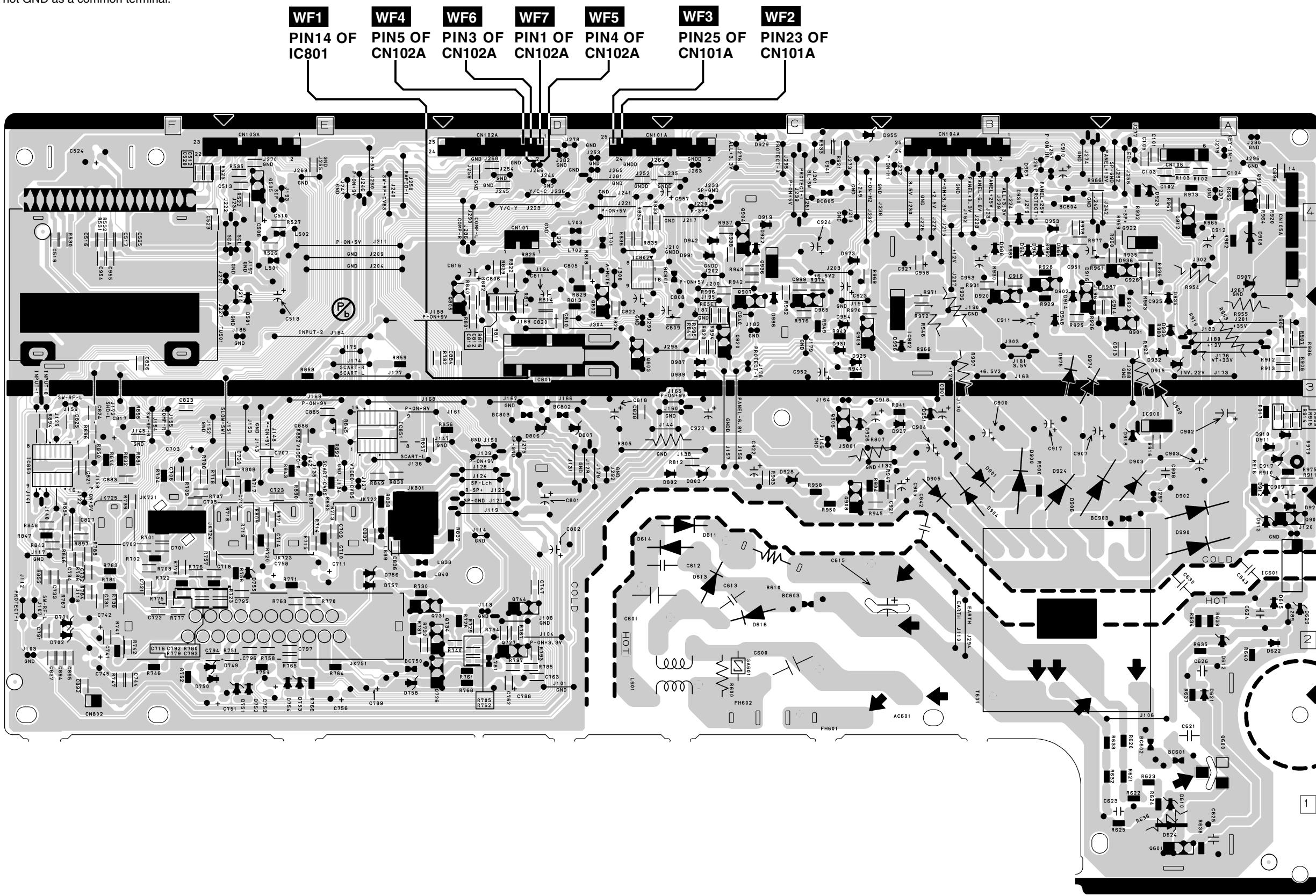
NOTE:

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

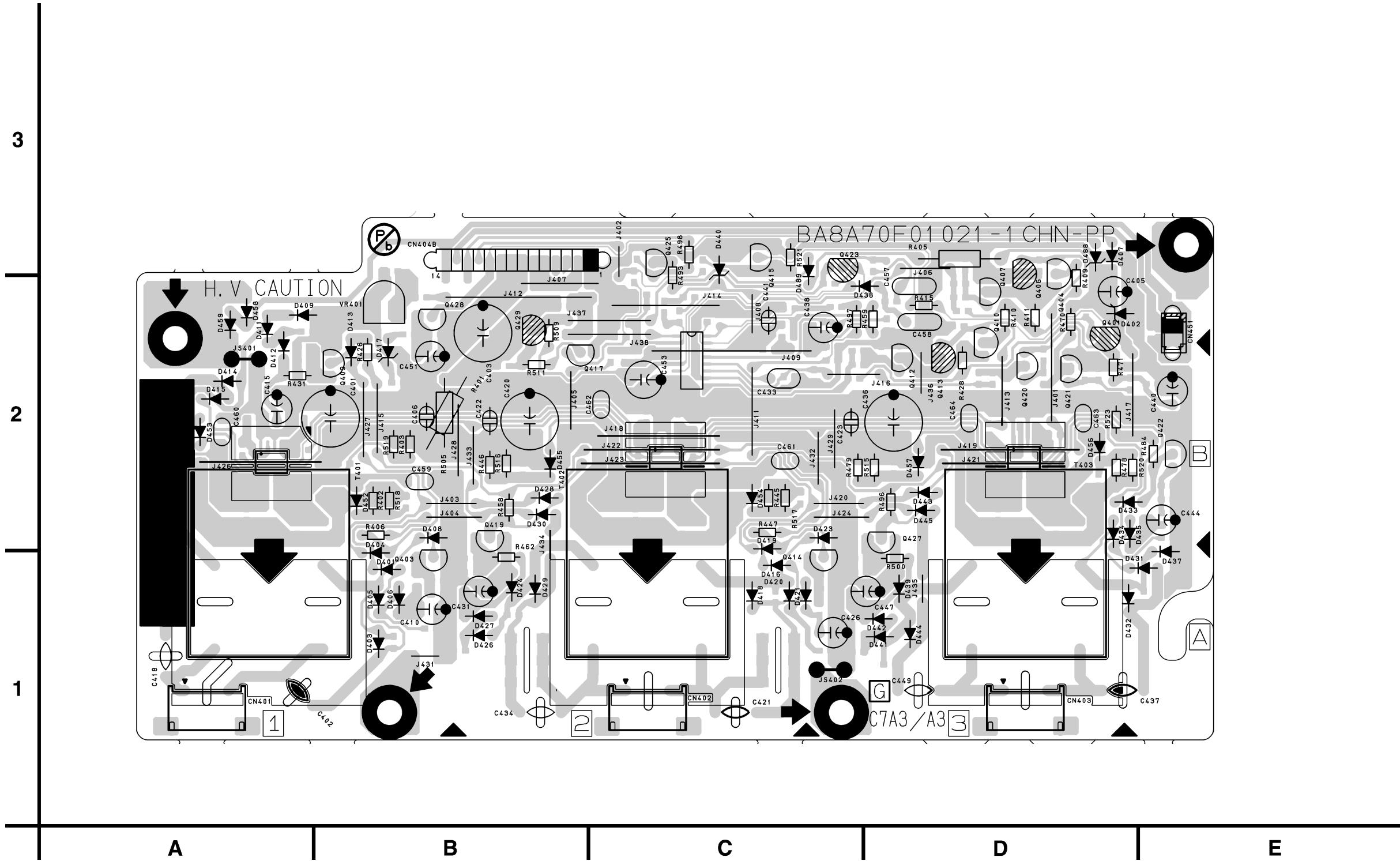
CAUTION !

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.

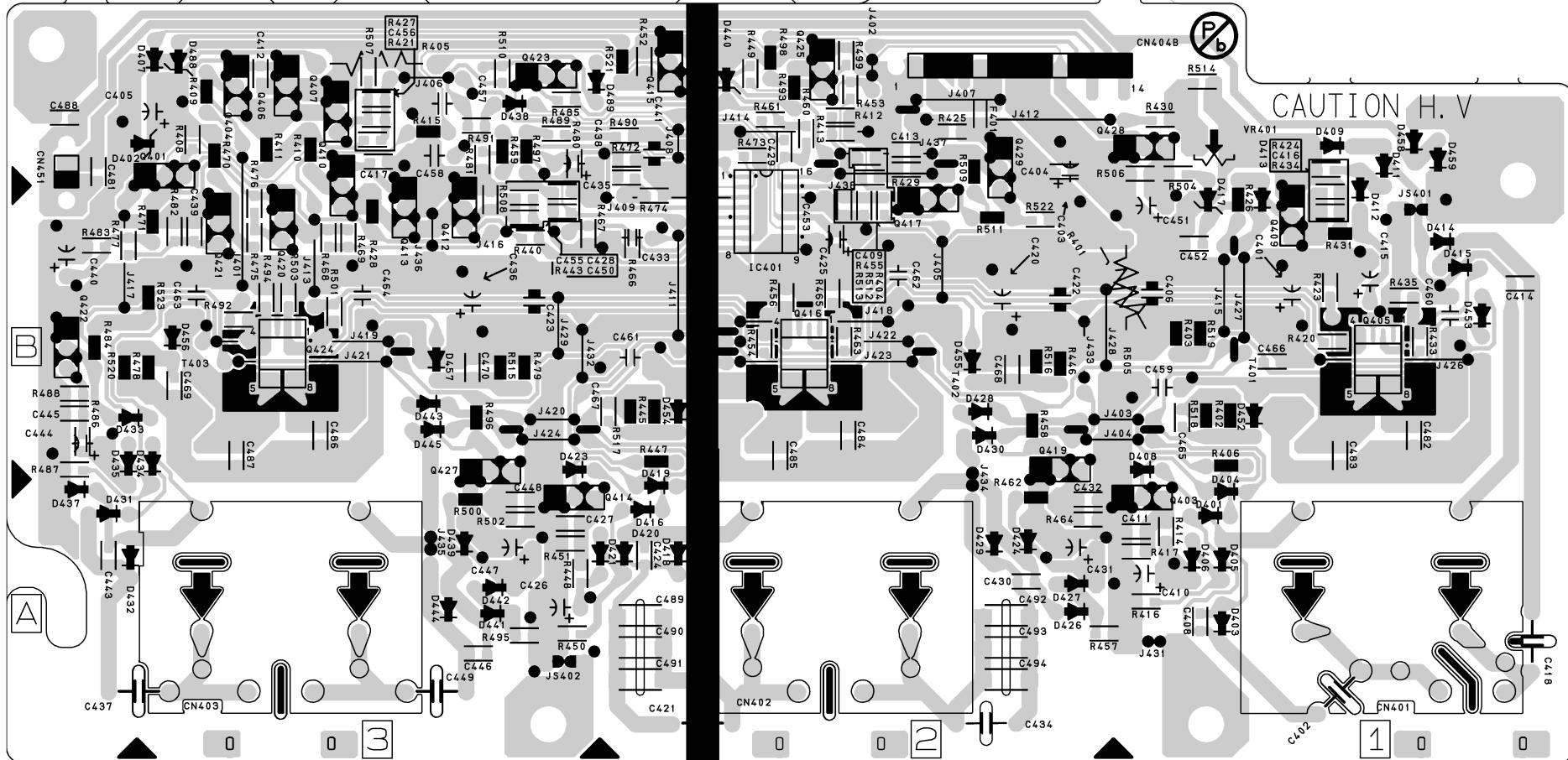
Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly, when troubleshooting this type power supply circuit, a variable isolation transformer is required.



