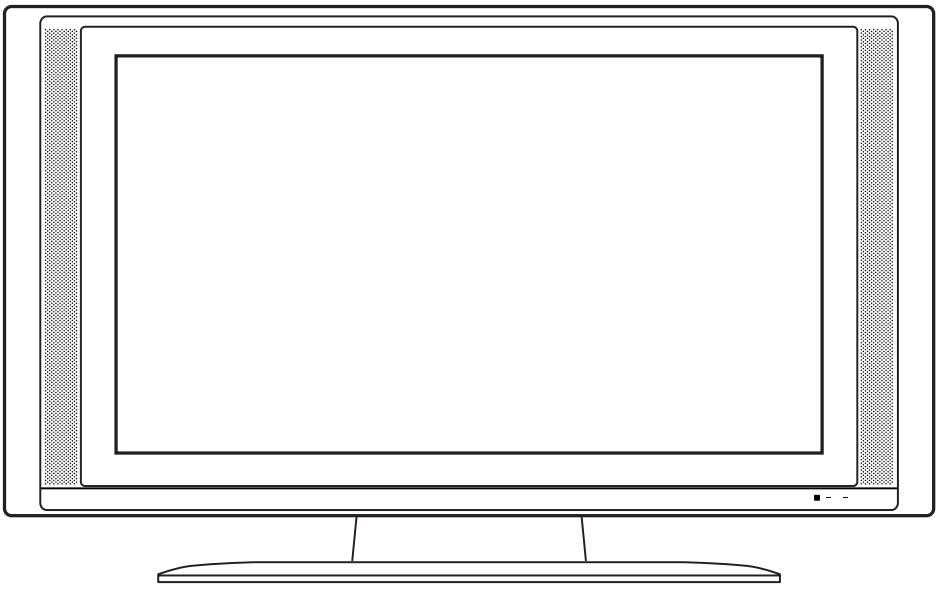
FUNAI

SERVICE MANUAL

32" COLOR LCD TELEVISION

LCD-A3206/LCD-B3206/
LCD-C3206/LCD-D3206



32″ COLOR LCD TELEVISION

LCD-A3206/LCD-B3206/ LCD-C3206/LCD-D3206

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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----------75 ohm Unbal., F type
Reference Level ----------20 Vp-p (LCD Green Cathode)
Test Input Signal----------400 Hz 30% modulation

Description	Condition	Unit	Nominal	Limit
1. Intermediate Freq.	Picture Sound	MHz MHz	45.75 41.25	--- ---
2. Color Killer Sens.	CH-2 CH-10 CH-55	dBμV dBμV dBμV	17 17 17	23 23 23
3. AFT Pull In Range (10 mV input)	---	MHz	±2.4	±2.1

< LCD PANEL >

Description	Condition	Unit	Nominal	Limit
1. Number of Pixels	Horizontal Vertical	pixels pixels	1366× 3 768	--- ---
2. Brightness		cd/m^2	470	---
3. Response Time (tr+tf)	---	msec	25	---
4. Support Color	---	-	16.7 mil. (8 bit)	---
5. Viewing Angle	Horizontal Vertical	° °	-85 to 85 -85 to 85	--- ---

< VIDEO >

Description	Condition	Unit	Nominal	Limit
1. Over Scan	Horizontal Vertical	% %	5 5	--- ---
2. Color Temperature	--- x y	°K	12000 0.272 0.278	--- ±0.03 ±0.03
3. Resolution	Horizontal Vertical	line line	400 350	--- ---

< 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	5.0/5.0	4.5/4.5
2. Audio Distortion	500mW: Lch/Rch	%	1.0/1.0	4.0/4.0
3. Audio Freq. Response	–6dB: Lch –6dB: Rch	Hz Hz	100 to 10 k 100 to 10 k	--- ---

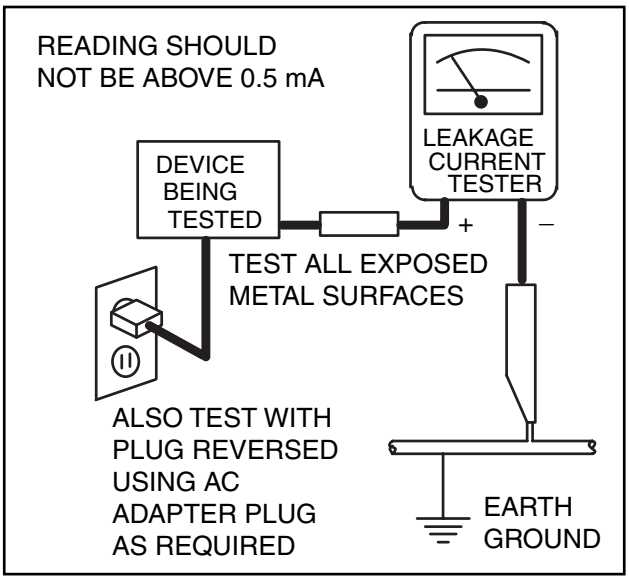
Note: Nominal specifications represent the design specifications. All units should be able to approximate these. Some will exceed and some may drop slightly below these specifications. Limit specifications represent the absolute worst condition that still might be considered acceptable. In no case should 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 1.0V 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. Crimp type wire connector
The power transformer uses crimp type connectors which connect the power cord and the primary side of the transformer. When replacing the transformer, follow these steps carefully and precisely to prevent shock hazards.
Replacement procedure
1) Remove the old connector by cutting the wires at a point close to the connector.
Important: Do not re-use a connector (discard it).
2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.
4) Use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

L. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC supply outlet.

M. 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')
230 V	≥ 3mm(d) ≥ 6 mm(d')

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

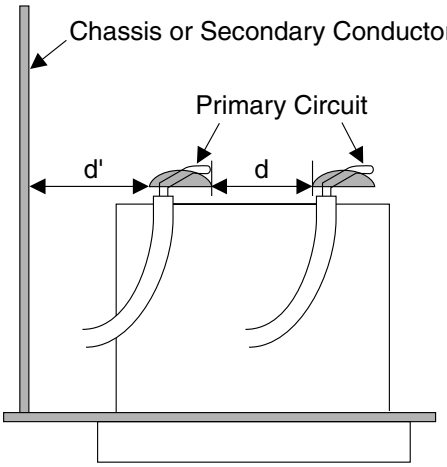


Fig. 1

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.

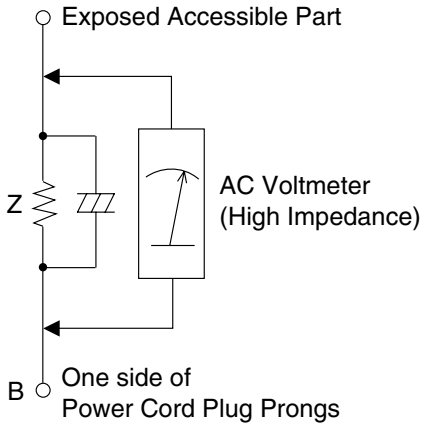


Fig. 2

Table 2: Leakage current ratings for selected areas

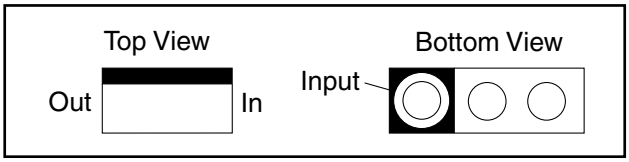
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
230 V	2kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	RF or Antenna terminals
	50kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	A/V Input, Output

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

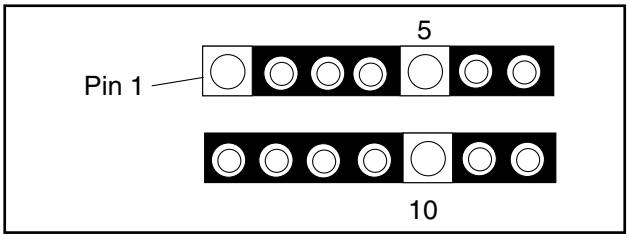
STANDARD NOTES FOR SERVICING

Circuit Board Indications

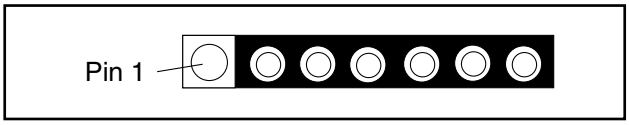
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



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

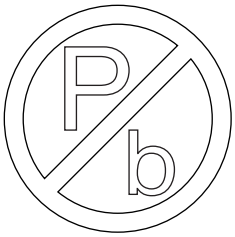


3. The 1st pin of every male connector is indicated as shown.



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)

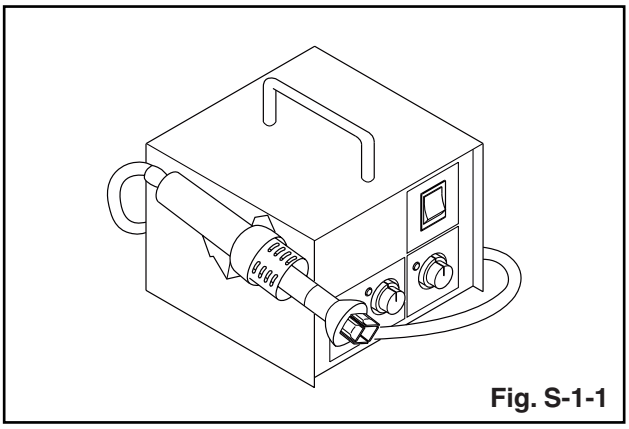


Fig. S-1-1

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.

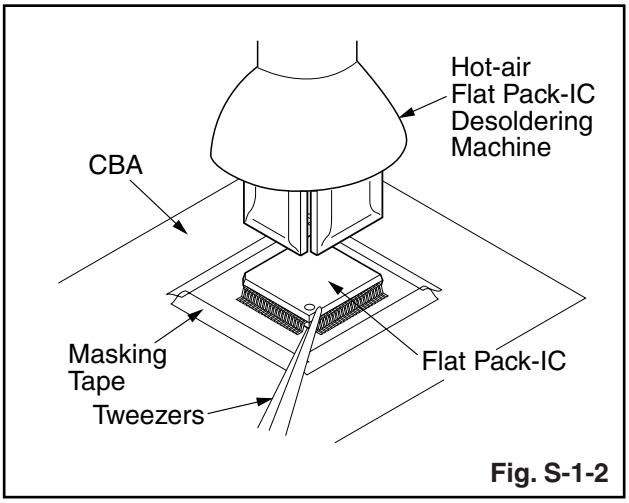


Fig. S-1-2

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)

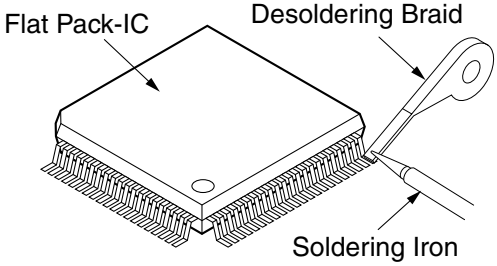


Fig. S-1-3

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)

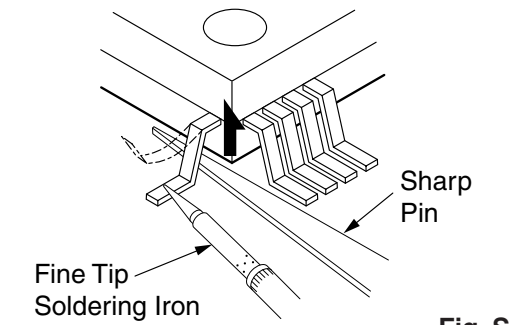


Fig. S-1-4

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.

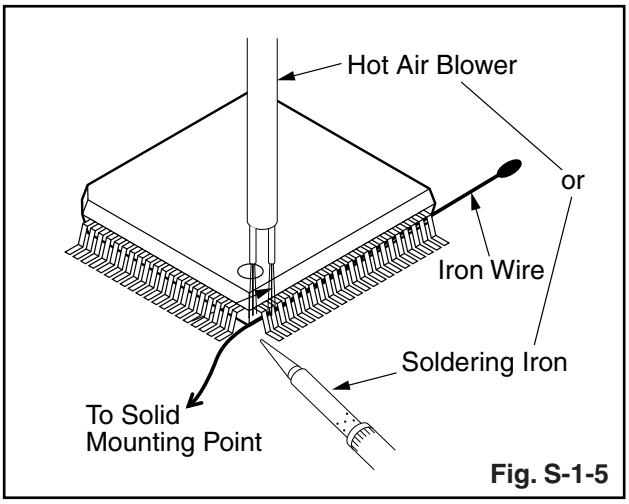


Fig. S-1-5

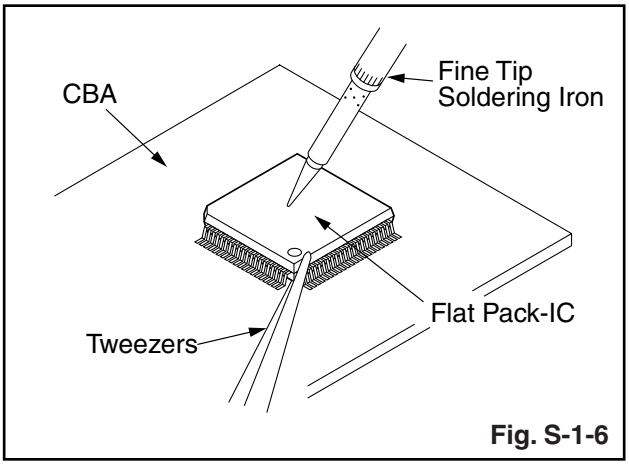


Fig. S-1-6

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.

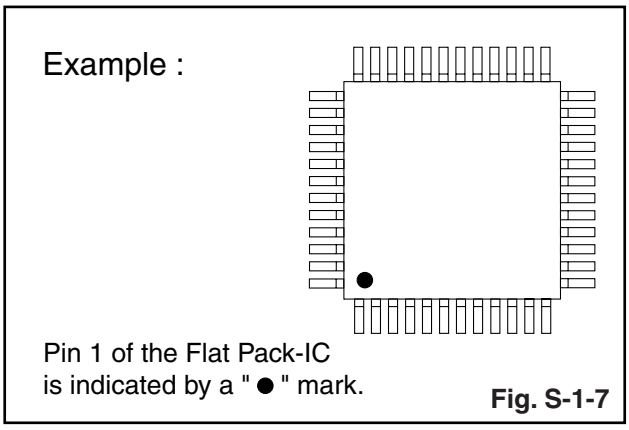


Fig. S-1-7

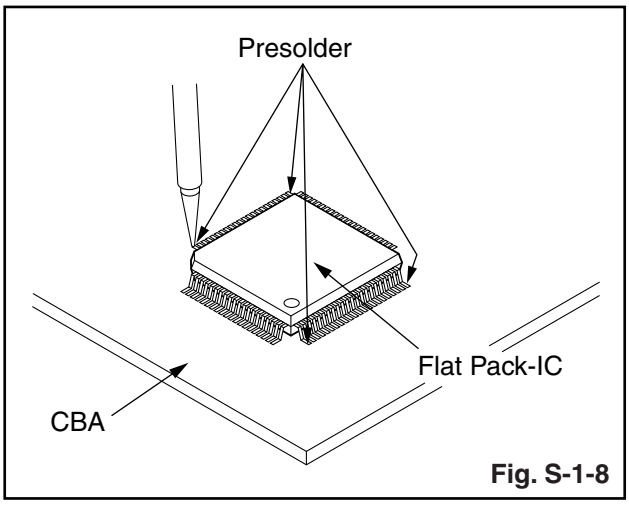


Fig. S-1-8

Instructions for Handling Semi-conductors

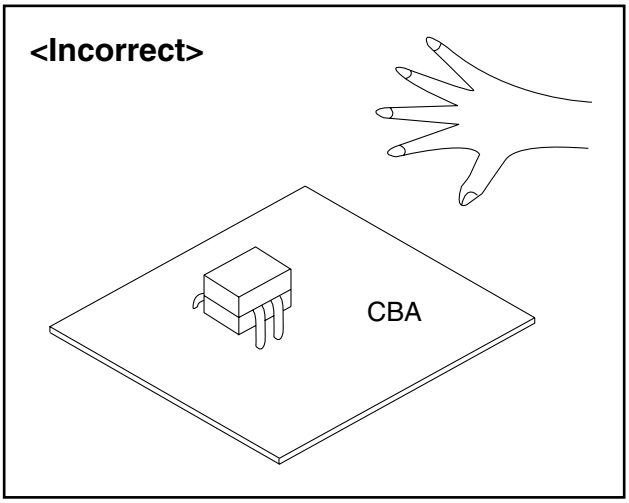
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

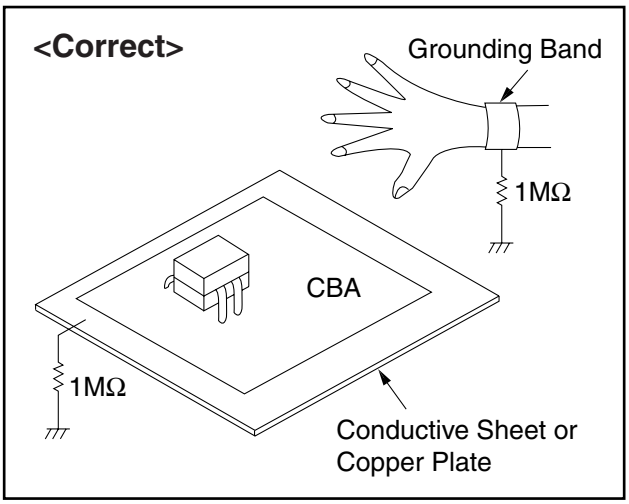
1. Ground for Human Body

Be sure to wear a grounding band (1 MΩ) 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 MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.

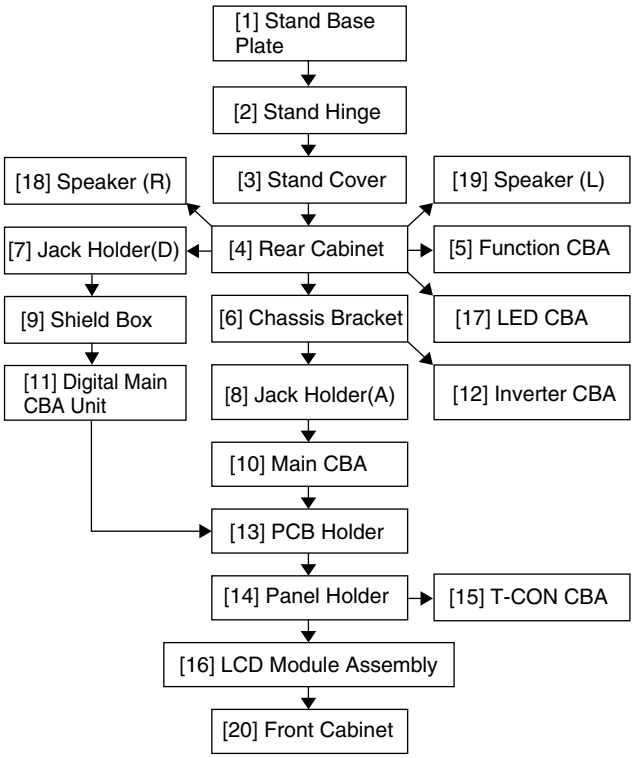




CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

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



2. Disassembly Method

Step/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder	Note
[1]	Stand Base Plate	D1	4(S-1), 6(S-2), 5(S-3)	---
[2]	Stand Hinge	D1	----------	---
[3]	Stand Cover	D1	----------	---
[4]	Rear Cabinet	D1	12(S-4), 4(S-5)	---
[5]	Function CBA	D1 D5	3(S-6), *CN10, *CN11, *CN11B	---
[6]	Chassis Bracket	D2	10(S-7), 2(S-8)	---
[7]	Jack Holder(D)	D2	(S-9)	---
[8]	Jack Holder(A)	D2	5(S-10)	---
[9]	Shield Box	D2	4(S-11)	---
[10]	Main CBA	D3 D5	6(S-12), *CN54, *CN101A, *CN102A, *CN103A, *CN104A, *CN703	---
[11]	Digital Main CBA Unit	D3 D5	4(S-13), *CN111, *CN400	---
[12]	Inverter CBA	D3 D5	6(S-14), *CN1050, *CN1100, *CN1150, *CN1150, *CN1200, *CN1250, CN1300	---
[13]	PCB Holder	D3	2(S-15), 2(S-16)	---
[14]	Panel Holder	D4	6(S-17), 9(S-18)	---
[15]	T-CON CBA	D4 D5	5(S-19), *CN211, *CN212, *CN213, *CN214	---
[16]	LCD Module Assembly	D4	----------	---
[17]	LED CBA	D4	(S-20)	---
[18]	Speaker (R)	D4	4(S-21)	---
[19]	Speaker (L)	D4	4(S-22)	---
[20]	Front Cabinet	D4	----------	---
		↓ (3)	↓ (4)	↓ (5)

Note:

(1) Order of steps in procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the Identification (location) No. of parts in figures.

