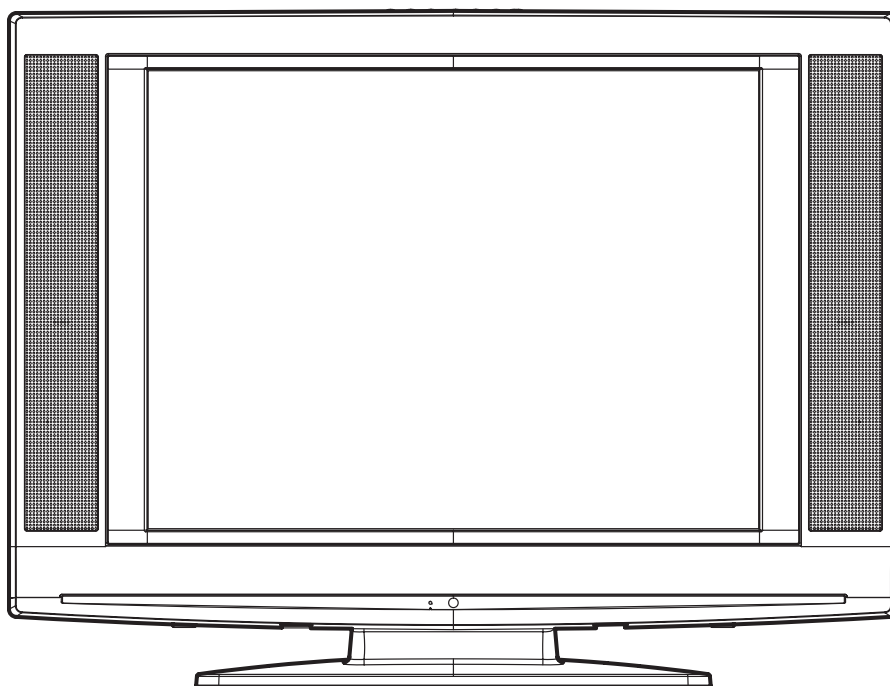




SERVICE MANUAL

20" COLOR LCD TELEVISION LC5-D20BB



20" COLOR LCD TELEVISION

LC5-D20BB

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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>

ANT. Input----- 80 dBμV, Video: PAL 87.5%, Audio: 30 kHz dev (1 kHz Sin)

Test Input Signal----- 400 Hz 30% modulation

Description	Condition	Unit	Nominal	Limit
1. Intermediate Freq.	Picture			
	PAL-BG//DK, SECAM-L	MHz	38.9	-
	SECAM-L'	MHz	33.9	-
	Sound			
	PAL-BG	MHz	33.4	-
	PAL-I	MHz	32.9	-
2. Video S/N (White 50%)	PAL-DK, SECAM-L	MHz	32.4	-
	SECAM-L'	MHz	40.4	-
	CH-3	dB	45	40
3. Audio S/N (Output Level 500mV)	-	dB	-	40

<LCD PANEL>

Description	Condition	Unit	Nominal	Limit
1. Number of Pixels	Horizontal	pixels	640 x 3	-
	Vertical	pixels	480	-
2. Brightness		cd/m ²	290	-
3. Response Time	-	msec	16	-
4. Support Color	-	-	16mil.(8bit)	-
5. Viewing Angle	Horizontal	°	-85 to 85	-
	Vertical	°	-85 to 70	-

<VIDEO>

Description	Condition	Unit	Nominal	Limit
1. Over Scan	Horizontal	%	5	10
	Vertical	%	5	10
2. Color Temperature	-	°K	11000	-
	x		0.276	0.276±0.03
	y		0.282	0.282±0.03
3. Resolution	Horizontal	line	400	-
	Vertical	line	350	-

<AUDIO>

All items are measured across 8 Ω load at speaker output terminal with L.P.F.

Description	Condition	Unit	Nominal	Limit
1. Audio Output Power	10% THD: Lch/Rch	W	0.95/0.95	0.75/0.75
2. Audio Distortion	500mW: Lch/Rch	%	0.6/0.6	<4
3. Audio Freq. Response	-6dB: Lch	Hz	50 to 12K	-
	-6dB: Rch	Hz	50 to 12K	-
4. Audio S/N	VIDEO 1	dB	-	40
	VIDEO 2	dB	-	40

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.

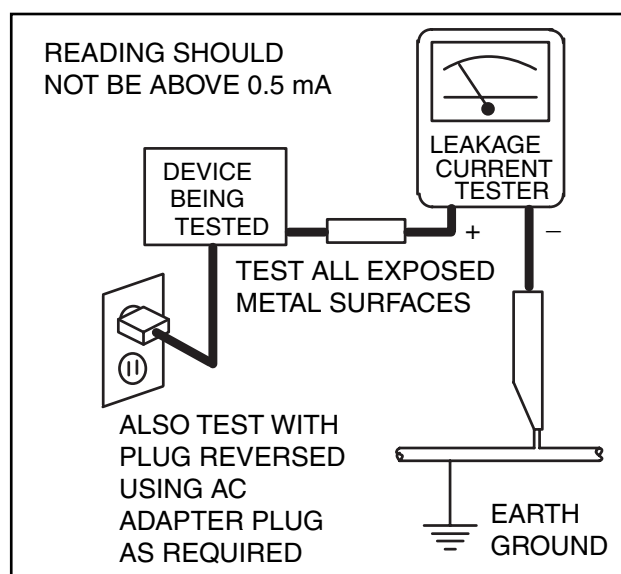
IMPORTANT SAFETY PRECAUTIONS

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.

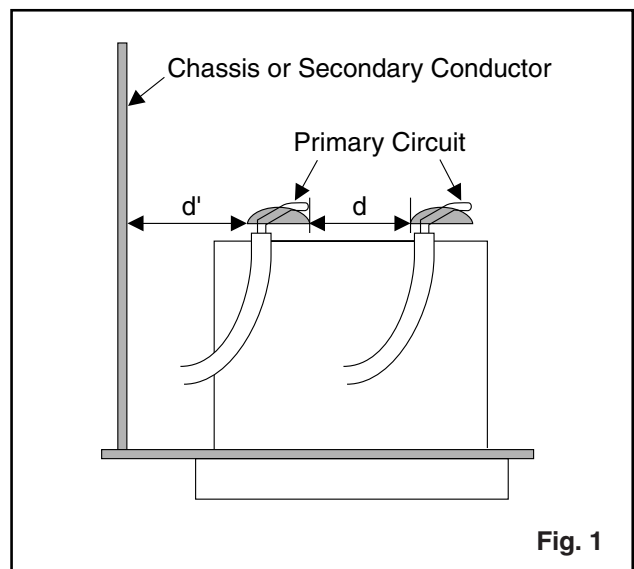


Fig. 1

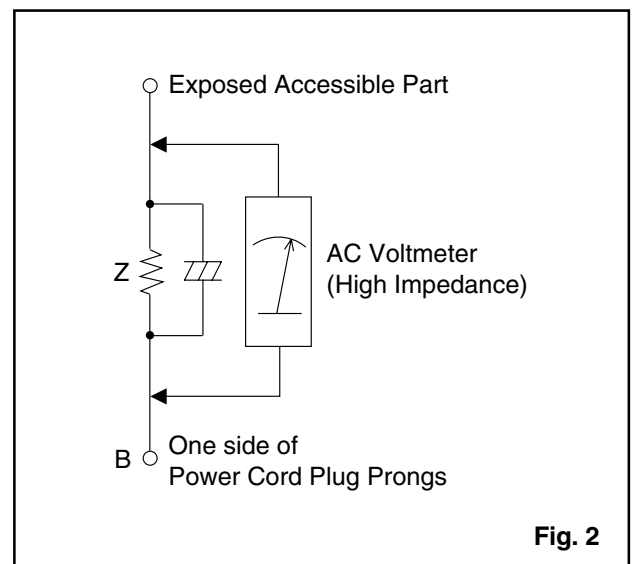


Fig. 2

Table 2: Leakage current ratings for selected areas

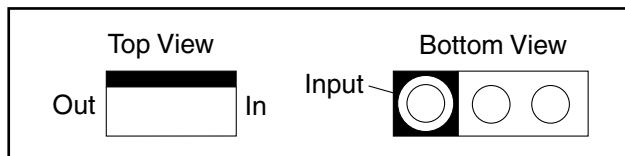
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2k Ω RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	RF or Antenna terminals
	50k Ω RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	A/V Input,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

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

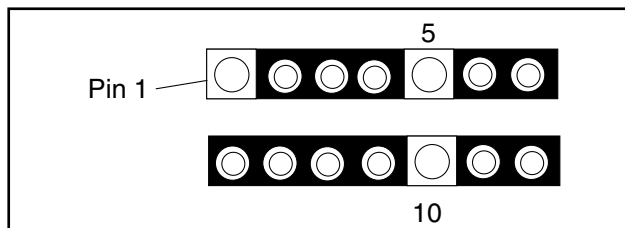
STANDARD NOTES FOR SERVICING

Circuit Board Indications

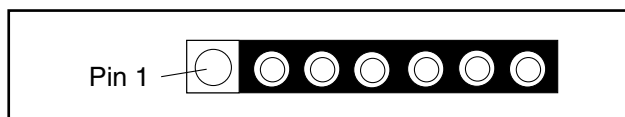
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



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

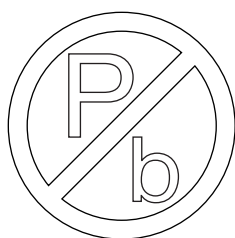


3. The 1st pin of every male connector is indicated as shown.



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)

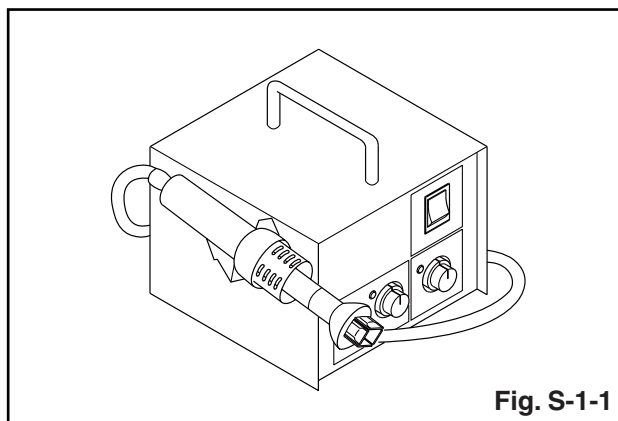


Fig. S-1-1

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.

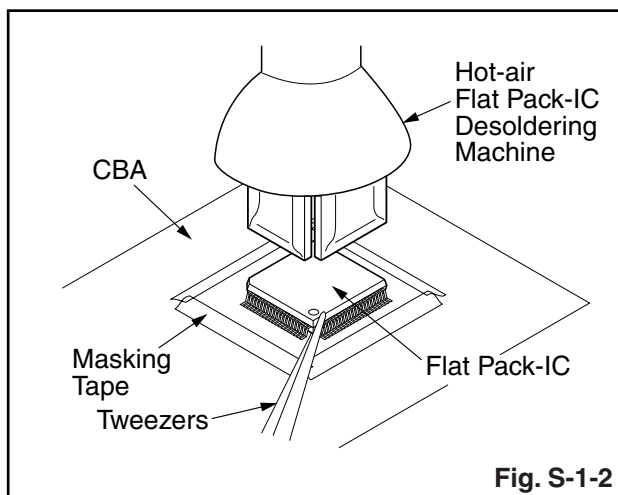
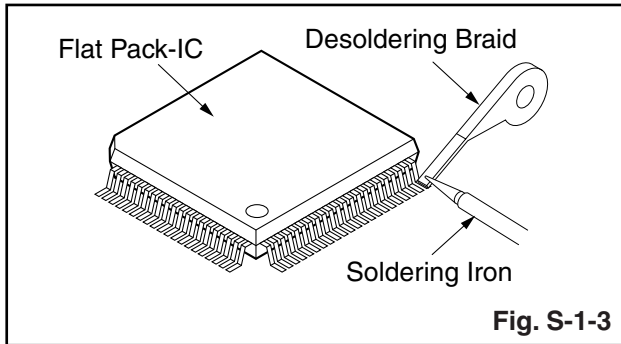


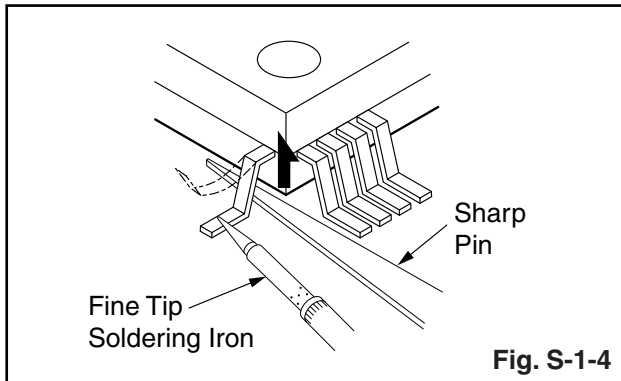
Fig. S-1-2

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)

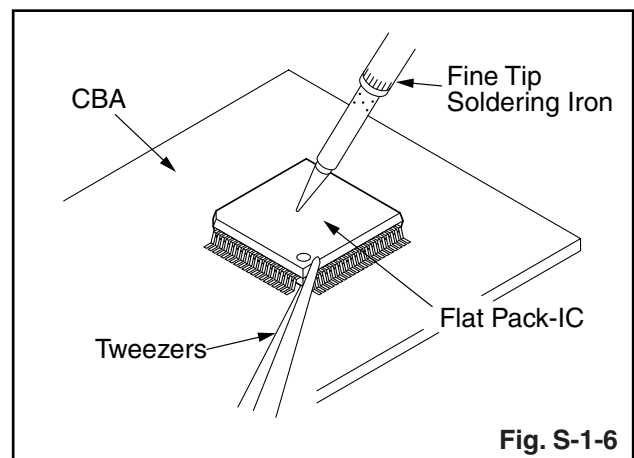
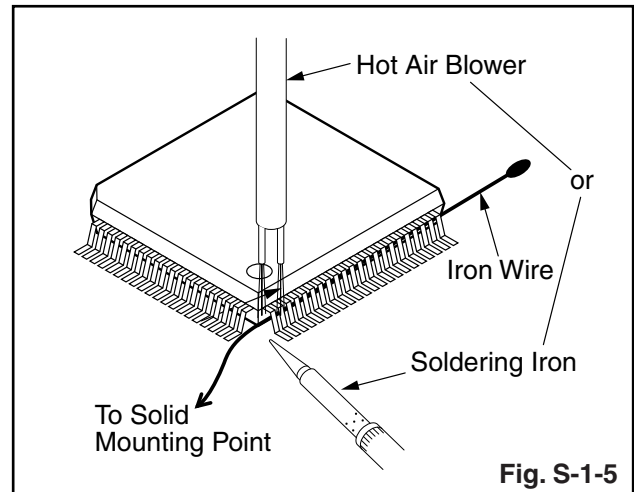


3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

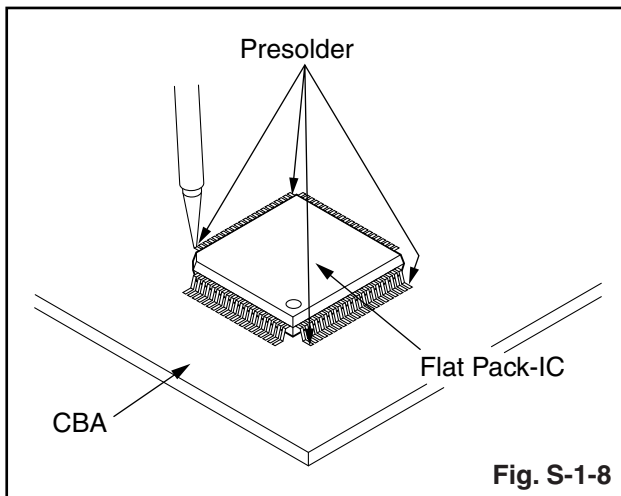
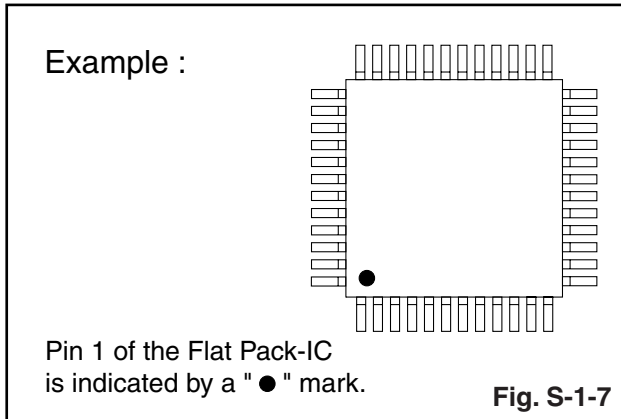
1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins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



Instructions for Handling Semi-conductors

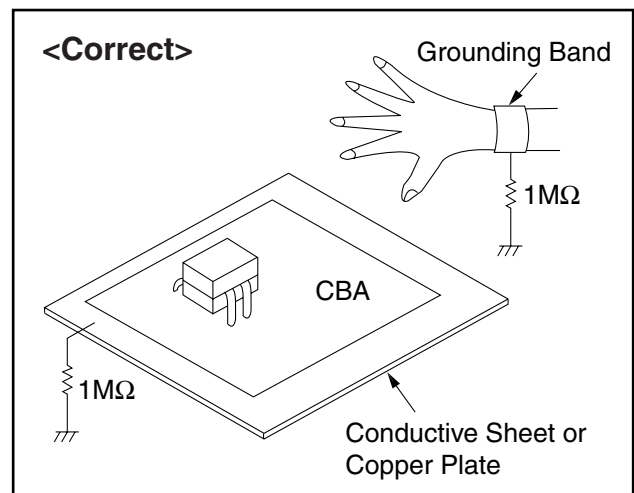
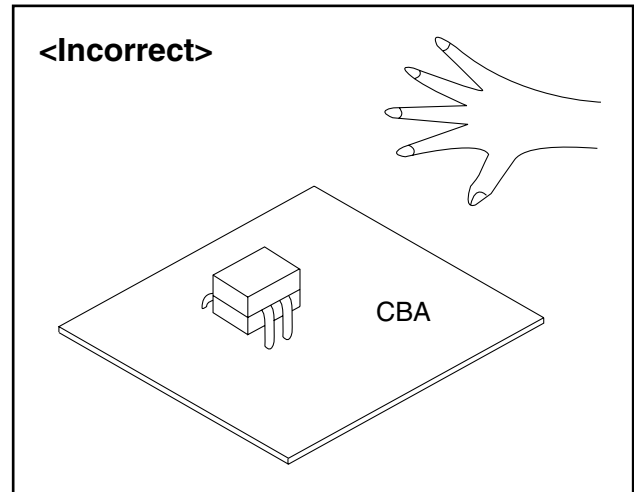
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

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

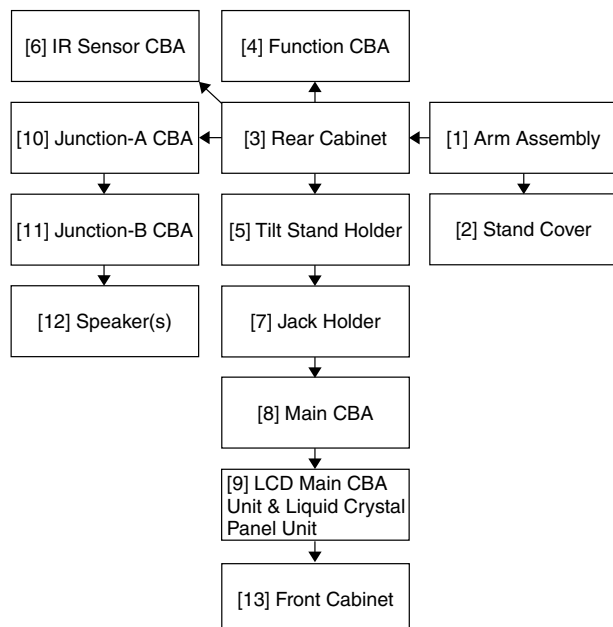
Be sure to place a conductive sheet or copper plate with proper grounding ($1\text{ M}\Omega$) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting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



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

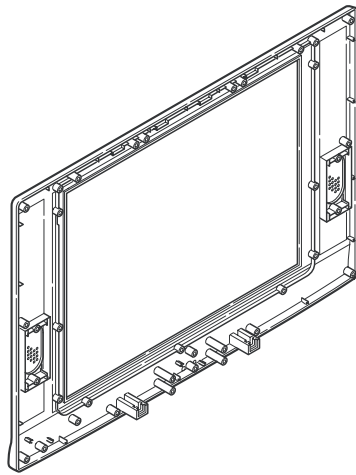
Step/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder	Note
[1]	Arm Assembly	D1	4(S-1), 6(S-2)	---
[2]	Stand Cover	D1	-----	---
[3]	Rear Cabinet	D1	11(S-3), (S-4)	---
[4]	Function CBA	D2 D3	3(S-5), *CN51A	---
[5]	Tilt Stand Holder	D2	2(S-6)	---
[6]	IR Sensor CBA	D2 D3	(S-7), *CLN53	---
[7]	Jack Holder	D2	2(S-8)	---
[8]	Main CBA	D2 D3	9(S-9), *CN101B, *CN102B, *CN103B, *CN401, *CN403, *CN801, *CN802, Earth Plate	---

Step/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder	Note
[9]	LCD Main CBA Unit & Liquid Crystal Panel Unit	D2	11(S-10)	---
[10]	Junction-A CBA	D2 D3	Desolder	---
[11]	Junction-B CBA	D2 D3	Desolder	---
[12]	Speaker (s)	D2	4(S-11), Speaker Holder(s)	---
[13]	Front Cabinet	D2	-----	---

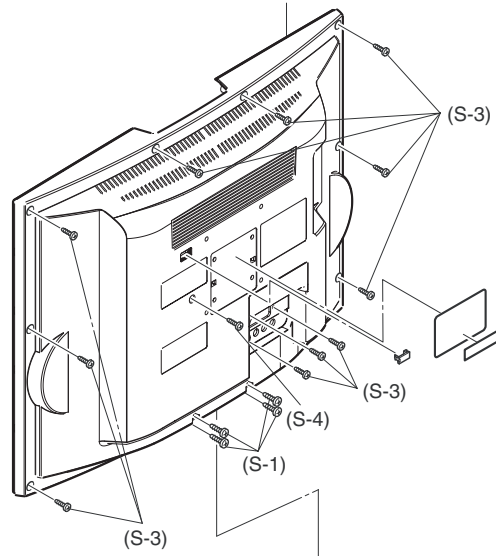
↓ (1) ↓ (2) ↓ (3) ↓ (4) ↓ (5)

Note:

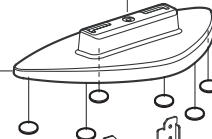
- (1) Order of steps in procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the Identification (location) No. of parts in figures.
- (2) Parts to be removed or installed.
- (3) Fig. No. showing procedure of part location
- (4) Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
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."