Inverter CBA Top View



Inverter CBA Bottom View



E

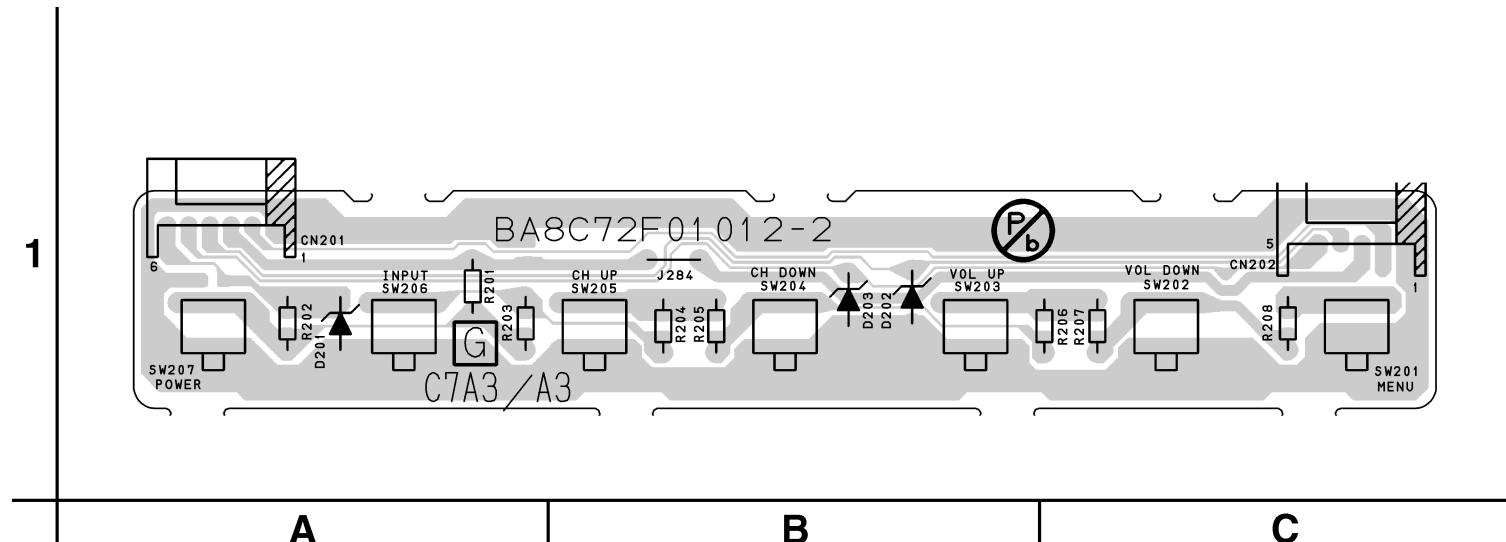
D

C

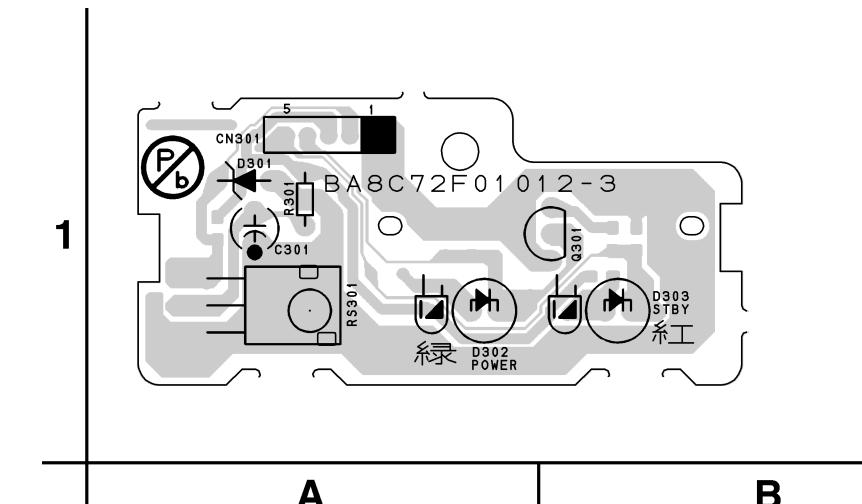
B

A

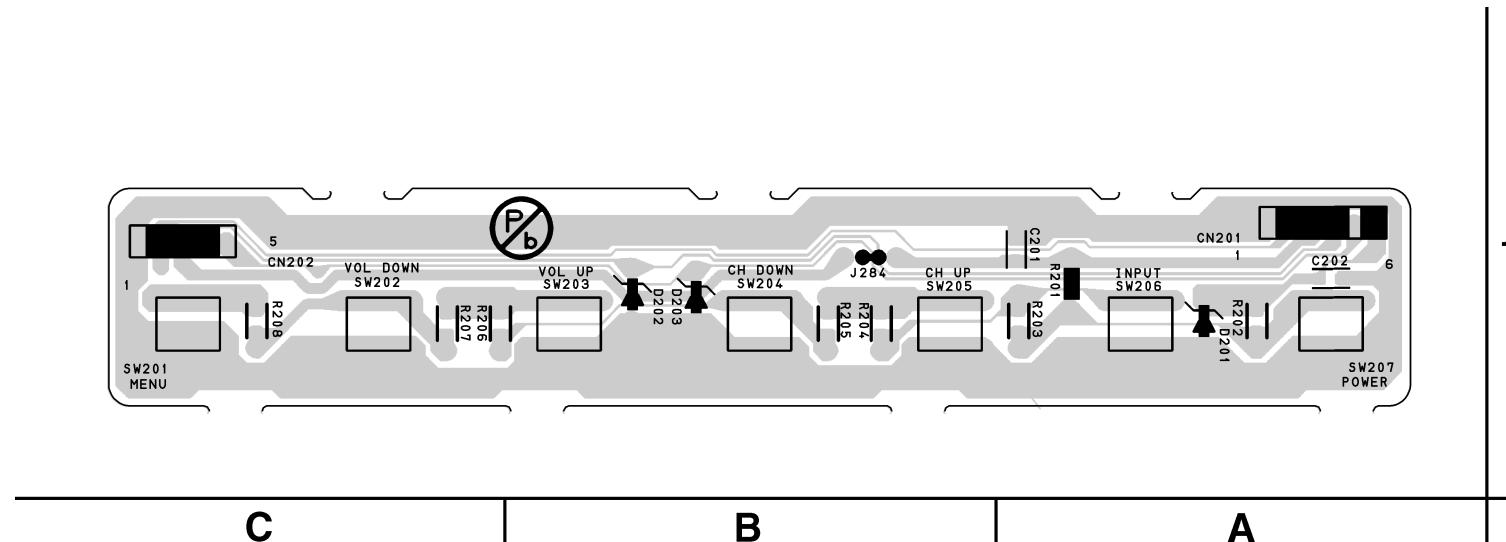
Function CBA Top View



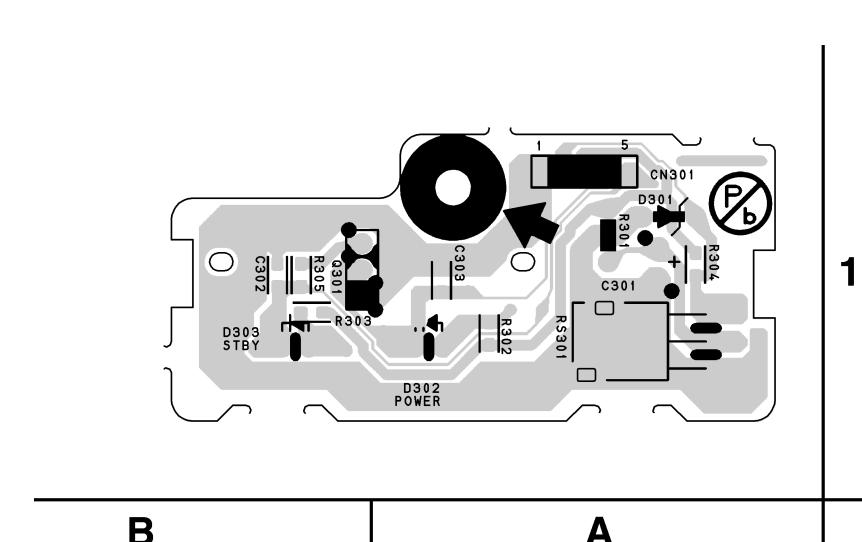
IR Sensor CBA Top View



Function CBA Bottom View



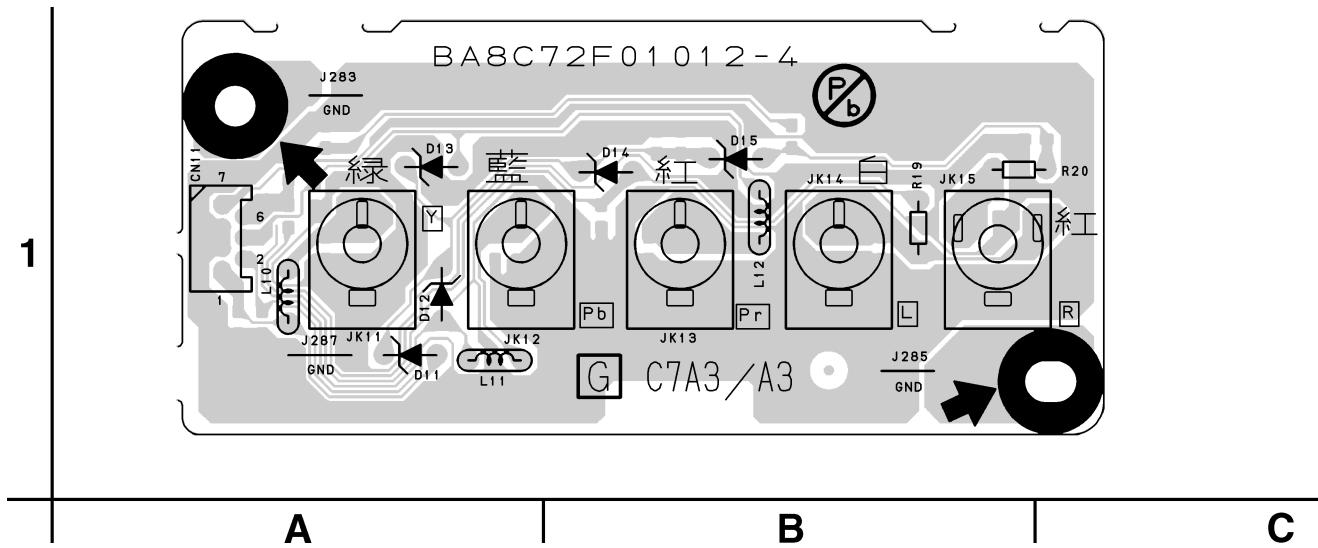
IR Sensor CBA Bottom View



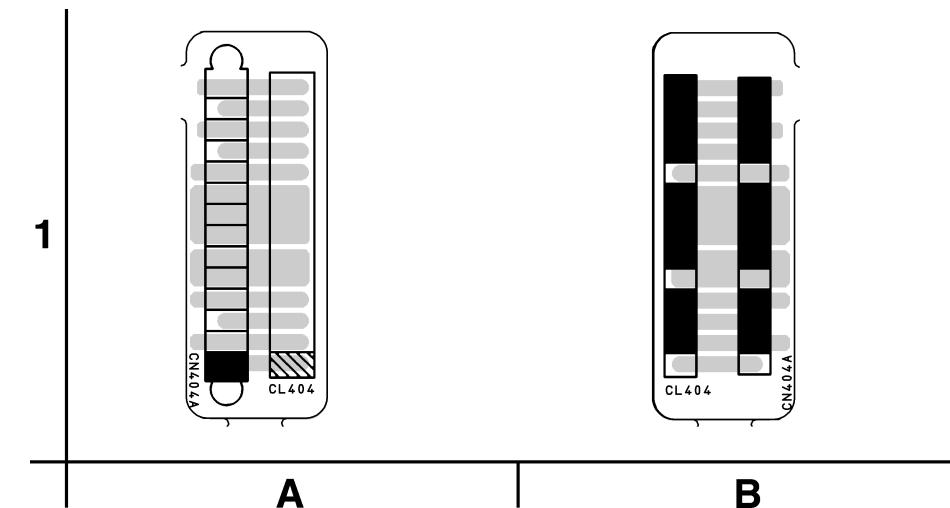
BA8C72F01012-2

BA8C72F01012-3

Jack CBA Top View

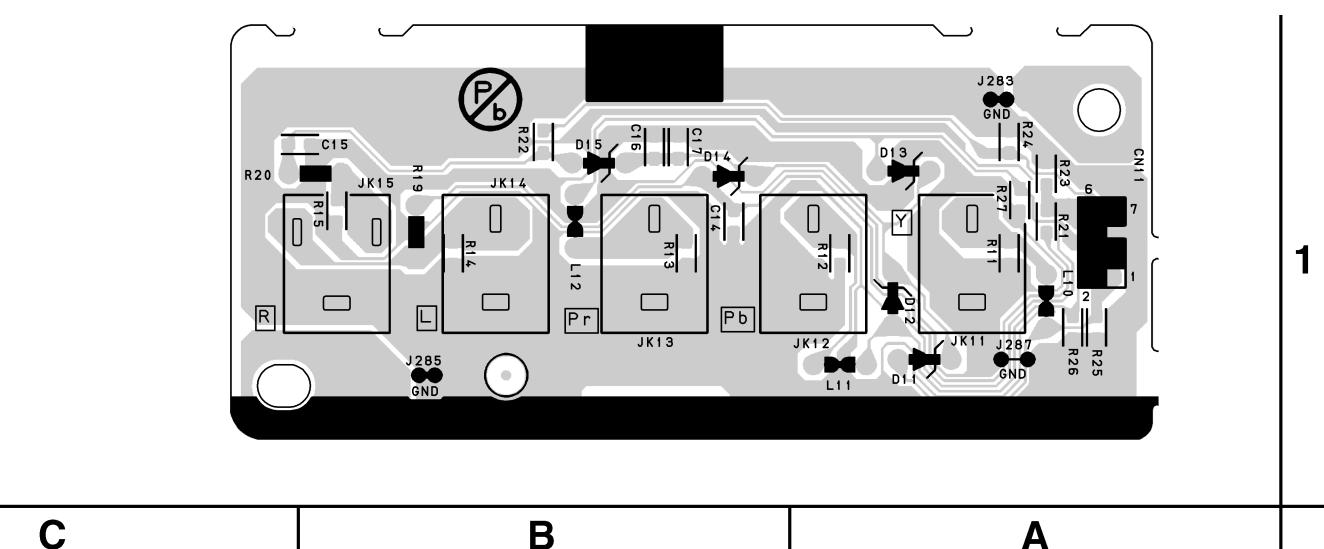


Junction CBA Top & Bottom View



BA8A70F01021

Jack CBA Bottom View



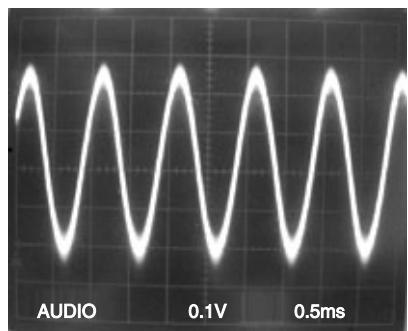
BA8C72F01012-4

WAVEFORMS

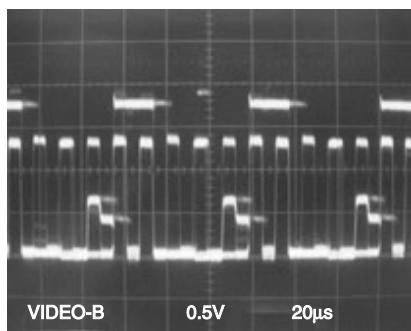
WF1 ~ WF7 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