(2) Parts to be removed or installed.

(3) Fig. No. showing procedure of part location

(4) Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
N = Nut, L = Locking Tab, S = Screw,
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."

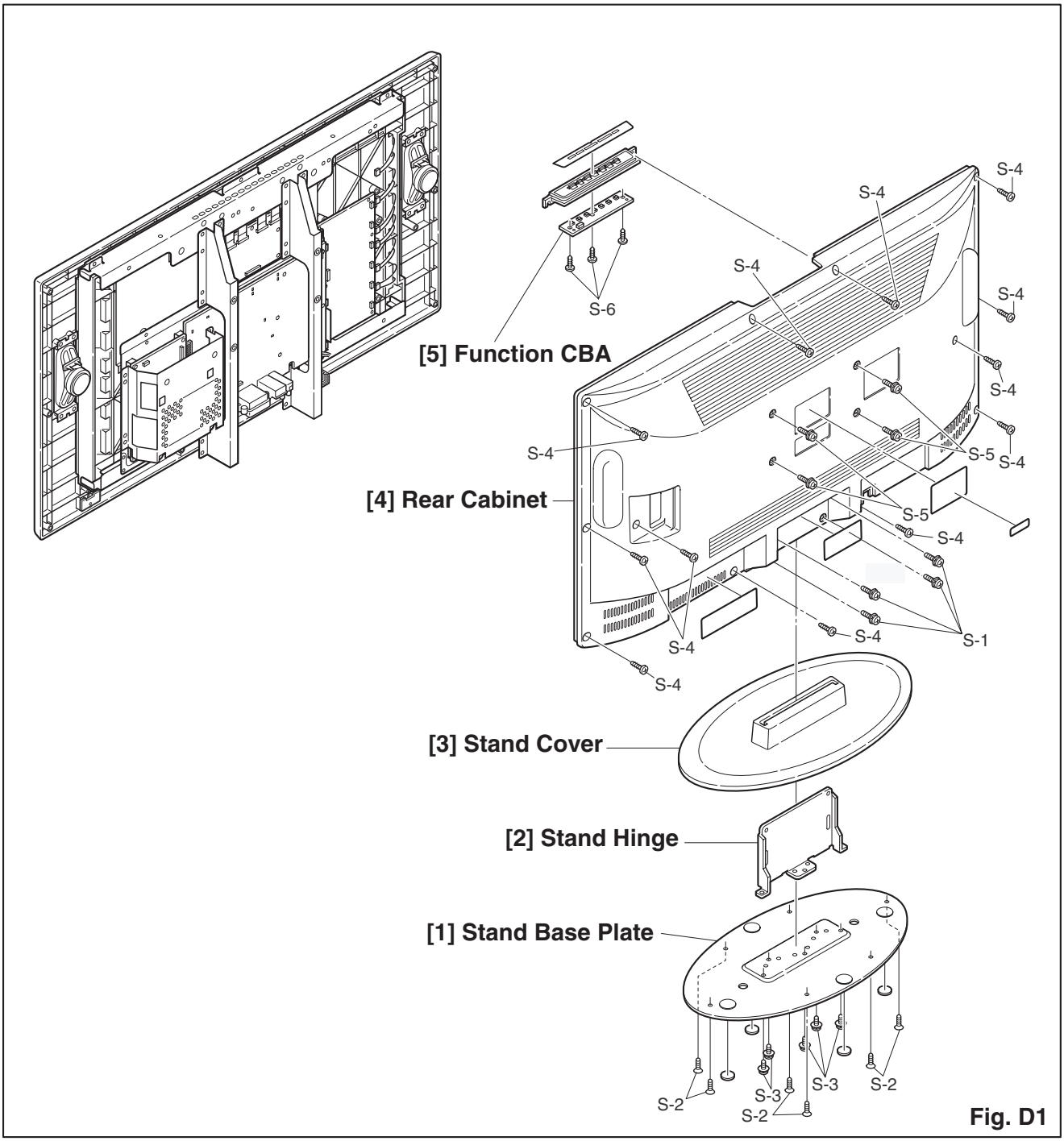

[5] Function CBA
[4] Rear Cabinet
[3] Stand Cover
[2] Stand Hinge
[1] Stand Base Plate
S-1
S-2
S-3
S-4
S-5
S-6

Fig. D1

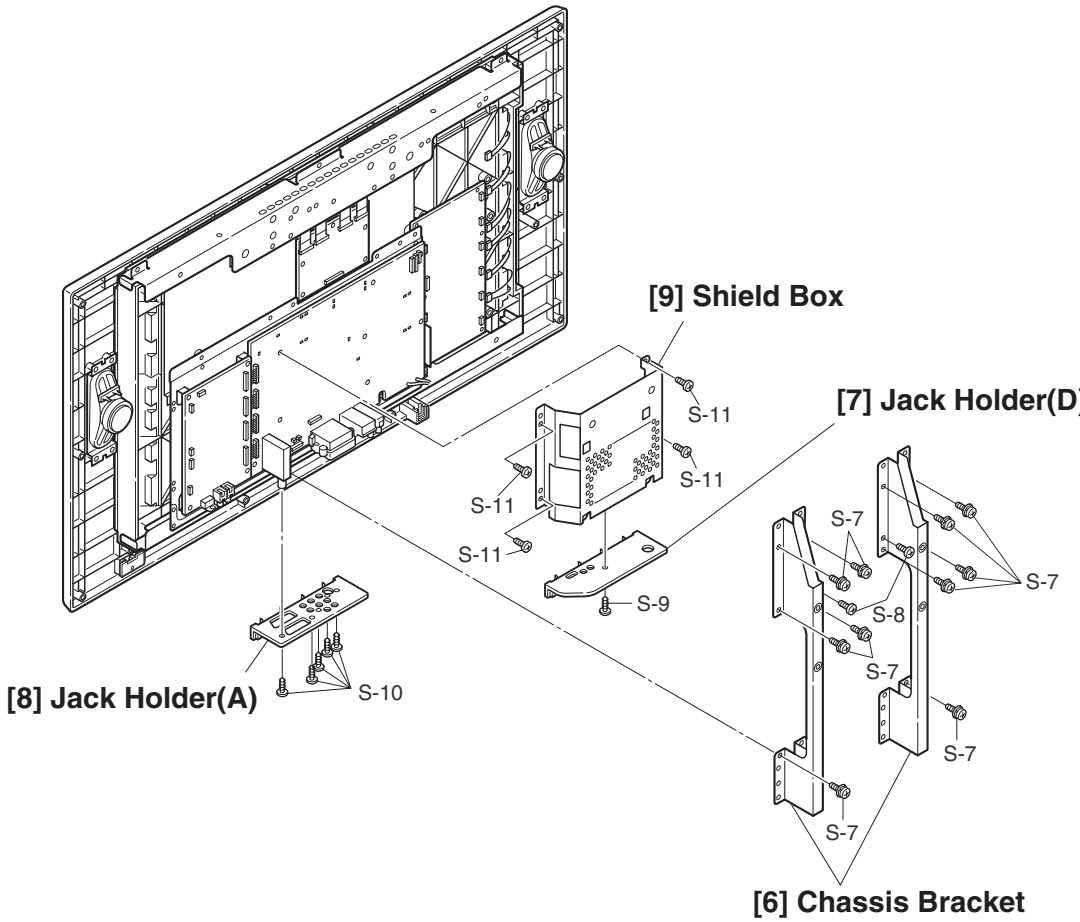

[9] Shield Box
S-11
S-11
S-11
S-11
[7] Jack Holder(D)
S-7
S-7
S-8
S-7
S-7
S-7
S-9
[8] Jack Holder(A)
S-10
[6] Chassis Bracket

Fig. D2

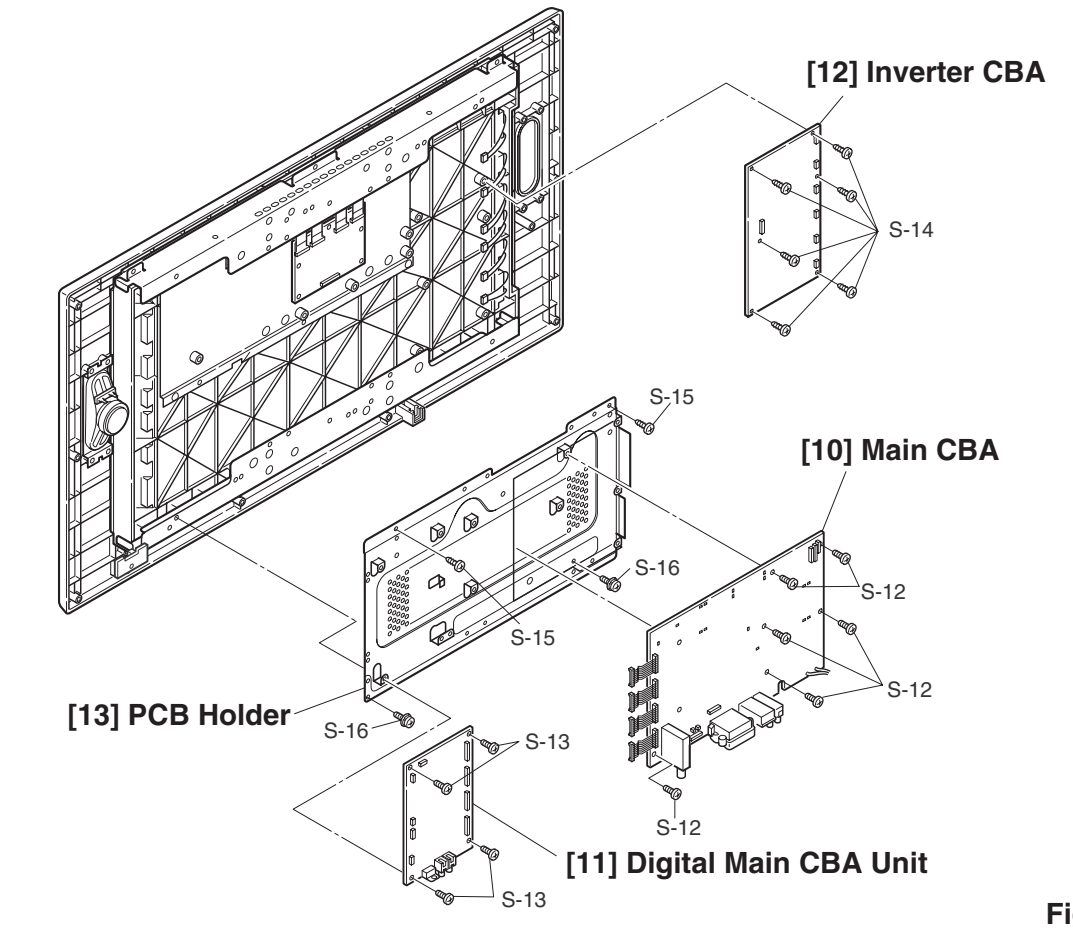

[12] Inverter CBA
S-14
S-15
[10] Main CBA
S-16
S-12
S-15
S-12
[13] PCB Holder
S-16
S-13
S-12
[11] Digital Main CBA Unit
S-13

Fig. D3

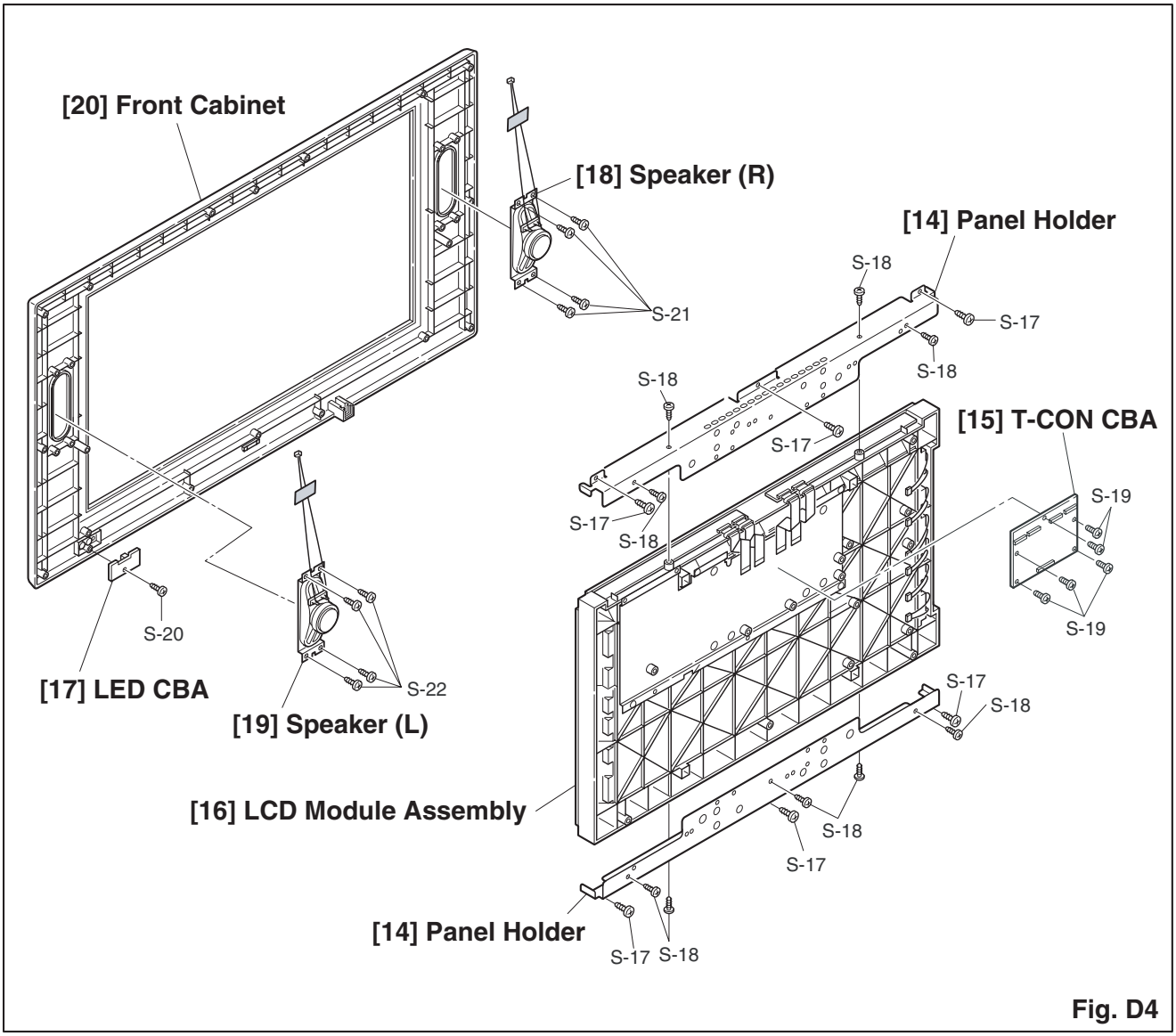

[20] Front Cabinet
[18] Speaker (R)
[14] Panel Holder
S-18
S-17
S-18
S-21
S-18
[15] T-CON CBA
S-17
S-17
S-18
S-19
S-19
S-20
[17] LED CBA
S-22
[19] Speaker (L)
S-17
S-18
[16] LCD Module Assembly
S-18
S-17
[14] Panel Holder
S-17
S-18

Fig. D4

TV Cable Wiring Diagram

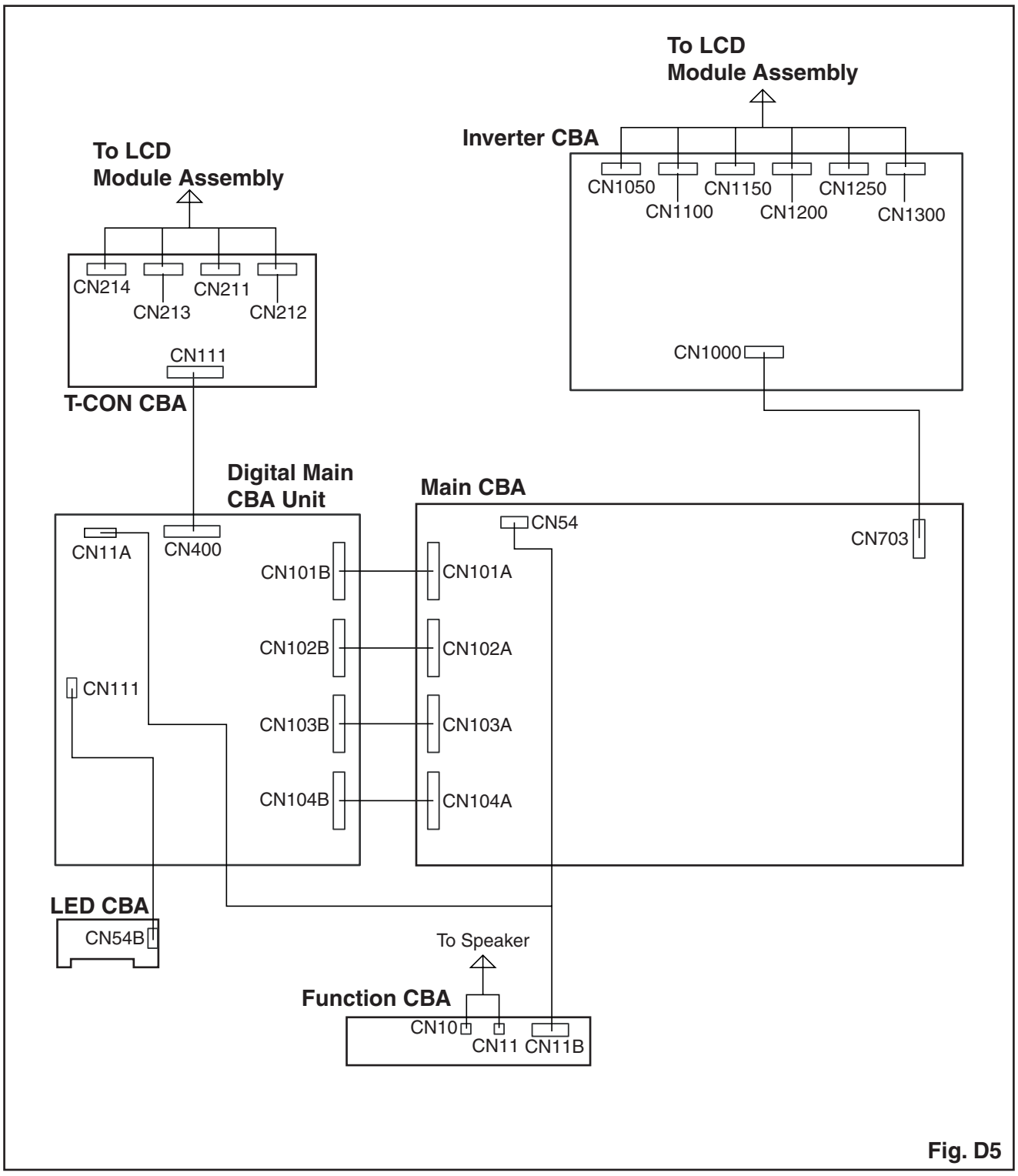


Fig. D5

HOW TO INITIALIZE THE LCD TELEVISION

To put the program back at the factory-default, initialize the LCD television as the following procedure.

How to initialize the LCD television:

1. Turn the power off.
2. To enter the service mode, while pressing [SETUP] button, press [STANDBY-ON] button on the TV unit.
   - To cancel the service mode, press [STANDBY-ON] button on the remote control.
3. To initialize the LCD television, press “DISPLAY” button on the remote control unit.
4. Confirm "FF" indication on the upper left 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 off.
2. While pressing [SETUP] button, press [STANDBY-ON] button on the TV unit

- To cancel the service mode, press [STANDBY-ON] button on the TV unit.