[3] Rear Cabinet



[2] Stand Cover



[1] Arm Assembly

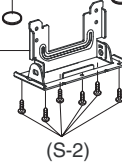
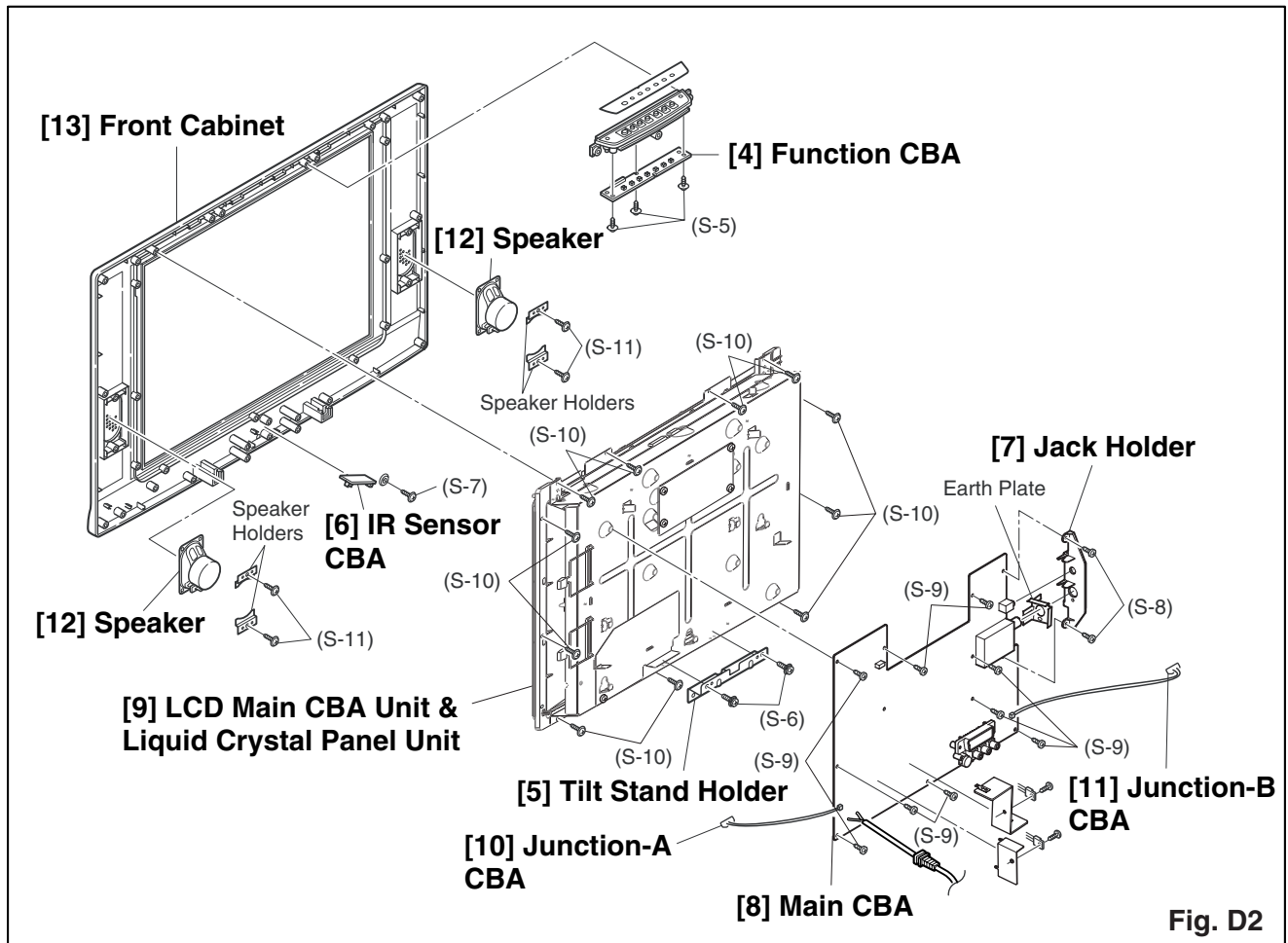
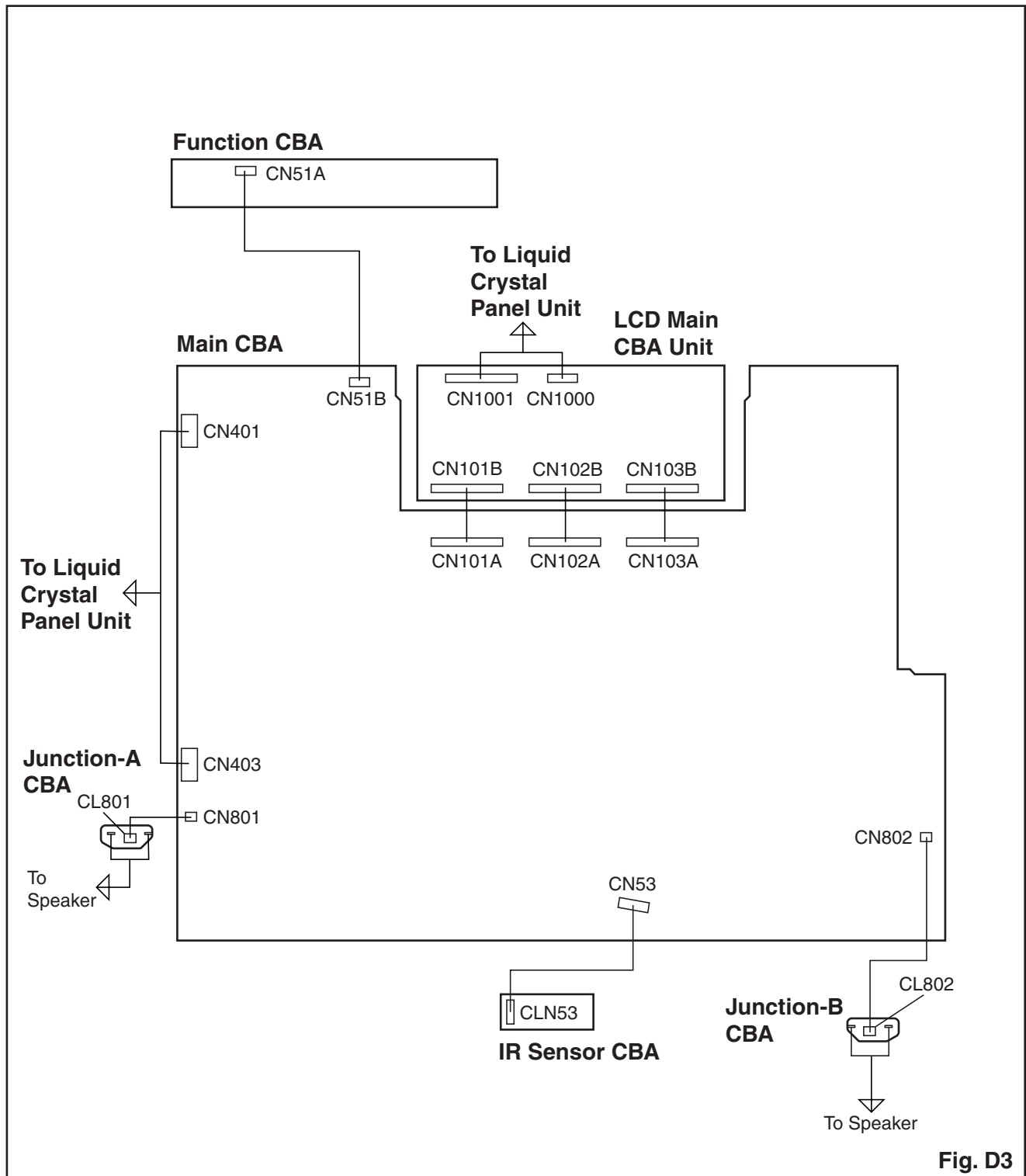


Fig. D1



TV Cable Wiring Diagram



HOW TO INITIALIZE THE LCD TELEVISION

How to initialize the LCD television:

1. Turn the power on.
2. To enter the service mode, press [STANDBY-ON], [2], [7], [1], and [⏏] buttons on the remote control unit in that order within 5 seconds.
 - To cancel the service mode, press [STANDBY-ON] button on the remote control.
3. Press [DISPLAY] button on the remote control unit to initialize the LCD television.
4. Confirm "FF" indication on the upper right of the screen.

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 Generator
3. Color Analyzer

How to Set up the Service mode:

1. Turn the power on. (Use main power on the TV unit.)
2. Press [STANDBY-ON], [2], [7], [1], and [M] buttons on the remote control unit in that order within 5 seconds.
- To cancel the service mode, press [STANDBY-ON] button on the remote control.

1. Initial Setting

General

Enter the Service mode.

Set the each initial data as shown on table 1 below.

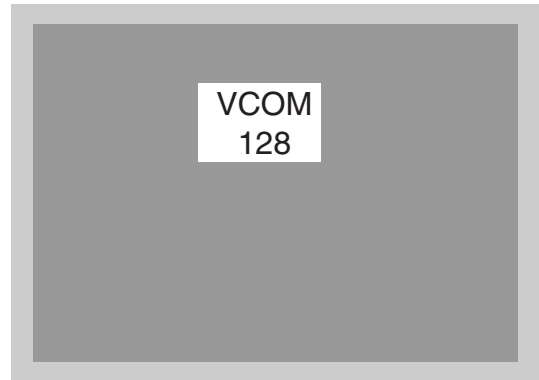
Table 1: Initial Data

ITEM	BUTTON (on the remote control)	DATA VALUE
RF-BRT(PAL)	[SETUP(PAL)] → [1]	130
RF-CNT(PAL)		170
RF-CLR-R(PAL)		84
RF-CLR-B(PAL)		81
RF-SHR(PAL)		143
AV-BRT(PAL)	[SETUP(PAL)] → [2]	130
AV-CNT(PAL)		170
AV-CLR-R(PAL)		84
AV-CLR-B(PAL)		81
AV-SHR(PAL)		143
S-BRT(PAL)	[SETUP(PAL)] → [3]	127
S-CNT(PAL)		175
S-CLR-R(PAL)		81
S-CLR-B(PAL)		86
S-SHR(PAL)		143
C-BRT(PAL)	[SETUP(PAL)] → [4]	135
C-CNT(PAL)		190
C-CLR-R(PAL)		125
C-CLR-B(PAL)		140
C-SHR(PAL)		143
RF-BRT(SECAM)	[SETUP(SECAM)] → [1]	130
RF-CNT(SECAM)		180
RF-CLR-R(SECAM)		80
RF-CLR-B(SECAM)		80
RF-SHR(SECAM)		143
AV-BRT(SECAM)	[SETUP(SECAM)] → [2]	125
AV-CNT(SECAM)		180
AV-CLR-R(SECAM)		80
AV-CLR-B(SECAM)		80
AV-SHR(SECAM)		143
S-BRT(SECAM)	[SETUP(SECAM)] → [3]	125
S-CNT(SECAM)		180
S-CLR-R(SECAM)		80
S-CLR-B(SECAM)		80
S-SHR(SECAM)		143
C-BRT(SECAM)	[SETUP(SECAM)] → [4]	135
C-CNT(SECAM)		190
C-CLR-R(SECAM)		125
C-CLR-B(SECAM)		140
C-SHR(SECAM)		143

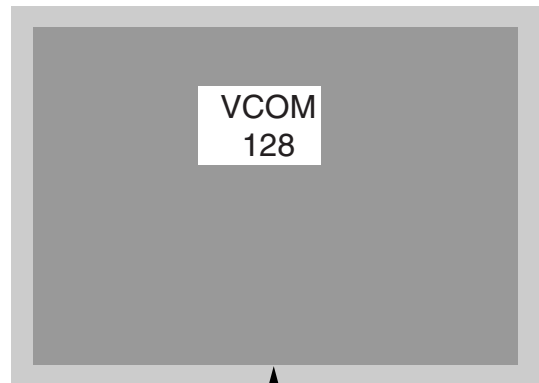
ITEM	BUTTON (on the remote control)	DATA VALUE
BRT(NTSC)	[SETUP(NTSC)] → [2]	122
CNT(NTSC)		170
CLR-R(NTSC)		92
CLR-B(NTSC)		92
TNT(NTSC)		135
SHR(NTSC)		143
S-BRT(NTSC)	[SETUP(NTSC)] → [3]	122
S-CNT(NTSC)		190
S-CLR-R(NTSC)		92
S-CLR-B(NTSC)		92
S-TNT(NTSC)		135
S-SHR(NTSC)		143
C-BRT(NTSC)	[SETUP(NTSC)] → [4]	122
C-CNT(NTSC)		170
C-CLR-R(NTSC)		119
C-CLR-B(NTSC)		119
C-TNT(NTSC)		135
C-SHR(NTSC)		143
BRIGHT	[0]	0
NORMAL	[0]	40
DARK	[0]	95
COR(C/D/S-1)	[▲ -] → [1]	128
COG(C/D/S-1)	[▲ -] → [2]	128
COB(C/D/S-1)	[▲ -] → [3]	128
DR(C/D/S-1)	[▲ -] → [4]	128
DG(C/D/S-1)	[▲ -] → [5]	128
DB(C/D/S-1)	[▲ -] → [6]	128
SBR(C/D/S-1)	[▲ -] → [7]	0
SBB(C/D/S-1)	[▲ -] → [9]	0
C-COR(C/D/S-2)	[▲ -] → [1]	128
C-COG(C/D/S-2)	[▲ -] → [2]	128
C-COB(C/D/S-2)	[▲ -] → [3]	128
C-DR(C/D/S-2)	[▲ -] → [4]	128
C-DG(C/D/S-2)	[▲ -] → [5]	128
C-DB(C/D/S-2)	[▲ -] → [6]	128
C-SBR(C/D/S-2)	[▲ -] → [7]	0
C-SBB(C/D/S-2)	[▲ -] → [9]	0
LAST POWER	[▲ -]	OFF

2. Flicker Adjustment

1. Enter the Service mode.
2. Press [2] button on the remote control unit.
The following screen appears.



3. If Flicker Adjustment is not fit, the screen becomes the following.



FLASH (Go and Off)

4. Press [P ^ / ∨] buttons on the remote control unit so that flash stops.

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

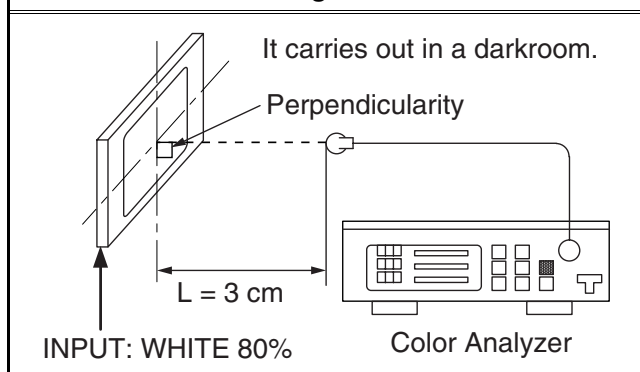
Purpose: To mix red, green and blue beams correctly for pure white.

Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	[ -] button	[RF/AV2(CVBS)] C/D/S-1 [AV1(RGB)] C/D/S-2	White Purity (APL 80%) or (APL 20%)

M. EQ.	Spec.
Pattern Generator, Color analyzer	x= 0.276 ± 0.03, y= 0.282 ± 0.03

Figure



- Operate the unit for more than 20 minutes.
- Input the White Purity.
- 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.
- [RF/AV2(CVBS)]**
Enter the Service mode. Press [ -] button on the remote control unit and select "C/D/S-1" mode.
[AV1(RGB)]
Enter the Service mode. Press [ -] button on the remote control unit and select "C/D/S-2" mode.
- [RF/AV2(CVBS)]----(APL 80%)**
Press [6] button to select "DB(C/D/S-1)" for Blue adjustment. Press [4] button to select "DR(C/D/S-1)" for Red adjustment. When "x" value and "y" value are not within specification, adjust "DB (C/D/S-1)" or "DR (C/D/S-1)". Refer to "1. Initial Setting."
[RF/AV2(CVBS)]----(APL 20%)
Press [3] button to select "COB(C/D/S-1)" for Blue adjustment. Press [1] button to select "COR(C/D/S-1)" for Red adjustment. When "x" value and "y" value are not within specification, adjust "COB (C/D/S-1)" or "COR (C/D/S-1)". Refer to "1. Initial Setting."

- [AV1(RGB)]----(APL 80%)**
Press [6] button to select "C-DB(C/D/S-2)" for Blue adjustment. Press [4] button to select "C-DR(C/D/S-2)" for Red adjustment. When "x" value and "y" value are not within specification, adjust "C-DB(C/D/S-2)" or "C-DR(C/D/S-2)". Refer to "1. Initial Setting."

[AV1(RGB)]----(APL 20%)

Press [3] button to select "C-COB(C/D/S-2)" for Blue adjustment. Press [1] button to select "C-COR(C/D/S-2)" for Red adjustment. When "x" value and "y" value are not within specification, adjust "C-COB(C/D/S-2)" or "C-COR(C/D/S-2)". Refer to "1. Initial Setting."