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

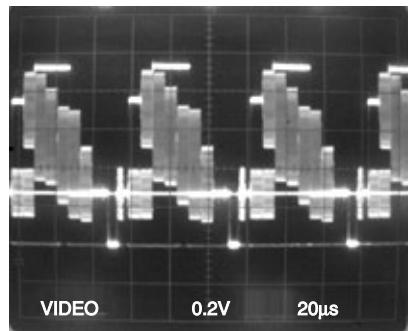
WF1 Pin 14 of IC801



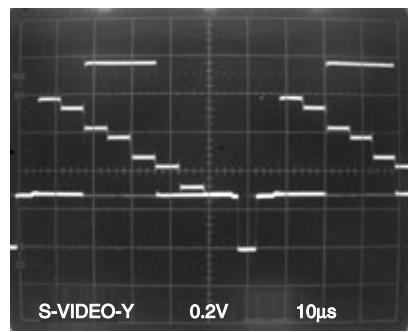
WF4 Pin 5 of CN102A



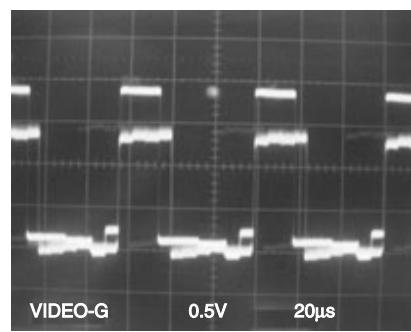
WF7 Pin 1 of CN102A



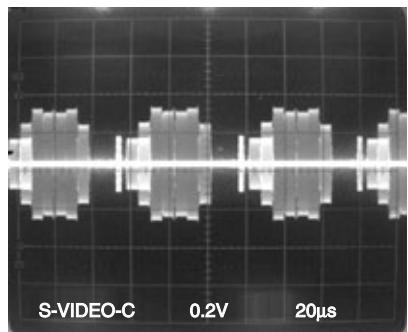
WF2 Pin 23 of CN101A



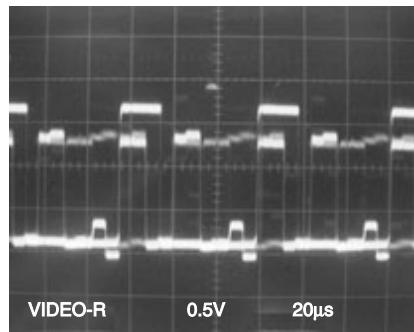
WF5 Pin 4 of CN102A



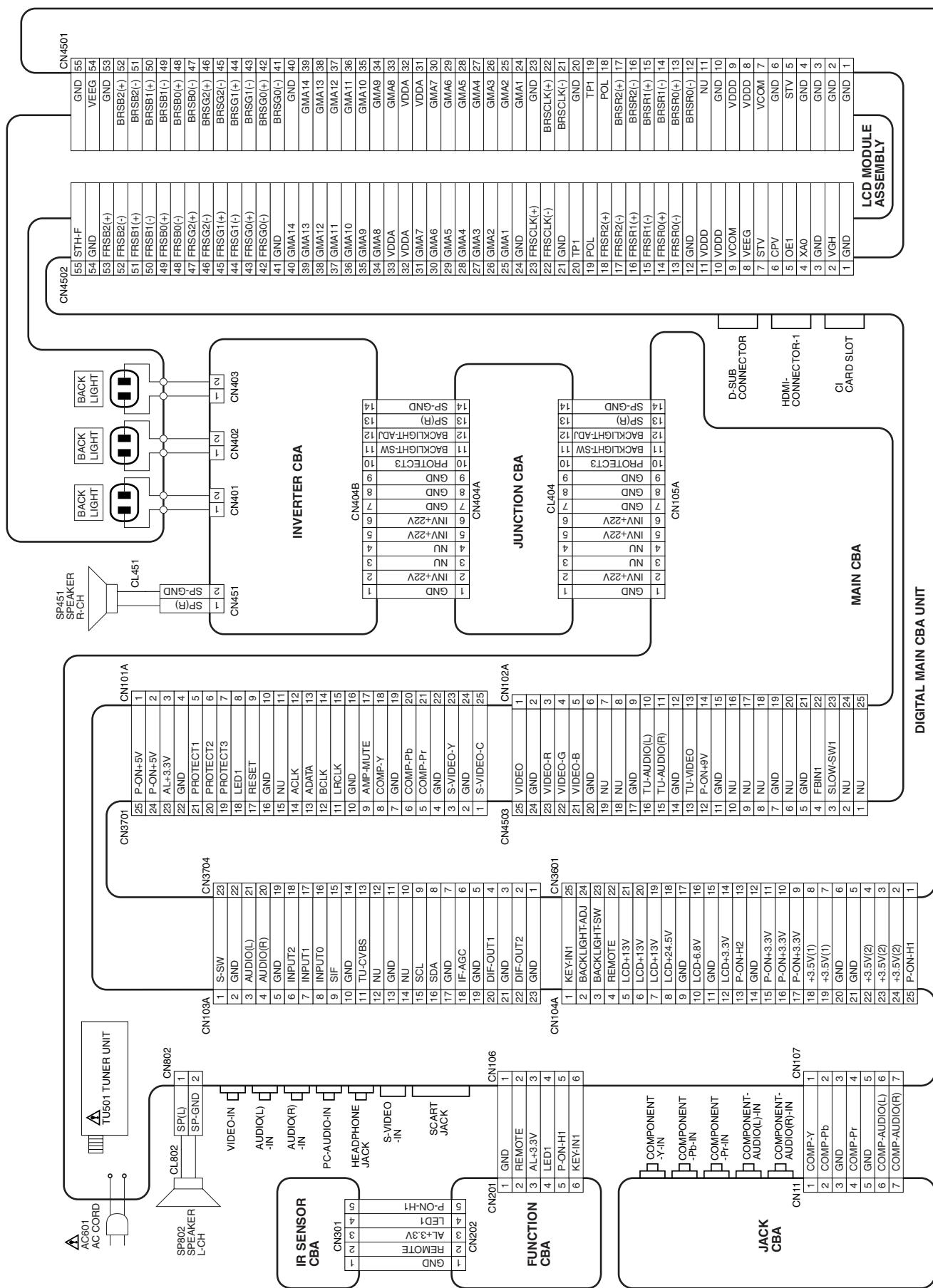
WF3 Pin 25 of CN101A



WF6 Pin 3 of CN102A

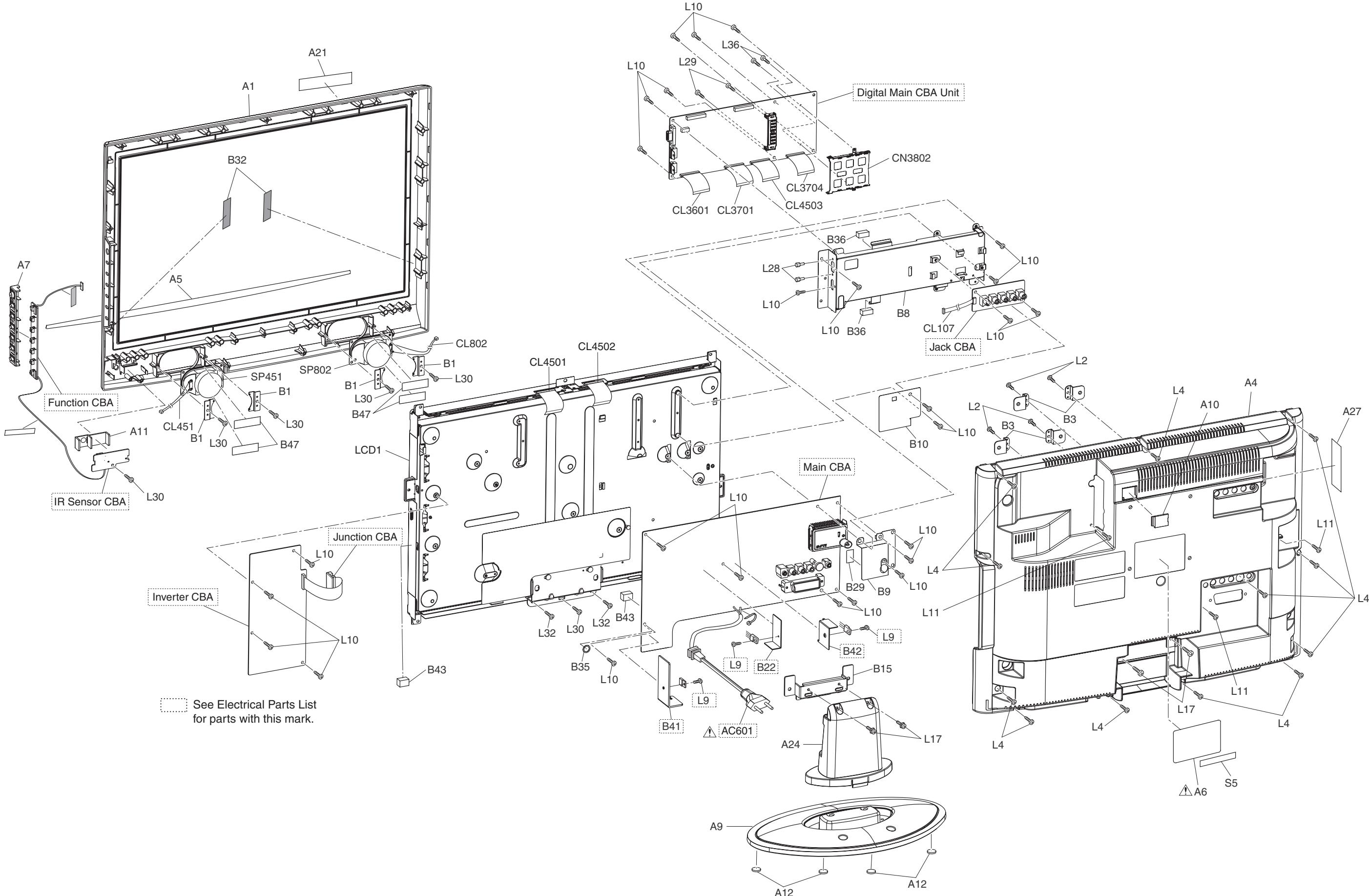


WIRING DIAGRAMS

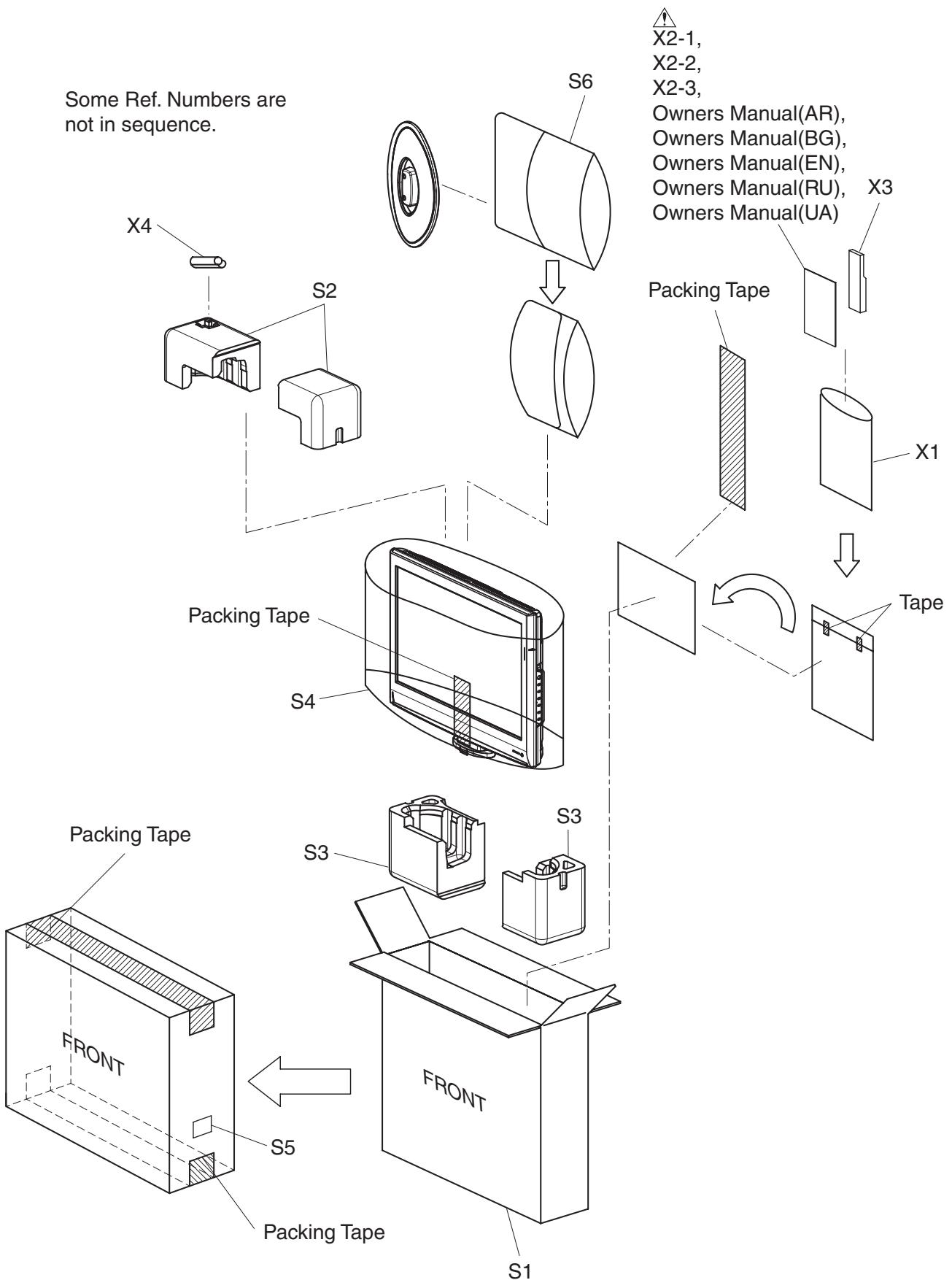


EXPLODED VIEWS

Cabinet



Packing



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
LT6-M22BB	A
LT6-M22WB	B

Ref. No.	Mark	Description	Part No.
L36		DOUBLE SEMS SCREW M2X6+ M2X6	FPJ32060
LCD1		LCD MODULE 22INCH WIDE CMO 22INCH WSXGA+	UG220EA
SP451		SPEAKER S0407F10 or	DSD0807XQ002
		SPEAKER MAGNETIC YDP47-1FN	DSD0807EFU01
SP802		SPEAKER S0407F10 or	DSD0807XQ002
		SPEAKER MAGNETIC YDP47-1FN	DSD0807EFU01
		PACKING	
S4		SET BAG A81N0UH	1EM322872A
S6		STAND BAG A81N0UH	1EM424597
		ACCESSORIES	
X3	A	REMOTE CONTROL NF028RD 170/ ECPLC6.501/NF028	NF028RD
X3	B	REMOTE CONTROL NF031RD 170/ ECPLC6.501/NF031	NF031RD

Ref. No.	Mark	Description	Part No.
A1	A	FRONT CABINET A8C70EP	1EM022865A
A1	B	FRONT CABINET A8C71EP	1EM023145A
A4	A	REAR CABINET A8C72EP	1EM023147B
A4	B	REAR CABINET A8C73EP	1EM023265B
A5	A	DECORATION PLATE A8A70UH	1EM222263
A5	B	DECORATION PLATE A8C71EP	1EM2222643
A7	A	FUNCTION KNOB A8CN0FP	1EM222143A
A7	B	FUNCTION KNOB A8CN3FP	1EM324537A
A9	A	STAND COVER A8CN0FP	1EM022467
A9	B	STAND COVER A8CN3FP	1EM222443
A10	A	REAR COVER A73F0EP	1EM322722
A10	B	REAR COVER A8C71EP	1EM325157A
A11		SENSOR LED LENS A8CN0FP	1EM323959
A12		STAND RUBBER FOOT A8AN0UH	1EM426377
A24	A	NECK COVER A8A70UH	1EM325318
A24	B	NECK COVER A8C71EP	1EM325159
B1		SPEAKER HOLDER A7120UH	1EM423986
B3		WALL MOUNT BRACKET A84N0UH	1EM323797
B8		SHIELD BOX A8CN0FP	1EM122473
B9		SHIELD (T) A8CN6EP	1EM325219
B10		FFC SHIELD A8CN6EP	1EM427320
B15		STAND HINGE A8C70EP	1EM325037
B29		CLOTH(10X30XT0.5) B5900UA	0EM404486
B32		CLOTH(15X40XT0.5) A7140UH	1EM424366
B36		GASKET A8AF0UH	1EM425861
B47		CLOTH(10X40XT1) A8A70UH	1EM427377
CL107		WIRE ASSEMBLY 7PIN WX1A8CN0-012	WX1A8CN0-012
CL451		WIRE ASSEMBLY 2PIN WX1A8C70-002	WX1A8C70-002
CL802		WIRE ASSEMBLY 2PIN WX1A8C70-002	WX1A8C70-002
CL3601		WIRE ASSEMBLY 25PIN WX1A8CN0-006	WX1A8CN0-006
CL3701		WIRE ASSEMBLY 25PIN WX1A8CN0-006	WX1A8CN0-006
CL3704		WIRE ASSEMBLY 23PIN WX1A8CN0-005	WX1A8CN0-005
CL4501		WIRE ASSEMBLY FFC 55PIN FFC WIRE/ 55PIN/42MM	WX1A8A70-101
CL4502		WIRE ASSEMBLY FFC 55PIN FFC WIRE/ 55PIN/42MM	WX1A8A70-101
CL4503		FFC WIRE 25PIN WX1A8C70-005	WX1A8C70-005
CN3802		CONNECTOR IC CARD OSU SLOT 2013858-1	J620680AP001
L2		SCREW P-TIGHT M3X8 BIND HEAD+	GBJP3080
L10		SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
L17		DOUBLE SEMS SCREW M4X9 + BLACK L0130UA	0EM408146A
L28		HEX SCREW #4-40 7MM	1EM422042
L29		DOUBLE SEMS SCREW M2X10+ M2X10	FPJ32100
L30		SCREW P-TIGHT M3X10 BIND HEAD+	GBJP3100

Ref. No.	Mark	Description	Part No.
A6 	A	RATING LABEL A8C72EP	-----
A6 	B	RATING LABEL A8C73EP	-----
A21		POP LABEL A8CN1EP	-----
A27		CARD LABEL A8CN0FP	-----
B35		WASHER(D12) A8C70EP	1EM427237
B43		RUBBER CUSHION (10X15X10) A71F3UH	1EM424529
L4		SCREW P-TIGHT 3X12 BIND HEAD+ BLK	GBHP3120
L10		SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
L11		SCREW S-TIGHT M3X8 BIND HEAD+	GBHS3080
L17		DOUBLE SEMS SCREW M4X9 + BLACK L0130UA	0EM408146A
L30		SCREW P-TIGHT M3X10 BIND HEAD+	GBJP3100
L32		SCREW P-TIGHT D4X10 BIND HEAD+	GBJP4100
		PACKING	
S1	A	CARTON A8C70EP	1EM325099A
S1	B	CARTON A8C71EP	1EM427439A
S2		STYROFOAM TOP A8C70EP	1EM022885A
S3		STYROFOAM BOTTOM A8C70EP	1EM022886A
S5		SERIAL NO. LABEL L9750UA	-----
		ACCESSORIES	
X1		BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X4		BATTERY R6DB/2PA	XB0M601MS003
X2-1 		OWNERS MANUAL(DE-6) DE IT EL SV FR EN	1EMN23923
X2-2 		OWNERS MANUAL(FR-6) FR ES PT IT DE NL	1EMN23924
X2-3 		OWNERS MANUAL(PL-6) PL DE HU RO CS SK	1EMN23925
		OWNER'S MANUAL(AR)	1EMN23926
		OWNER'S MANUAL(BG)	1EMN23927
		OWNER'S MANUAL(EN)	1EMN23928
		OWNER'S MANUAL(RU)	1EMN23929
		OWNER'S MANUAL(UA)	1EMN23930

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:

1. Parts that are not assigned part numbers (-----) are not available.