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
D1-BRT	MENU → 1	128
D1-CNT		128
D1-CLR-R		128
D1-CLR-B		128
D1-TNT		128
D1-SHR		70
D2-BRT	MENU → 2	128
D2-CNT		128
D2-CLR-R		128
D2-CLR-B		128
D2-TNT		128
D2-SHR		70
D3-BRT	MENU → 3	128
D3-CNT		128
D3-CLR-R		128
D3-CLR-B		128
D3-TNT		128
D3-SHR		40
D4-BRT	MENU → 4	128
D4-CNT		128
D4-CLR-R		128
D4-CLR-B		128
D4-TNT		128
D4-SHR		40
BRT	MENU → 5	128
CNT		170
CLR-R		128
CLR-B		128
TNT		128
SHR		45
S-BRT	MENU → 6	128
S-CNT		170
S-CLR-R		128
S-CLR-B		128
S-TNT		128
S-SHR		45
C-BRT	MENU → 7	128
C-CNT		128
C-CLR-R		128
C-CLR-B		128
C-TNT		128
C-SHR		70

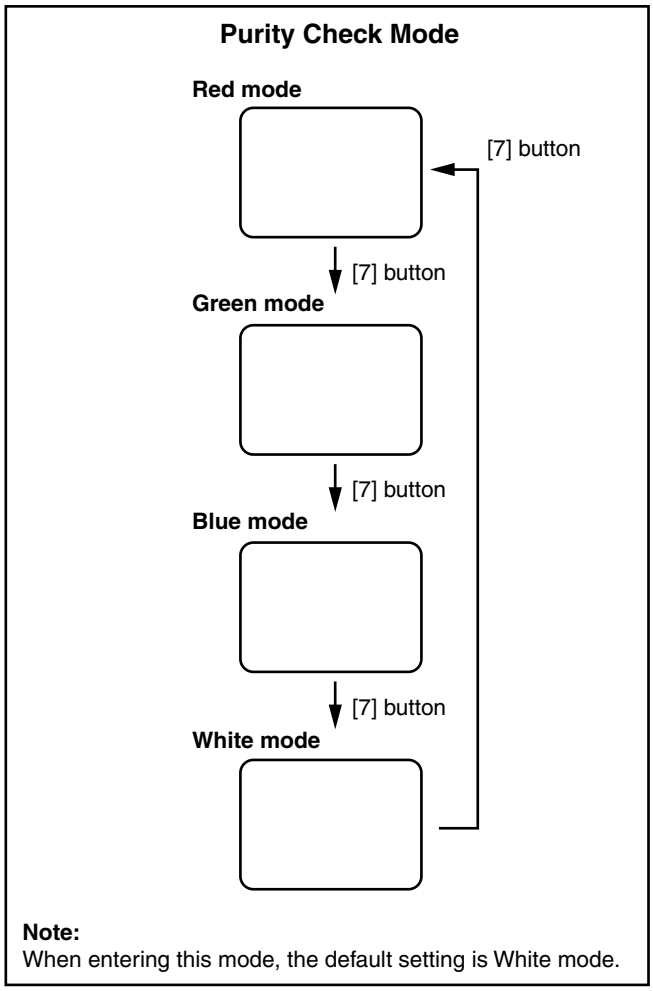
ITEM	BUTTON (on the remote control)	DATA VALUE
DT-BRT	MENU → 8	128
DT-CNT		170
DT-CLR-R		128
DT-CLR-B		128
DT-TNT		128
DT-SHR		45
BRIGHT	0	255
NORMAL	0	176
DARK	0	112
7F	VOL. ▼	FF
LAST POWER		ON
NCM		ON
XV100		OFF
*COR 1(C/D/S 1)	VOL. ▼ → 1	120
COG 1(C/D/S 1)	VOL. ▼ → 2	127
*COB 1(C/D/S 1)	VOL. ▼ → 3	131
*DR 1(C/D/S 1)	VOL. ▼ → 4	134
DG 1(C/D/S 1)	VOL. ▼ → 5	119
*DB 1(C/D/S 1)	VOL. ▼ → 6	114
SBR 1(C/D/S 1)	VOL. ▼ → 7	63
SBB 1(C/D/S 1)	VOL. ▼ → 9	63
*COR 2(C/D/S 2)	VOL. ▼ → 1	111
COG 2(C/D/S 2)	VOL. ▼ → 2	110
*COB 2(C/D/S 2)	VOL. ▼ → 3	110
*DR 2(C/D/S 2)	VOL. ▼ → 4	125
DG 2(C/D/S 2)	VOL. ▼ → 5	115
*DB 2(C/D/S 2)	VOL. ▼ → 6	115
SBR 2(C/D/S 2)	VOL. ▼ → 7	63
SBB 2(C/D/S 2)	VOL. ▼ → 9	63
*COR 3(C/D/S 3)	VOL. ▼ → 1	120
COG 3(C/D/S 3)	VOL. ▼ → 2	127
*COB 3(C/D/S 3)	VOL. ▼ → 3	131
*DR 3(C/D/S 3)	VOL. ▼ → 4	134
DG 3(C/D/S 3)	VOL. ▼ → 5	119
*DB 3(C/D/S 3)	VOL. ▼ → 6	114
SBR 3(C/D/S 3)	VOL. ▼ → 7	63
SBB 3(C/D/S 3)	VOL. ▼ → 9	63

NOTE: * These data value will be changed by the White Balance Adjustment.

2. Purity Check Mode

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

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

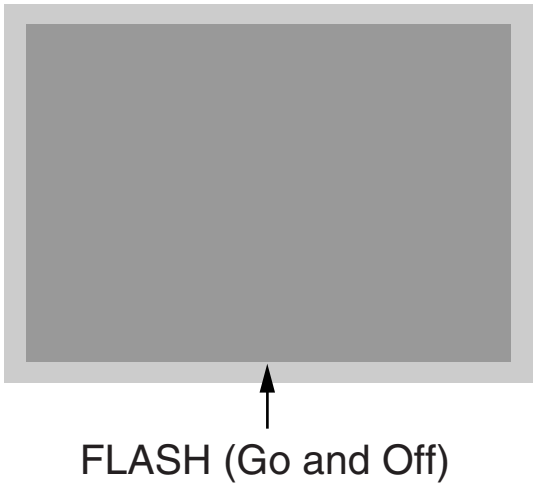


3. Flicker Adjustment

*This adjustment is needed when reparing T-CON CBA.

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 become the following.



4. Turn the VR1 on the LCD Module so that flash stops.

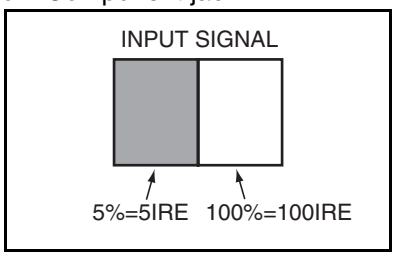
4. Auto Calibration

Purpose: To bring the color adjustment of each component into standard alignment.

Symptom of Misadjustment: If this adjustment is incorrect, component signals do not reproduce the corresponding color.

Gain Adjustment

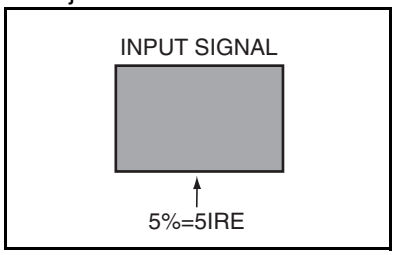
1. Input white raster signal (5%=5 IRE, 100%=100 IRE) from Component jack.



2. Enter the service mode.
3. To enter the Auto Calibration adjustment mode, press [5] button on the service remote control unit.
4. To start auto adjustment, press [CH ▲] button on the service remote control unit.
   - In the auto adjustment mode, “Please Wait” appears on the screen.
   - Upon completion, “OK” and appears on the screen.
   - If the auto adjustment failure, “ NG” appears on the screen.

Offset Adjustment

5. Input white raster signal (5%=5 IRE) from Component jack.



6. Enter the service mode.
7. To enter the Auto Calibration adjustment mode, press [6] button on the service remote control unit.
8. To start auto adjustment, press [CH ▲] button on the service remote control unit.
   - In the auto adjustment mode, “Please Wait” appears on the screen.
   - Upon completion, “OK” and appears on the screen.
   - If the auto adjustment failure, “ NG” appears on the screen.

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

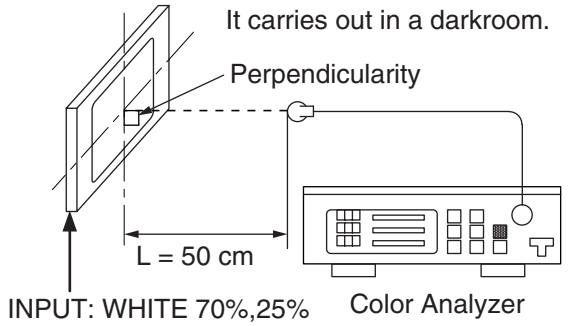
5. White Balance Adjustment

*This adjustment is needed when reparing T-CON CBA.

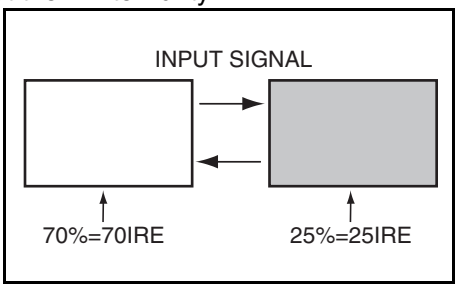
Purpose: To mix red, green and blue beams correctly for pure white.

Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	VOL. ▼ buttons	**[CVBS]** C/D/S 1 **[YUV]** C/D/S 2 **[RGB]** C/D/S 3	White Purity (APL 70%) or (APL 25%)
M. EQ.		Spec.	
Pattern Generator, Color analyzer		(APL 70%) x: 0.242 to 0.302, y: 0.248 to 0.308 (APL 25%) x: 0.262 to 0.282, y: 0.268 to 0.288	
Figure			



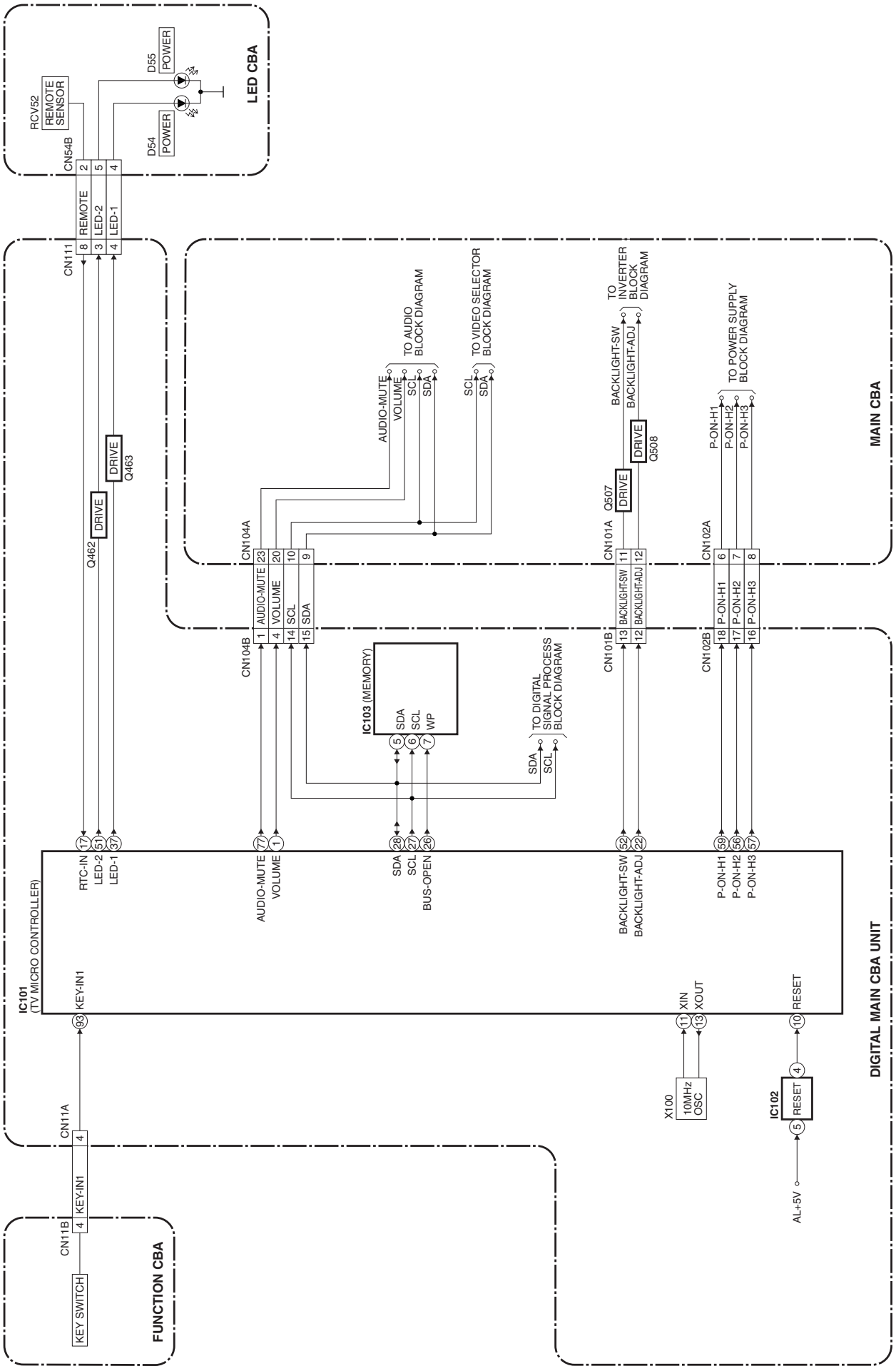
1. Operate the unit for more than 20 minutes.
2. Input the White Purity.



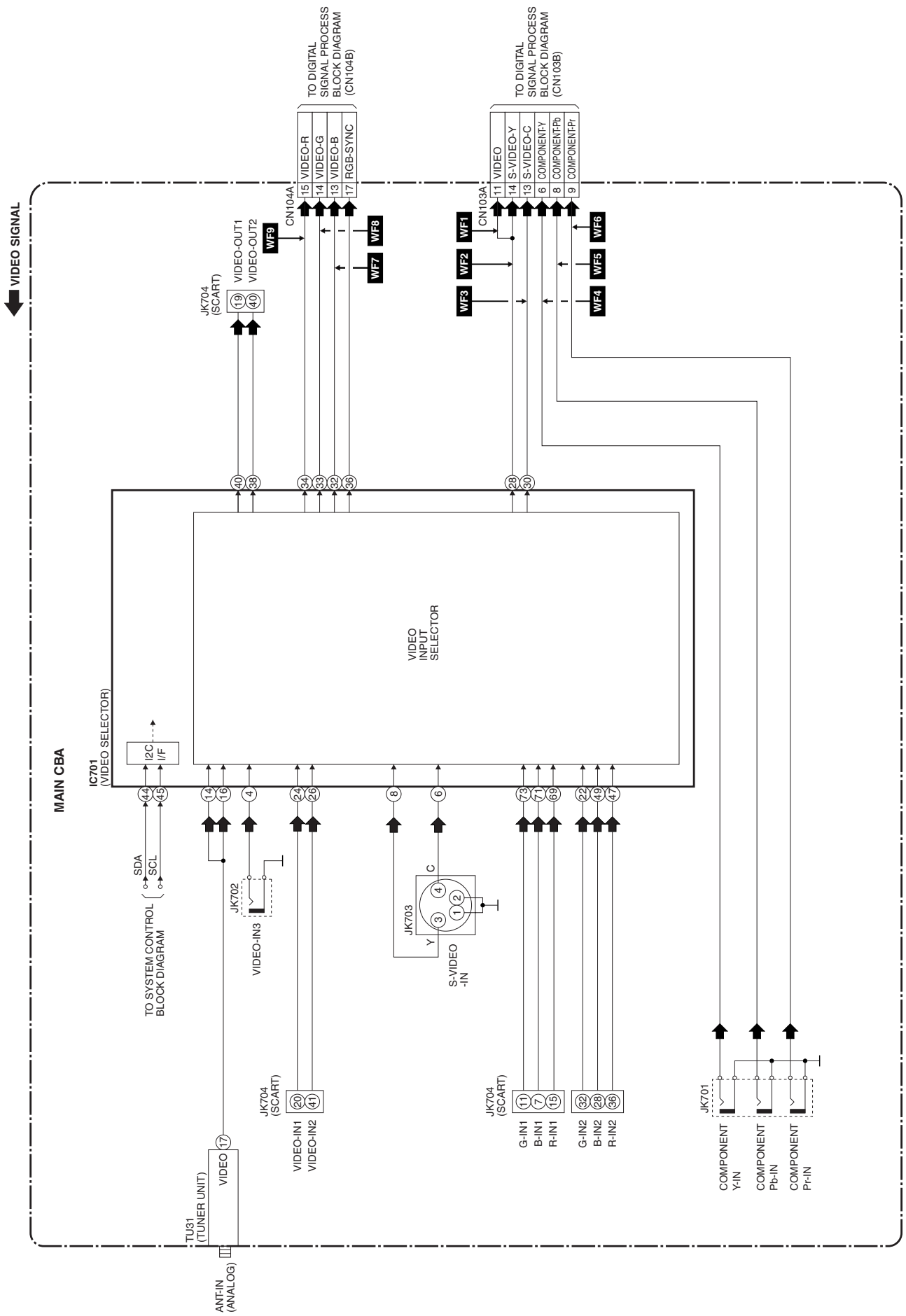
3. Set the color analyzer to the CHROMA mode and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.
   Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
4. **[CVBS]**
   Enter the Service mode. Press "VOL ▼" button on the remote control unit and select "C/D/S 1" mode.
   [YUV]
   Enter the Service mode. Press "VOL ▼" button on the remote control unit and select "C/D/S 2" mode.
   [RGB]
   Enter the Service mode. Press "VOL ▼" button on the remote control unit and select "C/D/S 3" mode.
5. **[CVBS]----(APL 70%)**
   Press "6" button to select "DB 1(C/D/S 1)" for Blue adjustment. Press "4" button to select "DR 1(C/D/S 1)" for Red adjustment. When "x" value and "y" value are not within specification, adjust "DB 1(C/D/S 1)" or "DR 1(C/D/S 1)". Refer to "1. Initial Setting."
   [CVBS]----(APL 25%)
   Press "3" button to select "COB 1(C/D/S 1)" for Blue adjustment. Press "1" button to select "COR 1(C/D/S 1)" for Red adjustment. When "x" value and "y" value are not within specification, adjust "COB 1(C/D/S 1)" or "COR 1(C/D/S 1)". Refer to "1. Initial Setting."
   After adjusting (APL 25%), verify (APL 70%) again and adjust repeatedly until both values are within specification.
6. **[YUV]----(APL 70%)**
   Press "6" button to select "DB 2(C/D/S 2)" for Blue adjustment. Press "4" button to select "DR 2(C/D/S 2)" for Red adjustment.When "x" value and "y" value are not within specification, adjust "DB 2(C/D/S 2)" or "DR 2(C/D/S 2)". Refer to "1. Initial Setting."
   [YUV]----(APL 25%)
   Press "3" button to select "COB 2(C/D/S 2)" for Blue adjustment. Press "1" button to select "COR 2(C/D/S 2)" for Red adjustment.When "x" value and "y" value are not within specification, adjust "COB 2(C/D/S 2)" or "COR 2(C/D/S 2)".
   Refer to "1. Initial Setting."
   After adjusting (APL 25%), verify (APL 70%) again and adjust repeatedly until both values are within specification.
7. **[RGB]----(APL 70%)**
   Press "6" button to select "DB 3(C/D/S 3)" for Blue adjustment. Press "4" button to select "DR 3(C/D/S 3)" for Red adjustment.When "x" value and "y" value are not within specification, adjust "DB 3(C/D/S 3)" or "DR 3(C/D/S 3)". Refer to "1. Initial Setting."
   [RGB]----(APL 25%)
   Press "3" button to select "COB 3(C/D/S 3)" for Blue adjustment. Press "1" button to select "COR 3(C/D/S 3)" for Red adjustment.When "x" value and "y" value are not within specification, adjust "COB 3(C/D/S 3)" or "COR 3(C/D/S 3)".
   Refer to "1. Initial Setting."
   After adjusting (APL 25%), verify (APL 70%) again and adjust repeatedly until both values are within specification.
8. Turn the power off and on again. (Main power button on the TV unit.)