- Turn the power off and on again.

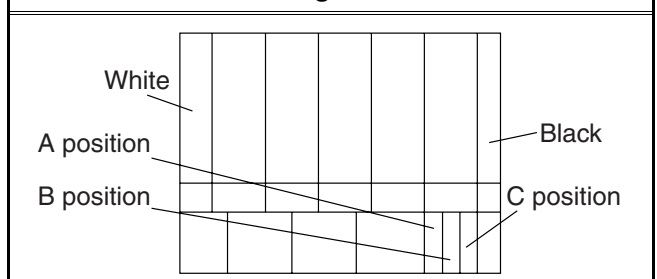
4. Sub-Brightness Adjustment

Purpose: To get proper brightness.

Symptom of Misadjustment: If Sub-Brightness is incorrect, proper brightness cannot be obtained by adjusting the Brightness Control.

Adj. Point	Input
[SETUP] button	Ant. input, Any channel, SMPTE pattern, [RF/AV2(CVBS)]: CG-931 (KENWOOD), [AV1(RGB)]: CG-931 (KENWOOD), W/O SETUP 7.5IRE
M. EQ.	Spec.
Pattern Generator	See below

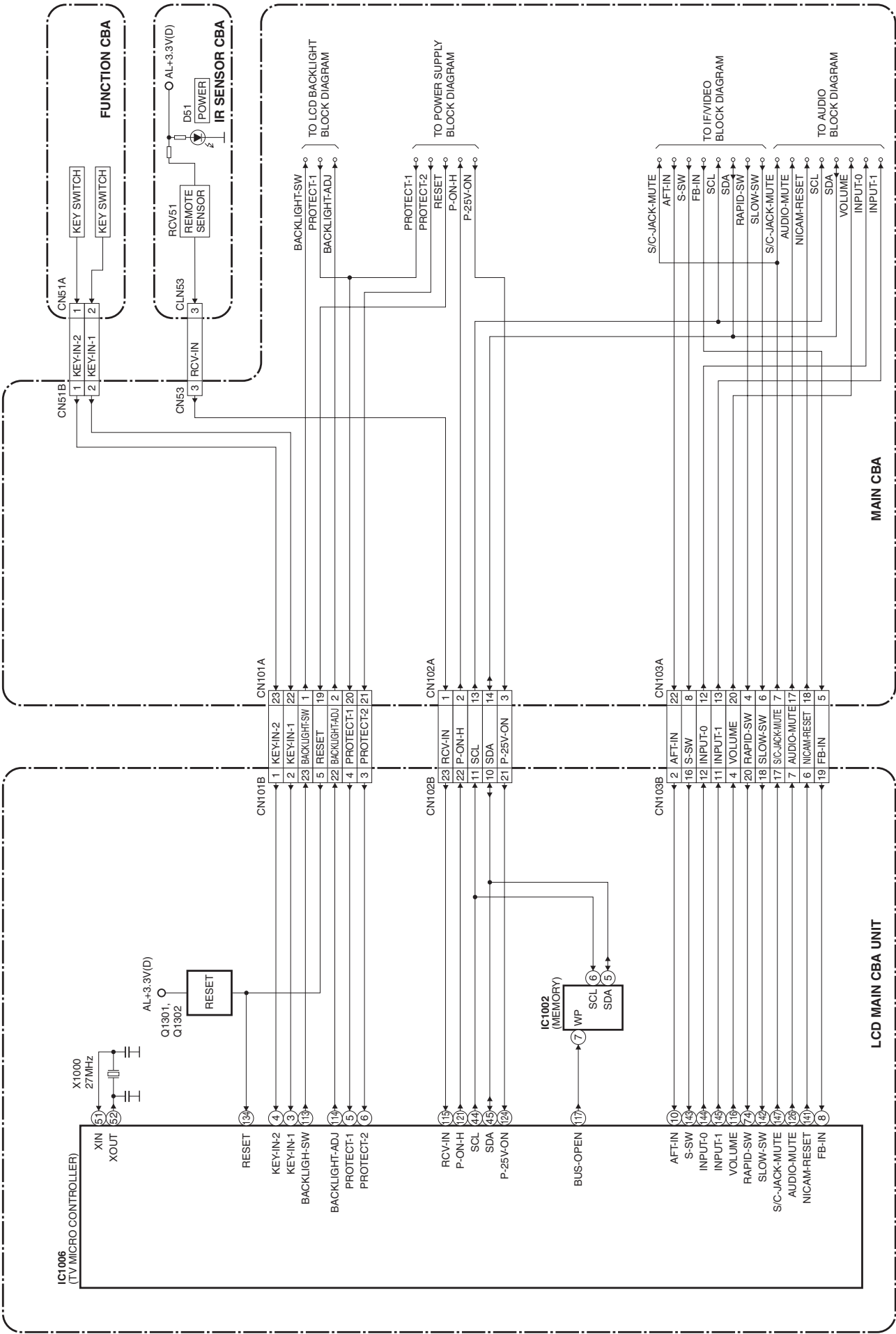
Figure



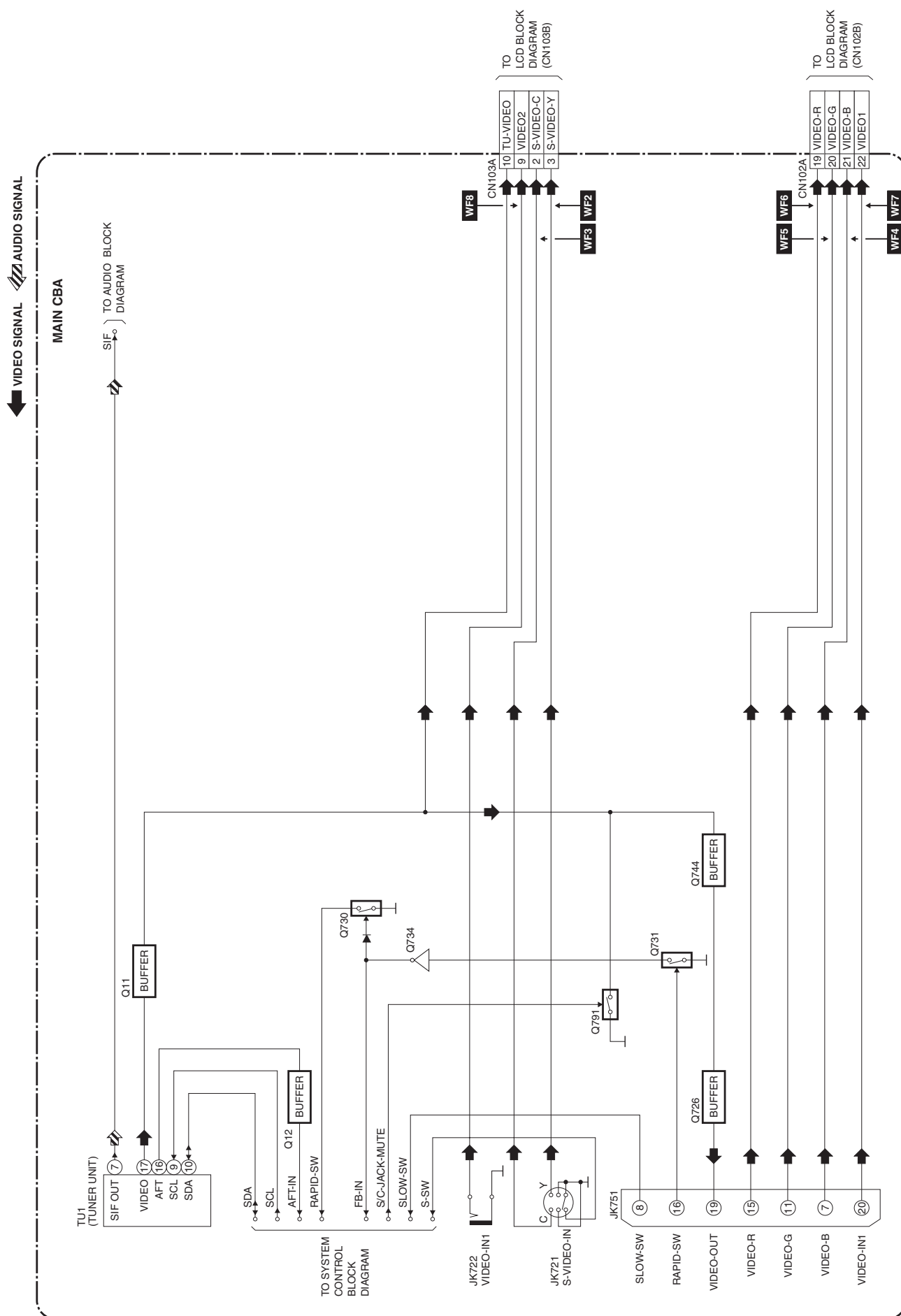
- Enter the Service mode. Then input above signal.
- [RF/AV2(CVBS)]**
Press [SETUP] button on the remote control unit and press [1] on the service remote control (selecting "BRT" mode).
[AV1(RGB)]
Press [SETUP] button on the service remote control unit and press [3] on the service remote control (selecting "C-BRT" mode).
- Make sure that contrast and brightness controls are set to initial position.
- Confirm "C" position was beginning to bright.
- If "C" position was beginning to bright, no need to adjust.
- If "C" position is not available or to be highly brightness, then adjust IIC-BUS data.
[RF/AV2(CVBS)]: BRT
[AV1(RGB)]: C-BRT
- Turn the power off and on again.

BLOCK DIAGRAMS

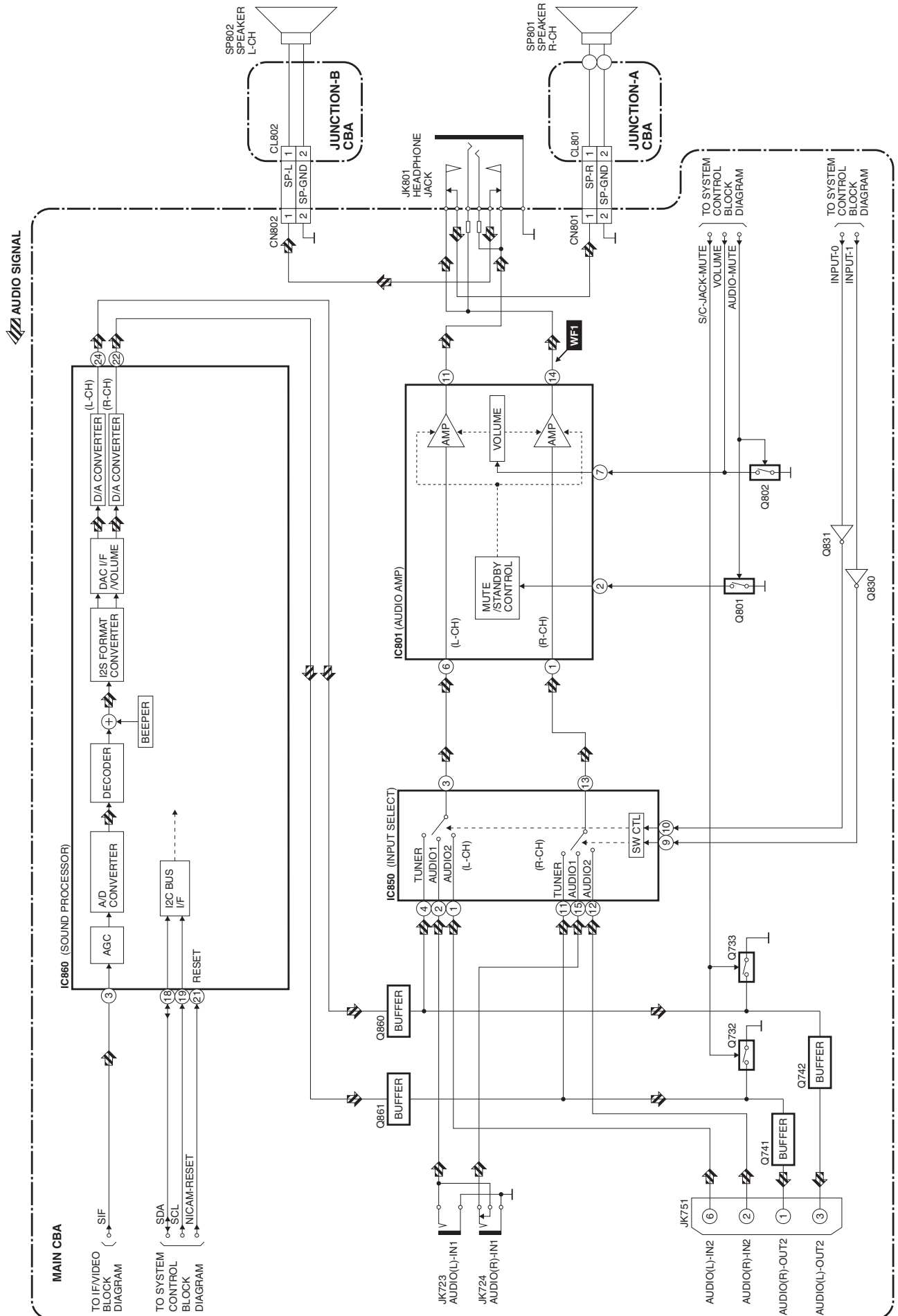
System Control Block Diagram



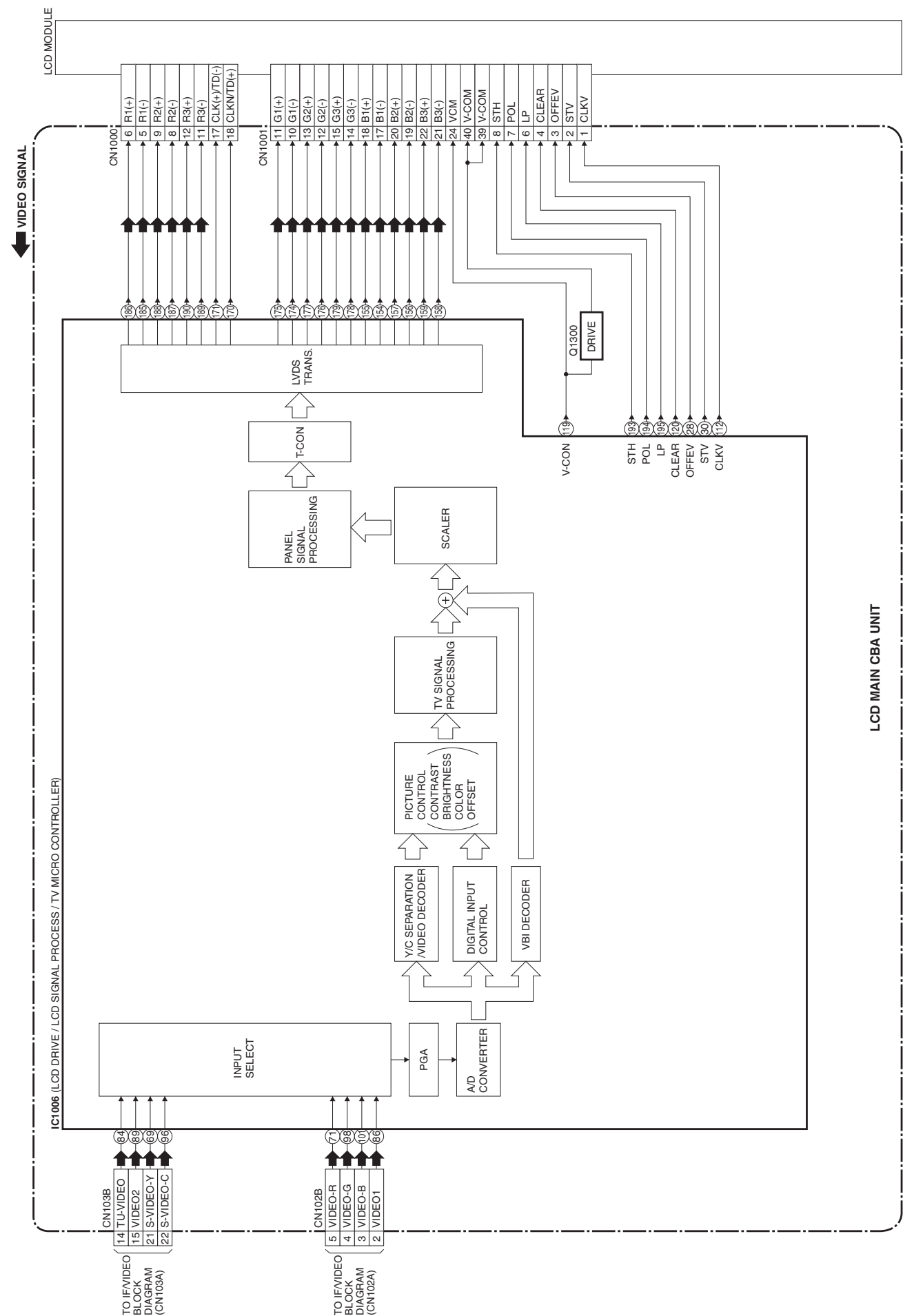
IF/Video Block Diagram



Audio Block Diagram



LCD Block Diagram



Power Supply Block Diagram

CAUTION !

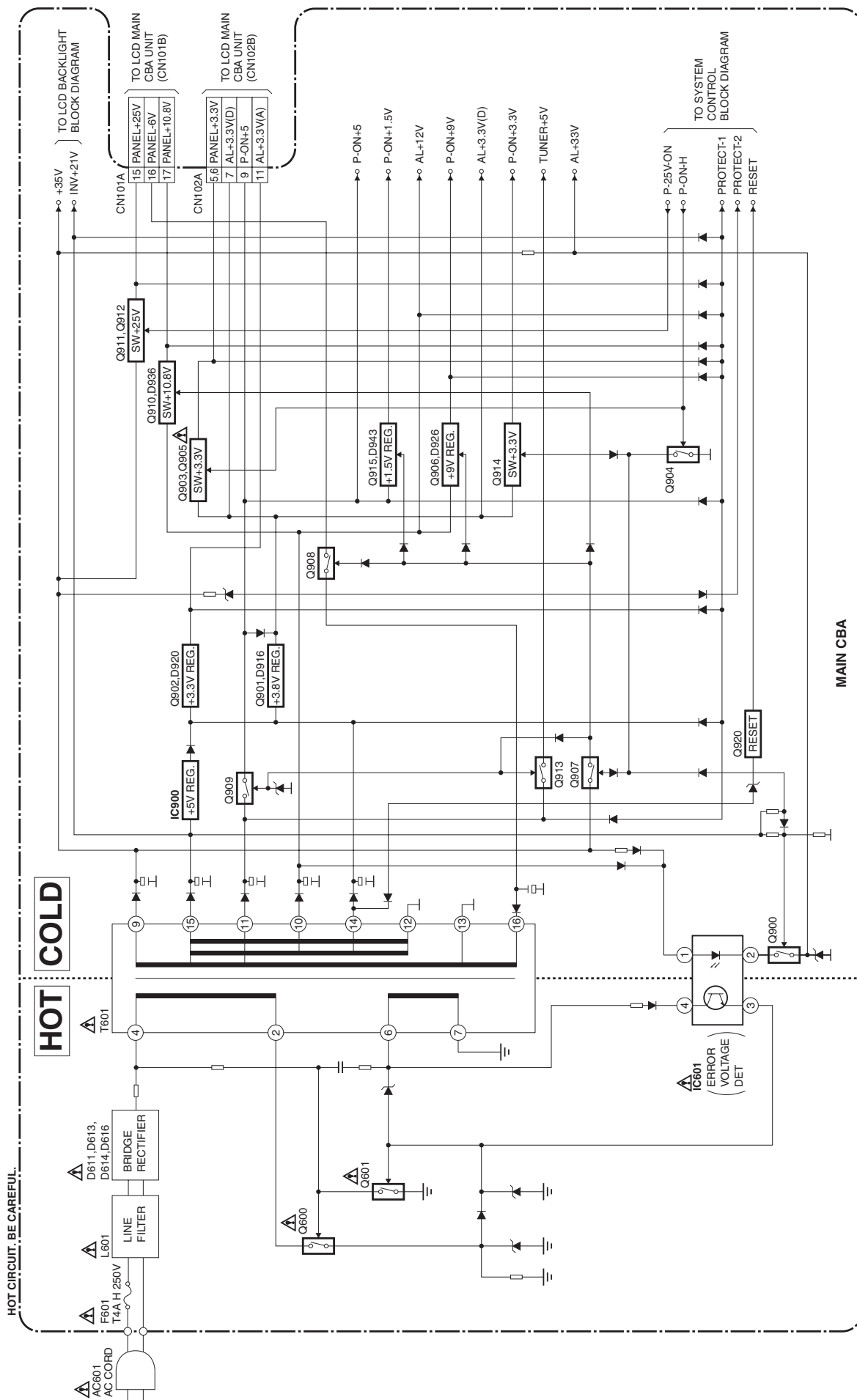
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power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

CAUTION !