2. 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%

Comparison Chart of Models and Marks

Model	Mark
LT6-M22BB	A
LT6-M22WB	B

DIGITAL MAIN CBA UNIT

Ref. No.	Description	Part No.
	DIGITAL MAIN CBA UNIT	1ESA19428

MMA CBA

Ref. No.	Mark	Description	Part No.
	A	MMA CBA	1ESA18405
	B	MMA CBA Consists of the following:	1ESA18486
		MAIN CBA FUNCTION CBA IR SENSOR CBA JACK CBA	----- ----- ----- -----

MAIN CBA

Ref. No.	Mark	Description	Part No.
		MAIN CBA Consists of the following:	-----
CAPACITORS			
C102		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C103		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C104		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C105		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C508		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C510		ELECTROLYTIC CAP. 100μF/10V M	CE1AMASDL101
C512		CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470
C513		CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C516		CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C517		CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C518		ELECTROLYTIC CAP. 1000μF/10V M	CE1AMASDL102
C519		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C520		CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470

Ref. No.	Mark	Description	Part No.
C524		ELECTROLYTIC CAP. 33μF/16V M H7	CE1CMAVSL330
C525		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C600△		METALIZED FILM CAP. 0.22μF/250V or	CT2E224MS037
△		CAP METALIZED FILM 0.22μF/300V K 3.5MM	CT2F224DC004
C601△		METALIZED FILM CAP. 0.1μF/250V or	CT2E104MS037
△		CAP METALIZED FILM 0.1μF/300V K 3.5MM	CT2F104DC004
C615△		CAP ELECTROLYTIC 180μF/400V M	CA2H181DYG10
C621		CERAMIC CAP. 470pF/2KV or	CA3D471PAN04
		CERAMIC CAP. BL 470pF/2KV	CA3D471XF003
C623		POLYESTER FILM CAP. (PB FREE) 0.01μF/100V J or	CA2A103DT018
		CAP POLYESTER FILM 0.01μF/100V J	CA2A103SER02
C624		POLYESTER FILM CAP. (PB FREE) 0.0015μF/100V J or	CA2A152DT018
		CAP POLYESTER FILM 0.0015μF/100V J	CA2A152SER02
C625		POLYESTER FILM CAP. (PB FREE) 0.068μF/100V J or	CA2A683DT018
		CAP POLYESTER FILM 0.068μF/100V J	CA2A683SER02
C630△		SAFTY CAP. 1000pF/250V KX or	CA2E102MR101
△		SAFETY CAP. 1000pF/250V KX or	CA2E102MR050
△		CAP CERAMIC 1000pF/250V/M	CA2E102MR086
C642△		SAFETY CAP. 2200pF/250V KX or	CA2E222MR050
△		SAFTY CAP. 2200pF/250V KX or	CA2E222MR101
△		CAP CERAMIC 2200pF/250V/M	CA2E222MR086
C702		CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C703		ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C707		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C710		CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C711		ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C712		CHIP CERAMIC CAP.(1608) B K 5600pF/50V	CHD1JK30B562
C714		CHIP CERAMIC CAP.(1608) B K 5600pF/50V	CHD1JK30B562
C716		CHIP CERAMIC CAP.(1608) B K 5600pF/50V	CHD1JK30B562
C718		CHIP CERAMIC CAP.(1608) B K 5600pF/50V	CHD1JK30B562
C720		CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C721		CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C722		CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C723		CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C731		CHIP CERAMIC CAP.(1608) B K 5600pF/50V	CHD1JK30B562
C732		CHIP CERAMIC CAP.(1608) B K 5600pF/50V	CHD1JK30B562
C733		CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C734		CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C741		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C742		ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C744		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C745		ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C747		CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C751		ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C753		ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C756		ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C758		ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C788		ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C789		ELECTROLYTIC CAP. 330μF/6.3V M H7	CE0KMAVSL331
C791		CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C792		CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C793		CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C794		CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101