BLOCK DIAGRAMS

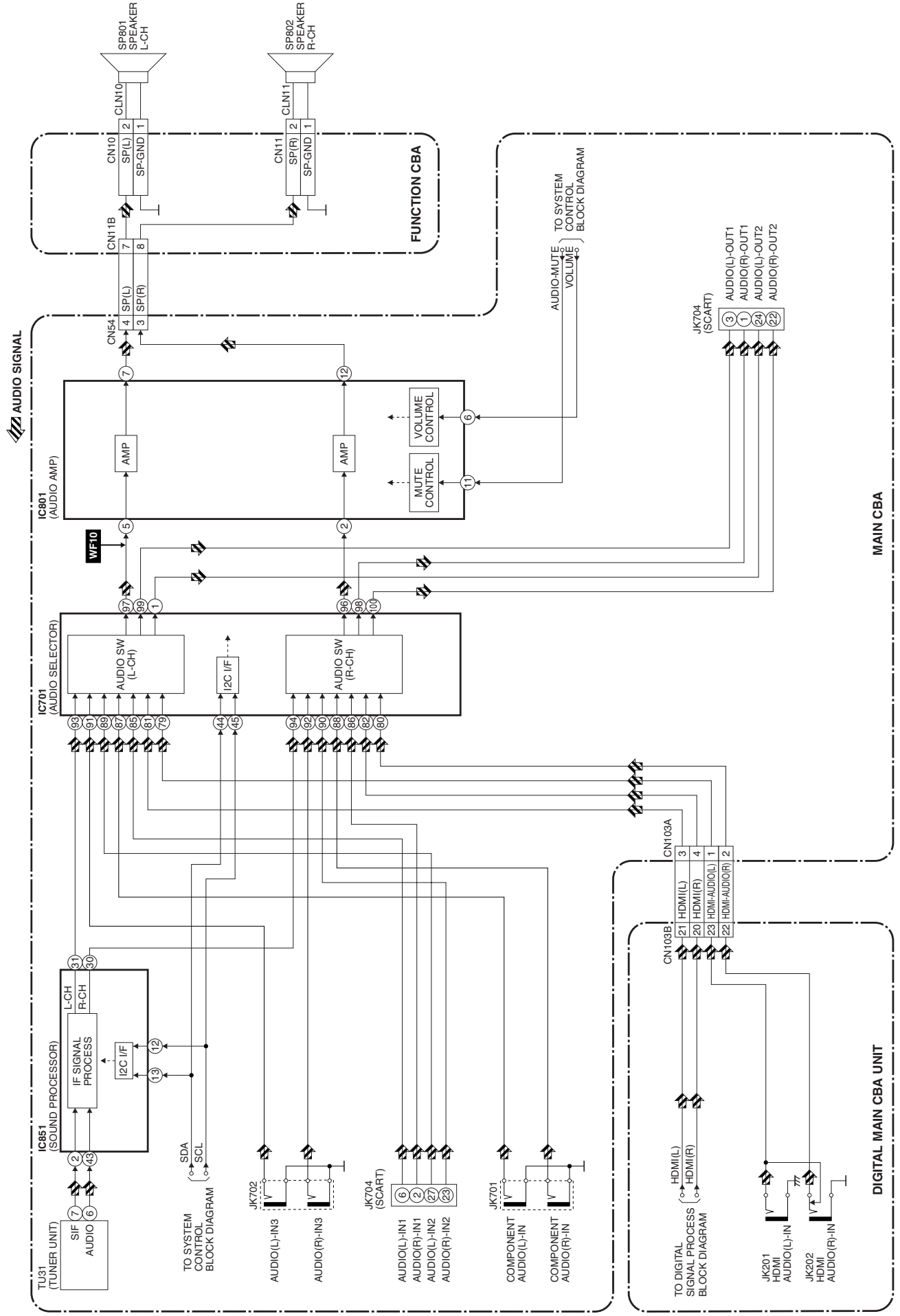
System Control Block Diagram



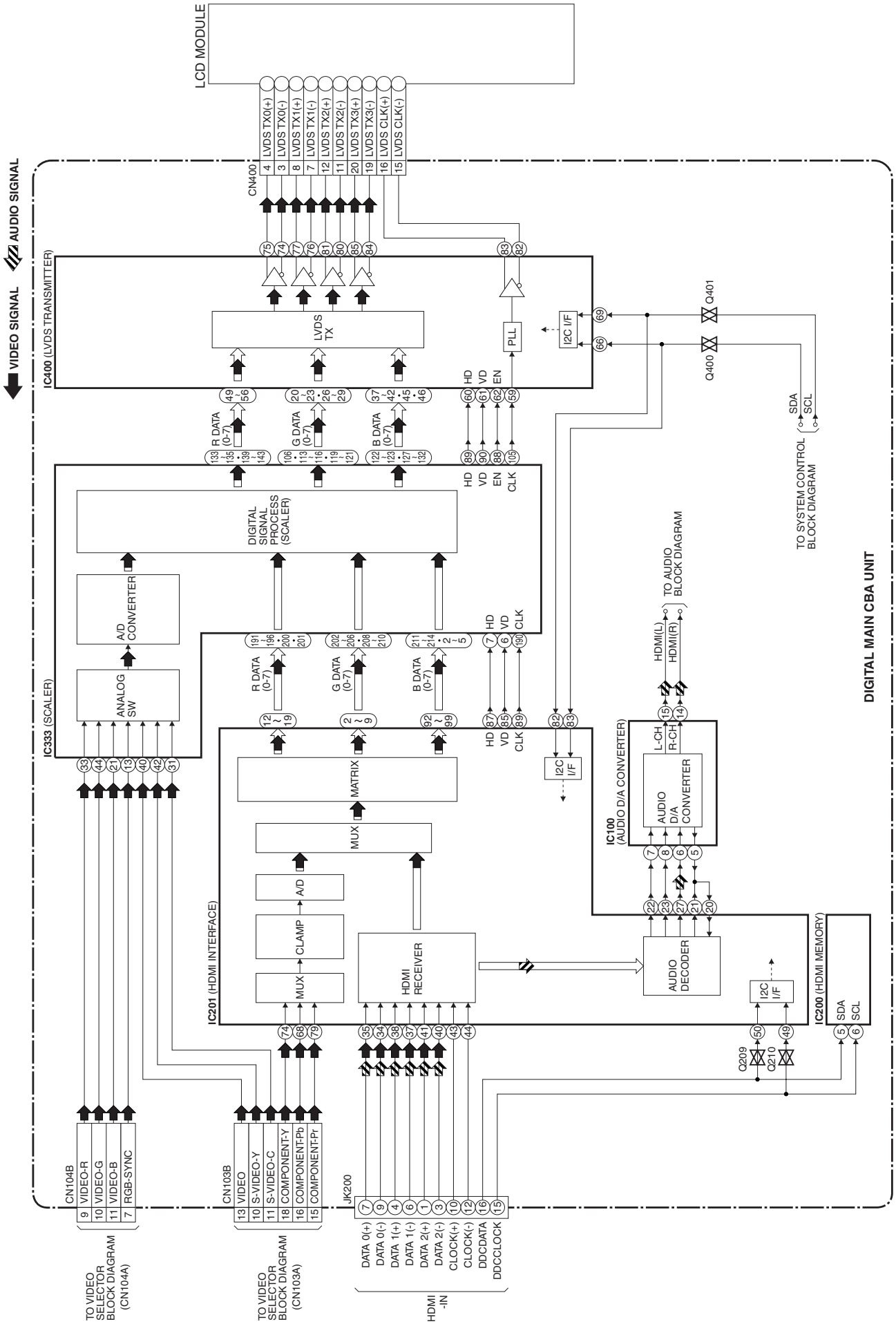
Video Selector Block Diagram



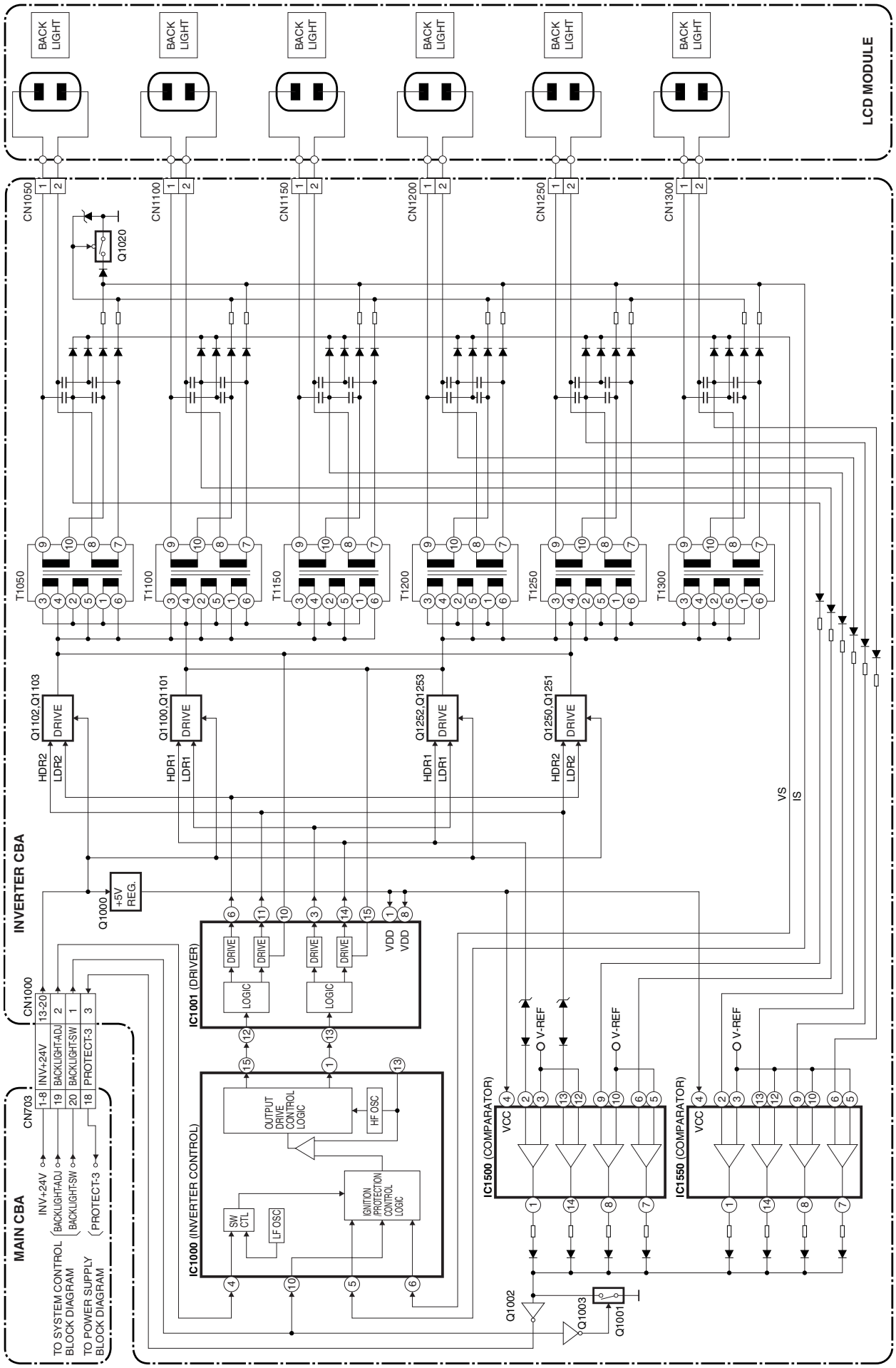
Audio Block Diagram



Digital Signal Process Block Diagram



Inverter Block Diagram

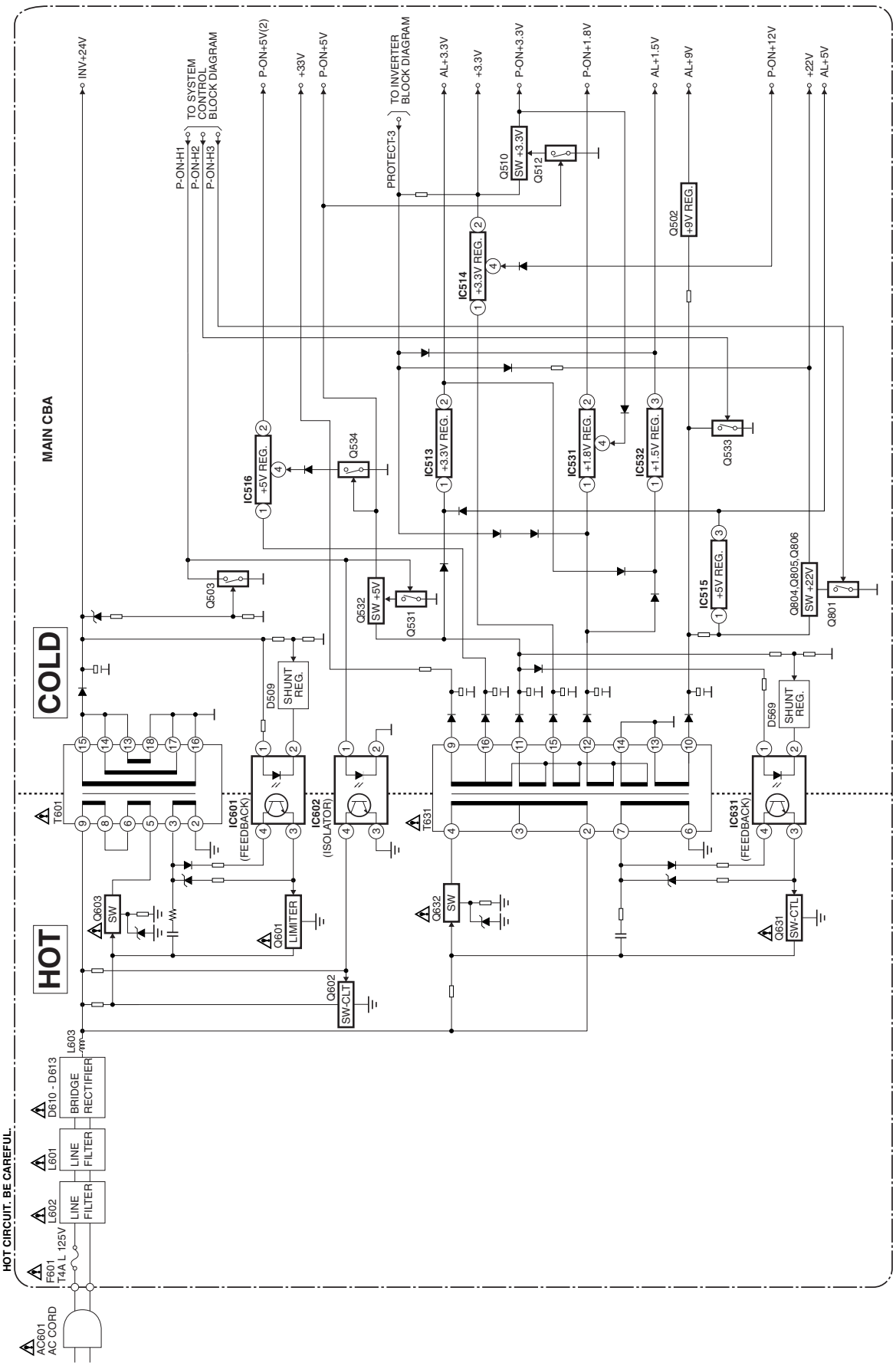


Power Supply Block Diagram

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

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

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



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

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} μF).
5. All voltages are DC voltages unless otherwise specified.

Note of Capacitors:

ML --- Mylar Cap. PP --- Metallized Film Cap. SC --- Semiconductor Cap. L --- Low Leakage type

Temperature Characteristics of Capacitors are noted with the following:

B --- ±10% CH --- 0±60 ppm/°C CSL --- +350~-1000 ppm/°C

Tolerance of Capacitors are noted with the following:

Z --- +80~-20%

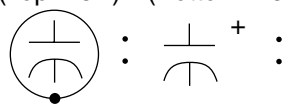
Note of Resistors:

CEM --- Cement Res. MTL --- Metal Res. F --- Fuse Res.

Capacitors and transistors are represented by the following symbols.

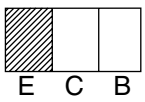
CBA Symbols

(Top View) (Bottom View)



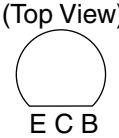
Electrolytic Capacitor

(Bottom View)



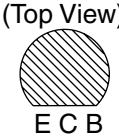
Transistor or Digital Transistor

(Top View)



NPN Transistor

(Top View)



PNP Transistor

(Top View)

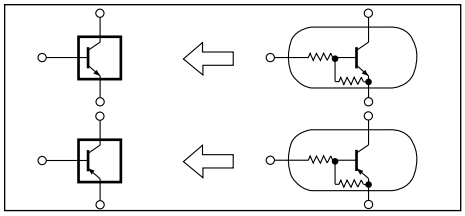
NPN Digital Transistor

(Top View)

PNP Digital Transistor

Schematic Diagram Symbols

Digital Transistor



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.

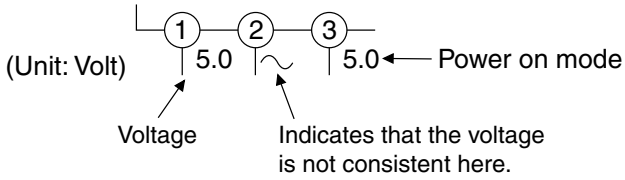
If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

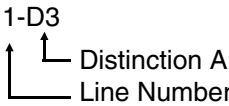
1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which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

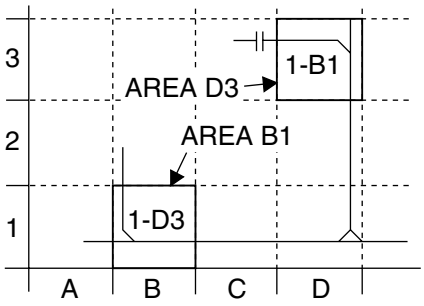


5. How to read converged lines



Examples:

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



6. Test Point Information

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

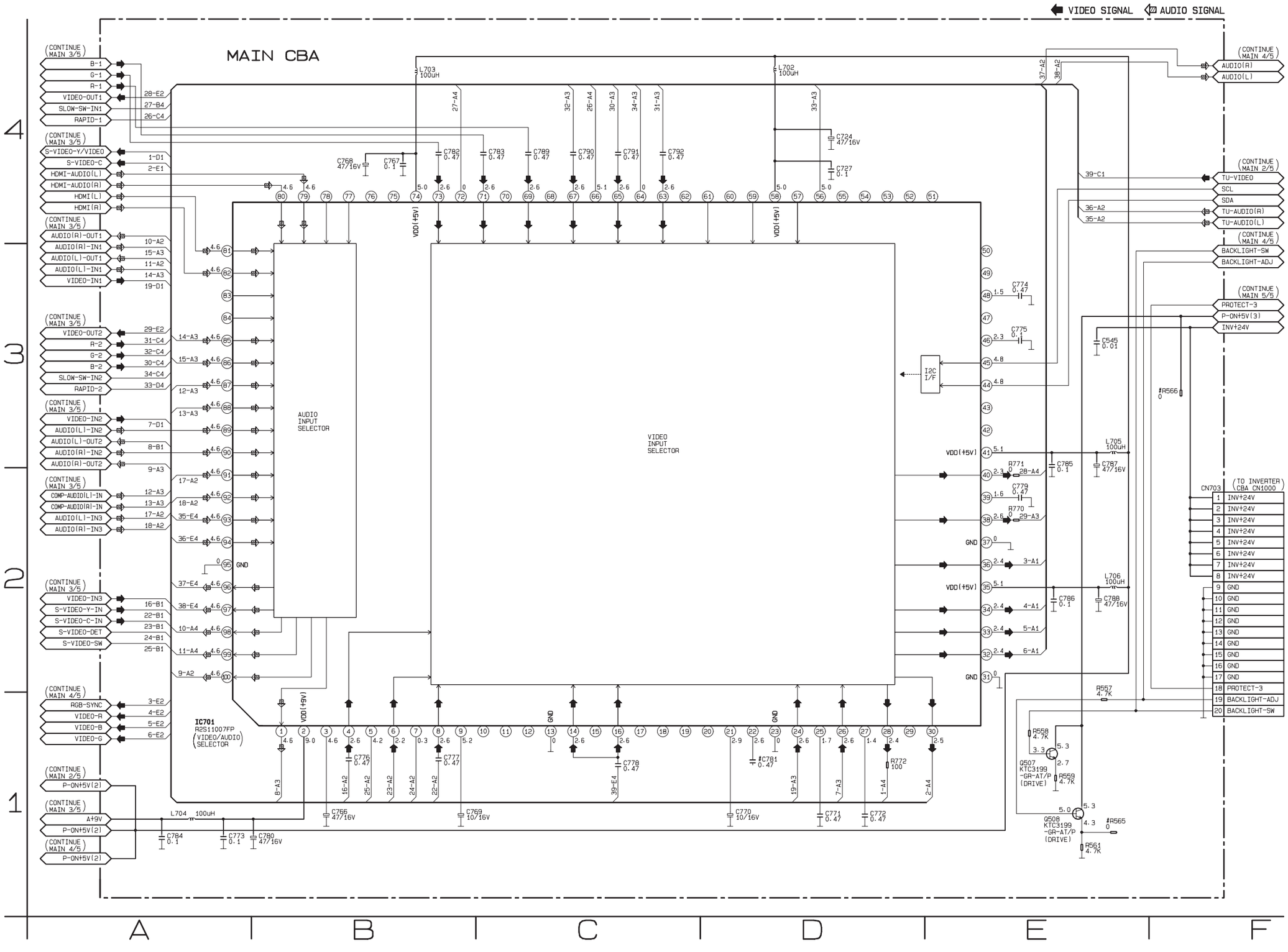
 : Used to indicate a test point with a component lead on foil side.