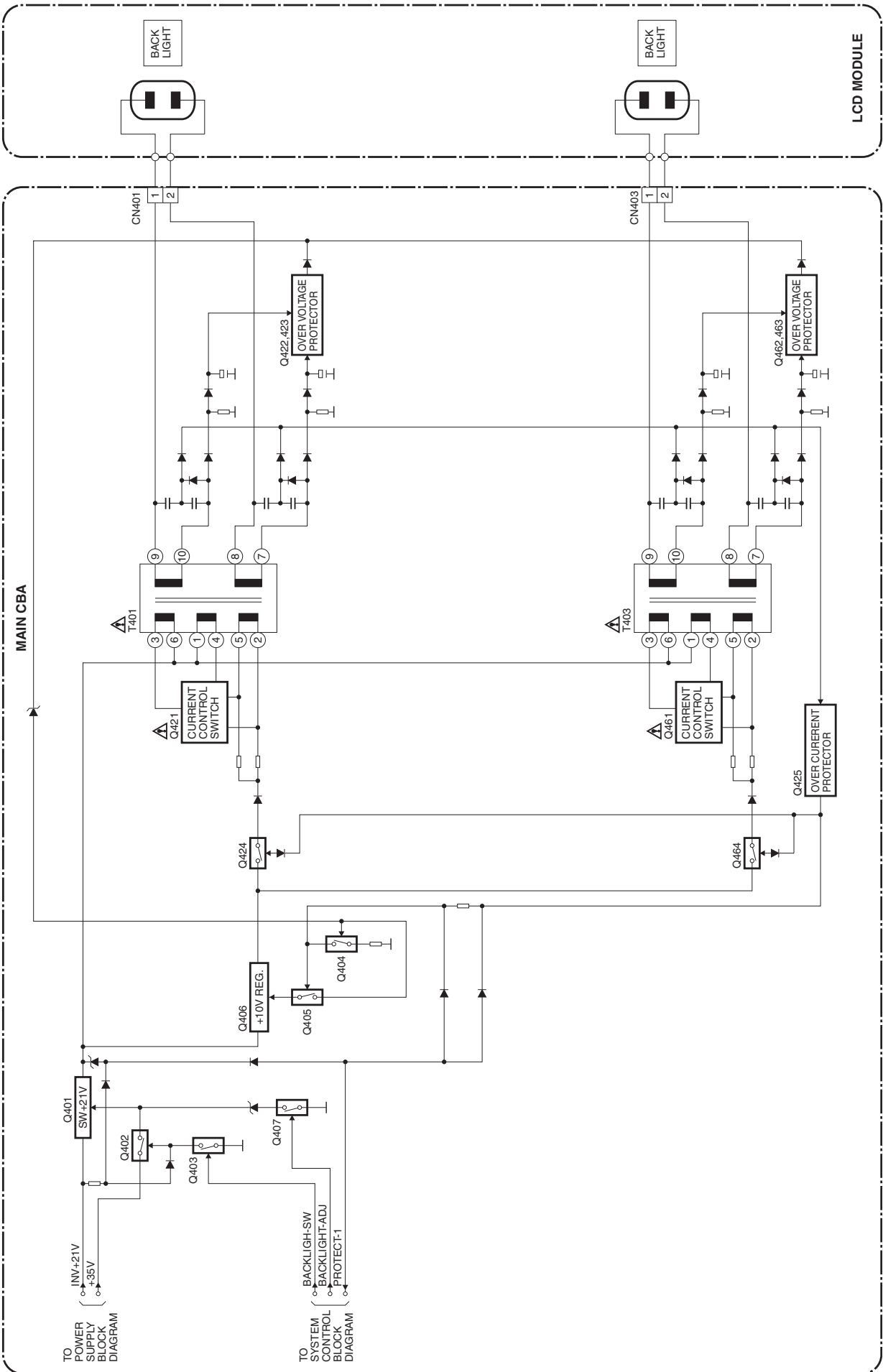
For continued protection against fire hazard, replace only with the same type fuse.

NOTE:

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



LCD Backlight Block Diagram



SCHEMATIC DIAGRAMS / CBA'S 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.

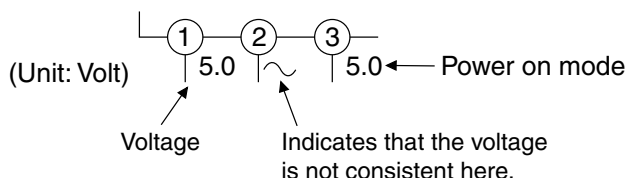
If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

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.:

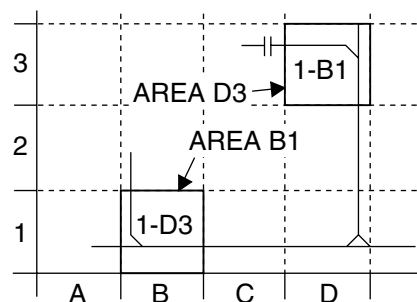


5. How to read converged lines

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

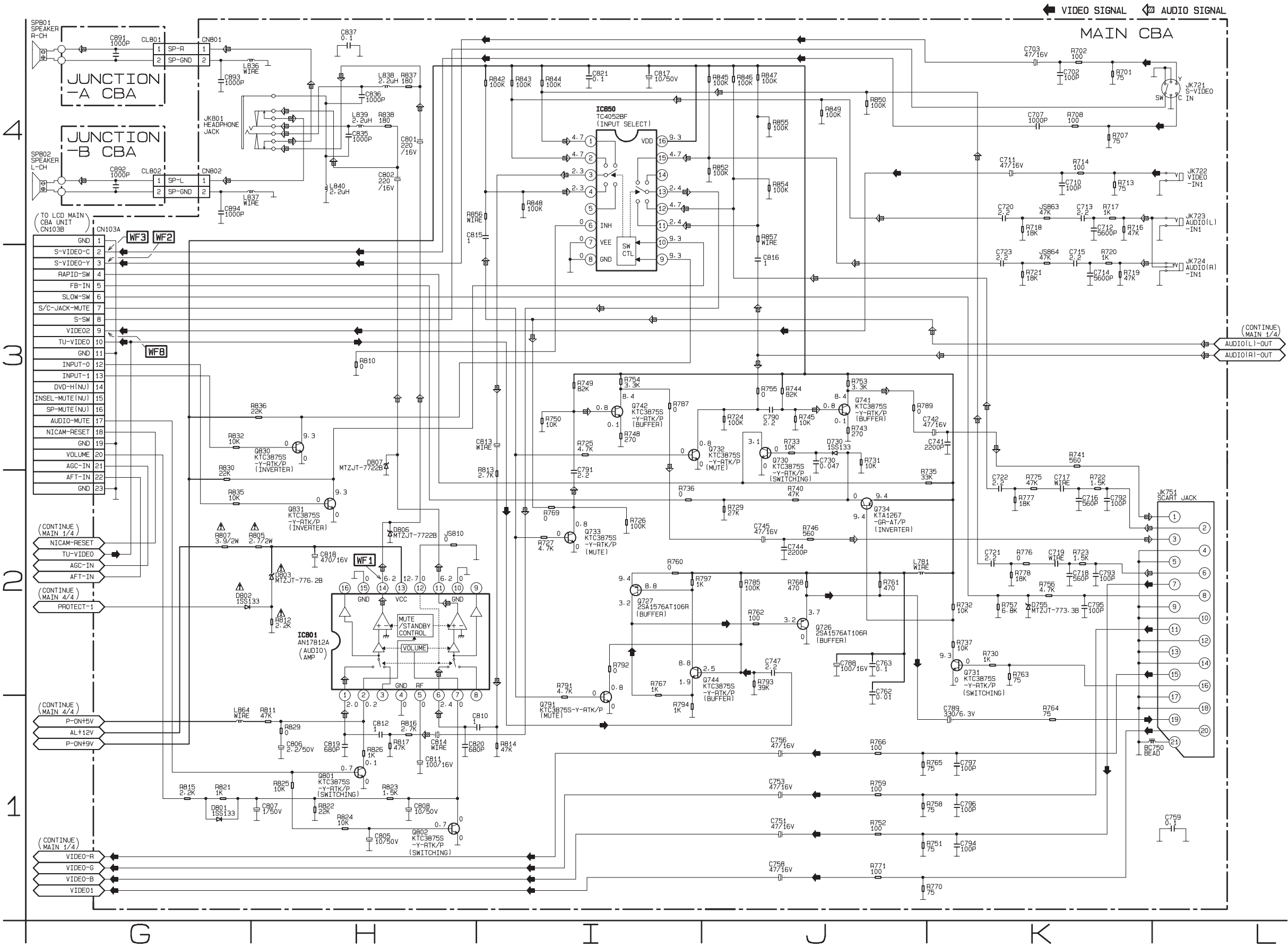
: Indicates a test point with a jumper wire across a hole in the PCB.

: 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 2/4, Junction-A & Junction-B Schematic Diagram



VOLTAGE CHART

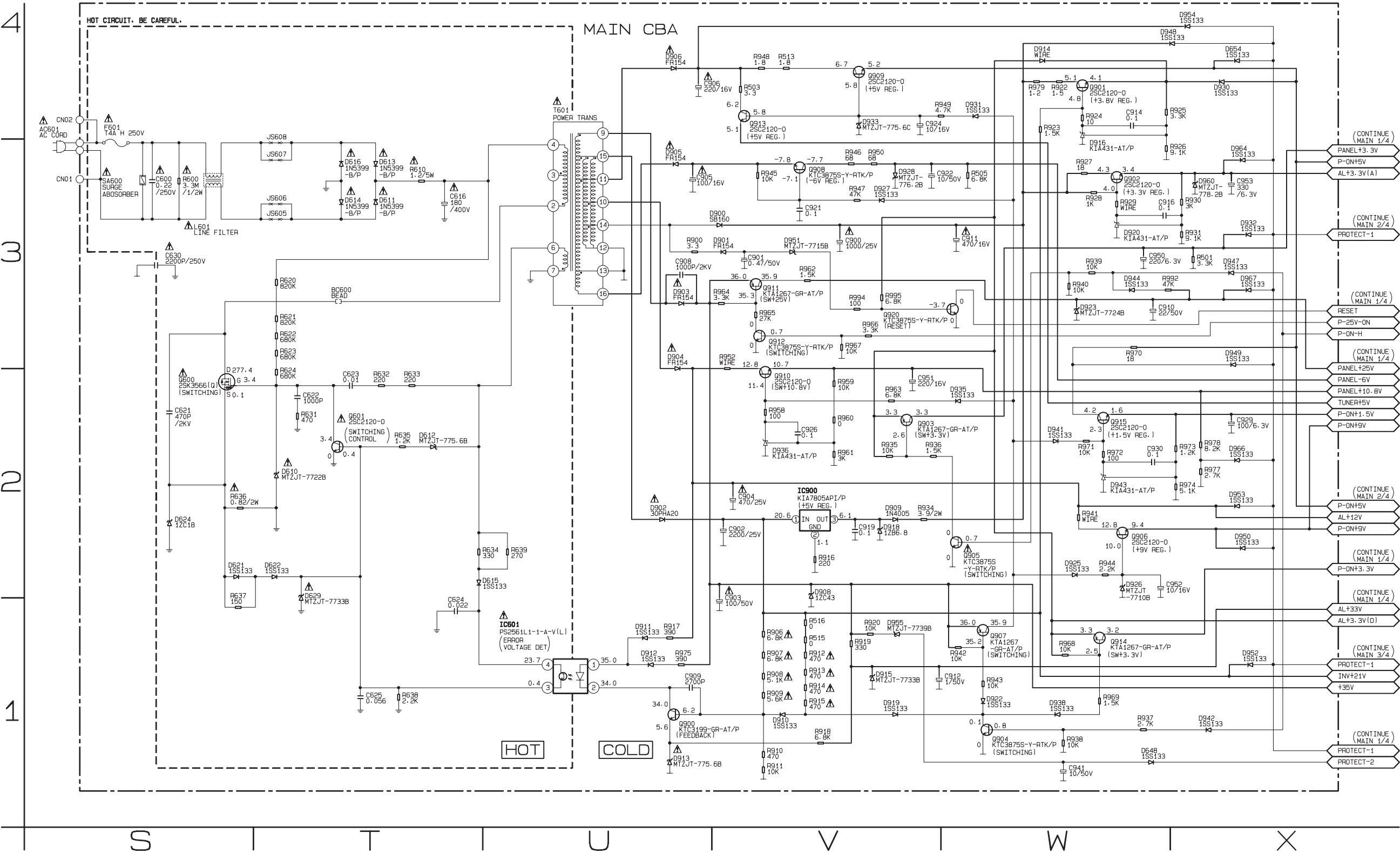
CN103A	
Pin No.	Voltage
1	0
2	0.1
3	0.4
4	0.1
5	3.2
6	0
7	0
8	3.2
9	0.4
10	0.8
11	0
12	0
13	0
14	---
15	---
16	---
17	3.3
18	3.3
19	0
20	0.1
21	0
22	2.6
23	0

Main 4/4 Schematic Diagram

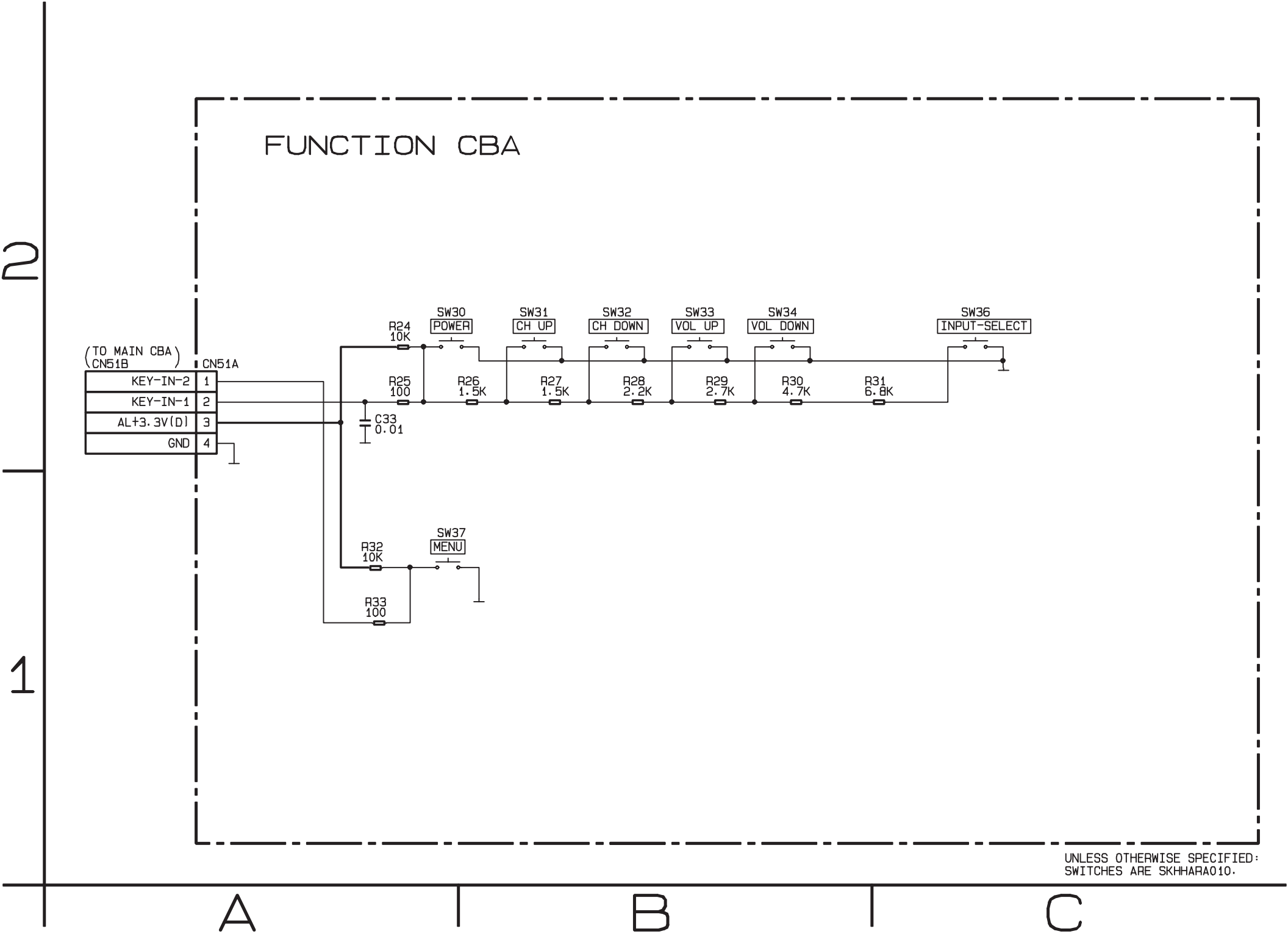
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in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

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

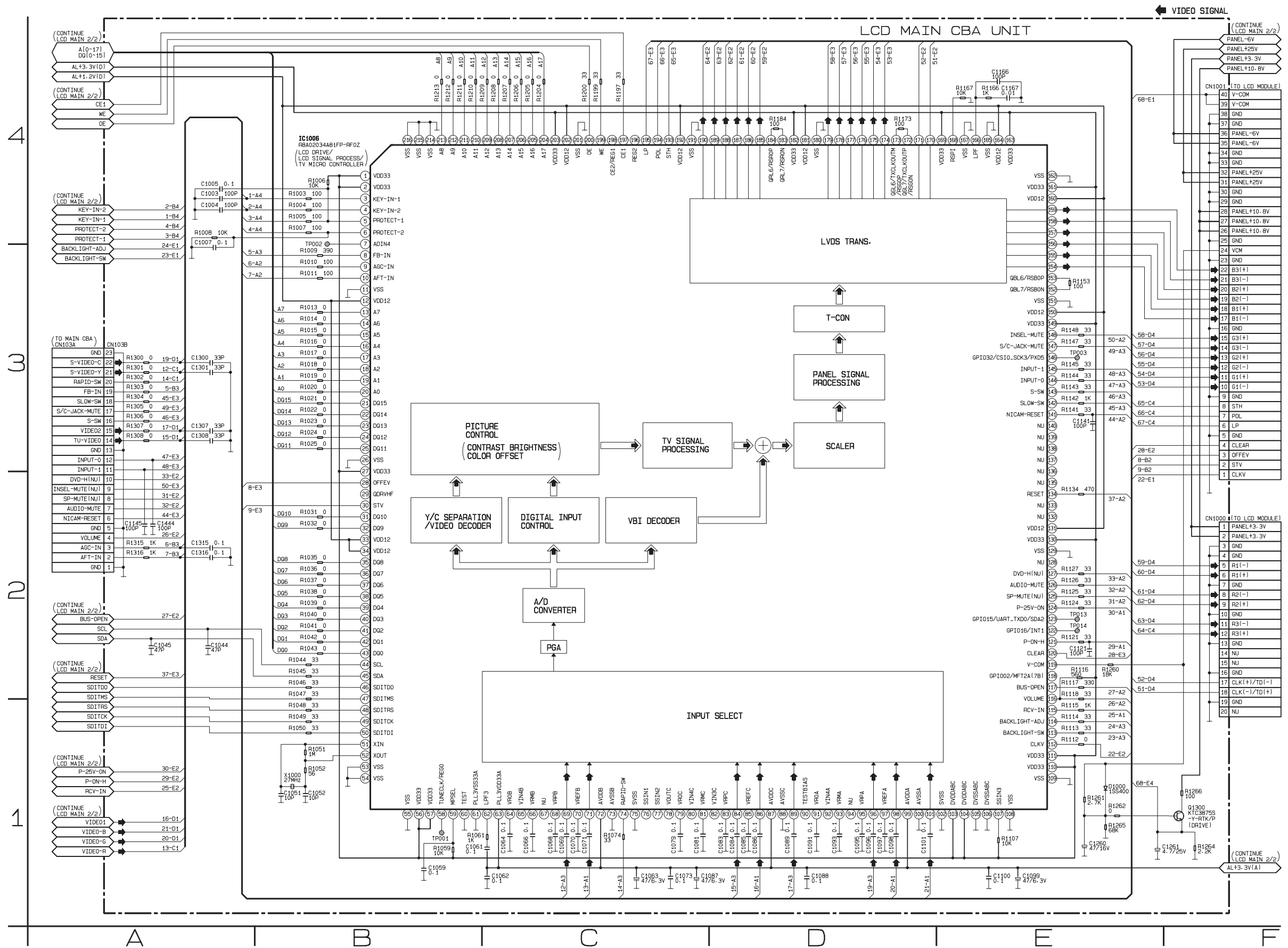
NOTE:
The voltage for parts in hot circuit is measured using
hot GND as a common terminal.