Ref. No.	Mark	Description	Part No.
C795		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C796		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C797		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C801		ELECTROLYTIC CAP 470 μ F/16V M	CE1CMASDL471
C802		ELECTROLYTIC CAP 470 μ F/16V M	CE1CMASDL471
C806		ELECTROLYTIC CAP 100 μ F/10V M	CE1AMASDL101
C808		ELECTROLYTIC CAP 100 μ F/10V M	CE1AMASDL101
C809		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/ 50V	CHD1JZ30F104
C810		CHIP CERAMIC CAP.(1608) B K 1 μ F/10V	CHD1AK30B105
C811		ELECTROLYTIC CAP 330 μ F/16V M	CE1CMASDL331
C812		CHIP CERAMIC CAP.(1608) B K 1 μ F/10V	CHD1AK30B105
C816		ELECTROLYTIC CAP 22 μ F/50V M	CE1JMASDL220
C818		ELECTROLYTIC CAP 470 μ F/16V M	CE1CMASDL471
C819		CHIP CERAMIC CAP. B K 3900pF/50V	CHD1JK30B392
C820		CHIP CERAMIC CAP. B K 3900pF/50V	CHD1JK30B392
C822		ELECTROLYTIC CAP 10 μ F/50V M	CE1JMASDL100
C823		CHIP CERAMIC CAP.(1608) B K 1 μ F/10V	CHD1AK30B105
C824		CHIP CERAMIC CAP.(1608) B K 1 μ F/10V	CHD1AK30B105
C825		CHIP CERAMIC CAP.(1608) B K 1 μ F/10V	CHD1AK30B105
C826		CHIP CERAMIC CAP.(1608) B K 1 μ F/10V	CHD1AK30B105
C827		CHIP CERAMIC CAP.(1608) B K 1 μ F/10V	CHD1AK30B105
C828		CHIP CERAMIC CAP.(1608) B K 0.1 μ F/ 16V	CHD1CK30B104
C835		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C836		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C837		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/ 50V	CHD1JZ30F104
C883		CHIP CERAMIC CAP.(1608) B K 1 μ F/10V	CHD1AK30B105
C884		CHIP CERAMIC CAP.(1608) B K 1 μ F/10V	CHD1AK30B105
C892		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C894		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C895		CHIP CERAMIC CAP.(1608) CH J 100pF/ 50V	CHD1JJ3CH101
C900		ELECTROLYTIC CAP 3300 μ F/10V or	CE1AMZNDL332
		ELECTROLYTIC CAP 3300 μ F/10V M	CE1AMZPDL332
C901		ELECTROLYTIC CAP 2.2 μ F/50V M	CE1JMASDL2R2
C902		ELECTROLYTIC CAP 3300 μ F/25V M or	CE1EMZPDL332
		ELECTROLYTIC CAP 3300 μ F/25V M	CE1EMZNDL332
C903		ELECTROLYTIC CAP 100 μ F/50V M	CE1JMASDL101
C904		ELECTROLYTIC CAP 330 μ F/25V M	CE1EMASDL331
C905		ELECTROLYTIC CAP 47 μ F/25V M	CE1EMASDL470
C907		CAP ALUMINUM ELECTROLYTIC 2200 μ F/ 6.3V M or	CE0KMZNDL222
		ELECTROLYTIC CAP 2200 μ F/6.3V M	CE0KMZPDL222
C908		CERAMIC CAP. B K 470pF/500V	CCD2JKS0B471
C909		POLYESTER FILM CAP. (PB FREE) 0.0027 μ F/100V J or	CA2A272DT018
		CAP POLYESTER FILM 0.0027 μ F/100V J	CA2A272SER02
C910		ELECTROLYTIC CAP 22 μ F/50V M	CE1JMASDL220
C911		ELECTROLYTIC CAP 470 μ F/16V M	CE1CMASDL471
C912		ELECTROLYTIC CAP 1 μ F/50V M	CE1JMASDL1R0
C914		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/ 50V	CHD1JZ30F104
C916		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/ 50V	CHD1JZ30F104
C917		ELECTROLYTIC CAP 1000 μ F/16V M	CE1CMASDL102
C920		ELECTROLYTIC CAP 10 μ F/50V M	CE1JMASDL100
C921		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/ 50V	CHD1JZ30F104
C922		ELECTROLYTIC CAP 10 μ F/50V M	CE1JMASDL100
C923		ELECTROLYTIC CAP 10 μ F/50V M	CE1JMASDL100
C924		ELECTROLYTIC CAP 470 μ F/16V M	CE1CMASDL471
C925		ELECTROLYTIC CAP 10 μ F/50V M	CE1JMASDL100
C926		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/ 50V	CHD1JZ30F104

Ref. No.	Mark	Description	Part No.
C927		ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C940		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/ 50V	CHD1JZ30F104
C941		ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C951		ELECTROLYTIC CAP. 220 μ F/16V M	CE1CMASDL221
C952		ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C953		ELECTROLYTIC CAP. 330 μ F/10V M	CE1AMASDL331
C958		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/ 50V	CHD1JZ30F104
C999		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/ 50V	CHD1JZ30F104
CONNECTORS			
CN101A		FMN CONNECTOR TOP25P 25FMN-BTK-A(LF)(SN) or	JCFNG25JG019
		FFC CONNECTOR IMSA-9615S-25A-PP-A	JC96J25ER007
CN102A		FMN CONNECTOR TOP25P 25FMN-BTK-A(LF)(SN) or	JCFNG25JG019
		FFC CONNECTOR IMSA-9615S-25A-PP-A	JC96J25ER007
CN103A		FMN CONNECTOR TOP 23P 23FMN-BTK-A(LF)(SN) or	JCFNG23JG019
		FFC CONNECTOR IMSA-9615S-23A-PP-A	JC96J23ER007
CN104A		FMN CONNECTOR TOP25P 25FMN-BTK-A(LF)(SN) or	JCFNG25JG019
		FFC CONNECTOR IMSA-9615S-25A-PP-A	JC96J25ER007
CN105A		242 SERIES CONNECTOR 224202114W1	J322C14TG001
CN106		CONNECTOR PRINT OSU S6B-PH-K-S(LF)(SN) or	J3PHC06JG030
		CONNECTOR PRINT OSU C R 440055-6 or	J344C06AP006
		CONNECTOR PRINT OSU JS-1125R-06	J3JT06CHY003
CN107		FMN CONNECTOR TOP 7P 07FMN-BTK-A(LF)(SN) or	JCFNG07JG019
		FPC/FFC CONNECTOR IMSA-9615S-07A-PP-A	JC96J07ER007
CN802		CONNECTOR PRINT OSU 00828302120000S+ or	J383C02UG004
		CONNECTOR PRINT OSU 2P 292161-2	J31FC02AP001
DIODES			
D501		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D610△		ZENER DIODE MTZJT-7722B	QDTB00MTZJ22
D611△		DIODE 1N5399-B/P or	NDLZ001N5399
△		DIODE 1N5399BE	NDL1001N5399
D612		ZENER DIODE MTZJT-7710B	QDTB00MTZJ10
D613△		DIODE 1N5399-B/P or	NDLZ001N5399
△		DIODE 1N5399BE	NDL1001N5399
D614△		DIODE 1N5399-B/P or	NDLZ001N5399
△		DIODE 1N5399BE	NDL1001N5399
D615		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D616△		DIODE 1N5399-B/P or	NDLZ001N5399
△		DIODE 1N5399BE	NDL1001N5399
D621		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D622		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D624		DIODE ZENER 1ZC18(Q) or	QDLZ001ZC18Q
		DIODE ZENER RD18F-T7-AZ-B or	QDJB0RD18FAZ
		DIODE ZENER 1ZB18BB	NDWZ0001ZB18
D629△		ZENER DIODE MTZJT-7733B	QDTB00MTZJ33
D701		ZENER DIODE MTZJT-7713B	QDTB00MTZJ13
D702		ZENER DIODE MTZJT-7713B	QDTB00MTZJ13
D755		ZENER DIODE MTZJT-773.3B	QDTB0MTZJ3R3
D758		ZENER DIODE MTZJT-7713B	QDTB00MTZJ13
D802△		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
△		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D803△		ZENER DIODE MTZJT-776.2B	QDTB0MTZJ6R2
D806		ZENER DIODE MTZJT-7715B	QDTB00MTZJ15

Ref. No.	Mark	Description	Part No.
D807		ZENER DIODE MTZJT-7715B	QDTB00MTZJ15
D900△		DIODE SCHOTTKY SB360BH	NDWZ000SB360
D901		DIODE FR104BB or	NDL1000FR104
		DIODE FR104-B	NDLZ000FR104
D902△		DIODE SCHOTTKY FD867-15L	QDWZFD86715L
D903△		DIODE FR104BB or	NDL1000FR104
△		DIODE FR104-B	NDLZ000FR104
D904△		DIODE FR154 or	NDLZ000FR154
△		DIODE FR154BD	NDL1000FR154
D905△		DIODE FR104BB or	NDL1000FR104
△		DIODE FR104-B	NDLZ000FR104
D906△		SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D907		ZENER DIODE MTZJT-7727B	QDTB00MTZJ27
D908		DIODE 1ZC43(Q) or	QDLZ001ZC43Q
		DIODE ZENER RD43F-T7-AZ-B or	QDJB0RD43FAZ
		DIODE ZENER 1ZB43BB	NDWZ001ZB43
D909		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D910		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D911		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D912		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D913△		ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D914		PCB JUMPER D0.6-P5.0	JW5.0T
D915		ZENER DIODE MTZJT-7733B	QDTB00MTZJ33
D916		IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
		IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
		IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0BCD01
D917		PCB JUMPER D0.6-P5.0	JW5.0T
D918		ZENER DIODE MTZJT-7712B	QDTB00MTZJ12
D919		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D920		IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
		IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
		IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0BCD01
D922		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D923		ZENER DIODE MTZJT-7724B	QDTB00MTZJ24
D924△		SCHOTTKY BARRIER DIODE SB270-B/ P	NDWZ000SB270
D925		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D926		ZENER DIODE MTZJT-7710B	QDTB00MTZJ10
D927		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D928		ZENER DIODE MTZJT-777.5A	QDTA0MTZJ7R5
D929		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D930		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D931		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D932		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D933		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D935		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D936		IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
		IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
		IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0BCD01
D942		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D944		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148

Ref. No.	Mark	Description	Part No.
D947		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D948		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D951		ZENER DIODE MTZJT-7715B	QDTB00MTZJ15
D953		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D954		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D955		ZENER DIODE MTZJT-7739B	QDTB00MTZJ39
D956		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D966		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D967		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D973		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D974		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D975		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D985		IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
		IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
		IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0BCD01
D986		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D987		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D988		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D989		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D990△		DIODE SCHOTTKY FD867-15L	QDWZFD86715L
D991		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
ICS			
IC601△		PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV
IC801		IC AN17812A or	QSZBA0SMS017
		IC AUDIO SA7412	NSZBA0SQ0007
IC802		IC(AUDIO D/A) PCM1782DBQR	NSZBA0TTY192
IC850		IC SWITCHING TC4052BF(ELNF) or	QSZBA0TTS162
		IC SWITCHING CD4052BNSR or	NSZBA0TTY091
		IC SWITCH HCF4052M013TR/SOP/16 or	NSZBA0TSS301
		IC SWITCH 4052L-S16-R/SOP-16	NSZBA0TUTC03
IC851		IC SWITCH TC4053BF(EL N F) or	QSZBA0TTS163
		IC SWITCH 4053L-S16-R or	NSZBA0TUTC04
		IC ANALOG MULTIPLEXERS HCF4053M013TR or	NSZBA0SSS002
		IC ANALOG MULTIPLEXER CD4053BNSR	NSZBA0TTY093
IC900		IC VOLTAGE REGULATOR 5V KIA7805API/P or	NSZBA0SJY041
		IC REGULATOR L7805CV/TO-220/3PIN or	NSZBA0SSS304
		IC REGULATOR AS7805T-E1/TO-220-3	NSZBA0SBCD03
IC902		IC REGULATOR KIA278R00PI-U/P	NSZBA0SJY062
COILS			
L501		INDUCTOR 10μH-K-5FT	LLARKBSTU100
L502		INDUCTOR 10μH-K-5FT	LLARKBSTU100
L601△		COIL LINE FILTER JLB20108	LLEG0Z0XB008
L701		INDUCTOR 2.2μH-J-26T	LLAXJATTU2R2
L702		INDUCTOR 2.2μH-J-26T	LLAXJATTU2R2
L703		INDUCTOR 2.2μH-J-26T	LLAXJATTU2R2
L781		PCB JUMPER D0.6-P5.0	JW5.0T
L838		INDUCTOR 2.2μH-J-26T	LLAXJATTU2R2
L839		INDUCTOR 2.2μH-J-26T	LLAXJATTU2R2
L840		INDUCTOR 2.2μH-J-26T	LLAXJATTU2R2