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

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

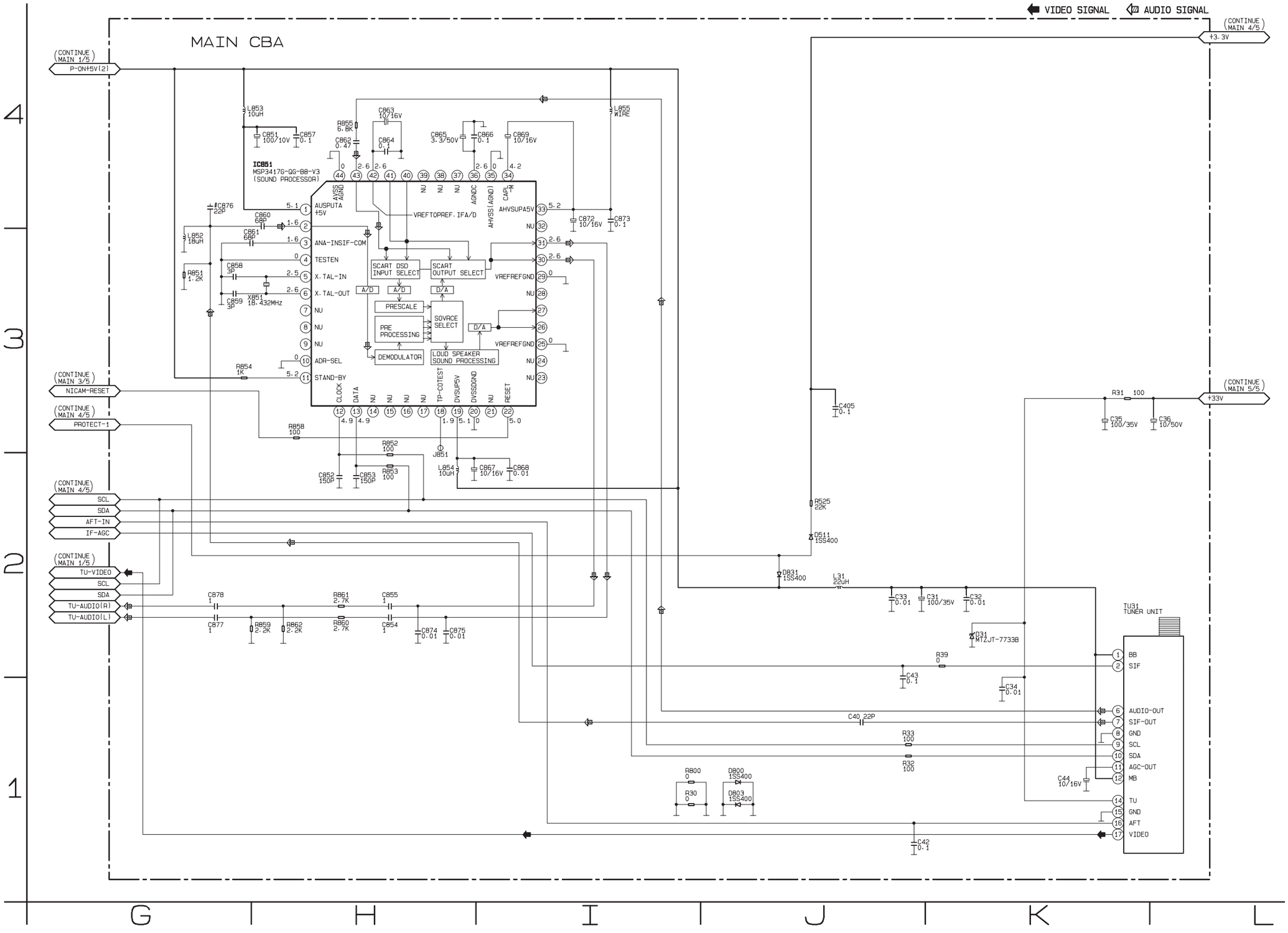
Main 1/5 Schematic Diagram

 # NOTE:
is an unnecessary part of the circuit configuration;
therefore servicing is not required, for this product operates independently of this part.

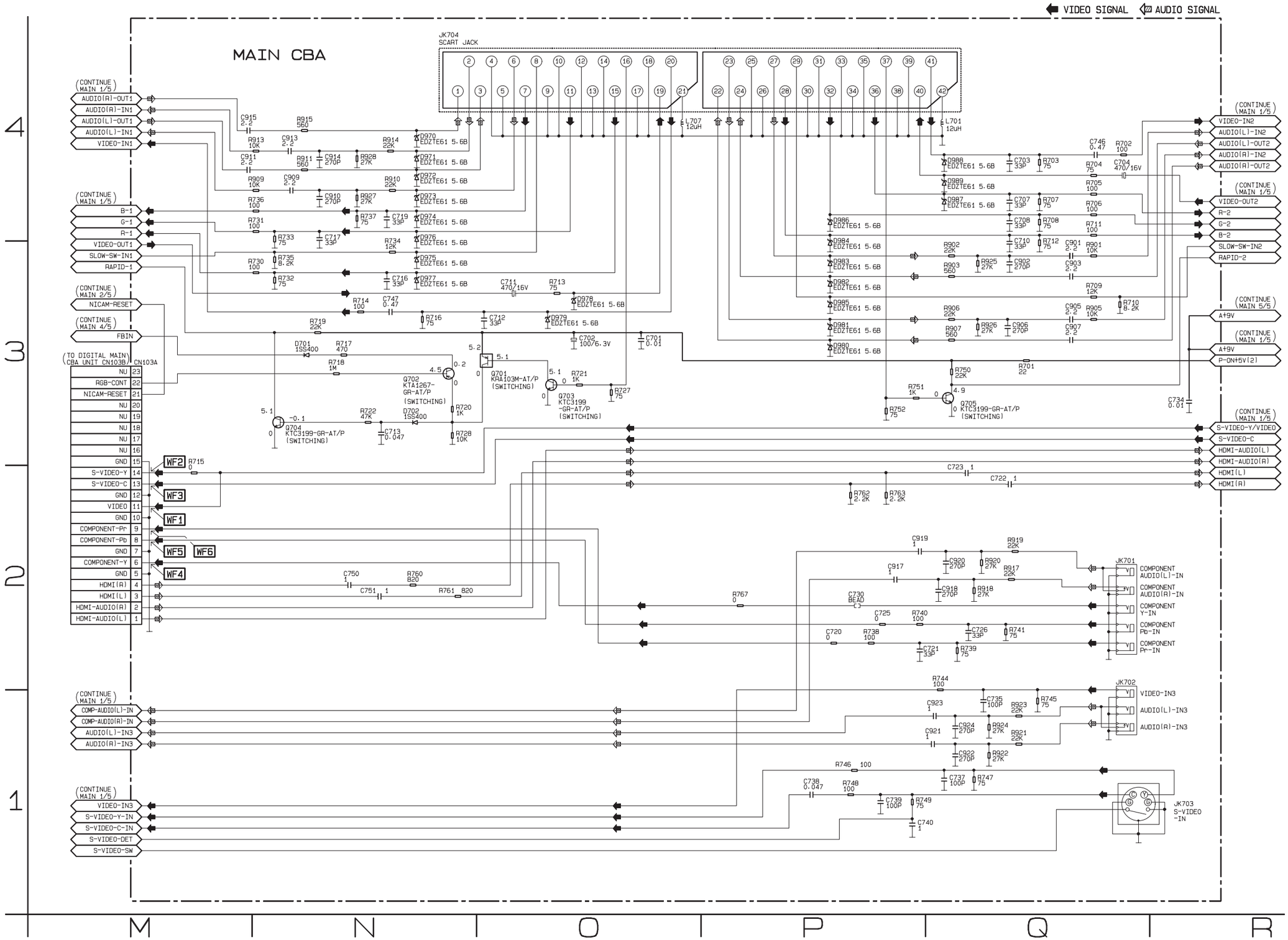


Main 2/5 Schematic Diagram

 # NOTE:
is an unnecessary part of the circuit configuration;
therefore servicing is not required, for this product operates independently of this part.



Main 3/5 Schematic Diagram



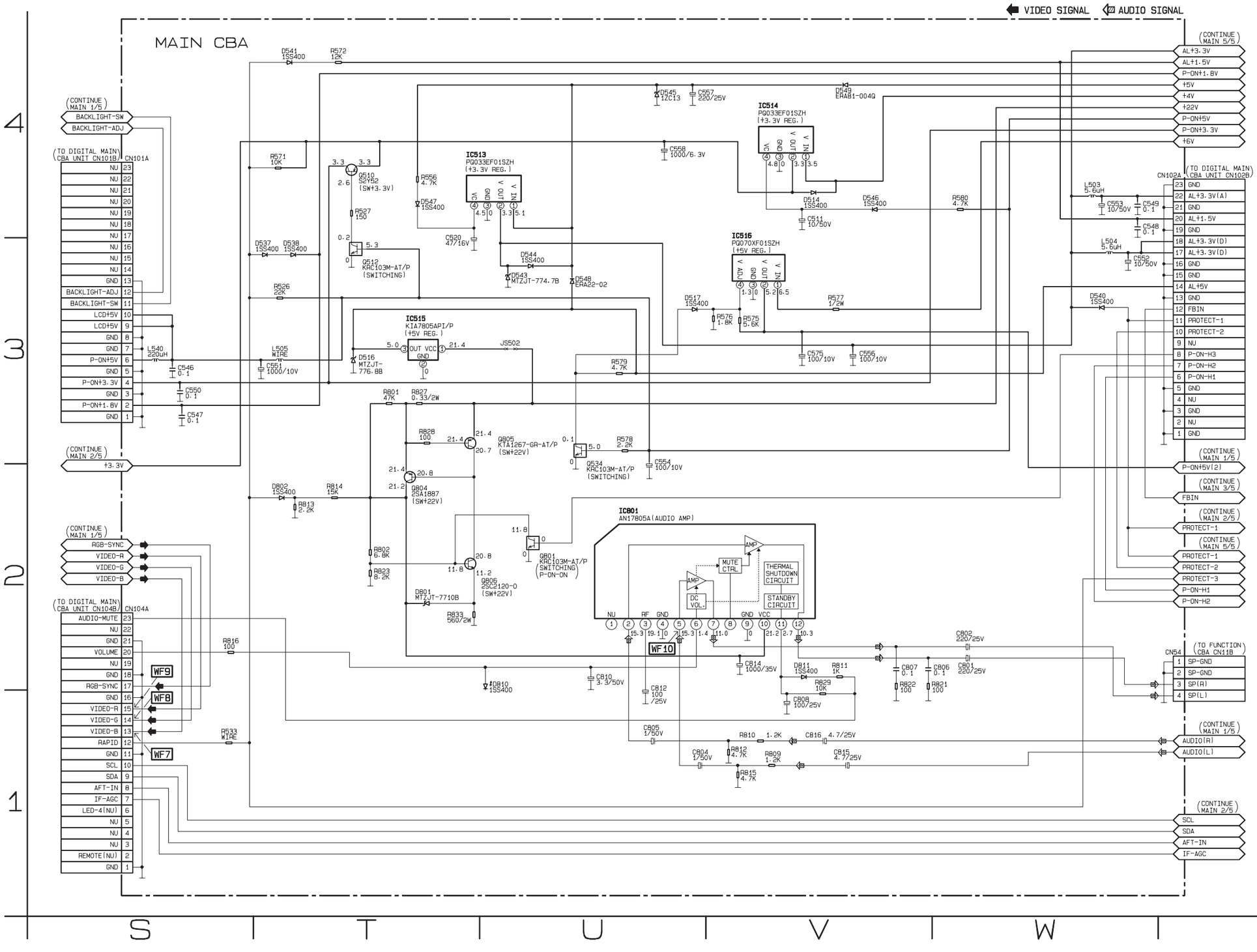
VOLTAGE CHART

CN103A

Pin No.	Voltage
1	4.6
2	4.6
3	2.5
4	2.5
5	0
6	3.8
7	0
8	0
9	0
10	0
11	2.4
12	0
13	2.5
14	2.4
15	0
16	---
17	---
18	---
19	---
20	---
21	5.0
22	5.0
23	---

Main 4/5 Schematic Diagram

 # NOTE:
is an unnecessary part of the circuit configuration;
therefore servicing is not required, for this product operates independently of this part.



VOLTAGE CHART

CN101A

Pin No.	Voltage
1	0
2	1.8
3	0
4	3.3
5	0
6	5.0
7	0
8	0
9	5.3
10	5.3
11	3.3
12	5.0
13	0
14	---
15	---
16	---
17	---
18	---
19	---
20	---
21	---
22	---
23	---

CN104A

Pin No.	Voltage
1	0
2	---
3	---
4	---
5	---
6	---
7	0
8	2.5
9	4.8
10	4.9
11	0
12	2.7
13	2.4
14	2.4
15	2.4
16	0
17	2.4
18	0
19	---
20	1.4
21	0
22	---
23	3.3

CN102A

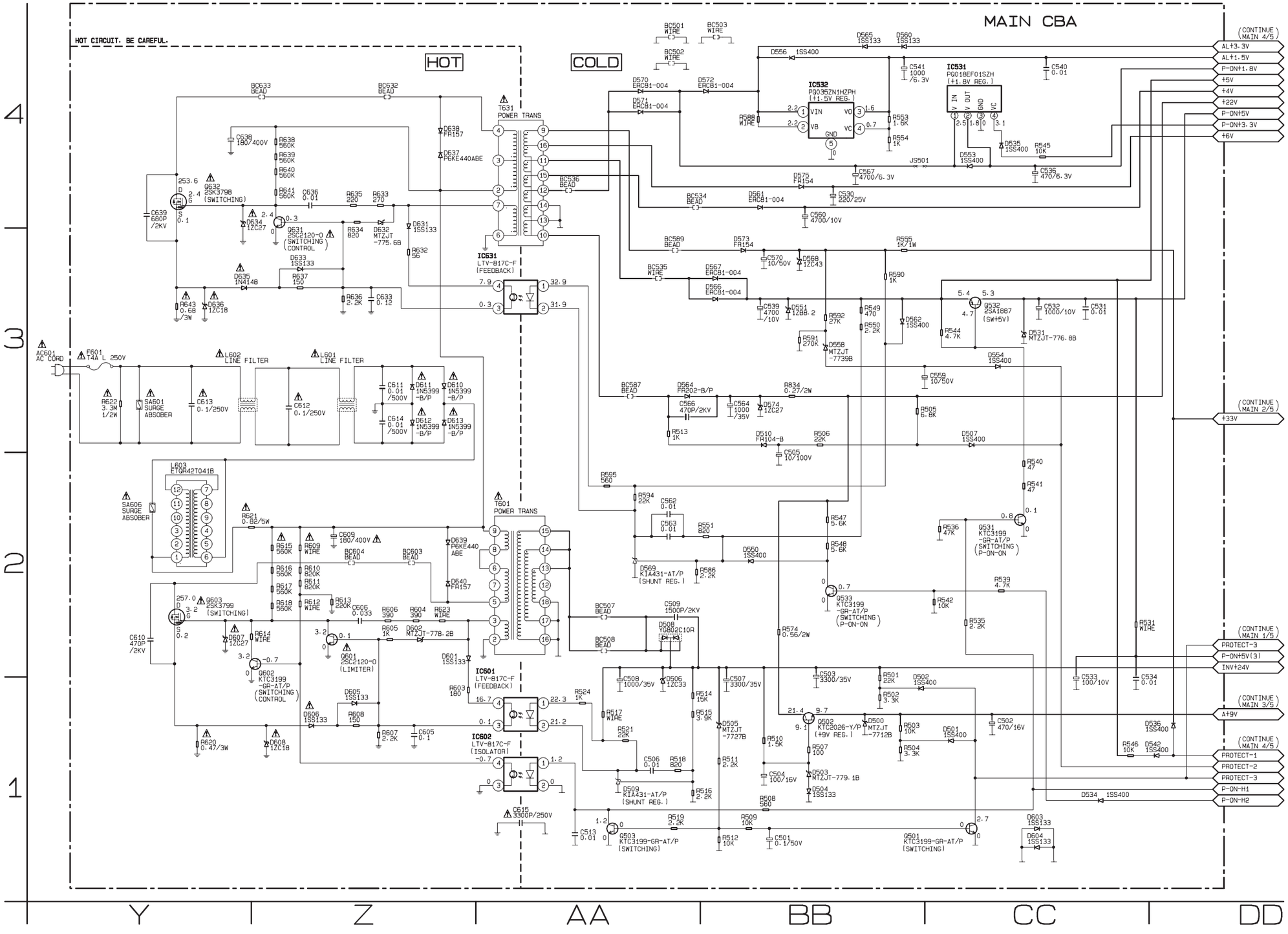
Pin No.	Voltage
1	0
2	---
3	0
4	---
5	0
6	2.7
7	3.2
8	0
9	---
10	0.2
11	3.7
12	-0.6
13	0
14	5.0
15	0
16	0
17	3.3
18	3.3
19	0
20	1.6
21	0
22	3.3
23	0

Main 5/5 Schematic Diagram

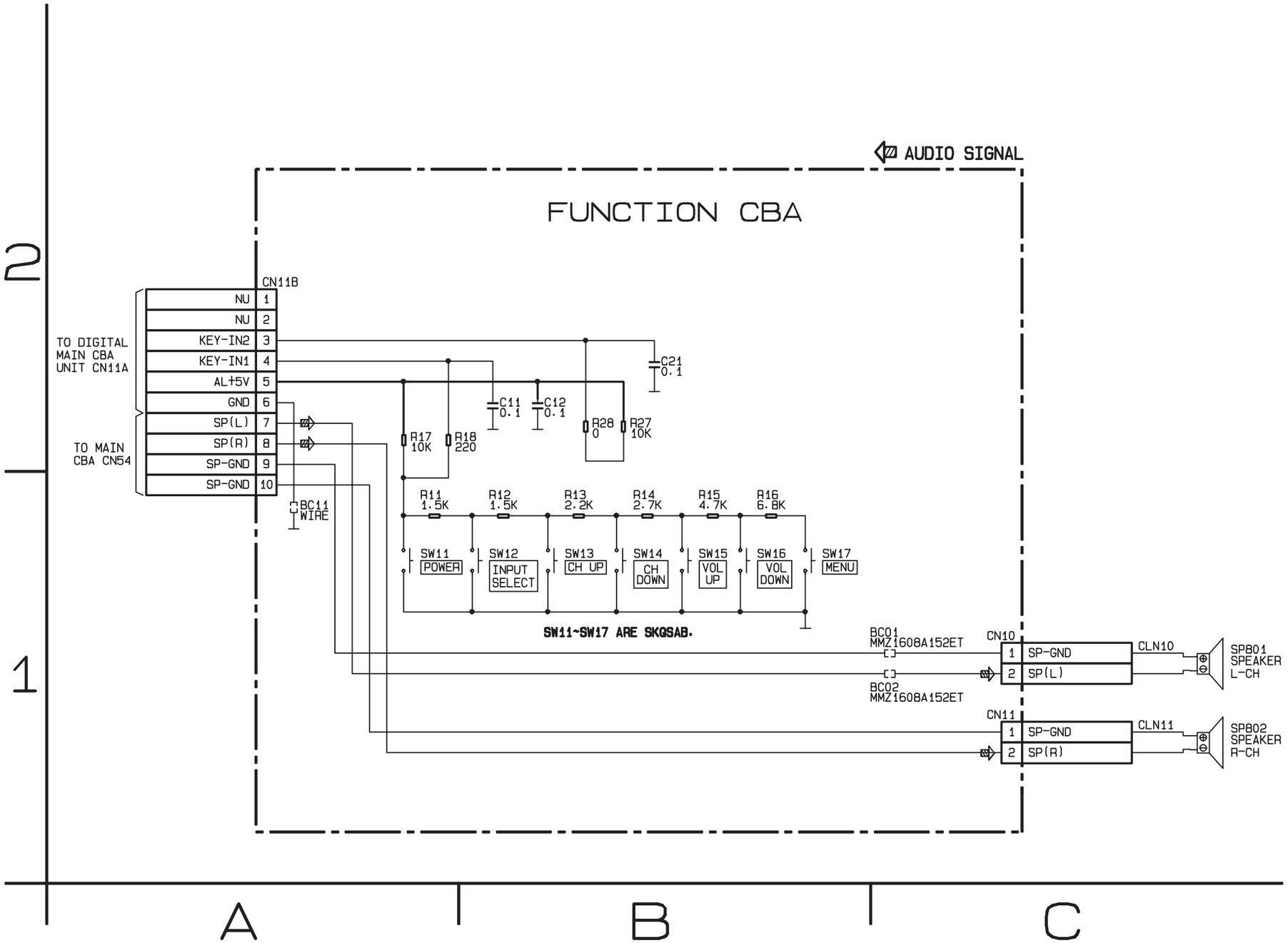
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

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.