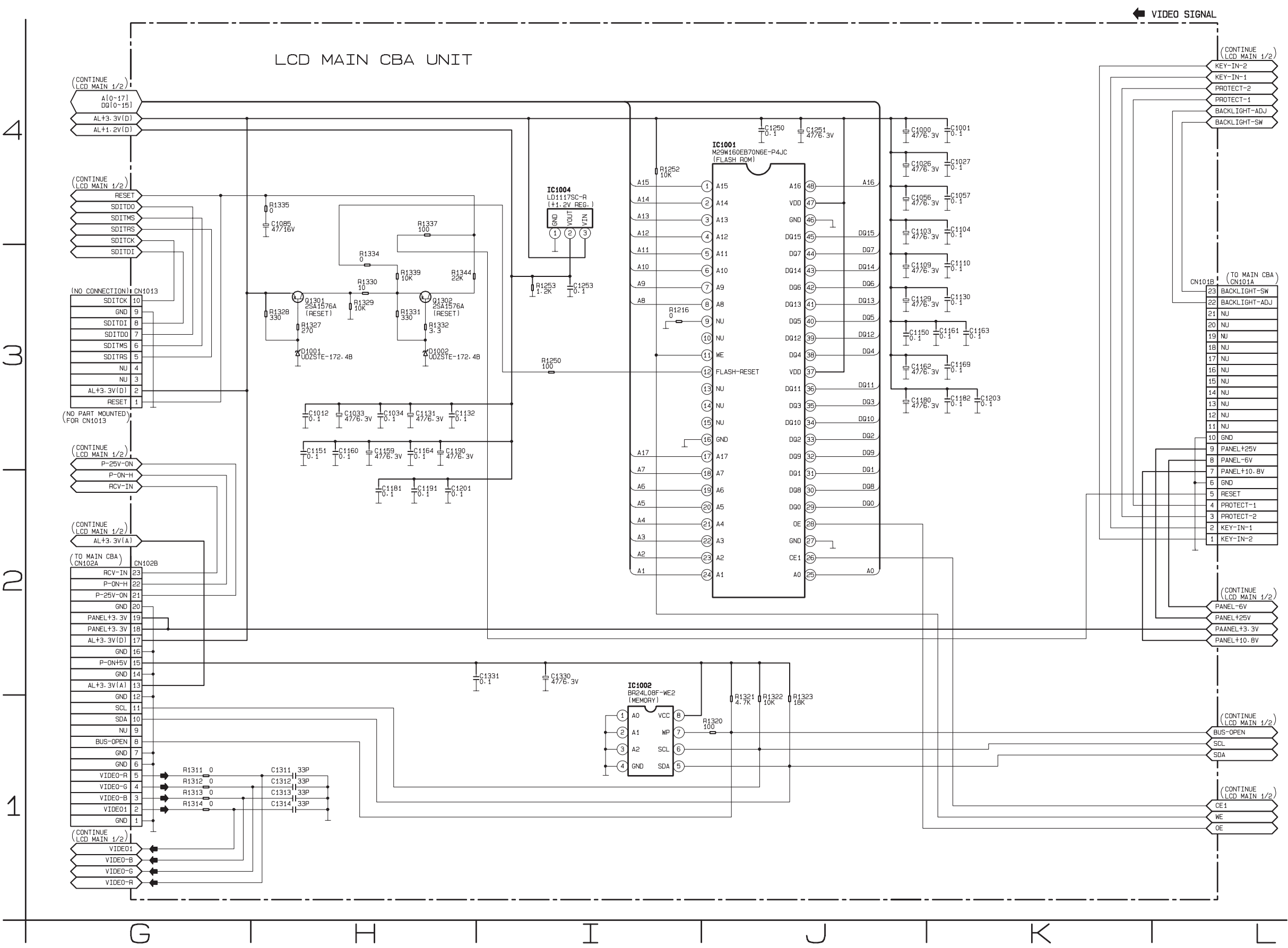
Function Schematic Diagram



LCD Main 1/2 Schematic Diagram



LCD Main 2/2 Schematic Diagram



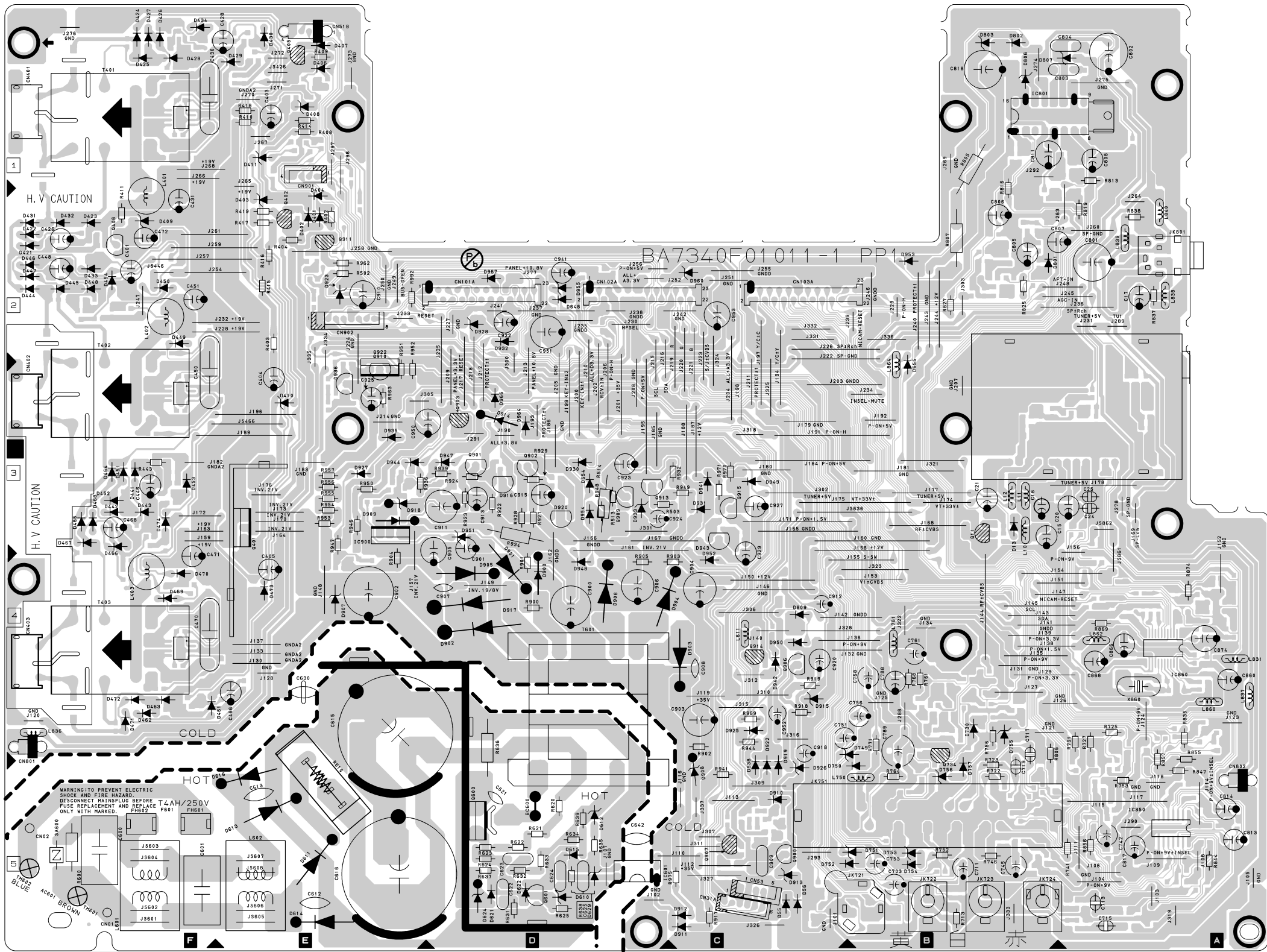
Main CBA Top View

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

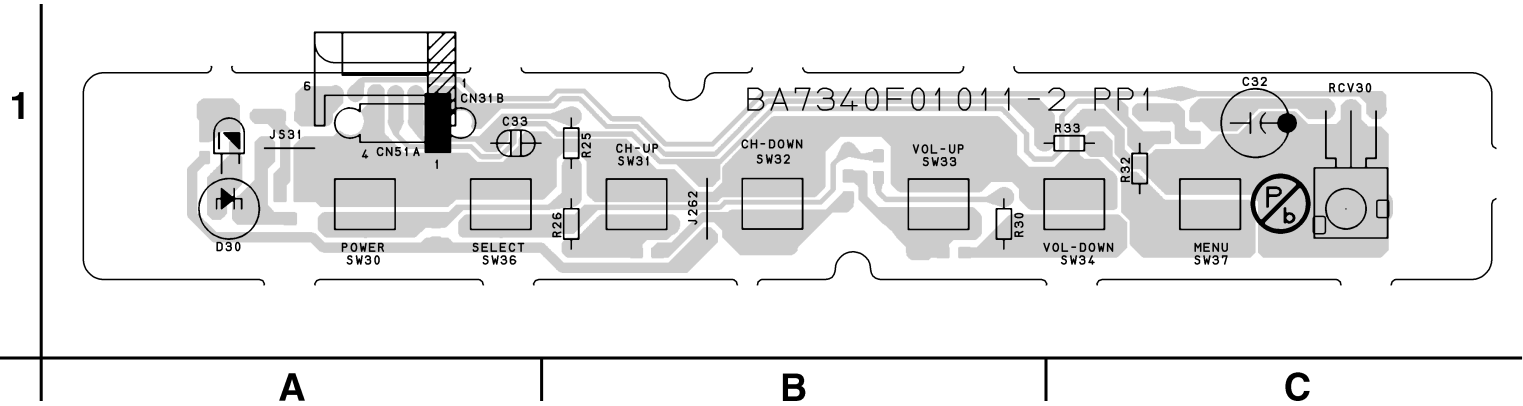
NOTE:
The voltage for parts in hot circuit is measured using
hot GND as a common terminal.

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.

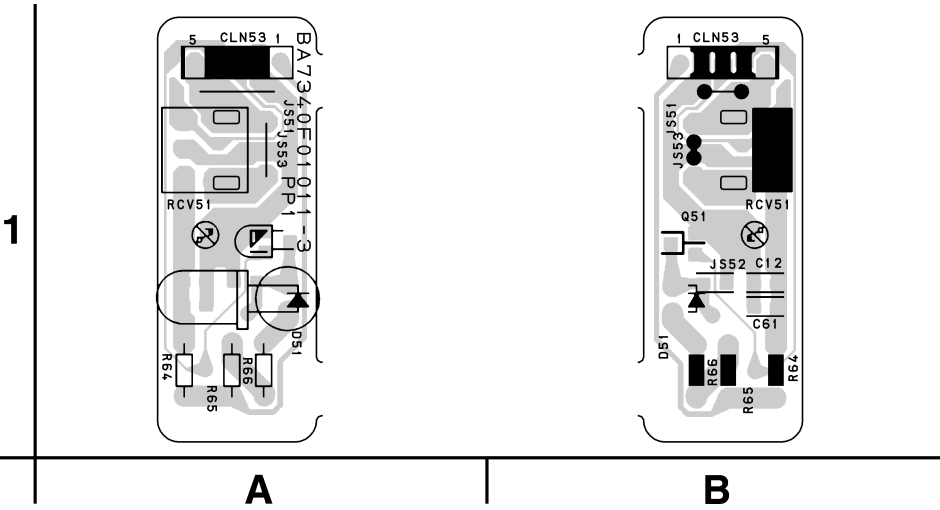
Because a hot chassis ground is present in the power
supply circuit, an isolation transformer must be used.
Also, in order to have the ability to increase the input
slowly, when troubleshooting this type power supply
circuit, a variable isolation transformer is required.



Function CBA Top View

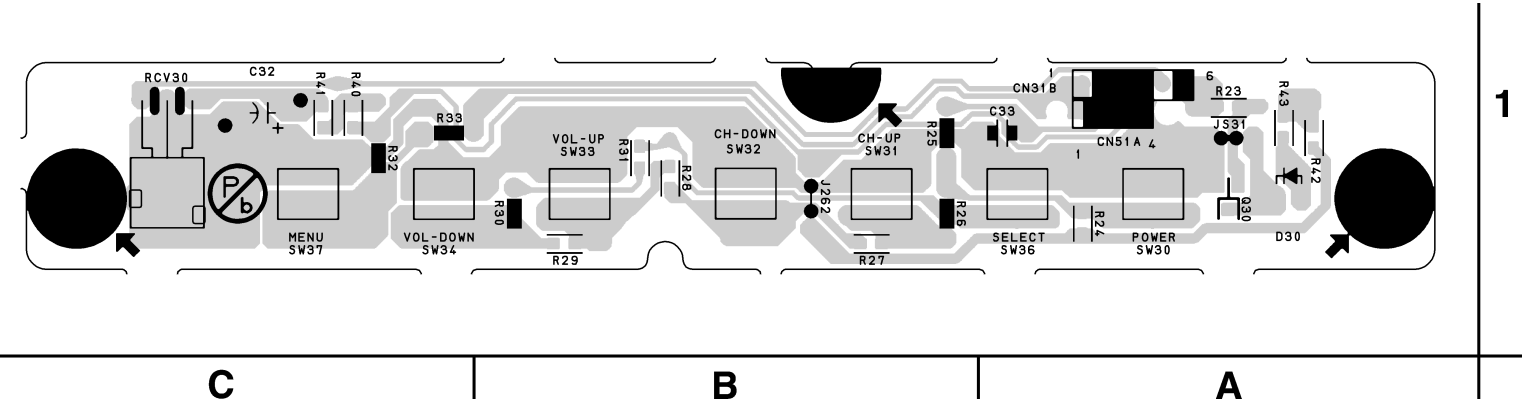


IR Sensor CBA Top & Bottom View



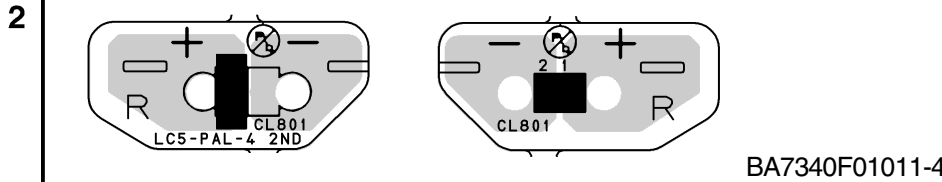
BA7340F01011-3

Function CBA Bottom View



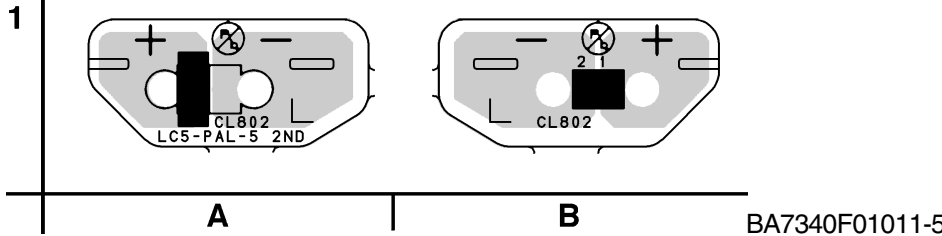
BA7340F01011-2

Junction-A CBA Top & Bottom View



BA7340F01011-4

Junction-B CBA Top & Bottom View



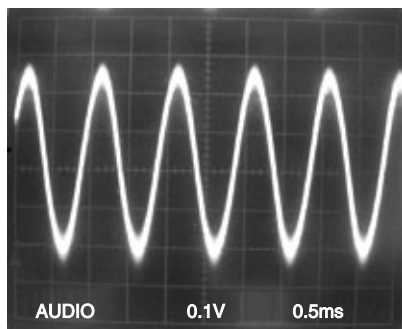
BA7340F01011-5

WAVEFORMS

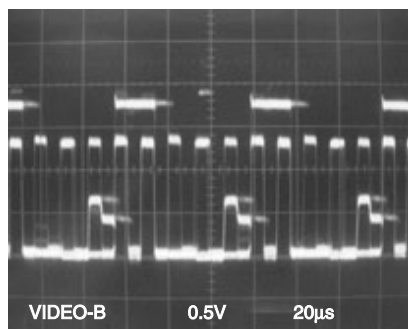
WF1 ~ WF8 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