Ref. No.	Mark	Description	Part No.
TRANSISTORS			
Q505		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q600△		MOS FET 2SK3798(Q) or	QFW2SK3798Q
△		MOS FET 2SK3798(Q.M)	QFQZSK3798QM
Q601△		TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
△		TRANSISTOR 2SC2120-Y(TE2 F T) or	QQSY2SC2120F
△		TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
△		NPN TRANSISTOR 2SC5344 Y	NQSY02SC5344
Q726		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q727		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q731		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q734		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q744		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q802		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q805		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q900		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q901		TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
		TRANSISTOR 2SC2120-Y(TE2 F T) or	QQSY2SC2120F
		TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
		NPN TRANSISTOR 2SC5344 Y	NQSY02SC5344
Q902		TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
		TRANSISTOR 2SC2120-Y(TE2 F T) or	QQSY2SC2120F
		TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
		NPN TRANSISTOR 2SC5344 Y	NQSY02SC5344
Q903		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343

Ref. No.	Mark	Description	Part No.
TRANSISTORS			
Q904		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q906		TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
		TRANSISTOR 2SC2120-Y(TE2 F T) or	QQSY2SC2120F
		TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
		NPN TRANSISTOR 2SC5344 Y	NQSY02SC5344
Q907		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q908		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q911		TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
		TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
		TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
		TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
		PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
		PNP TRANSISTOR 2SA1980MG-AT	NQSG2SA1980M
Q912		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q920		TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
		TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
		TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
		NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
		NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q922		TRANSISTOR KTD2059-O/P or	NQE0KTD2059P
		TRANSISTOR KTD2059-Y/P	NQEYKTD2059P
Q936		NPN TRANSISTOR POWER 2SC4881F HFE MAX320 or	QQWZ2SC4881F
		TRANSISTOR(PB FREE) KTC2026-Y/P or	NQEYKTC2026P
		NPN TRANSISTOR STC403	NQEZ00STC403
RESISTORS			
R102		CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
		RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R103		CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
		RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R522		CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
		RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R525		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R526		CHIP RES. 1/10W J 47 Ω or	RRXAJR5Z0470
		RES CHIP 1608 1/10W J 47 Ω	RRXA470YF002
R531		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R532		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R535		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R600△		RES CARBON 1/2W J 1M Ω or	RCX2105DP006
△		GLASS GLAZE RES. 1/2W J 1M Ω	RXX2JZLZ0105
R610△		CEMENT RESISTOR 5W K 1.2 Ω or	RW051R2PG001
△		CEMENT RESISTOR 5W J 1.2 Ω H 10MM	RW051R2PAK10
R620		CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R621		CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824

Ref. No.	Mark	Description	Part No.
R622		CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R623		CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R624		CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R632		CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R633		CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R634		CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R635		CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R636△		METAL OXIDE FILM RES. 2W J 0.68 Ω or	RN02R68ZU001
△		METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68DP004
R637		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R638		CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R639		CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R701		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R702		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R704		CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R707		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R708		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R713		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R714		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R716		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R717		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R718		CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
		RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R719		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R720		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R721		CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
		RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R722		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R723		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R729		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R730		CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R732		CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
		RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R737		CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R738		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R739		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R740		CHIP RES. 1/10W J 47 Ω or	RRXAJR5Z0470
		RES CHIP 1608 1/10W J 47 Ω	RRXA470YF002
R741		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R746		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R751		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R752		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R756		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R757		CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
		RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R758		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R759		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R761		CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R762		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R763		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R764		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R765		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R766		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101

Ref. No.	Mark	Description	Part No.
R767		CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
		RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R768		CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R770		CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
		RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R771		CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R775		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R776		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R777		CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
		RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R778		CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
		RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R779		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R780		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R781		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R782		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R783		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R784		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R785		CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R786		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R787		CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
		RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R788		CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
		RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R793		CHIP RES. 1/10W J 39k Ω or	RRXAJR5Z0393
		RES CHIP 1608 1/10W J 39k Ω	RRXA393YF002
R794		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R797		CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
		RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R801		CHIP RES. 1/10W J 56k Ω or	RRXAJR5Z0563
		RES CHIP 1608 1/10W J 56k Ω	RRXA563YF002
R802		CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
		RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R805△		METAL OXIDE FILM RES. 2W J 4.7 Ω or	RN024R7ZU001
△		METAL OXIDE FILM RES. 2W J 4.7 Ω	RN024R7DP004
R807△		METAL OXIDE FILM RES. 2W J 3.9 Ω or	RN023R9ZU001
△		METAL OXIDE FILM RES. 2W J 3.9 Ω	RN023R9DP004
R808		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R809		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R811		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R812△		CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
△		RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R813		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R814		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R816		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R817		CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
		RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R818		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R822		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R824		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002

Ref. No.	Mark	Description	Part No.
R825		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R829		CARBON RES. 1/4W J 120 Ω	RCX4JATZ0121
R830		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R831		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R832		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R833		CHIP RES. 1/10W J 33 Ω or RES CHIP 1608 1/10W J 33 Ω	RRXAJR5Z0330
		RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R834		CHIP RES. 1/10W J 33 Ω or RES CHIP 1608 1/10W J 33 Ω	RRXAJR5Z0330
		RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R835		CHIP RES. 1/10W J 33 Ω or RES CHIP 1608 1/10W J 33 Ω	RRXAJR5Z0330
		RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R836		CHIP RES. 1/10W J 33 Ω or RES CHIP 1608 1/10W J 33 Ω	RRXAJR5Z0330
		RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R837		CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R838		CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R839		CHIP RES. 1/10W J 47k Ω or RES CHIP 1608 1/10W J 47k Ω	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R840		CHIP RES. 1/10W J 12k Ω or RES CHIP 1608 1/10W J 12k Ω	RRXAJR5Z0123
		RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R842		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R843		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R844		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R845		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R846		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R847		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R848		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R849		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R850		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R852		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R854		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R855		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R856		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R857		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R858		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R859		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R890		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R891		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R892		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R893		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R894		CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω	RRXAJR5Z0104
		RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R895		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R896		CHIP RES. 1/10W J 27k Ω or RES CHIP 1608 1/10W J 27k Ω	RRXAJR5Z0273
		RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R897		CHIP RES. 1/10W J 27k Ω or RES CHIP 1608 1/10W J 27k Ω	RRXAJR5Z0273
		RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R900		CARBON RES. 1/4W J 3.3 Ω	RCX4JATZ03R3
R904		CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123
R906△		CHIP RES. 1/10W F 3.9k Ω or CHIP RES.(1608) 1/10W F 3.9k Ω or	RRXAFR5H3901
△		RES CHIP 1608 1/10W F 3.90k Ω	RTW3901YF002
R907△		CHIP RES. 1/10W F 4.7k Ω or	RRXAFR5H4701
△		CHIP RES. 1/10W F 4.7k Ω or	RRXAJR5Z0472
△		RES CHIP 1608 1/10W F 4.70k Ω	RTW4701YF002

Ref. No.	Mark	Description	Part No.
R908△		CHIP RES. 1/10W F 3.9k Ω or	RRXAFR5H3901
△		CHIP RES.(1608) 1/10W F 3.9k Ω or	RRXAFR5Z3901
△		RES CHIP 1608 1/10W F 3.90k Ω	RTW3901YF002
R909△		CHIP RES. 1/10W F 3.9k Ω or	RRXAFR5H3901
△		CHIP RES.(1608) 1/10W F 3.9k Ω or	RRXAFR5Z3901
△		RES CHIP 1608 1/10W F 3.90k Ω	RTW3901YF002
R910		CHIP RES. 1/10W F 820 Ω or	RRXAFR5H8200
		CHIP RES.(1608) 1/10W F 820 Ω or	RRXAFR5Z8200
		RES CHIP 1608 1/10W F 820 Ω	RTW8200YF002
R911		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
R912△		CHIP RES. 1/10W F 240 Ω or	RRXAFR5H2400
△		CHIP RES.(1608) 1/10W F 240 Ω or	RRXAFR5Z2400
△		RES CHIP 1608 1/10W F 240 Ω	RTW2400YF002
R913△		CHIP RES. 1/10W F 240 Ω or	RRXAFR5H2400
△		CHIP RES.(1608) 1/10W F 240 Ω or	RRXAFR5Z2400
△		RES CHIP 1608 1/10W F 240 Ω	RTW2400YF002
R914△		CHIP RES. 1/10W F 240 Ω or	RRXAFR5H2400
△		CHIP RES.(1608) 1/10W F 240 Ω or	RRXAFR5Z2400
△		RES CHIP 1608 1/10W F 240 Ω	RTW2400YF002
R915△		CHIP RES. 1/10W F 240 Ω or	RRXAFR5H2400
△		CHIP RES.(1608) 1/10W F 240 Ω or	RRXAFR5Z2400
△		RES CHIP 1608 1/10W F 240 Ω	RTW2400YF002
R916		CHIP RES. 1/10W J 180 Ω or	RRXAJR5Z0181
		RES CHIP 1608 1/10W J 180 Ω	RRXA181YF002
R917		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R918		CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R919		METAL OXIDE FILM RES. 1W 470 Ω or	RN01471DP003
		METAL OXIDE FILM RES. 1W J 470 Ω	RN01471ZU001
R920		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R921		CHIP RES. 1/10W J 68k Ω or	RRXAJR5Z0683
		RES CHIP 1608 1/10W J 68k Ω	RRXA683YF002
R922		METAL OXIDE FILM RES. 2W J 12 Ω or	RN02120ZU001
		METAL OXIDE FILM RES. 2W J 12 Ω	RN02120DP004
R923		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R925		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
R926		CHIP RES. 1/10W F 9.1k Ω or	RRXAFR5H9101
		CHIP RES. 1/10W F 9.1k Ω or	RRXAFR5Z0912
		RES CHIP 1608 1/10W F 9.10k Ω	RTW9101YF002
R928		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R929		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R930		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
R931		CHIP RES. 1/10W F 9.1k Ω or	RRXAFR5H9101
		CHIP RES. 1/10W F 9.1k Ω or	RRXAFR5Z0912
		RES CHIP 1608 1/10W F 9.10k Ω	RTW9101YF002
R936		CHIP RES. 1/10W J 150 Ω or	RRXAJR5Z0151
		RES CHIP 1608 1/10W J 150 Ω	RRXA151YF002
R937		CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
		RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R938		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R939		METAL RESISTER. 2W J 0.82 Ω or	RN02R82ZU001
		METAL OXIDE FILM RES. 2W J 0.82 Ω	RN02R82DP004
R940		PCB JUMPER D0.6-P5.0	JW5.0T
R941		PCB JUMPER D0.6-P5.0	JW5.0T
R942		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R943		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R944		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R945		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103

Ref. No.	Mark	Description	Part No.
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R947		CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R948		METAL RESISTER. 2W J 0.82 Ω or	RN02R82ZU001
		METAL OXIDE FILM RES. 2W J 0.82 Ω	RN02R82DP004
R949		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R950		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R953		METAL OXIDE FILM RES. 2W J 47 Ω or	RN02470ZU001
		METAL OXIDE FILM RES. 2W J 47 Ω	RN02470DP004
R954		METAL OXIDE FILM RES. 2W J 12 Ω or	RN02120ZU001
		METAL OXIDE FILM RES. 2W J 12 Ω	RN02120DP004
R955		METAL OXIDE FILM RES. 2W J 47 Ω or	RN02470ZU001
		METAL OXIDE FILM RES. 2W J 47 Ω	RN02470DP004
R958		PCB JUMPER D0.6-P5.0	JW5.0T
R959		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
R960		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
R961		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
R962		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R963		CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
		RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R964		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R965		CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R966		CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
		RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R967		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R968		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R969		CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
		RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R970		CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
		RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R971		CHIP RES. 1/10W F 8.2k Ω or	RRXAFR5H8201
		CHIP RES. 1/10W F 8.2k Ω or	RRXAFR5Z0822
		RES CHIP 1608 1/10W F 8.20k Ω	RTW8201YF002
R972		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
R973		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R974		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R976		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
R977		CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
		RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R978		CHIP RES. 1/10W J 8.2k Ω or	RRXAJR5Z0822
		RES CHIP 1608 1/10W J 8.2k Ω	RRXA822YF002
R979		METAL OXIDE FILM RES. 1W J 270 Ω or	RN01271DP003
		METAL OXIDE FILM RES. 1W J 270 Ω	RN01271ZU001
R980		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R982		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
R983		CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
		RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R985		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R986▲		CHIP RES. 1/10W F 240 Ω or	RRXAFR5H2400
▲		CHIP RES.(1608) 1/10W F 240 Ω or	RRXAFR5Z2400
▲		RES CHIP 1608 1/10W F 240 Ω	RTW2400YF002
R987		CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
		RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002