Function Schematic Diagram

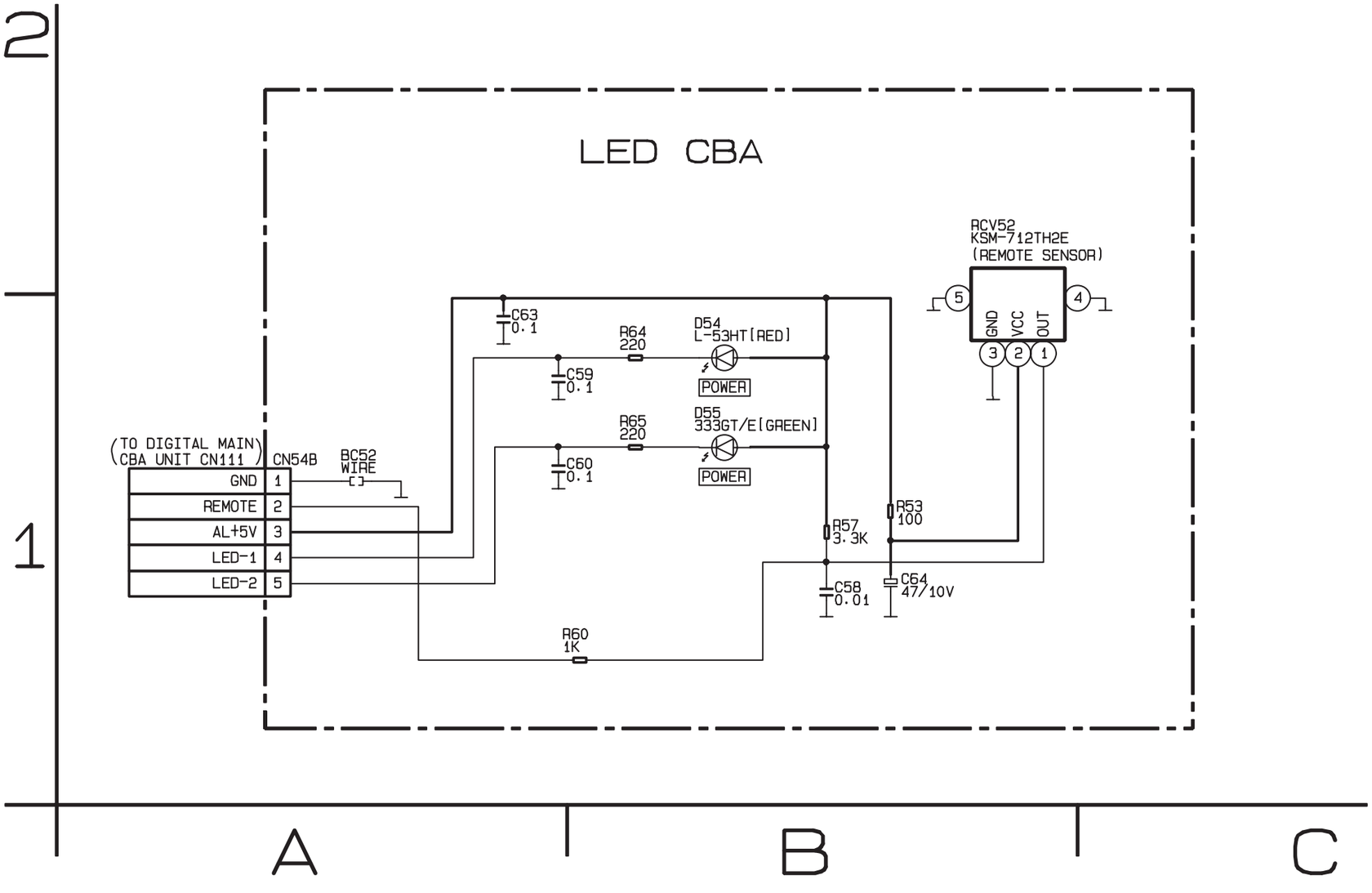


VOLTAGE CHART

CN11B

Pin No.	Voltage
1	---
2	---
3	5.0
4	5.0
5	5.0
6	0
7	5.2
8	5.2
9	0
10	0

LED Schematic Diagram

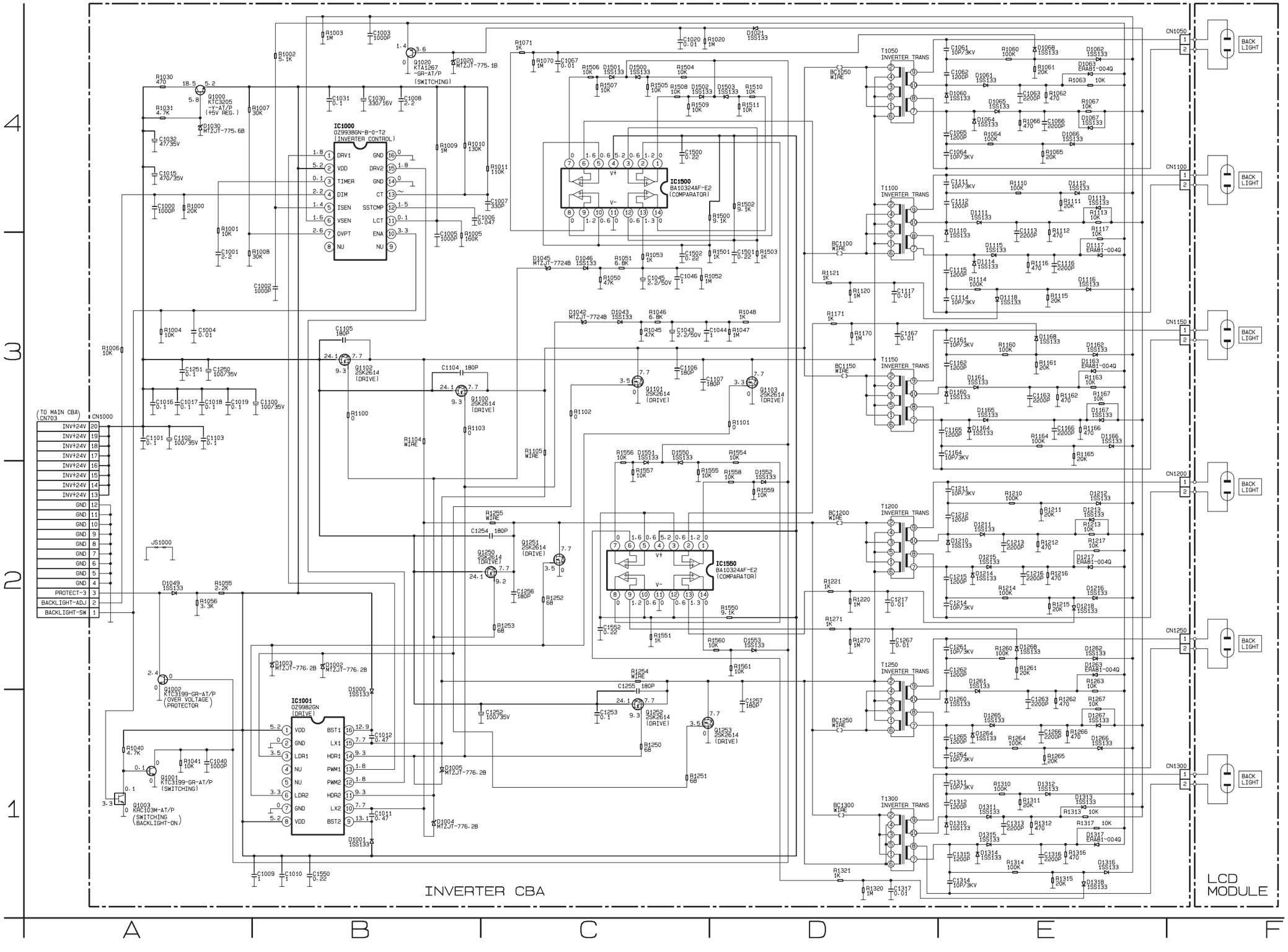


VOLTAGE CHART

CN54B

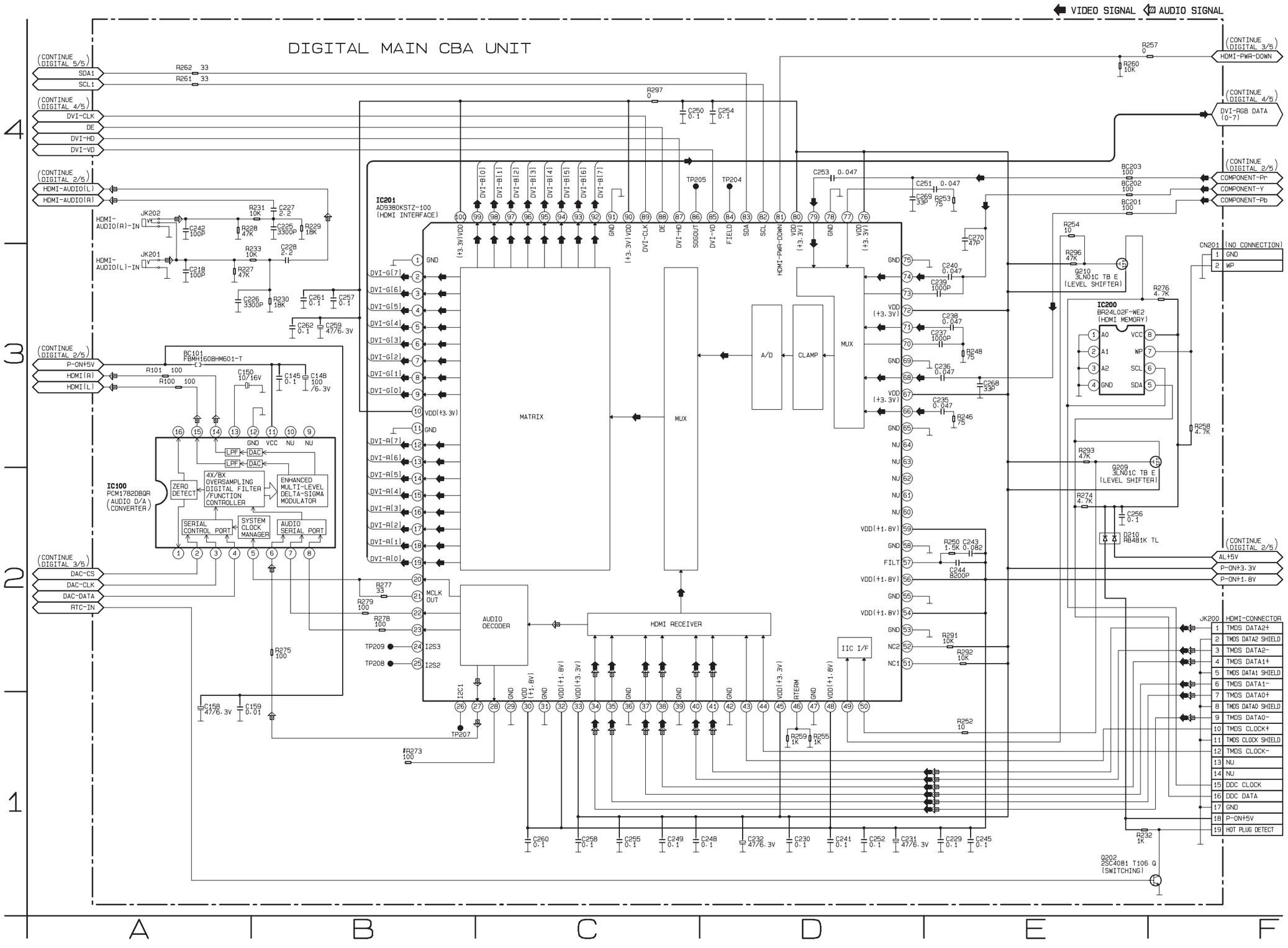
Pin No.	Voltage
1	0
2	5.0
3	5.0
4	3.5
5	0.1

Inverter Schematic Diagram

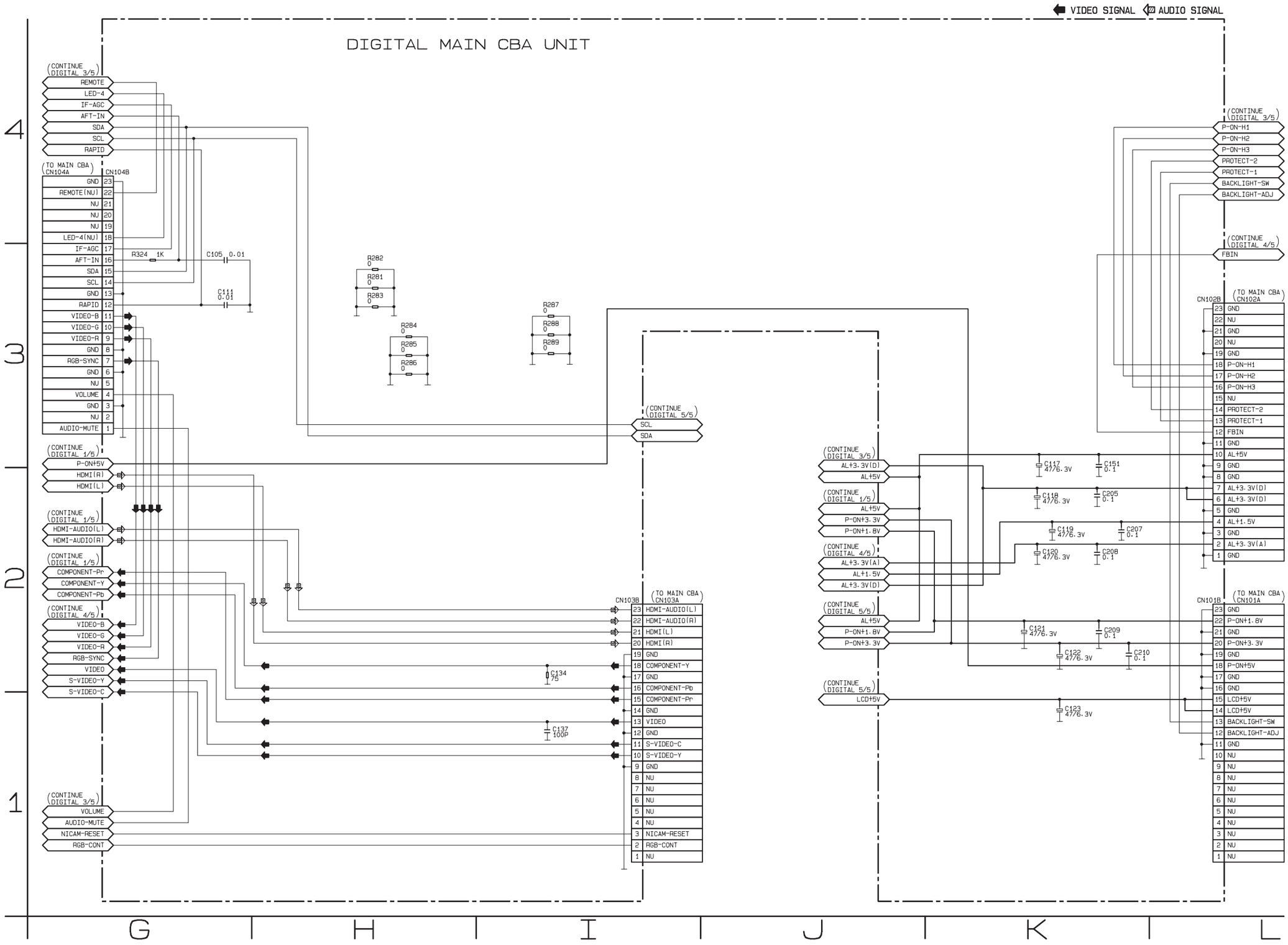


Digital Main 1/5 Schematic Diagram

 # NOTE:
is an unnecessary part of the circuit configuration;
therefore servicing is not required, for this product operates independently of this part.