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

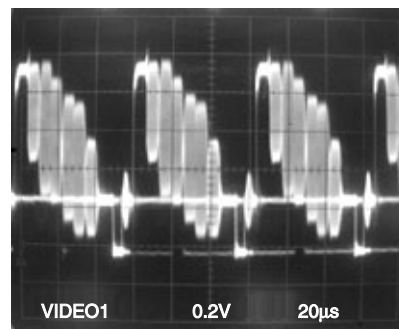
WF1 Pin 14 of IC801



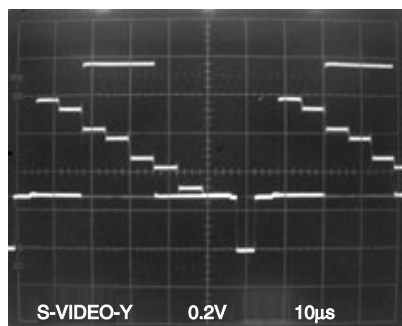
WF4 Pin 21 of CN102A



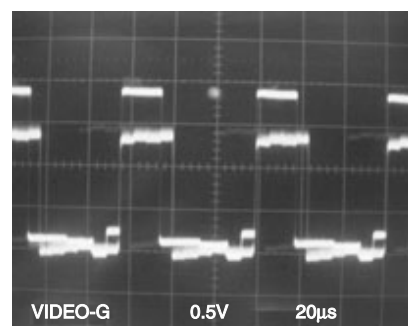
WF7 Pin 22 of CN102A



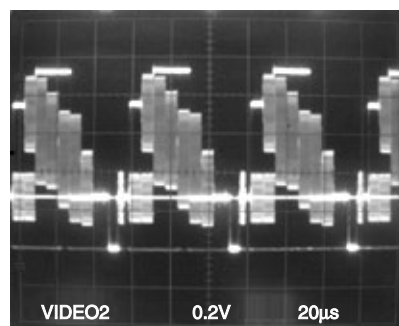
WF2 Pin 3 of CN103A



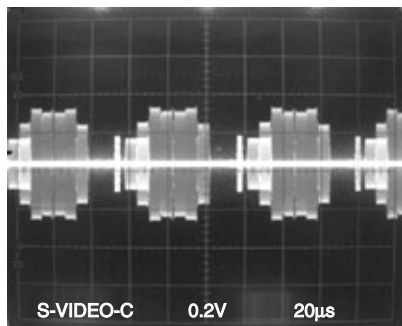
WF5 Pin 20 of CN102A



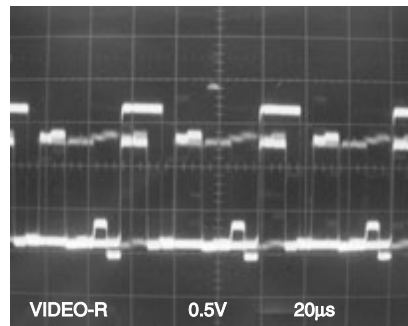
WF8 Pin 9 of CN103A



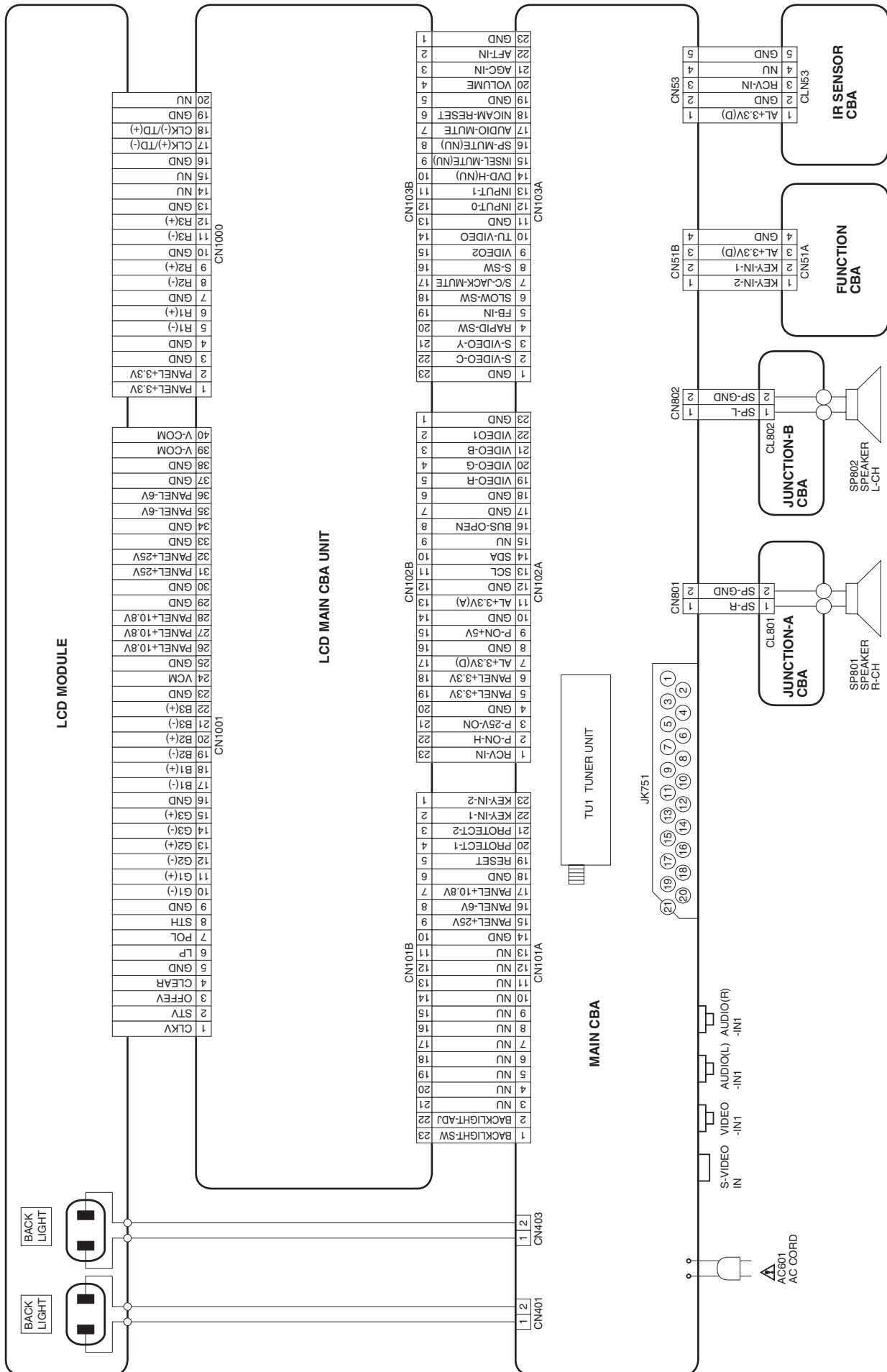
WF3 Pin 2 of CN103A



WF6 Pin 19 of CN102A

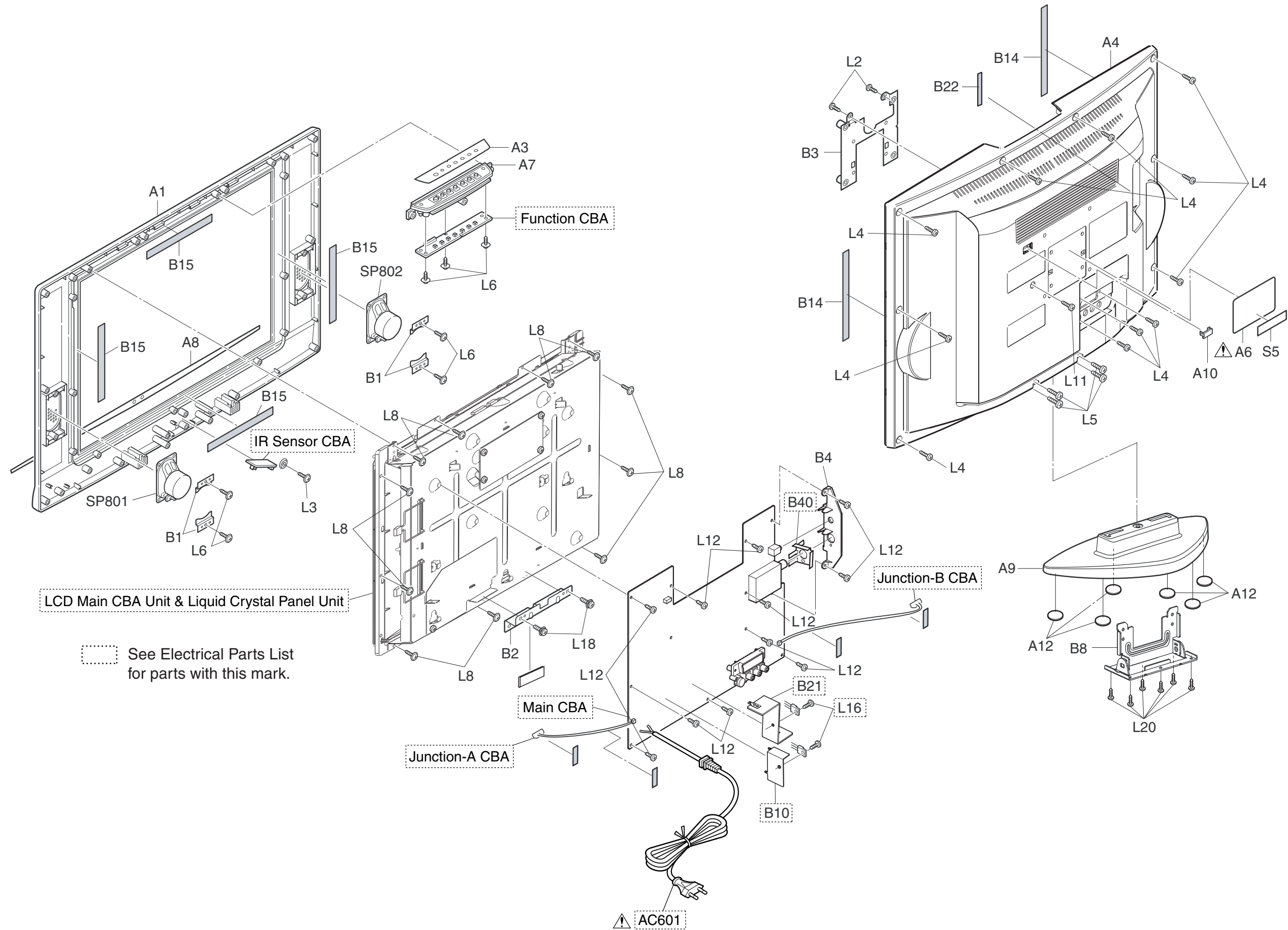


WIRING DIAGRAMS



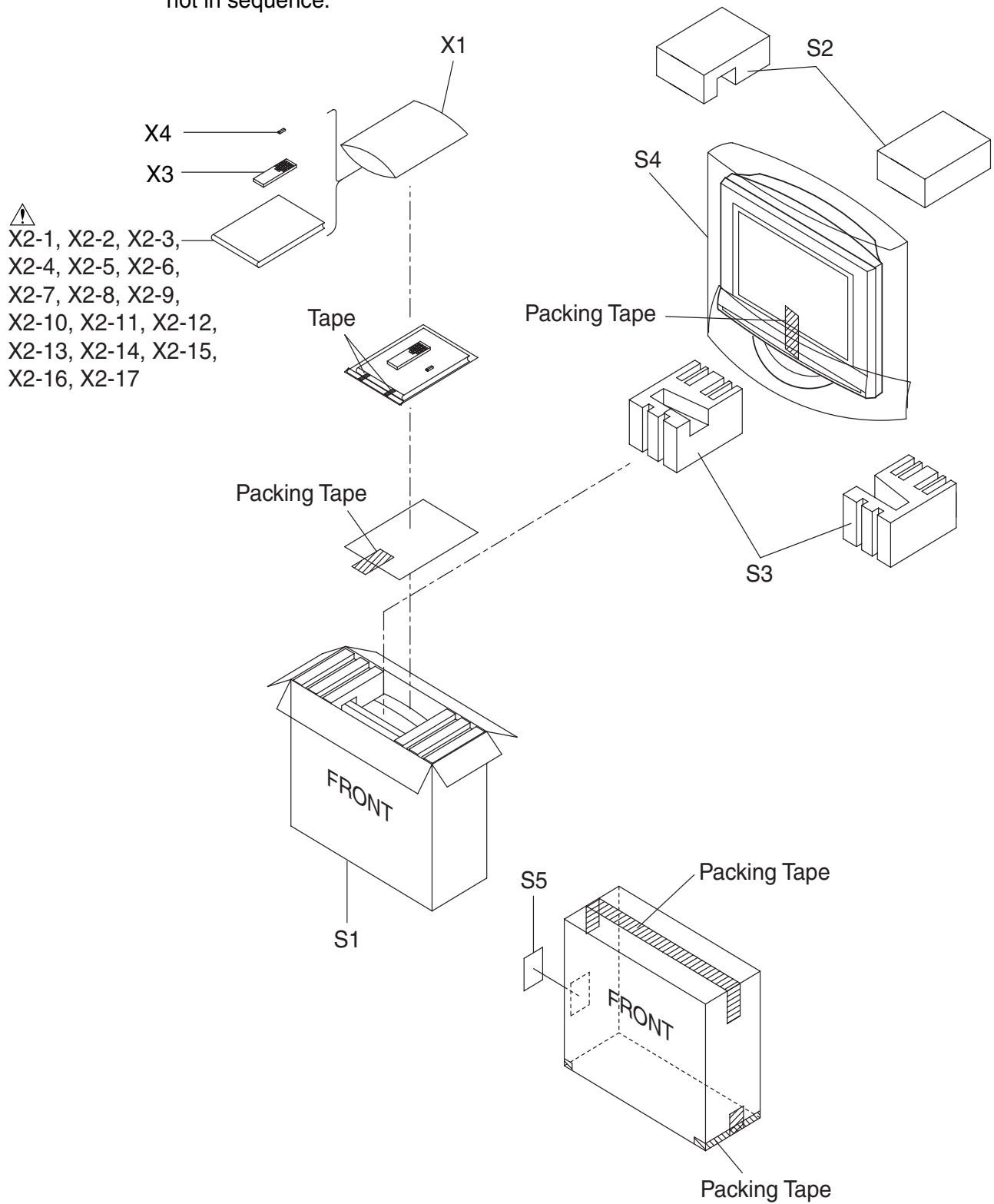
Cabinet

EXPLODED VIEWS



Packing

Some Ref. Numbers are
not in sequence.



MECHANICAL PARTS LIST

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

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

Ref. No.	Description	Part No.
A1	FRONT CABINET L4624FE	1EM121821
A3	CONTROL PLATE L4520EA	1EM322201
A4	REAR CABINET A7340EP	1EM021783
A7	FUNCTION KNOB L4520EA	1EM322200
A8	FRONT PLATE A7343FP	1EM221642
A9	STAND COVER A7141UH	1EM021703
A10	CONNECTOR CAP A7340EP	1EM424510
A12	STAND RUBBER FOOT L4300UA	1EM422534
B1	SPEAKER HOLDER A7120UH	1EM423986
B2	TILT STAND HOLDER A7140UH	1EM322402
B3	STAND HOLDER L2500UA	1EM321428
B4	JACK HOLDER A7340EP	1EM322697
B8	ARM ASSEMBLY A7140UH	1EM221550
B14	CLOTH(10X180XT0.5) L0336JG	0EM408827
B15	CLOTH 10X150XT1.0	1EM421092
B22	CLOTH(10X90XT1.0) A7120UH	1EM424258
L2	SCREW P-TIGHT M3X8 BIND HEAD+	GBJP3080
L3	SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L6	SCREW P-TIGHT M3*10 WASHERHEAD+	GCJP3100
L20	SCREW B-TIGHT M4X8 BIND HEAD+ BLK	GBHB4080

Ref. No.	Description	Part No.
X2-10 	OWNERS MANUAL(HU) A7340EP	1EMN22252
X2-11 	OWNERS MANUAL(CS) A7340EP	1EMN22253
X2-12 	OWNERS MANUAL(EL) A7340EP	1EMN22254
X2-13 	OWNERS MANUAL(SK) A7340EP	1EMN22255
X2-14 	OWNERS MANUAL(AR) A7340EP	1EMN22256
X2-15 	OWNERS MANUAL(PT) A7340EP	1EMN22257
X2-16 	OWNERS MANUAL(RO) A7340EP	1EMN22258
X2-17 	OWNERS MANUAL(BG) A7340EP	1EMN22259
X3	REMOTE CONTROL NF019RD 170/ ECNLC501/NF019RD	NF019RD
X4	BATTERY R6RC/2P	XB0M601MS001

Ref. No.	Description	Part No.
A6 	RATING LABEL A7340EP	-----
L4	SCREW P-TIGHT 3X12 BIND HEAD+ BLK	GBHP3120
L5	SCREW P-TIGHT M4X18 BIND HEAD+	GBHP4180
L6	SCREW P-TIGHT M3*10 WASHERHEAD+	GCJP3100
L8	SCREW P-TIGHT 3X14 WASHER HEAD+	GCJP3140
L11	SCREW S-TIGHT M3X8 BIND HEAD+	GBHS3080
L12	SCREW S-TIGHT M3X8 BIND HEAD+	GBJS3080
L18	DOUBLE SEMS SCREW M4X12 + BLAK	FPH34120
SP801	SPEAKER S0407F10 or	DSD0807XQ002
	SPEAKER MAGNETIC YDP47-1FN	DSD0807EFU01
SP802	SPEAKER S0407F10 or	DSD0807XQ002
	SPEAKER MAGNETIC YDP47-1FN	DSD0807EFU01
PACKING		
S1	CARTON A7340EP	1EM424654
S2	STYROFOAM TOP A7340EP	1EM021817
S3	STYROFOAM BOTTOM A7340EP	1EM021818
S4	SET BAG L0301UB	1EM320014B
S5	SERIAL NO. LABEL L9750UA	-----
ACCESSORIES		
X1	BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X2-1 	OWNERS MANUAL(EN) A7340EP	1EMN22243
X2-2 	OWNERS MANUAL(FR) A7340EP	1EMN22244
X2-3 	OWNERS MANUAL(DE) A7340EP	1EMN22245
X2-4 	OWNERS MANUAL(IT) A7340EP	1EMN22246
X2-5 	OWNERS MANUAL(ES) A7340EP	1EMN22247
X2-6 	OWNERS MANUAL(NL) A7340EP	1EMN22248
X2-7 	OWNERS MANUAL(SV) A7340EP	1EMN22249
X2-8 	OWNERS MANUAL(RU) A7340EP	1EMN22250
X2-9 	OWNERS MANUAL(PL) A7340EP	1EMN22251

ELECTRICAL PARTS LIST

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

NOTES:

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

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

LCD MAIN CBA UNIT & LIQUID CRYSTAL PANEL UNIT

Ref. No.	Description	Part No.
	LCD MAIN CBA UNIT & LIQUID CRYSTAL PANEL UNIT	UF200EA

MMA CBA

Ref. No.	Description	Part No.
	MMA CBA Consists of the following:	1ESA14614
	MAIN CBA FUNCTION CBA IR SENSOR CBA JUNCTION-A CBA JUNCTION-B CBA	----- ----- ----- ----- -----

MAIN CBA

Ref. No.	Description	Part No.
	MAIN CBA Consists of the following:	-----
CAPACITORS		
C11	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C14	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C15	ELECTROLYTIC CAP. 100µF/10V M or	CE1AMASDL101
	ELECTROLYTIC CAP. 100µF/10V M or	CA1A101SP085
	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASTM101
C16	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C18	ELECTROLYTIC CAP. 47µF/16V M or	CE1CMASDL470
	ELECTROLYTIC CAP. 47µF/16V M or	CA1C470SP085
	ALUMINUM ELECTROLYTIC CAP 47µF/16V M	CE1CMASTM470
C20	ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP. 10µF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10µF/50V M	CE1JMASTM100
C21	ELECTROLYTIC CAP. 47µF/16V M or	CE1CMASDL470
	ELECTROLYTIC CAP. 47µF/16V M or	CA1C470SP085
	ALUMINUM ELECTROLYTIC CAP 47µF/16V M	CE1CMASTM470
C22	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C24	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C25	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C35	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C402	CHIP CERAMIC CAP.(1608) B K 5600pF/50V	CHD1JK30B562
C403	ELECTROLYTIC CAP. 22µF/50V M or	CE1JMASDL220
	ELECTROLYTIC CAP. 22µF/50V M or	CA1J220SP085

Ref. No.	Description	Part No.
	ELECTROLYTIC CAP 22µF/50V M	CE1JMASTM220
C405	ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL1R0
	ELECTROLYTIC CAP 1µF/50V M or	CA1J1R0SP085
	ELECTROLYTIC CAP 1µF/50V M	CE1JMASTM1R0
C421	CAP CHIP 5pF 3KV C XC or	CA3F5R05M016
	CAP CHIP CERAMIC 5pF/3.15KV/DJ	CA3F5R0MR060
C422	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C423	CAP CHIP 5pF 3KV C XC or	CA3F5R05M016
	CAP CHIP CERAMIC 5pF/3.15KV/DJ	CA3F5R0MR060
C425	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C426	ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP. 10µF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10µF/50V M	CE1JMASTM100
C427	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C428	ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP. 10µF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10µF/50V M	CE1JMASTM100
C429	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C430	CAP METALIZED FILM 0.068/250VDC/JMPEF or	CT2E683DT051
	CAP POLYPROPYLENE 0.068µF/250V J or	CA2E683DT038
	CAP POLYPROPYLENE 0.068µF/250V J	CA2E683DT039
C431	ELECTROLYTIC CAP. 22µF/50V M or	CE1JMASDL220
	ELECTROLYTIC CAP. 22µF/50V M or	CA1J220SP085
	ELECTROLYTIC CAP 22µF/50V M	CE1JMASTM220
C432	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C461	CAP CHIP 5pF 3KV C XC or	CA3F5R05M016
	CAP CHIP CERAMIC 5pF/3.15KV/DJ	CA3F5R0MR060
C462	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C463	CAP CHIP 5pF 3KV C XC or	CA3F5R05M016
	CAP CHIP CERAMIC 5pF/3.15KV/DJ	CA3F5R0MR060
C465	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C466	ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP. 10µF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10µF/50V M	CE1JMASTM100
C467	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C468	ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP. 10µF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10µF/50V M	CE1JMASTM100
C469	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C470	CAP METALIZED FILM 0.068/250VDC/JMPEF or	CT2E683DT051
	CAP POLYPROPYLENE 0.068µF/250V J or	CA2E683DT038
	CAP POLYPROPYLENE 0.068µF/250V J	CA2E683DT039
C471	ELECTROLYTIC CAP. 22µF/50V M or	CE1JMASDL220
	ELECTROLYTIC CAP. 22µF/50V M or	CA1J220SP085
	ELECTROLYTIC CAP 22µF/50V M	CE1JMASTM220
C472	ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP. 10µF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10µF/50V M	CE1JMASTM100
C600 	METALIZED FILM CAP. 0.22µF/250V or	CT2E224MS037
	ACROSS THE LINE CAP. 0.22µF/250V or	CT2E224DC017
	CAP METALIZED FILM 0.22µF/300V K 3.5MM	CT2F224DC004
C616 	CAP ELECTROLYTIC 180µF/400V M	CA2H181DYG10
C621	CERAMIC CAP. 470pF/2KV or	CA3D471PAN04
	CERAMIC CAP. RB 470pF/2KV or	CA3D471TE006
	CERAMIC CAP. BL 470pF/2KV	CA3D471XF003
C622	FILM CAP.(P) 0.001µF/50V J or	CMA1JJS00102
	FILM CAP.(P) 0.001µF/50V J or	CA1J102MS029
	POLYESTER FILM CAP. (PB FREE) 0.001µF/100V J or	CA2A102DT018
	CAP POLYESTER FILM 0.001µF/50V J	CA1J102SER04
C623	FILM CAP.(P) 0.01µF/50V J or	CMA1JJS00103
	FILM CAP.(P) 0.01µF/50V J or	CA1J103MS029
	POLYESTER FILM CAP. (PB FREE) 0.01µF/100V J or	CA2A103DT018