Ref. No.	Mark	Description	Part No.
R992		PCB JUMPER D0.6-P5.0	JW5.0T
R994		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
R995		CHIP RES. 1/10W F 43.0 k Ω or	RRXAFR5H4302
		RES CHIP 1608 1/10W F 43k Ω or	RRXAFR5Z4302
		RES CHIP 1608 1/10W F 43.0k Ω	RTW4302YF002
R997		METAL OXIDE FILM RES. 2W J 0.22 Ω or	RN02R22ZU001
		METAL OXIDE FILM RES. 2W J 0.22 Ω	RN02R22DP004
MISCELLANEOUS			
AC601▲	A	AC CORD PE8G2CG9G0A-059 or	WAE0172LW010
▲	A	AC CORD P205-1503-2	WAE0172K5001
AC601▲	B	AC CORD PE8G2CG9G9D-059 or	WAE9172LW002
▲	B	AC CORD P205-1517-2	WAE9172K5001
B22		HEAT SINK PMS ASSEMBLY A8CN0FP	1EM426337A
B41		HEAT SINK PMT ASSEMBLY A8C70EP	1EM426357
B42		HEAT SINK PMW A8C70EP	1EM426760
BC601		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC602		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC603		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC750		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC801		PCB JUMPER D0.6-P5.0	JW5.0T
BC802		PCB JUMPER D0.6-P5.0	JW5.0T
BC803		PCB JUMPER D0.6-P5.0	JW5.0T
BC804		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC805		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC903		BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
F601▲		FUSE 4A/250V(PB FREE) 0215004.MXP	PBGZ20BAG021
FH601		FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH602		FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
JK721		JACK SW DIN PCB S 04/DIN-417HA-01	JYEJ040YUQ03
		JACK SW DIN PCB S 04 MDC-076H-A LF	JYEJ040LY002
JK722		JACK RCA PCB S YELLOW 01/RCA-101H(YL) or	JXRJ01YUQ05
		JACK RCA PCB S (YELLOW) 01 MTJ-032-04B-40 FE	JXRJ010LY032
JK723		JACK RCA PCB S WHITE 01/RCA-101H(WH) or	JXRJ010YUQ02
		JACK RCA PCB S (WHITE) 01 MTJ-032-04B-41 FE	JXRJ010LY031
JK724		JACK SW RCA PCB S RED RCA-102H(RD) or	JYRJ010YUQ03
		JACK SW RCA PCB S(RED) 01 MTJ-032-04A-75 FE	JYRJ010LY031
JK725		JACK HPEP SML PCB S PJ-358H or	JXSJ020YUQ01
		JACK HPEP SML PCB S 02 MSJ-035-29D (ABS)	JXSJ020LY001
JK751		JACK RGB PCB S 21PIN / MRC-021H-02	JXGJ210LY001
JK801		JACK SE HPEP SML PCM S MSJ-035-04A LF or	JYSJ020LY002
		JACK SW HPEP SML PCB S PJ-362H-7	JYSJ020YUQ02
L9		SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
SA601▲		SURGE ABSORBER 470V+10PER or	NVQZ10D471KB
▲		VARISTOR 10D 471K SVR	NVQZVR10D471
T601▲		SW-TRANS 8719 or	LTT3PE0KT046
▲		SW-TRANS BCK-35-0554	LTT3PE0XB040
TM601		EYELET TYPE D-1	0VM406868
TM602		EYELET TYPE D-1	0VM406868

FUNCTION CBA

Ref. No.	Mark	Description	Part No.
		FUNCTION CBA Consists of the following:	
CAPACITORS			
C201		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/50V	CHD1JZ30F104
C202		CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/50V	CHD1JZ30F104

Ref. No.	Mark	Description	Part No.
CONNECTORS			
CN201		WIRE ASSEMBLY 6PIN WX1A8C70-003	WX1A8C70-003
CN202		WIRE ASSEMBLY 5PIN WX1A8C70-001	WX1A8C70-001
DIODES			
D201		ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D202		ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D203		ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
RESISTORS			
R201		CARBON RES. 1/4W G 10k Ω	RCX4GATZ0103
R202		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R203		CARBON RES. 1/4W G 1.5k Ω	RCX4GATZ0152
R204		CARBON RES. 1/4W G 1.5k Ω	RCX4GATZ0152
R205		CARBON RES. 1/4W G 2.2k Ω	RCX4GATZ0222
R206		CARBON RES. 1/4W G 2.7k Ω	RCX4GATZ0272
R207		CARBON RES. 1/4W G 4.7k Ω	RCX4GATZ0472
R208		CARBON RES. 1/4W G 6.8k Ω	RCX4GATZ0682
SWITCHES			
SW201		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003
SW202		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003
SW203		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003
SW204		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003
SW205		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003
SW206		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003
SW207		TACT SWITCH SKQSAB or	SST0101AL038
		TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
		TACT SWITCH KSM0612B	SST0101HH003

IR SENSOR CBA

Ref. No.	Mark	Description	Part No.
		IR SENSOR CBA Consists of the following:	-----
CAPACITOR			
C301		ELECTROLYTIC CAP 2.2μF/50V M H7	CE1JMAVSL2R2
DIODES			
D301		ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D302		LED(GREEN) LTL-4234 or	NPWZ0LTL4234
		LED GREEN 333GT/E(FNA) or	NPWZ33GTEFNA
		LED 333GT/E	NPHZ00333GTE
D303		LED 333HT/E-L or	NPHL00333HTE
		LED 333HT/E-K or	NPHK00333HTE
		LED L-53HT	NP4Z000L53HT
RESISTORS			
R301		CARBON RES. 1/4W J 120 Ω	RCX4JATZ0121
R302		CHIP RES. 1/10W J 330 Ω or	RRXAJR5Z0331
		RES CHIP 1608 1/10W J 330 Ω	RRXA331YF002
R303		CHIP RES. 1/10W J 330 Ω or	RRXAJR5Z0331
		RES CHIP 1608 1/10W J 330 Ω	RRXA331YF002
R304		CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
		RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
MISCELLANEOUS			
RS301		SENSOR REMOTE RECEIVER KSM-712TH2E	USESJSRKK044

JACK CBA

Ref. No.	Mark	Description	Part No.
		JACK CBA Consists of the following:	-----
CAPACITORS			
C14		CHIP CERAMIC CAP(1608) B K 5600pF/50V	CHD1JK30B562
C15		CHIP CERAMIC CAP(1608) B K 5600pF/50V	CHD1JK30B562
CONNECTORS			
CN11		CONNECTOR FPC/FFC IMSA-9615S-07C-PP-A or	JC96J07ER009
		FMN CONNECTOR SIDE 7P 07FMN-STK-A(LF)(SN)	JCFNG07JG021
COILS			
L10		PCB JUMPER D0.6-P5.0	JW5.0T
L11		PCB JUMPER D0.6-P5.0	JW5.0T
L12		PCB JUMPER D0.6-P5.0	JW5.0T
RESISTORS			
R14		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R15		CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
		RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R19		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R20		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R21		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R22		CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
		RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R23		CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
		RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R24		CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
		RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
MISCELLANEOUS			
JK11		JACK RCA PCB S GREEN 01/RCA-101H(GN) or	JXRJ01YUQ03
		JACK RCA PCB S(GREEN) 01 MTJ-032-04B-73 FE	JXRJ01LY030
JK12		JACK RCA PCB S BLUE 01/RCA-101H(BL) or	JXRJ01YUQ04
		JACK RCA PCB S(BLUE) 01 MTJ-032-04B-74 FE	JXRJ01LY033
JK13		JACK RCA PCB S RED 01/RCA-101H(RD) or	JXRJ01YUQ01
		JACK RCA PCB S(RED) 01 MTJ-032-04B-75 FE	JXRJ01LY028
JK14		JACK RCA PCB S WHITE 01/RCA-101H(WH) or	JXRJ01YUQ02
		JACK RCA PCB S (WHITE) 01 MTJ-032-04B-41 FE	JXRJ01LY031
JK15		JACK SW RCA PCB S RED RCA-102H(RD) or	JYRJ01YUQ03
		JACK SW RCA PCB S(RED) 01 MTJ-032-04A-75 FE	JYRJ01LY031

MUT CBA

Ref. No.	Description	Part No.
	MUT CBA Consists of the following:	1ESA18650
	INVERTER CBA JUNCTION CBA	-----

INVERTER CBA

Ref. No.	Description	Part No.
	INVERTER CBA Consists of the following:	-----
CAPACITORS		
C401	ELECTROLYTIC CAP 470μF/25V M	CE1EMASDL471
C402	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C403	ELECTROLYTIC CAP 470μF/25V M	CE1EMASDL471
C404	CHIP CERAMIC CAP(1608) B K 0.1μF/50V	CHD1JK30B104

Ref. No.	Description	Part No.
C405	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C406	CAP CERAMIC (AX) 0.1 μ F/50V/F/Z	CA1J104TU062
C408	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C409	CHIP CERAMIC CAP(1608) B K 0.1 μ F/50V	CHD1JK30B104
C410	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C411	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C413	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C414	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C415	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C416	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C418	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C420	ELECTROLYTIC CAP. 470 μ F/25V M	CE1EMASDL471
C421	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C422	CAP CERAMIC (AX) 0.1 μ F/50V/F/Z	CA1J104TU062
C423	CAP CERAMIC (AX) 0.1 μ F/50V/F/Z	CA1J104TU062
C424	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C425	CHIP CERAMIC CAP(1608) B K 0.1 μ F/50V	CHD1JK30B104
C426	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C427	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C428	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C429	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C430	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C431	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C432	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C433	POLYESTER FILM CAP. (PB FREE) 0.01 μ F/100V J or	CA2A103DT018
	CAP POLYESTER FILM 0.01 μ F/100V J	CA2A103SER02
C434	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C435	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C436	ELECTROLYTIC CAP. 470 μ F/25V M	CE1EMASDL471
C437	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C438	ELECTROLYTIC CAP. 22 μ F/50V M	CE1JMASDL220
C439	CHIP CERAMIC CAP(1608) B K 0.1 μ F/50V	CHD1JK30B104
C440	ELECTROLYTIC CAP. 2.2 μ F/50V M	CE1JMASDL2R2
C441	CAP CERAMIC (AX) 0.1 μ F/50V/B/K	CA1J104TU061
C443	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C444	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C445	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C446	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C447	ELECTROLYTIC CAP. 10 μ F/50V M	CE1JMASDL100
C448	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C449	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C450	CHIP CERAMIC CAP(1608) B K 1 μ F/25V	CHD1EK30B105
C452	CHIP CERAMIC CAP(1608) B K 0.1 μ F/50V	CHD1JK30B104
C453	ELECTROLYTIC CAP. 100 μ F/25V M	CE1EMASDL101
C455	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C456	CHIP CERAMIC CAP(1608) B K 0.01 μ F/50V	CHD1JK30B103
C457	POLYESTER FILM CAP. (PB FREE) 0.01 μ F/100V J or	CA2A103DT018
	CAP POLYESTER FILM 0.01 μ F/100V J	CA2A103SER02
C458	ZENER DIODE MTZJT-773.9B	QDTB0MTZJ3R9
C459	CERAMIC CAP. B K 220pF/500V	CCD2JKS0B221
C460	CERAMIC CAP. B K 220pF/500V	CCD2JKS0B221
C461	CERAMIC CAP. B K 220pF/500V	CCD2JKS0B221
C462	CERAMIC CAP. B K 220pF/500V	CCD2JKS0B221
C463	CERAMIC CAP. B K 220pF/500V	CCD2JKS0B221
C464	CERAMIC CAP. B K 220pF/500V	CCD2JKS0B221
C465	CHIP CERAMIC CAP(1608) B K 0.022 μ F/50V	CHD1JK30B223
C466	CHIP CERAMIC CAP(1608) B K 0.022 μ F/50V	CHD1JK30B223
C467	CHIP CERAMIC CAP(1608) B K 0.022 μ F/50V	CHD1JK30B223
C468	CHIP CERAMIC CAP(1608) B K 0.022 μ F/50V	CHD1JK30B223
C469	CHIP CERAMIC CAP(1608) B K 0.022 μ F/50V	CHD1JK30B223
C470	CHIP CERAMIC CAP(1608) B K 0.022 μ F/50V	CHD1JK30B223