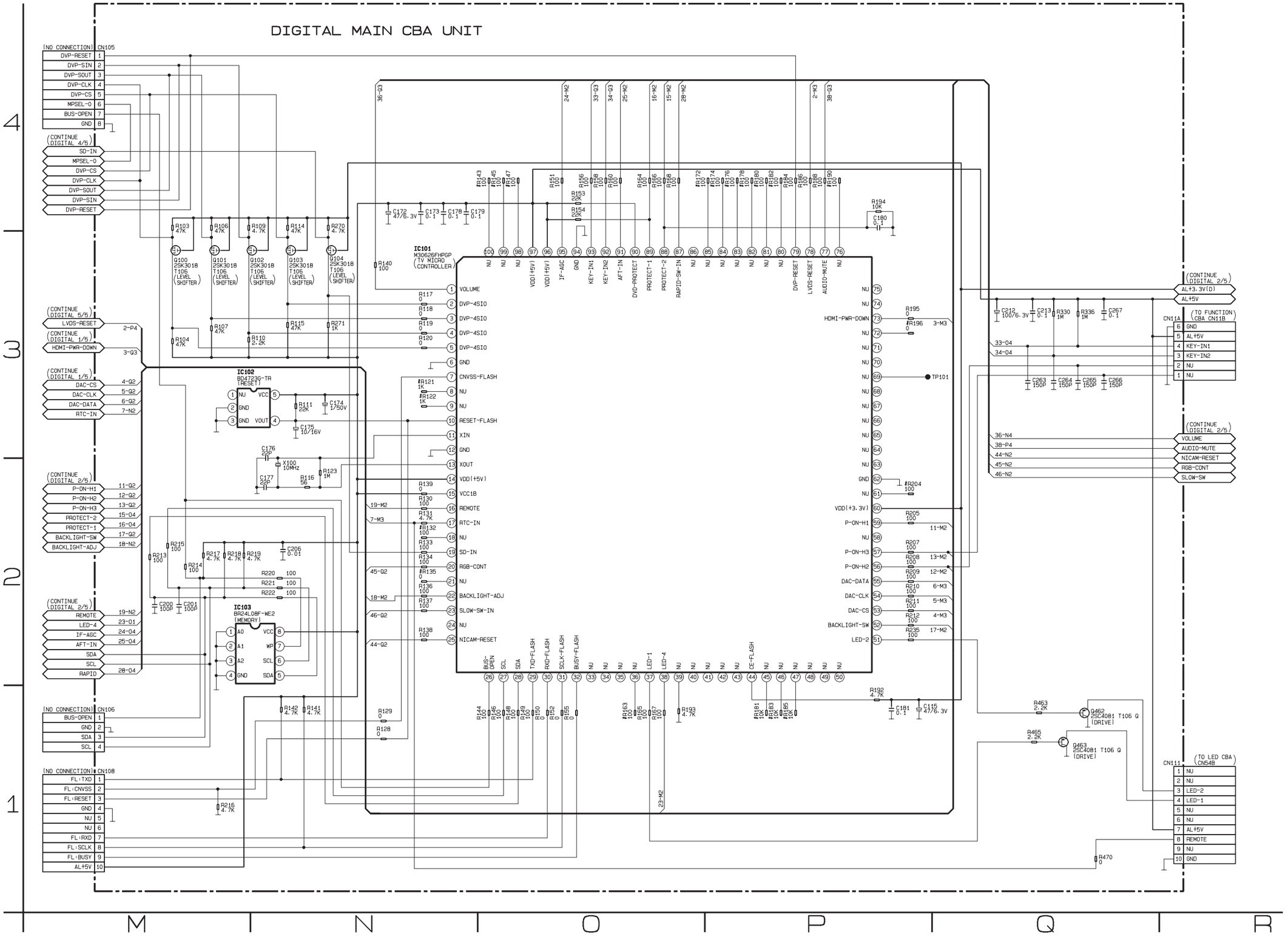


Digital Main 2/5 Schematic Diagram

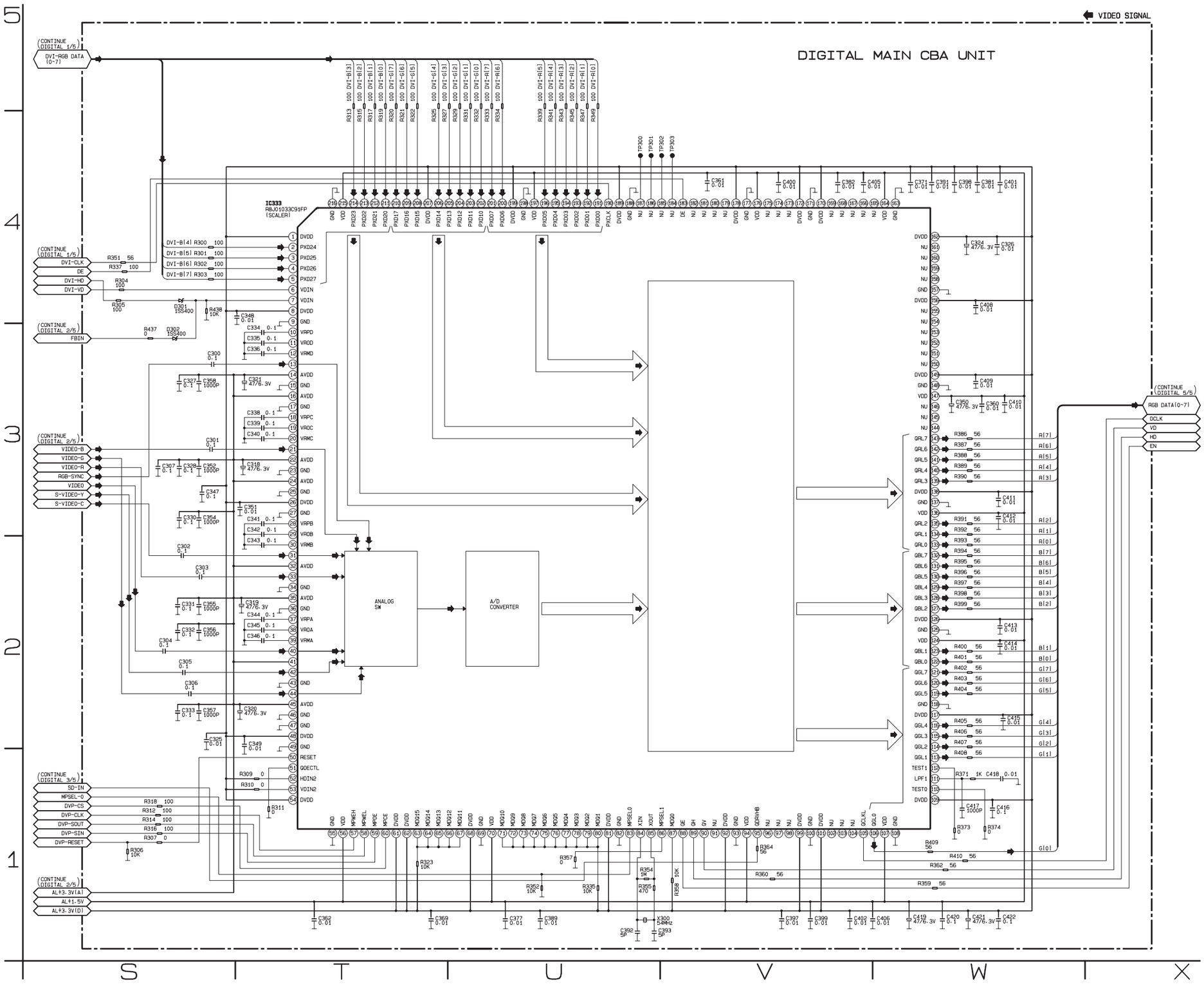


Digital Main 3/5 Schematic Diagram

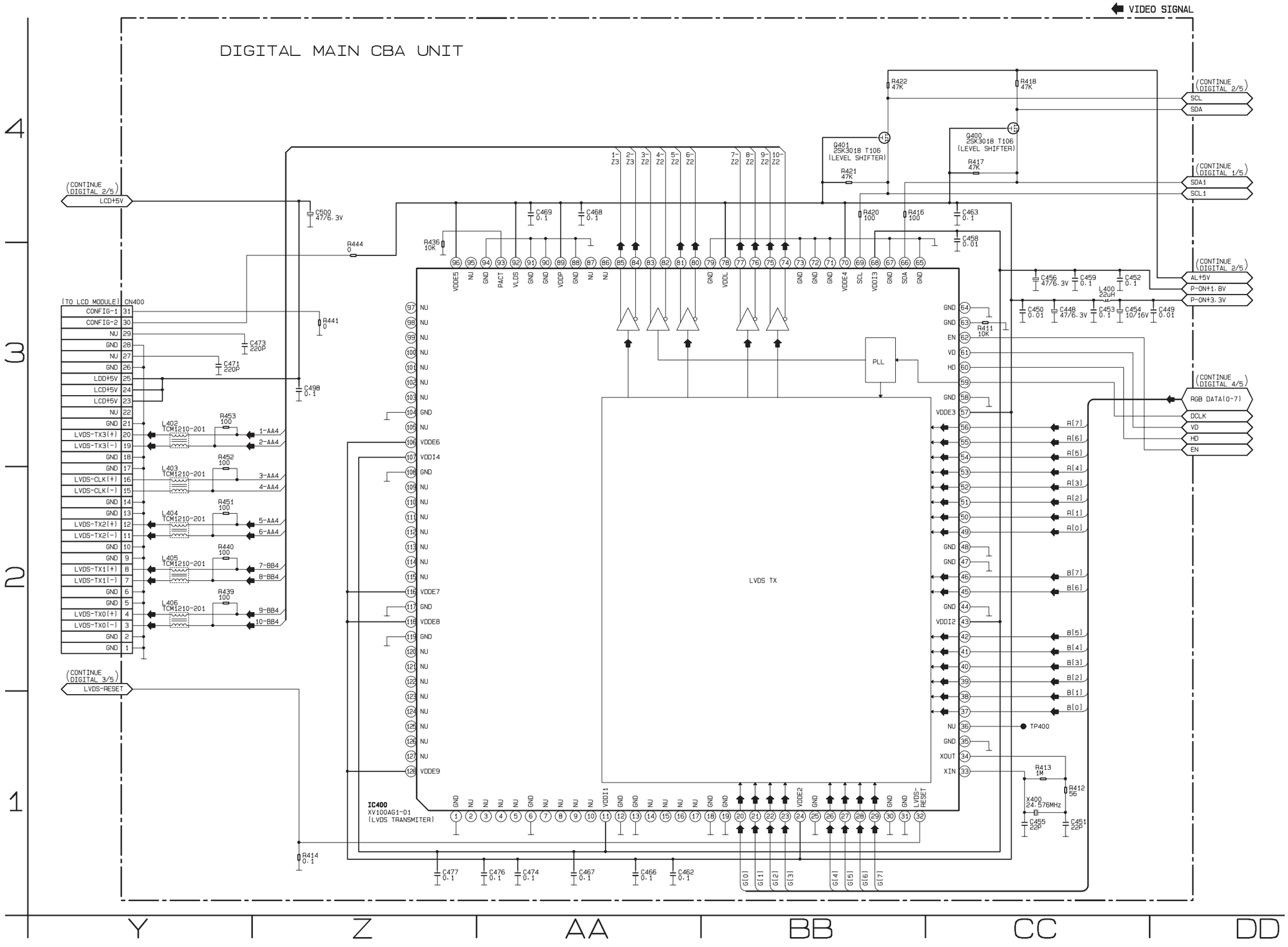
 # NOTE:
is an unnecessary part of the circuit configuration;
therefore servicing is not required, for this product operates independently of this part.



Digital Main 4/5 Schematic Diagram



Digital Main 5/5 Schematic Diagram



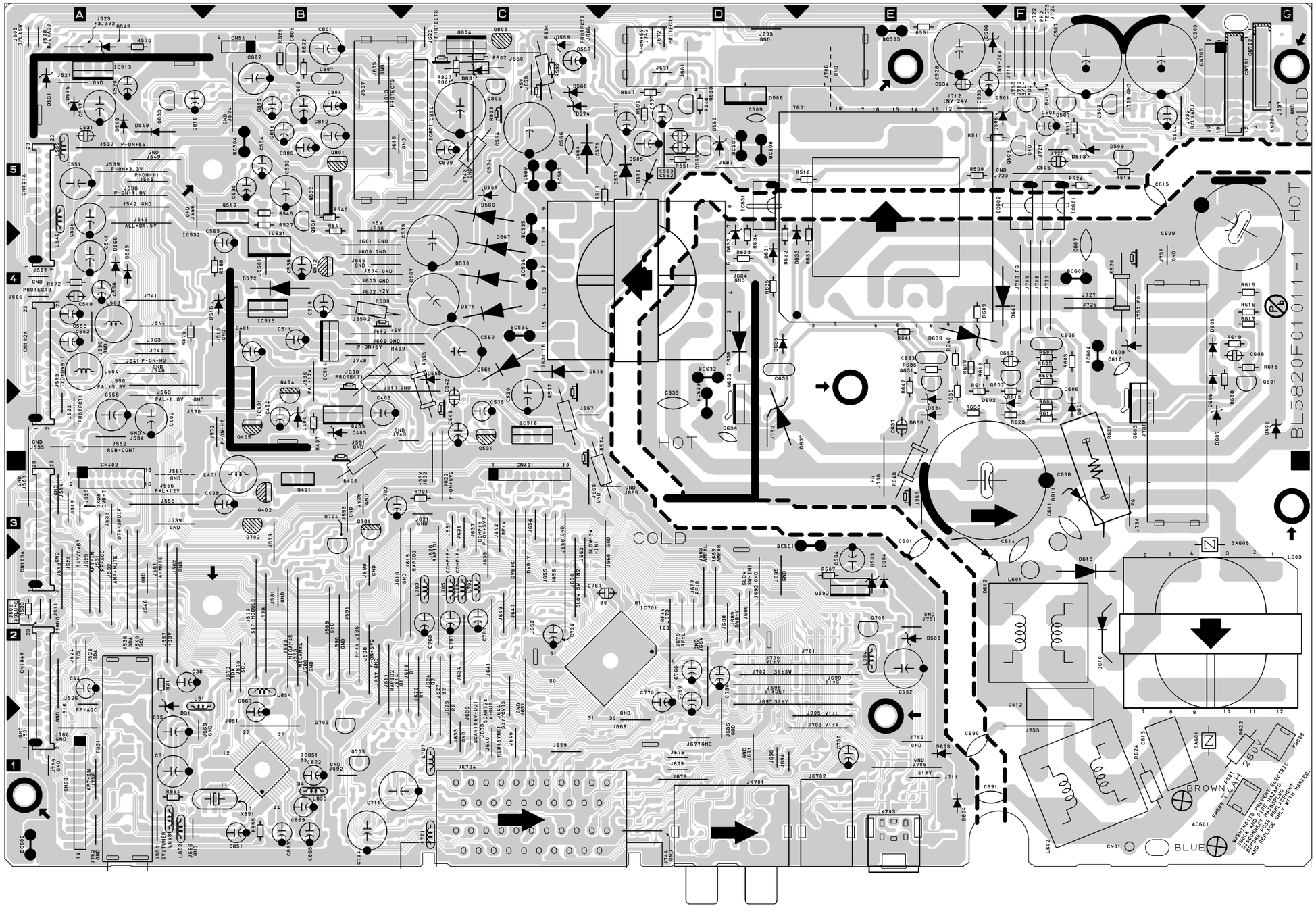
Main CBA Top View

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



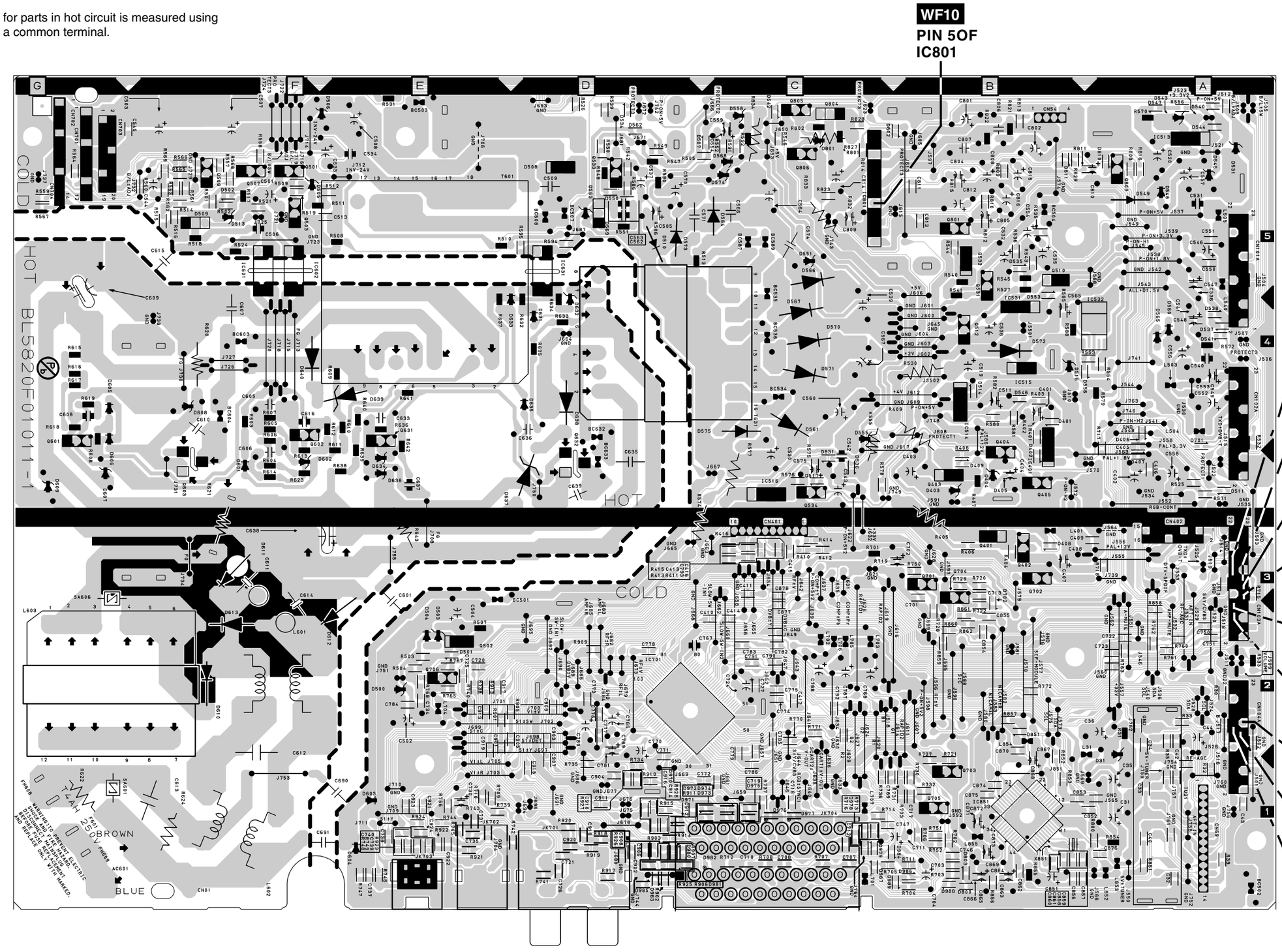
Main CBA Bottom View

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

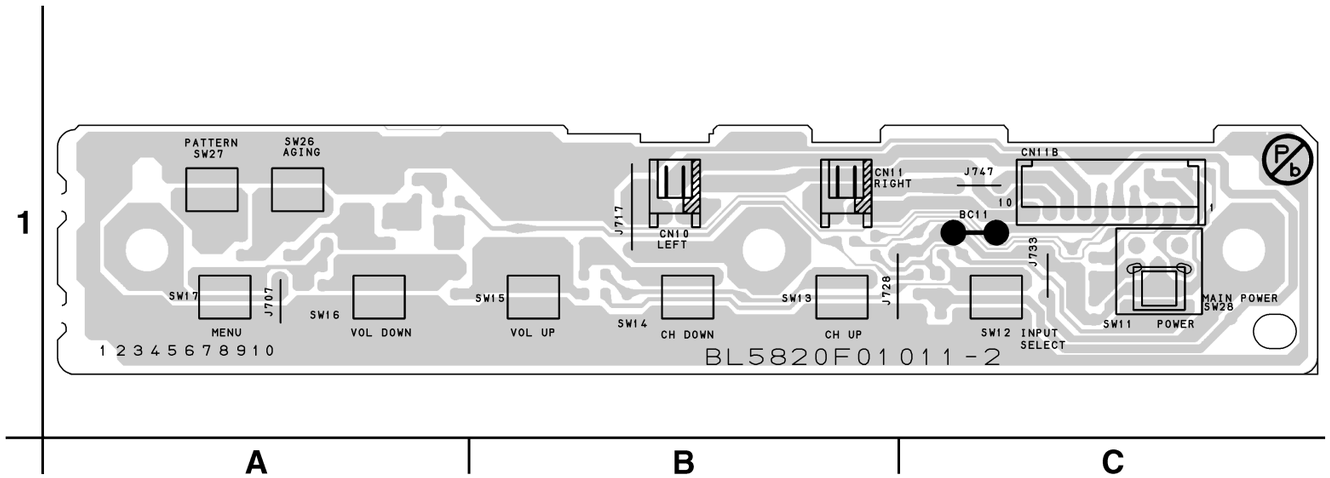
NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

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

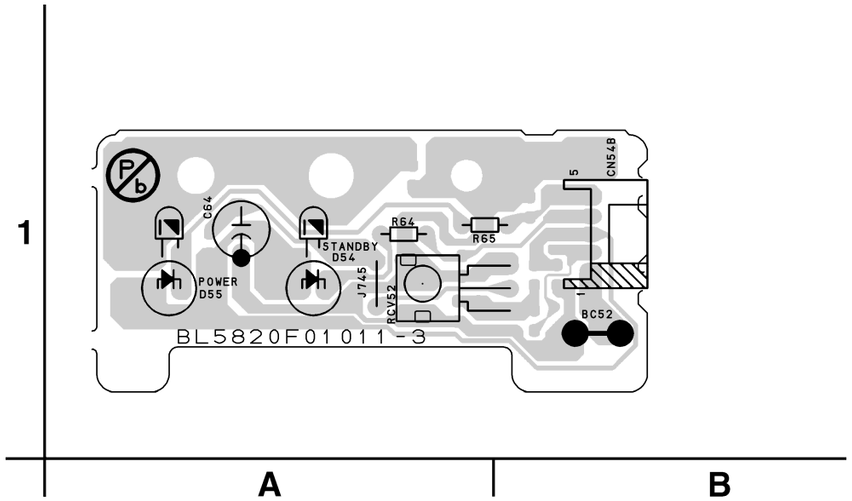
Because a hot chassis ground is present in the power supply circut, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly, when troubleshooting this type power supply circuit, a variable isolation transformer is required.