Ref. No.	Description	Part No.
	CAP POLYESTER FILM 0.01μF/50V J	CA1J103SER04
C624	FILM CAP.(P) 0.022μF/50V J or	CMA1JJS00223
	FILM CAP.(P) 0.022μF/50V J or	CA1J223MS029
	POLYESTER FILM CAP. (PB FREE) 0.022μF/100V J or	CA2A223DT018
	CAP POLYESTER FILM 0.022μF/50V J	CA1J223SER04
C625	FILM CAP.(P) 0.056μF/50V J or	CMA1JJS00563
	FILM CAP.(P) 0.056μF/50V J or	CA1J563MS029
	POLYESTER FILM CAP. (PB FREE) 0.056μF/100V J or	CA2A563DT018
	CAP POLYESTER FILM 0.056μF/50V J	CA1J563SER04
C630,△	SAFETY CAP. 2200pF/250V KX	CA2E222MR050
C702	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C703	ELECTROLYTIC CAP. 47μF/16V M H7 or	CE1CMAVSL470
	ALUMINUM ELECTROLYTIC CAP 47μF/16V H7	CE1CMAVSM470
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 or	CE1CMAVSL470
	ALUMINUM ELECTROLYTIC CAP 47μF/16V H7	CE1CMAVSM470
C712	CHIP CERAMIC CAP.(1608) B K 5600pF/50V	CHD1JK30B562
C713	PCB JUMPER D0.6-P5.0	JW5.0T
C714	CHIP CERAMIC CAP.(1608) B K 5600pF/50V	CHD1JK30B562
C715	PCB JUMPER D0.6-P5.0	JW5.0T
C716	CHIP CERAMIC CAP. CH J 560pF/50V	CHD1JJ3CH561
C717	PCB JUMPER D0.6-P5.0	JW5.0T
C718	CHIP CERAMIC CAP. CH J 560pF/50V	CHD1JJ3CH561
C719	PCB JUMPER D0.6-P5.0	JW5.0T
C720	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C721	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C722	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C723	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C730	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	CHD1JK30B473
C741	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C742	ELECTROLYTIC CAP. 47μF/16V M H7 or	CE1CMAVSL470
	ALUMINUM ELECTROLYTIC CAP 47μF/16V H7	CE1CMAVSM470
C744	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C745	ELECTROLYTIC CAP. 47μF/16V M H7 or	CE1CMAVSL470
	ALUMINUM ELECTROLYTIC CAP 47μF/16V H7	CE1CMAVSM470
C747	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C751	ELECTROLYTIC CAP. 47μF/16V M H7 or	CE1CMAVSL470
	ALUMINUM ELECTROLYTIC CAP 47μF/16V H7	CE1CMAVSM470
C753	ELECTROLYTIC CAP. 47μF/16V M H7 or	CE1CMAVSL470
	ALUMINUM ELECTROLYTIC CAP 47μF/16V H7	CE1CMAVSM470
C756	ELECTROLYTIC CAP. 47μF/16V M H7 or	CE1CMAVSL470
	ALUMINUM ELECTROLYTIC CAP 47μF/16V H7	CE1CMAVSM470
C758	ELECTROLYTIC CAP. 47μF/16V M H7 or	CE1CMAVSL470
	ALUMINUM ELECTROLYTIC CAP 47μF/16V H7	CE1CMAVSM470
C759	CERAMIC CAP.(AX) F Z 0.1μF/50V	CCA1JZTFZ104
C762	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C763	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C788	ELECTROLYTIC CAP. 100μF/16V M or	CE1CMASDL101
	ELECTROLYTIC CAP. 100μF/16V M or	CA1C101SP085
	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASTM101
C789	ELECTROLYTIC CAP. 330μF/6.3V M H7 or	CE0KMAVSL331
	ALUMINUM ELECTROLYTIC CAP 330μF/6.3V H7	CE0KMAVSM331
C790	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C791	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
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
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. 220μF/16V M or	CE1CMASDL221
	ELECTROLYTIC CAP. 220μF/16V M or	CA1C221SP085
	ELECTROLYTIC CAP. 220μF/16V M	CE1CMASTM221
C802	ELECTROLYTIC CAP. 220μF/16V M or	CE1CMASDL221

Ref. No.	Description	Part No.
	ELECTROLYTIC CAP. 220μF/16V M or	CA1C221SP085
	ELECTROLYTIC CAP. 220μF/16V M	CE1CMASTM221
C805	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP. 10μF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10μF/50V M	CE1JMASTM100
C806	ELECTROLYTIC CAP. 2.2μF/50V M or	CE1JMASDL2R2
	ELECTROLYTIC CAP. 2.2μF/50V M or	CA1J2R2SP085
	ALUMINUM ELECTROLYTIC CAP 2.2μF/50V M	CE1JMASTM2R2
C807	ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
	ELECTROLYTIC CAP. 1μF/50V M or	CA1J1R0SP085
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTM1R0
C808	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP. 10μF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10μF/50V M	CE1JMASTM100
C810	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C811	ELECTROLYTIC CAP. 100μF/16V M or	CE1CMASDL101
	ELECTROLYTIC CAP. 100μF/16V M or	CA1C101SP085
	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASTM101
C812	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C813	PCB JUMPER D0.6-P5.0	JW5.0T
C814	PCB JUMPER D0.6-P5.0	JW5.0T
C815	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C816	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C817	ELECTROLYTIC CAP. 10μF/50V M H7 or	CE1JMAVSL100
	ALUMINUM ELECTROLYTIC CAP 10μF/50V H7	CE1JMAVSM100
C818	ELECTROLYTIC CAP. 470μF/16V M or	CE1CMASDL471
	ELECTROLYTIC CAP. 470μF/16V M or	CA1C471SP085
	ELECTROLYTIC CAP. 470μF/16V M	CE1CMASTM471
C819	CHIP CERAMIC CAP. CH J 680pF/50V	CHD1JJ3CH681
C820	CHIP CERAMIC CAP. CH J 680pF/50V	CHD1JJ3CH681
C821	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C833	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C834	CHIP CERAMIC CAP.(1608) CH J 68pF/50V	CHD1JJ3CH680
C835	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C836	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C837	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C860	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP. 10μF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10μF/50V M	CE1JMASTM100
C861	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C862	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C863	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C864	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C865	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C866	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP. 10μF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10μF/50V M	CE1JMASTM100
C867	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C868	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP. 10μF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10μF/50V M	CE1JMASTM100
C869	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C872	CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C873	CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C874	ELECTROLYTIC CAP. 47μF/16V M or	CE1CMASDL470
	ELECTROLYTIC CAP. 47μF/16V M or	CA1C470SP085
	ALUMINUM ELECTROLYTIC CAP 47μF/16V M	CE1CMASTM470
C875	CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C876	CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C877	CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C878	CHIP CERAMIC CAP. (1608) B K 1μF/16V	CHD1CK30B105
C879	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C880	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C893	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C894	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C900,△	ELECTROLYTIC CAP. 1000μF/25V M	CE1EMASDL102
C901	ELECTROLYTIC CAP. 0.47μF/50V M or	CE1JMASDLR47

Ref. No.	Description	Part No.
	ELECTROLYTIC CAP 0.47μF/50V M or	CA1JR47SP085
	ELECTROLYTIC CAP 0.47μF/50V M	CE1JMASTMR47
C902	ELECTROLYTIC CAP 2200μF/25V M or	CE1EMZPDL222
	ALUMINUM ELECTROLYTIC CAP 2200μF/25V M or	CE1EMZNTM222
	ELECTROLYTIC CAP 2200μF/25V M	CE1EMZNDL222
C903	ELECTROLYTIC CAP 100μF/50V M or	CE1JMASDL101
	ELECTROLYTIC CAP 100μF/50V M or	CA1J101SP085
	ELECTROLYTIC CAP 100μF/50V M	CE1JMASTM101
C904	ELECTROLYTIC CAP 470μF/25V M or	CE1EMASDL471
	ELECTROLYTIC CAP 470μF/25V M or	CA1E471SP085
	ALUMINUM ELECTROLYTIC CAP 470μF/25V M	CE1EMASTM471
C905	ELECTROLYTIC CAP 100μF/16V M or	CE1CMASDL101
	ELECTROLYTIC CAP 100μF/16V M or	CA1C101SP085
	ELECTROLYTIC CAP 100μF/16V M	CE1CMASTM101
C906	ELECTROLYTIC CAP 220μF/16V M or	CE1CMASDL221
	ELECTROLYTIC CAP 220μF/16V M or	CA1C221SP085
	ELECTROLYTIC CAP 220μF/16V M	CE1CMASTM221
C908	CERAMIC CAP 1000pF/2KV or	CA3D102PAN04
	CERAMIC CAP RB 1000pF/2KV or	CA3D102TE006
	CERAMIC CAP BL 1000pF/2KV	CA3D102XF003
C909	FILM CAP.(P) 0.0027μF/50V J or	CMA1JJS00272
	FILM CAP.(P) 0.0027μF/50V J or	CA1J272MS029
	POLYESTER FILM CAP. (PB FREE) 0.0027μF/100V J or	CA2A272DT018
	CAP POLYESTER FILM 0.0027μF 50V J	CA1J272SER04
C910	ELECTROLYTIC CAP 22μF/50V M or	CE1JMASDL220
	ELECTROLYTIC CAP 22μF/50V M or	CA1J220SP085
	ELECTROLYTIC CAP 22μF/50V M	CE1JMASTM220
C911	ELECTROLYTIC CAP 470μF/16V M or	CE1CMASDL471
	ELECTROLYTIC CAP 470μF/16V M or	CA1C471SP085
	ELECTROLYTIC CAP 470μF/16V M	CE1CMASTM471
C912	ELECTROLYTIC CAP 1μF/50V M H7 or	CE1JMAVSL1R0
	ALUMINUM ELECTROLYTIC CAP 1μF/50V H7	CE1JMAVSM1R0
C914	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C916	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C919	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C921	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C922	ELECTROLYTIC CAP 10μF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP 10μF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10μF/50V M	CE1JMASTM100
C924	ELECTROLYTIC CAP 10μF/16V M H7 or	CE1CMAVSL100
	ALUMINUM ELECTROLYTIC CAP 10μF/16V H7	CE1CMAVSM100
C926	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C929	ELECTROLYTIC CAP 100μF/10V M or	CE1AMASDL101
	ELECTROLYTIC CAP 100μF/10V M or	CA1A101SP085
	ELECTROLYTIC CAP 100μF/10V M	CE1AMASTM101
C930	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C941	ELECTROLYTIC CAP 10μF/50V M or	CE1JMASDL100
	ELECTROLYTIC CAP 10μF/50V M or	CA1J100SP085
	ALUMINUM ELECTROLYTIC CAP 10μF/50V M	CE1JMASTM100
C950	ELECTROLYTIC CAP 220μF/6.3V M or	CE0KMASDL221
	ELECTROLYTIC CAP 220μF/6.3V M or	CA0K221SP085
	ELECTROLYTIC CAP 220μF/6.3V M	CE0KMASTM221
C951	ELECTROLYTIC CAP 220μF/16V M or	CE1CMASDL221
	ELECTROLYTIC CAP 220μF/16V M or	CA1C221SP085
	ELECTROLYTIC CAP 220μF/16V M	CE1CMASTM221
C952	ELECTROLYTIC CAP 10μF/16V M H7 or	CE1CMAVSL100
	ALUMINUM ELECTROLYTIC CAP 10μF/16V H7	CE1CMAVSM100
C953	ELECTROLYTIC CAP 330μF/6.3V M or	CE0KMASDL331
	ELECTROLYTIC CAP 330μF/6.3V M or	CA0K331SP085
	ALUMINUM ELECTROLYTIC CAP 330μF/6.3V M	CE0KMASTM331
CONNECTORS		
CN01	TERMINAL PRINTBORD PIN MS-PIN155155	JTEA001CHY01
CN02	TERMINAL PRINTBORD PIN MS-PIN155155	JTEA001CHY01
CN53	CONNECTOR PRINT OSU B5B-PH-K-S (LF)(SN) or	J3PHC04JG029

Ref. No.	Description	Part No.
	CONNECTOR PRINT OSU C S 440054-5	J344C05AP001
CN101A	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN102A	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN103A	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN401	BACK LIGHT CONNECTOR 1717369-1	JB17D02AP001
CN403	BACK LIGHT CONNECTOR 1717369-1	JB17D02AP001
CN901	PH CONNECTOR TOP 4P B4B-PH-K-S (LF)(SN) or	J3PHC04JG029
	CONNECTOR PRINT OSU C S 440054-4	J344C04AP001
DIODES		
D13	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D55	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D56	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D401	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D402	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D403	ZENER DIODE MTZJT-777.5B	QDTB0MTZJ7R5
D404	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	ZENER DIODE MTZJT-776.2B or	QDTB0MTZJ6R2
	DIODE ZENER HZS6C2 TD-E	QDTC000HZS62
D409	ZENER DIODE MTZJT-7710B or	QDTB00MTZJ10
	DIODE ZENER HZS11A1 TD-E	QDTA00HZS11
D410	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D411	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D421	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D422	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
D425	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
D431	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D432	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D433	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D434	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D461	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D462	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D463	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148

Ref. No.	Description	Part No.
D464	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D465	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D466	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D467	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D468	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D469	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D470	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D471	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D472	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D473	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D474	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
	RECTIFIER DIODE ERB12-06 or	QDQZ0ERB1206
	DIODE 1N5399BE	NDL1001N5399
D612	ZENER DIODE MTZJT-775.6B or	QDTB00MTZJ5R6
	DIODE ZENER HZS6A3 TD-E	QDTA000HZS63
D613	DIODE 1N5399-B/P or	NDLZ001N5399
	RECTIFIER DIODE ERB12-06 or	QDQZ0ERB1206
	DIODE 1N5399BE	NDL1001N5399
D614	DIODE 1N5399-B/P or	NDLZ001N5399
	RECTIFIER DIODE ERB12-06 or	QDQZ0ERB1206
	DIODE 1N5399BE	NDL1001N5399
D615	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D616	DIODE 1N5399-B/P or	NDLZ001N5399
	RECTIFIER DIODE ERB12-06 or	QDQZ0ERB1206
	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)	QDLZ001ZC18Q
D629	ZENER DIODE MTZJT-7733B	QDTB00MTZJ33
D648	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D654	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D655	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D730	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D755	ZENER DIODE MTZJT-773.3B or	QDTB00MTZJ3R3
	DIODE ZENER HZS3C3 TD-E	QDTC000HZS33
D801	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D802	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D803	ZENER DIODE MTZJT-776.2B or	QDTB00MTZJ6R2
	DIODE ZENER HZS6C2 TD-E	QDTC000HZS62
D806	ZENER DIODE MTZJT-7722B	QDTB00MTZJ22
D807	ZENER DIODE MTZJT-7722B	QDTB00MTZJ22
D809	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D900	SCHOTTKY BARRIER DIODE SB160 or	NDQZ000SB160
	DIODE SCHOTTKY SB160	NDLZ00SB160S

Ref. No.	Description	Part No.
D901	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD or	NDL1000FR154
	FAST RECOVERY DIODE ERB44-02	QDPZ0ERB4402
D902	DIODE SCHOTTKY 30PHA20	QDLZ030PHA20
D903	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD or	NDL1000FR154
	FAST RECOVERY DIODE ERB44-02	QDPZ0ERB4402
D904	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD or	NDL1000FR154
	FAST RECOVERY DIODE ERB44-02	QDPZ0ERB4402
D905	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD or	NDL1000FR154
	FAST RECOVERY DIODE ERB44-02	QDPZ0ERB4402
D906	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD or	NDL1000FR154
	FAST RECOVERY DIODE ERB44-02	QDPZ0ERB4402
D908	DIODE 1ZC43(Q) or	QDLZ001ZC43Q
	DIODE ZENER RD43F-T7-AZ-B	QDJB0RD43FAZ
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 or	QDTB00MTZJ5R6
	DIODE ZENER HZS6A3 TD-E	QDTA000HZS63
D914	PCB JUMPER D0.6-P10.0	JW10.0T
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 AZ431BZ-ATRE1	NSZBA0TBCD01
D918	DIODE ZENER 1ZB6.8(Q)	QDLZ01ZB6R8Q
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 AZ431BZ-ATRE1	NSZBA0TBCD01
D922	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D923	ZENER DIODE MTZJT-7724B	QDTB00MTZJ24
D925	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D926	ZENER DIODE MTZJT-7710B or	QDTB00MTZJ10
	DIODE ZENER HZS11A1 TD-E	QDTA000HZS111
D927	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D928	ZENER DIODE MTZJT-776.2B or	QDTB00MTZJ6R2
	DIODE ZENER HZS6C2 TD-E	QDTC000HZS62
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	ZENER DIODE MTZJT-775.6C or	QDTC00MTZJ5R6
	DIODE ZENER HZS6B2 TD-E	QDTB0000HZS62
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 AZ431BZ-ATRE1	NSZBA0TBCD01
D938	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D941	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148