Ref. No.	Description	Part No.
C481	CHIP CERAMIC CAP(1608) CH J 1000pF/50V	CHD1JJ3CH102
C482	CHIP CERAMIC CAP(1608) C0G/J/220pF/100V	CA2A221MR133
C483	CHIP CERAMIC CAP(1608) C0G/J/220pF/100V	CA2A221MR133
C484	CHIP CERAMIC CAP(1608) C0G/J/220pF/100V	CA2A221MR133
C485	CHIP CERAMIC CAP(1608) C0G/J/220pF/100V	CA2A221MR133
C486	CHIP CERAMIC CAP(1608) C0G/J/220pF/100V	CA2A221MR133
C487	CHIP CERAMIC CAP(1608) C0G/J/220pF/100V	CA2A221MR133
CONNECTORS		
CN401	CONNECTOR PRINT OSU KW04-800-0200	J30402KET001
CN402	CONNECTOR PRINT OSU KW04-800-0200	J30402KET001
CN403	CONNECTOR PRINT OSU KW04-800-0200	J30402KET001
CN451	CONNECTOR PRINT OSU 008283021200000S+ or	J383C02UG004
	CONNECTOR PRINT OSU 2P 292161-2	J31FC02AP001
DIODES		
D401	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D402	ZENER DIODE MTZJT-7716B	QDTB0MTZJ16
D403	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D404	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D405	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D406	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D407	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D408	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D409	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D411	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D412	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D413	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D414	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D415	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D416	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D417	ZENER DIODE MTZJT-7710B	QDTB00MTZJ10
D418	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D419	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D420	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D421	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D423	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D424	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D426	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D427	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D428	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D429	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D430	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148

Ref. No.	Description	Part No.
D431	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D432	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D433	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D434	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D435	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D437	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D438	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D439	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D441	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D442	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D443	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D444	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D445	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D452	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D453	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D454	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D455	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D456	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D457	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D458	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D459	SWITCHING DIODE 1SS133(T-77) or DIODE SWITCHING HSS4148TE-E	QDTZ001SS133 QDTZ0HSS4148
D489	PCB JUMPER D0.6-P5.0	JW5.0T
IC		
IC401	IC PULSE-WIDTH-MODULATION CONT TL494IDR	NSZBA0TTY264
TRANSISTORS		
Q401	TRANSISTOR 2SA950-Y(TE2 F T) or TRANSISTOR 2SA950-O (TE2 F T) or (PB FREE) KTA1271-Y-AT/P or PNP TRANSISTOR 2SA1981Y-AT	QQSY02SA950F QQS002SA950F NQSYKTA1271P NQSY02SA1981
Q403	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or NPN TRANSISTOR 2SC5343MG-AT	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F NQSG2SC5343M
Q404	TRANSISTOR 2SC2120-Y(TE2 F T) or TRANSISTOR 2SC2120-O(TE2 F T) or TRANSISTOR KTC3203-Y-AT/P or NPN TRANSISTOR 2SC5344 Y	QQSY2SC2120F QQS02SC2120F NQSYKTC3203P NQSY02SC5344
Q405	FET MOS SMD HAT2215R01-EL-E	QF2ZHAT2215R
Q406	TRANSISTOR 2SA950-Y(TE2 F T) or TRANSISTOR 2SA950-O (TE2 F T) or (PB FREE) KTA1271-Y-AT/P or PNP TRANSISTOR 2SA1981Y-AT	QQSY02SA950F QQS002SA950F NQSYKTA1271P NQSY02SA1981
Q407	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F

Ref. No.	Description	Part No.
Q409	NPN TRANSISTOR 2SC5343MG-AT TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or	NQSG2SC5343M NQS4KTC3199P NQS4KTC3198P QQS12SC1815F
Q410	NPN TRANSISTOR 2SC5343MG-AT TRANSISTOR 2SC2120-Y(TE2 F T) or TRANSISTOR 2SC2120-O(TE2 F T) or TRANSISTOR KTC3203-Y-AT/P or	NQSG2SC5343M QQSY2SC2120F QQS02SC2120F NQSYKTC3203P
Q412	NPN TRANSISTOR 2SC5343MG-AT TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or	NQSG2SC5343M NQS4KTC3199P NQS4KTC3198P QQS12SC1815F
Q413	TRANSISTOR 2SA950-Y(TE2 F T) or TRANSISTOR 2SA950-O (TE2 F T) or (PB FREE) KTA1271-Y-AT/P or PNP TRANSISTOR 2SA1981Y-AT	QQSY02SA950F QQS002SA950F NQSYKTA1271P NQSY02SA1981
Q414	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or NPN TRANSISTOR 2SC5343MG-AT	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F NQSG2SC5343M
Q415	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or NPN TRANSISTOR 2SC5343MG-AT	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F NQSG2SC5343M
Q416	FET MOS SMD HAT2215R01-EL-E	QF2ZHAT2215R
Q417	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or NPN TRANSISTOR 2SC5343MG-AT	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F NQSG2SC5343M
Q419	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or NPN TRANSISTOR 2SC5343MG-AT	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F NQSG2SC5343M
Q420	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or NPN TRANSISTOR 2SC5343MG-AT	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F NQSG2SC5343M
Q421	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or NPN TRANSISTOR 2SC5343MG-AT	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F NQSG2SC5343M
Q422	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or NPN TRANSISTOR 2SC5343MG-AT	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F NQSG2SC5343M
Q423	TRANSISTOR 2SA950-Y(TE2 F T) or TRANSISTOR 2SA950-O (TE2 F T) or (PB FREE) KTA1271-Y-AT/P or PNP TRANSISTOR 2SA1981Y-AT	QQSY02SA950F QQS002SA950F NQSYKTA1271P NQSY02SA1981
Q424	FET MOS SMD HAT2215R01-EL-E	QF2ZHAT2215R
Q425	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or NPN TRANSISTOR 2SC5343MG-AT	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F NQSG2SC5343M
Q427	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or NPN TRANSISTOR 2SC5343MG-AT	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F NQSG2SC5343M
Q428	TRANSISTOR KTC3199-GR-AT/P or TRANSISTOR KTC3198-GR-AT/P or TRANSISTOR 2SC1815-GR(TE2 F T) or NPN TRANSISTOR 2SC5343MG-AT	NQS4KTC3199P NQS4KTC3198P QQS12SC1815F NQSG2SC5343M
Q429	TRANSISTOR 2SA950-Y(TE2 F T) or TRANSISTOR 2SA950-O (TE2 F T) or (PB FREE) KTA1271-Y-AT/P or PNP TRANSISTOR 2SA1981Y-AT	QQSY02SA950F QQS002SA950F NQSYKTA1271P NQSY02SA1981

Ref. No.	Description	Part No.
RESISTORS		
R401	METAL OXIDE FILM RES. 2W J 0.15 Ω or	RN02R15DP004
	METAL OXIDE FILM RES. 2W J 0.15 Ω	RN02R15KE010
R402	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R403	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R404	CHIP RES.(1608) 1/10W F 1k Ω or	RRXAFR5H0102
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z0102
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R405	METAL OXIDE FILM RES. 2W J 100 Ω or	RN02101ZU001
	METAL OXIDE FILM RES. 2W J 100 Ω	RN02101DP004
R406	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R408	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R409	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R410	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R411	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R413	CHIP RES. 1/10W F 9.1k Ω or	RRXAFR5H9101
	CHIP RES. 1/10W F 9.1k Ω or	RRXAFR5Z0912
	RES CHIP 1608 1/10W F 9.10k Ω	RTW9101YF002
R414	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R415	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R416	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R417	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R420	CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
	RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R421	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
	RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R423	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R424	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R425	CHIP RES.(1608) 1/10W F 1k Ω or	RRXAFR5H0102
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z0102
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R426	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R427	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R428	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R429	CHIP RES. 1/10W F 8.2k Ω or	RRXAFR5H8201
	CHIP RES.(1608) 1/10W F 8.2k Ω or	RRXAFR5Z8201
	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201YF002
R430	CHIP RES. 1/10W F 43k Ω or	RRXAFR5H0433
	CHIP RES. 1/10W F 43.0 k Ω or	RRXAFR5Z0433
	RES CHIP 1608 1/10W F 43.0k Ω	RTW4302YF002
R431	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R433	CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
	RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R434	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R435	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R440	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
	RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R443	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R445	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R446	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R447	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R448	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R449	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R450	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002

Ref. No.	Description	Part No.
R451	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R452	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R453	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R454	CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
	RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R455	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R456	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R457	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R458	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R459	CARBON RES. 1/4W G 56k Ω	RCX4GATZ0563
R460	CHIP RES. 1/10W J 68k Ω or	RRXAJR5Z0683
	RES CHIP 1608 1/10W J 68k Ω	RRXA683YF002
R461	CHIP RES. 1/10W J 330 Ω or	RRXAJR5Z0331
	RES CHIP 1608 1/10W J 330 Ω	RRXA331YF002
R462	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R463	CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
	RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R464	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R465	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R466	CHIP RES.(1608) 1/10W F 1k Ω or	RRXAFR5H0102
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z0102
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R469	CHIP RES.(1608) 1/10W F 5.1k Ω or	RRXAFR5H0512
	CHIP RES. 1/10W F 5.1k Ω or	RRXAFR5Z0512
	RES CHIP 1608 1/10W F 5.10k Ω	RTW5101YF002
R470	CARBON RES. 1/4W J 5.1k Ω	RCX4JATZ0512
R471	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R472	CHIP RES. 1/10W J 240k Ω or	RRXAJR5Z0244
	RES CHIP 1608 1/10W J 240k Ω	RRXA244YF002
R473	CHIP RES. 1/10W F 56k Ω or	RRXAFR5H0563
	CHIP RES. 1/10W F 56k Ω or	RRXAFR5Z0563
	RES CHIP 1608 1/10W F 56.0k Ω	RTW5602YF002
R474	CHIP RES. 1/10W J 24k Ω or	RRXAJR5Z0243
	RES CHIP 1608 1/10W J 24k Ω	RRXA243YF002
R475	CHIP RES. 1/10W J 5.1k Ω or	RRXAJR5Z0512
	RES CHIP 1608 1/10W J 5.1k Ω	RRXA512YF002
R476	CHIP RES. 1/10W J 5.1k Ω or	RRXAJR5Z0512
	RES CHIP 1608 1/10W J 5.1k Ω	RRXA512YF002
R477	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R478	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R479	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R480	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R481	CHIP RES.(1608) 1/10W F 1k Ω or	RRXAFR5H0102
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z0102
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R482	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R483	CHIP RES. 1/10W J 5.1k Ω or	RRXAJR5Z0512
	RES CHIP 1608 1/10W J 5.1k Ω	RRXA512YF002
R484	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R485	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R486	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R487	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R488	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R489	CHIP RES. 1/10W F 7.50 kΩ or	RRXAFR5H7501
	CHIP RES. 1/10W F 7.5k Ω or	RRXAFR5Z7501
	RES CHIP 1608 1/10W F 7.50k Ω	RTW7501YF002
R490	CHIP RES. 1/10W F 8.2k Ω or	RRXAFR5H8201
	CHIP RES.(1608) 1/10W F 8.2k Ω or	RRXAFR5Z8201
	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201YF002
R491	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R492	CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
	RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R493	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R494	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R495	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R496	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R497	PCB JUMPER D0.6-P5.0	JW5.0T
R498	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R499	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R500	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R501	CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
	RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R502	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R503	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R504	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R506	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R507	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R508	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R509	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R510	CHIP RES. 1/10W J 8.2k Ω or	RRXAJR5Z0822
	RES CHIP 1608 1/10W J 8.2k Ω	RRXA822YF002
R511	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R514	CHIP RES.(1608) 1/10W F 22k Ω or	RRXAFR5H0223
	CHIP RES. 1/10W F 22k Ω or	RRXAFR5Z0223
	RES CHIP 1608 1/10W F 22.0k Ω	RTW2202YF002
MISCELLANEOUS		
F401	CHIP FUSE FHC32322ADTP	PDDFTC0KE322
J431	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
JS401	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
JS402	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
T401	TRANS INVERTER TK.7604A.101	LTZ3PZDAR004
T402	TRANS INVERTER TK.7604A.101	LTZ3PZDAR004
T403	TRANS INVERTER TK.7604A.101	LTZ3PZDAR004

JUNCTION CBA

Ref. No.	Description	Part No.
	JUNCTION CBA Consists of the following:	-----
CONNECTOR		
CN404A	WIRE ASSEMBLY 14PIN 14PIN/68MM	WX1A8A70-003
MISCELLANEOUS		
CL404	242 SERIES CONNECTOR TUC-P14X-B1 WHT ST	JCTUB14TG002

Ref. No.	Description	Part No.
TU501△	TUNER UNIT DTV TDAG4-B04A	UTUNPSGAL013

LT6-M22BB/LT6-M22WB
A8C72/73EP
2008-11-26