Ref. No.	Description	Part No.
D942	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D943	SHUNT REGULATOR KIA2431AP-AT/P or	NSZBA0TJY054
	IC SHUNT REGULATOR SL432A-AT TO-92 3PIN or	NSZBA0TAUK02
	IC SHUNT REGULATOR AZ431LBZTR-E1 TO-92	NSZBA0TBCD04
D944	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
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
D949	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D950	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D951	ZENER DIODE MTZJT-7715B	QDTB00MTZJ15
D952	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
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
D960	ZENER DIODE MTZJT-778.2B	QDTB0MTZJ8R2
D964	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
ICS		
IC601 [△]	PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV
IC801	IC AN17812A or	QSZBA0SMS017
	IC AUDIO SA7412	NSZBA0SQ0007
IC850	IC SWITCHING TC4052BF(ELNF) or	QSZBA0TTS162
	IC SWITCHING CD4052BCSJX_NL or	NSZBA0TF3137
	IC SWITCHING CD4052BNSR or	NSZBA0TTY091
	IC SWITCH HCF4052M013TR/SOP/16 or	NSZBA0TSS301
	IC SWITCH 4052L-S16-R/SOP-16	NSZBA0TUTC03
IC860	IC AUDIO PROCESSOR R2S15500SP/SSOP/24PI	QSZBA0THT068
IC900	IC VOLTAGE REGULATOR 5V KIA7805AP/P or	NSZBA0SJY041
	IC REGULATOR L7805CV/TO-220/3PIN or	NSZBA0SSS304
	IC REGULATOR AS7805T-E1/TO-220-3	NSZBA0SBCD03
COILS		
L10	PCB JUMPER D0.6-P5.0	JW5.0T
L11	INDUCTOR 10μH-K-5FT	LLARKBSTU100
L12	INDUCTOR 10μH-J-26T	LLAXJATTU100
L13	INDUCTOR 10μH-K-5FT	LLARKBSTU100
L401	INDUCTOR RADIAL LH L 10NB 101K 100μH or	LLARKGQTU101
	COIL CHOKE ELC10D101EL	LLC101KMS003
L403	INDUCTOR RADIAL LH L 10NB 101K 100μH or	LLARKGQTU101
	COIL CHOKE ELC10D101EL	LLC101KMS003
L601 [△]	COIL LINE FILTER JLB20108	LLEGOZ0XB008
L611	PCB JUMPER D0.6-P5.0	JW5.0T
L781	PCB JUMPER D0.6-P5.0	JW5.0T
L831	INDUCTOR 18μH-J-26T	LLAXJATTU180
L836	PCB JUMPER D0.6-P5.0	JW5.0T
L837	PCB JUMPER D0.6-P5.0	JW5.0T
L838	INDUCTOR 2.2μH-K-5FT	LLARKBSTU2R2
L839	INDUCTOR 2.2μH-K-5FT	LLARKBSTU2R2
L840	INDUCTOR 2.2μH-K-5FT	LLARKBSTU2R2
L860	INDUCTOR 10μH-K-5FT	LLARKBSTU100
L862	INDUCTOR 10μH-K-5FT	LLARKBSTU100
L864	PCB JUMPER D0.6-P5.0	JW5.0T

Ref. No.	Description	Part No.
TRANSISTORS		
Q11	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-Y(Te2 F T) or	QQSY2SA1015F
	TRANSISTOR 2SA1015-GR(Te2 F T)	QQS12SA1015F
Q12	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q13	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q401	NPN TRANSISTOR POWER 2SC4881F HFE MAX320 or	QQWZ2SC4881F
	TRANSISTOR(PB FREE) KTC2026-Y/P	NQEYKTC2026P
Q402	TRANSISTOR 2SA950-O (TE2 F T) or	QQS002SA950F
	TRANSISTOR 2SA950-Y(Te2 F T) or	QQSY02SA950F
	TRANSISTOR (PB FREE) KTA1271-Y-AT/P	NQSYKTA1271P
Q403	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q404	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q405	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)	QQS12SA1015F
Q406	TRANSISTOR 2SC2120-O(Te2 F T) or	QQS02SC2120F
	TRANSISTOR 2SC2120-Y(Te2 F T)	QQSY2SC2120F
Q407	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q421 [△]	FET MOS SMD HAT2215R01-EL-E	QF2ZHAT2215R
Q422	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q423	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q424	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q425	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q461 [△]	FET MOS SMD HAT2215R01-EL-E	QF2ZHAT2215R
Q462	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q463	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q464	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q600 [△]	FET 2SK3566(Q)	QFWZ02SK3566
Q601 [△]	TRANSISTOR 2SC2120-O(Te2 F T) or	QQS02SC2120F
[△]	TRANSISTOR 2SC2120-Y(Te2 F T)	QQSY2SC2120F
Q726	TRANSISTOR 2SA1576A T106R	QQ1R2SA1576A
Q727	TRANSISTOR 2SA1576A T106R	QQ1R2SA1576A
Q730	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q731	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q732	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q733	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
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)	QQS12SA1015F
Q741	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q742	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q744	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q791	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q801	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q802	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q830	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q831	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q860	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q861	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q900	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(Te2 F T)	QQS12SC1815F
Q901	TRANSISTOR 2SC2120-O(Te2 F T) or	QQS02SC2120F
	TRANSISTOR 2SC2120-Y(Te2 F T)	QQSY2SC2120F
Q902	TRANSISTOR 2SC2120-O(Te2 F T) or	QQS02SC2120F
	TRANSISTOR 2SC2120-Y(Te2 F T)	QQSY2SC2120F
Q903	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)	QQS12SA1015F
Q904	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q905 [△]	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S

Ref. No.	Description	Part No.
Q906	TRANSISTOR 2SC2120-Q(Te2 F T) or	QQS02SC2120F
	TRANSISTOR 2SC2120-Y(Te2 F T)	QQS02SC2120F
Q907	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-Y(Te2 F T) or	QQS02SA1015F
	TRANSISTOR 2SA1015-GR(Te2 F T)	QQS12SA1015F
Q908	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q909	TRANSISTOR 2SC2120-Q(Te2 F T) or	QQS02SC2120F
	TRANSISTOR 2SC2120-Y(Te2 F T)	QQS02SC2120F
Q910	TRANSISTOR 2SC2120-Q(Te2 F T) or	QQS02SC2120F
	TRANSISTOR 2SC2120-Y(Te2 F T)	QQS02SC2120F
Q911	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-Y(Te2 F T) or	QQS02SA1015F
	TRANSISTOR 2SA1015-GR(Te2 F T)	QQS12SA1015F
Q912	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
Q913	TRANSISTOR 2SC2120-Q(Te2 F T) or	QQS02SC2120F
	TRANSISTOR 2SC2120-Y(Te2 F T)	QQS02SC2120F
Q914	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-Y(Te2 F T) or	QQS02SA1015F
	TRANSISTOR 2SA1015-GR(Te2 F T)	QQS12SA1015F
Q915	TRANSISTOR 2SC2120-Q(Te2 F T) or	QQS02SC2120F
	TRANSISTOR 2SC2120-Y(Te2 F T)	QQS02SC2120F
Q920	CHIP TRANSISTOR KTC3875S-Y-RTK/P	NQ1YKTC3875S
RESISTORS		
R10	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R11	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R12	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R13	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R14	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R15	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R17	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R18	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R19	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R20	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
	RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R45	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R46	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R401	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R402	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R403	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R404	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R406	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R407	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R408	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R409	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R410	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R411	CARBON RES. 1/4W J 1 Ω	RCX4JATZ01R0
R412	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R413	CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
	RES CHIP 1608 1/10W J 33k Ω	RRXA333YF002

Ref. No.	Description	Part No.
R414	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R415	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R416	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R417	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R418	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R419	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R420	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R421	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R422	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R423	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R424	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R425	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R426	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R427	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R428	CHIP RES. 1/10W J 22 Ω or	RRXAJR5Z0220
	RES CHIP 1608 1/10W J 22 Ω	RRXA220YF002
R429	CHIP RES. 1/10W J 22 Ω or	RRXAJR5Z0220
	RES CHIP 1608 1/10W J 22 Ω	RRXA220YF002
R430	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R431	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R432	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R433	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R434	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R435	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R436	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R437	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R438	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R461	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R462	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R463	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
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 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R466	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R467	CHIP RES. 1/10W J 22 Ω or	RRXAJR5Z0220
	RES CHIP 1608 1/10W J 22 Ω	RRXA220YF002
R468	CHIP RES. 1/10W J 22 Ω or	RRXAJR5Z0220
	RES CHIP 1608 1/10W J 22 Ω	RRXA220YF002
R469	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R470	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R471	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R472	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R473	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R474	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R476	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R477	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R501	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R503	CARBON RES. 1/4W J 3.3 Ω	RCX4JATZ03R3
R505	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R513	CARBON RES. 1/4W J 1.8 Ω	RCX4JATZ01R8
R515	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R516	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R600,△	CARBON RES. 1/2W J 3.3M Ω or	RCX2335DP001
△	GLASS GLAZE RES. 1/2W J 3.3M Ω	RXX2JZLZ0335
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
R622	CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R623	CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R624	CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R631	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R632	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R633	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R634	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R635	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R636,△	METAL RESISTER. 2W J 0.82 Ω or	RN02R82ZU001
△	METAL OXIDE FILM RES. 2W J 0.82 Ω	RN02R82DP004
R637	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R638	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R639	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R701	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R702	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
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	CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R714	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R716	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R717	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
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	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
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
R724	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R725	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R726	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R727	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R729	CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
	RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R730	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R731	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R732	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R733	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R735	CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
	RES CHIP 1608 1/10W J 33k Ω	RRXA333YF002
R736	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R737	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R740	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R741	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R743	CHIP RES. 1/10W J 270 Ω or	RRXAJR5Z0271
	RES CHIP 1608 1/10W J 270 Ω	RRXA271YF002
R744	CHIP RES. 1/10W J 82k Ω or	RRXAJR5Z0823
	RES CHIP 1608 1/10W J 82k Ω	RRXA823YF002
R745	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R746	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R748	CHIP RES. 1/10W J 270 Ω or	RRXAJR5Z0271
	RES CHIP 1608 1/10W J 270 Ω	RRXA271YF002
R749	CHIP RES. 1/10W J 82k Ω or	RRXAJR5Z0823
	RES CHIP 1608 1/10W J 82k Ω	RRXA823YF002
R750	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
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
R753	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R754	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R755	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
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	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R760	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
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	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R767	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R768	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R769	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R770	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R771	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R775	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R776	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
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
R785	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R787	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R789	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R791	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R792	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
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
R805 [△]	METAL RESISTER. 2W J 2.7 Ω or	RN022R7ZU001
[△]	METAL OXIDE FILM RES. 2W J 2.7 Ω	RN022R7DP004
R807 [△]	METAL OXIDE FILM RES. 2W J 3.9 Ω or	RN023R9ZU001
[△]	METAL OXIDE FILM RES. 2W J 3.9 Ω	RN023R9DP004
R810	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
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 2.7k Ω	RCX4JATZ0272
R814	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R815	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R816	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R817	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R821	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R822	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R823	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R824	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R825	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R826	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R829	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R830	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R831	CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
	RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R832	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R835	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R836	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R837	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R838	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181

Ref. No.	Description	Part No.
R842	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R843	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R844	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R845	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R846	CHIP RES. 1/10W J 100k Ω or	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	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R849	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R850	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R852	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R854	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R855	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R856	PCB JUMPER D0.6-P5.0	JW5.0T
R857	PCB JUMPER D0.6-P5.0	JW5.0T
R861	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R862	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R863	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R864	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R865	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R866	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R867	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R868	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R869	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R870	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R871	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R872	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R873	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R874	CARBON RES. 1/4W J 33k Ω	RCX4JATZ0333
R875	CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
	RES CHIP 1608 1/10W J 33k Ω	RRXA333YF002
R876	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R877	CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
	RES CHIP 1608 1/10W J 33k Ω	RRXA333YF002
R878	CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
	RES CHIP 1608 1/10W J 33k Ω	RRXA333YF002
R879	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R889	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R900	CARBON RES. 1/4W J 3.3 Ω	RCX4JATZ03R3
R906 [△]	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
[△]	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z0682
[△]	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R907 [△]	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
[△]	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z0682

Ref. No.	Description	Part No.
△	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R908△	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
R909△	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
R910	CHIP RES. 1/10W F 470 Ω or	RRXAFR5H4700
	CHIP RES.(1608) 1/10W F 470 Ω or	RRXAFR5Z4700
	RES CHIP 1608 1/10W F 470 Ω	RTW4700YF002
R911	CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R912△	CHIP RES. 1/10W F 470 Ω or	RRXAFR5H4700
△	CHIP RES.(1608) 1/10W F 470 Ω or	RRXAFR5Z4700
△	RES CHIP 1608 1/10W F 470 Ω	RTW4700YF002
R913△	CHIP RES. 1/10W F 470 Ω or	RRXAFR5H4700
△	CHIP RES.(1608) 1/10W F 470 Ω or	RRXAFR5Z4700
△	RES CHIP 1608 1/10W F 470 Ω	RTW4700YF002
R914△	CHIP RES. 1/10W F 470 Ω or	RRXAFR5H4700
△	CHIP RES.(1608) 1/10W F 470 Ω or	RRXAFR5Z4700
△	RES CHIP 1608 1/10W F 470 Ω	RTW4700YF002
R915△	CHIP RES. 1/10W F 470 Ω or	RRXAFR5H4700
△	CHIP RES.(1608) 1/10W F 470 Ω or	RRXAFR5Z4700
△	RES CHIP 1608 1/10W F 470 Ω	RTW4700YF002
R916	CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
	RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R917	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R918	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R919	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R920	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R922	CARBON RES. 1/4W J 1.5 Ω	RCX4JATZ01R5
R923	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R924	CARBON RES. 1/4W J 10 Ω	RCX4JATZ0100
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
R927	CARBON RES. 1/4W J 18 Ω	RCX4JATZ0180
R928	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R929	PCB JUMPER D0.6-P5.0	JW5.0T
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
R934	METAL OXIDE FILM RES. 2W J 3.9 Ω or	RN023R9ZU001
	METAL OXIDE FILM RES. 2W J 3.9 Ω	RN023R9DP004
R935	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R936	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
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	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R940	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
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

Ref. No.	Description	Part No.
R944	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R945	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R946	CARBON RES. 1/4W J 68 Ω	RCX4JATZ0680
R947	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R948	CARBON RES. 1/4W J 1.8 Ω	RCX4JATZ01R8
R949	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R950	CARBON RES. 1/4W J 68 Ω	RCX4JATZ0680
R952	PCB JUMPER D0.6-P5.0	JW5.0T
R958	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R959	CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R960	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
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 1.5k Ω	RCX4JATZ0152
R963	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R964	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R965	CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
	RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R966	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R967	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R968	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R969	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R970	CARBON RES. 1/4W J 18 Ω	RCX4JATZ0180
R971	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R972	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R973	CHIP RES. 1/10W F 1.2k Ω or	RRXAFR5H1201
	CHIP RES.(1608) 1/10W F 1.2k Ω or	RRXAFR5Z1201
	RES CHIP 1608 1/10W F 1.20k Ω	RTW1201YF002
R974	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
R975	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
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	CARBON RES. 1/4W J 1.2 Ω	RCX4JATZ01R2
R981	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R992	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R994	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R995	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R1000	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1001	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R1002	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
MISCELLANEOUS		
B10	POW HEAT SINK A7120UH	1EM423993
B21	HEAT SINK PML ASSEMBLY A7340EP	1EM322703
B40	EARTH PLATE A7340EP	1EM322739
BC600	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC750	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030

Ref. No.	Description	Part No.
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
J128	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
JK721	Y/C JACK YKF51-5646N or	JYEJ040JC001
	JACK SW DIN PCB S 04/DIN-417HA-01	JYEJ040YUQ03
JK722	RCA JACK AV-4B-54H YELLOW or	JXRJ010SNJ01
	JACK RCA PCB S YELLOW 01/RCA-101H(YL)	JXRJ010YUQ05
JK723	RCA JACK WHITE AV-4B-58H WHITE or	JXRJ010SNJ04
	JACK RCA PCB S WHITE 01/RCA-101H(WH)	JXRJ010YUQ02
JK724	RCA JACK AV-4A-57H RED or	JYRJ010SNJ01
	JACK SW RCA PCB S RED RCA-102H(RD)	JYRJ010YUQ03
JK751	JACK RGB PCB S 21PIN / MRC-021H-02	JXGJ210LY001
JK801	MINIATURE JACK(PB FREE) CKX-035-318AZ4 or	JYSL010SNJ01
	JACK SW HPEP SML PCB L PJ-350	JYSL010YUQ03
JS426	PCB JUMPER D0.6-P5.0	JW5.0T
JS466	PCB JUMPER D0.6-P18.5	JW18.5T
JS605	PCB JUMPER D0.6-P10.0	JW10.0T
JS606	PCB JUMPER D0.6-P10.0	JW10.0T
JS607	PCB JUMPER D0.6-P10.0	JW10.0T
JS608	PCB JUMPER D0.6-P10.0	JW10.0T
JS810	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
JS863	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
JS864	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
L16	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
SA600	SURGE ABSORBER 470V+-10PER or	NVQZ10D471KB
	VARISTOR 10D 471K SVR	NVQZVR10D471
T401 [△]	TRANS INVERTER ETJV27ZK27AC or	LTZ2PC0MS006
[△]	TRANS INVERTER 1167TG-1014	LTZ2PC0TK001
T403 [△]	TRANS INVERTER ETJV27ZK27AC or	LTZ2PC0MS006
[△]	TRANS INVERTER 1167TG-1014	LTZ2PC0TK001
T601 [△]	TRANS POWER 7721	LTT2PE0KT025
TM601	EYELET TYPE D-1	0VM406868
TM602	EYELET TYPE D-1	0VM406868
X860	XTAL OSCILLATOR 27.00MHz 15PPM	FXC276LLN002

FUNCTION CBA

Ref. No.	Description	Part No.
	FUNCTION CBA Consists of the following:	-----
CAPACITOR		
C33	CERAMIC CAP.(AX) F Z 0.01μF/25V	CCA1EZTFZ103
CONNECTOR		
CN51A	WIRE ASSEMBLY 4PIN SW 4PIN 140MM	WX1A7340-003
RESISTORS		
R24	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R25	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R26	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R27	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R28	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R29	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
	RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R30	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R31	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R32	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R33	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
SWITCHES		
SW30	TACT SWITCH SKHHARA010 or	SST0101AL060

Ref. No.	Description	Part No.
	TACT SWITCH KSMC622A	SST0101HH031
SW31	TACT SWITCH SKHHARA010 or	SST0101AL060
	TACT SWITCH KSMC622A	SST0101HH031
SW32	TACT SWITCH SKHHARA010 or	SST0101AL060
	TACT SWITCH KSMC622A	SST0101HH031
SW33	TACT SWITCH SKHHARA010 or	SST0101AL060
	TACT SWITCH KSMC622A	SST0101HH031
SW34	TACT SWITCH SKHHARA010 or	SST0101AL060
	TACT SWITCH KSMC622A	SST0101HH031
SW36	TACT SWITCH SKHHARA010 or	SST0101AL060
	TACT SWITCH KSMC622A	SST0101HH031
SW37	TACT SWITCH SKHHARA010 or	SST0101AL060
	TACT SWITCH KSMC622A	SST0101HH031

IR SENSOR CBA

Ref. No.	Description	Part No.
	IR SENSOR CBA Consists of the following:	-----
CAPACITORS		
C12	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C61	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
DIODES		
D51	LED L-53HT or	NP4Z000L53HT
	LED LAMP 333HT/F45-50L	NPWL333HTF45
RESISTORS		
R64	CARBON RES. 1/4W J 120 Ω	RCX4JATZ0121
R65	CARBON RES. 1/4W J 120 Ω	RCX4JATZ0121
R66	CARBON RES. 1/4W J 120 Ω	RCX4JATZ0121
MISCELLANEOUS		
CLN53	WIRE ASSEMBLY 5PIN SENSOR 5PIN 130MM	WX1A7340-004
JS51	PCB JUMPER D0.6-P7.0	JW7.0T
JS52	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
JS53	PCB JUMPER D0.6-P5.0	JW5.0T
RCV51	REMOCON RECEIVE UNIT KSM-602SR2E-2 or	USESJR5KK045
	REMOCON RESEVER MIM-0BM8DKL-C	USESJR5UNT07

JUNCTION-A CBA

Ref. No.	Description	Part No.
	JUNCTION-A CBA Consists of the following:	-----
CAPACITOR		
C891	CERAMIC CAP.(AX) B K 1000pF/50V	CCA1JKT0B102
CONNECTOR		
CN801	WIRE ASSEMBLY 2PIN SPEAKER(R) 2PIN 220MM	WX1A7340-002

JUNCTION-B CBA

Ref. No.	Description	Part No.
	JUNCTION-B CBA Consists of the following:	-----
CAPACITOR		
C892	CERAMIC CAP.(AX) B K 1000pF/50V	CCA1JKT0B102
CONNECTOR		
CN802	WIRE ASSEMBLY 2PIN SPEAKER(L) 2PIN 180MM	WX1A7340-001

Ref. No.	Description	Part No.
MISCELLANEOUS		
AC601 [△]	AC CORD CEE 1800MM BLACK	WAE0182LW003
TU1	TUNER UNIT BS TMFE6-301A	UTUNPLGAL018