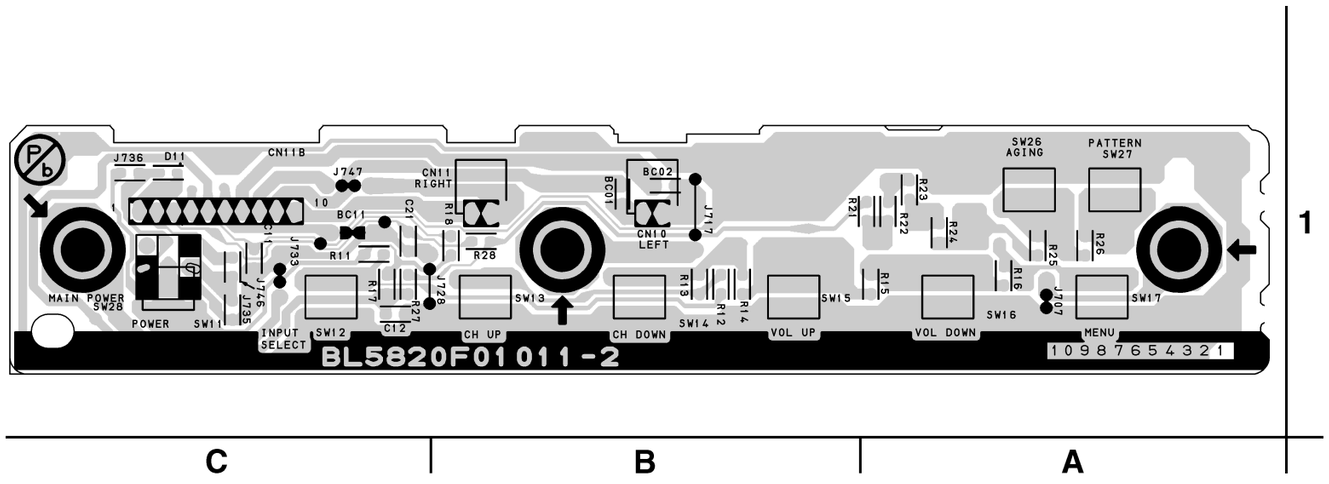
Function CBA Top View



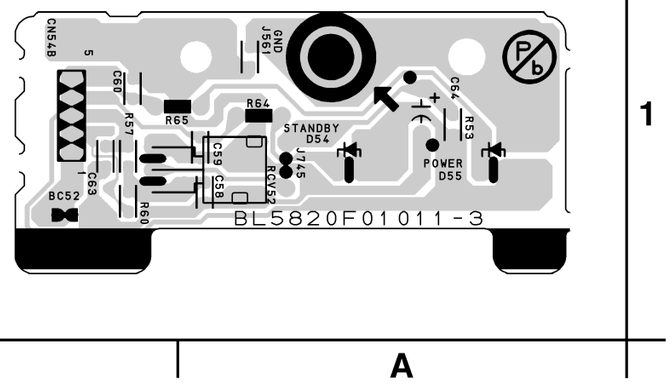
LED CBA Top View



Function CBA Bottom View



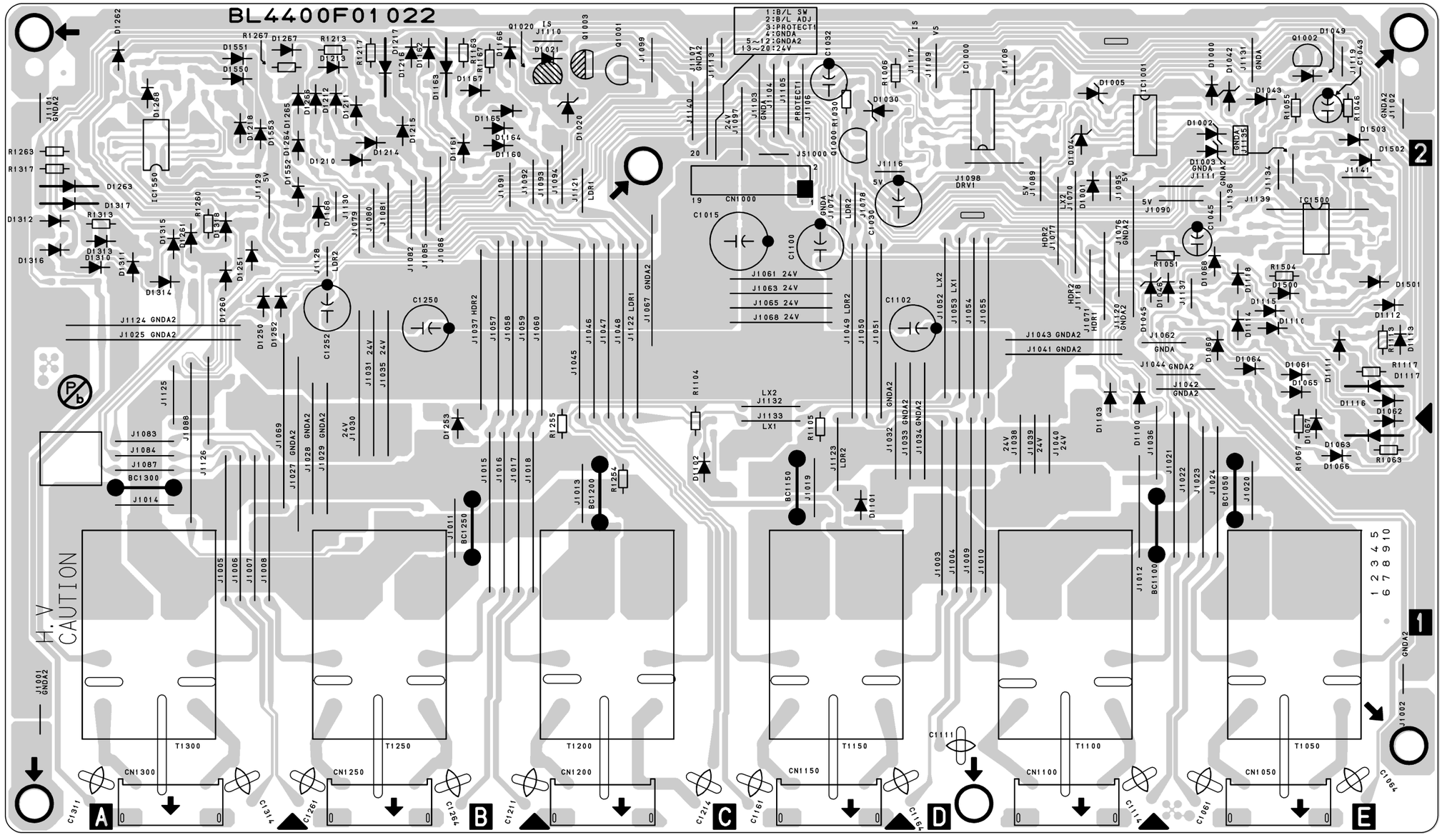
LED CBA Bottom View



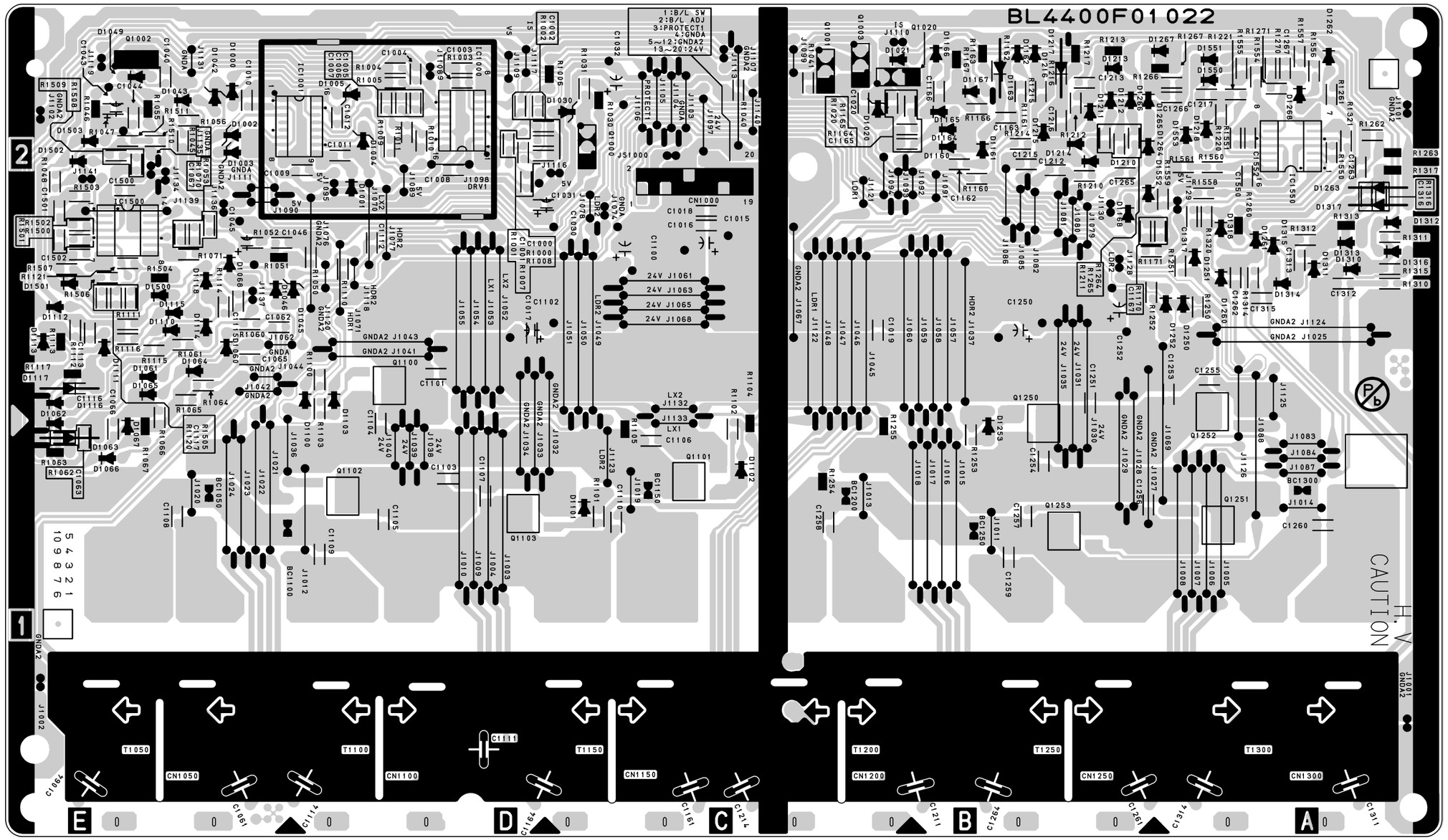
BL5820F01011-2

BL5820F01011-3

Inverter CBA Top View



Inverter CBA Bottom View

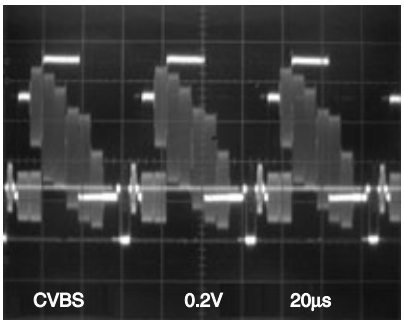


WAVEFORMS

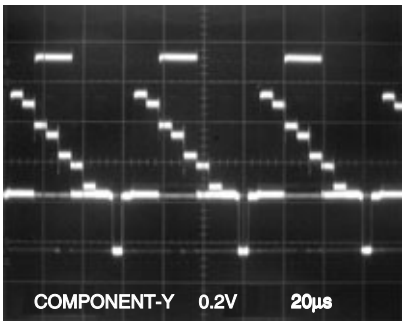
WF1 ~ WF6 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

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

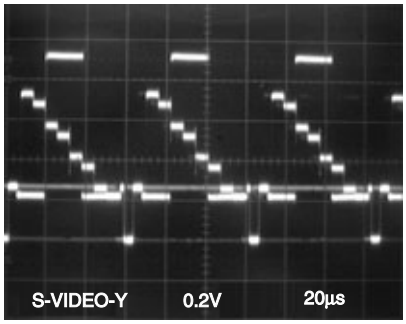
WF1 Pin 11 of CN103A



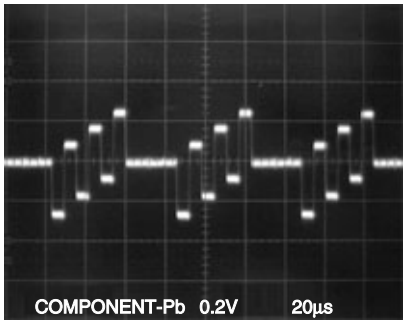
WF4 Pin 6 of CN103A



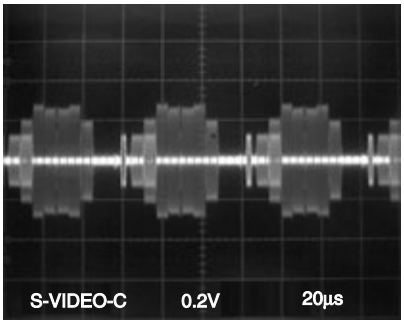
WF2 Pin 14 of CN103A



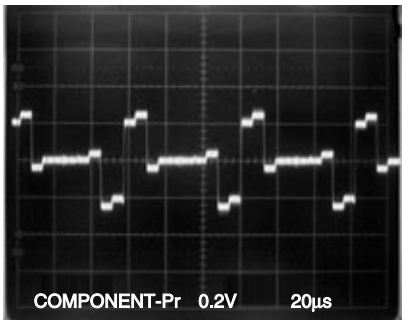
WF5 Pin 8 of CN103A



WF3 Pin 13 of CN103A



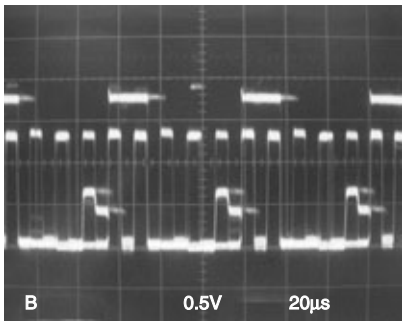
WF6 Pin 9 of CN103A



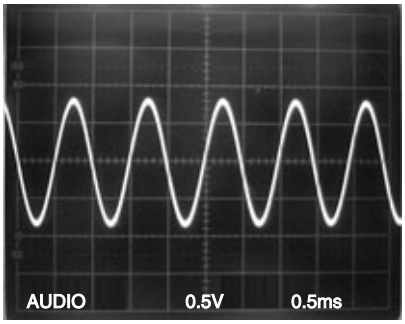
WF7 ~ WF10 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

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

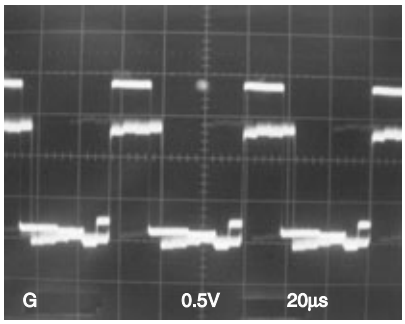
WF7 Pin 13 of CN104A



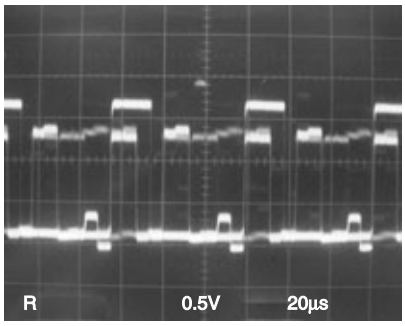
WF10 Pin 5 of IC801



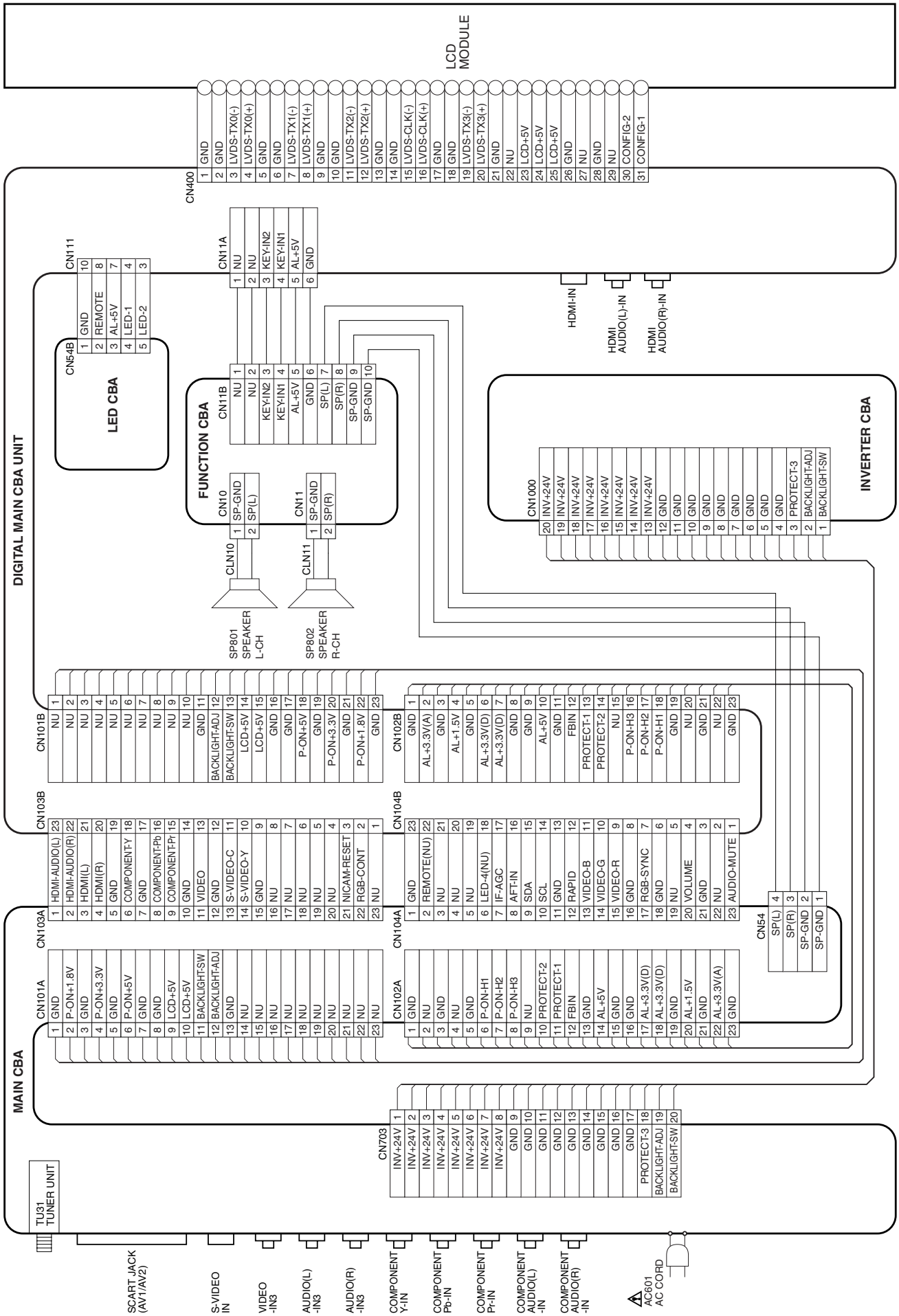
WF8 Pin 14 of CN104A



WF9 Pin 15 of CN104A

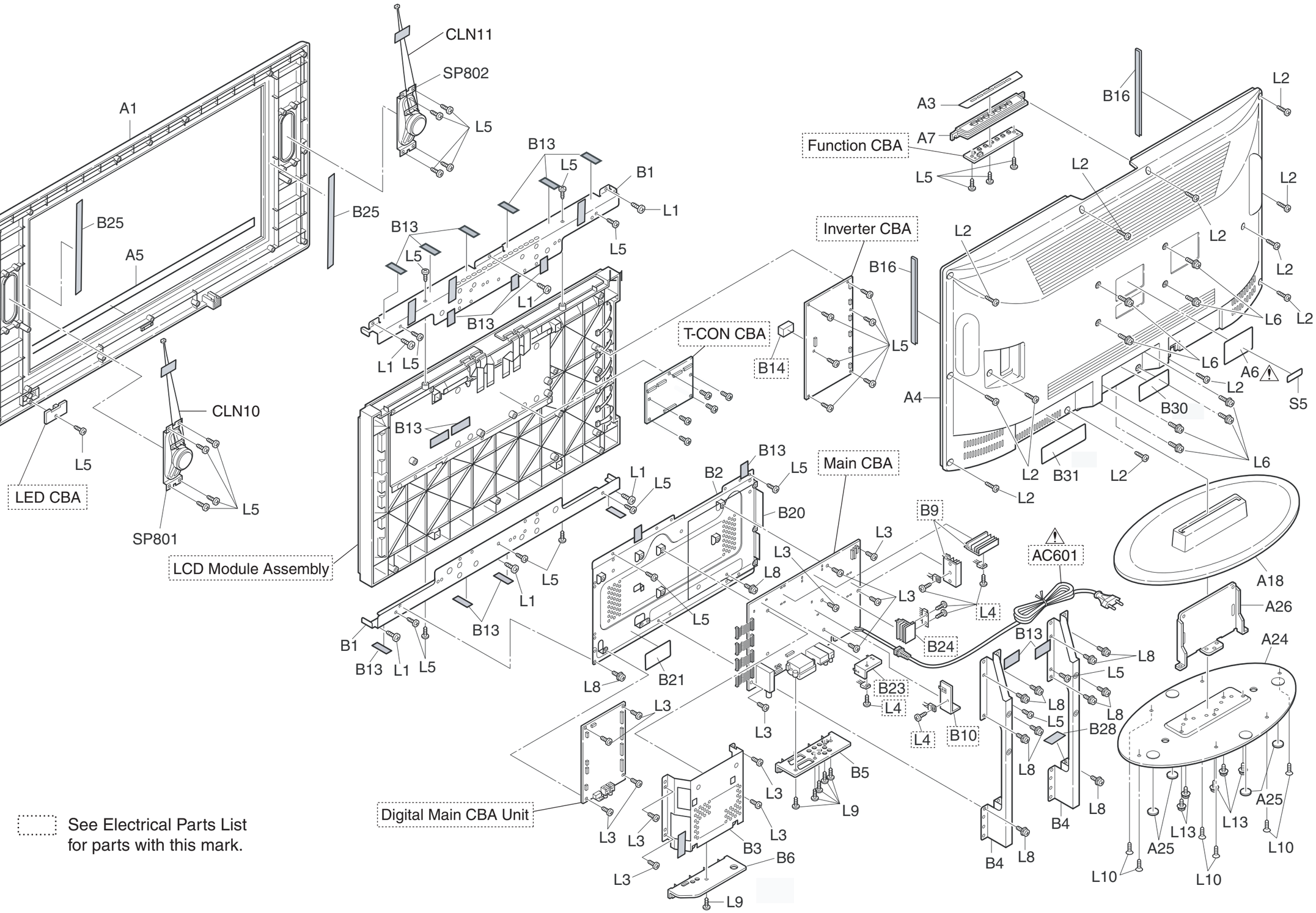


WIRING DIAGRAMS



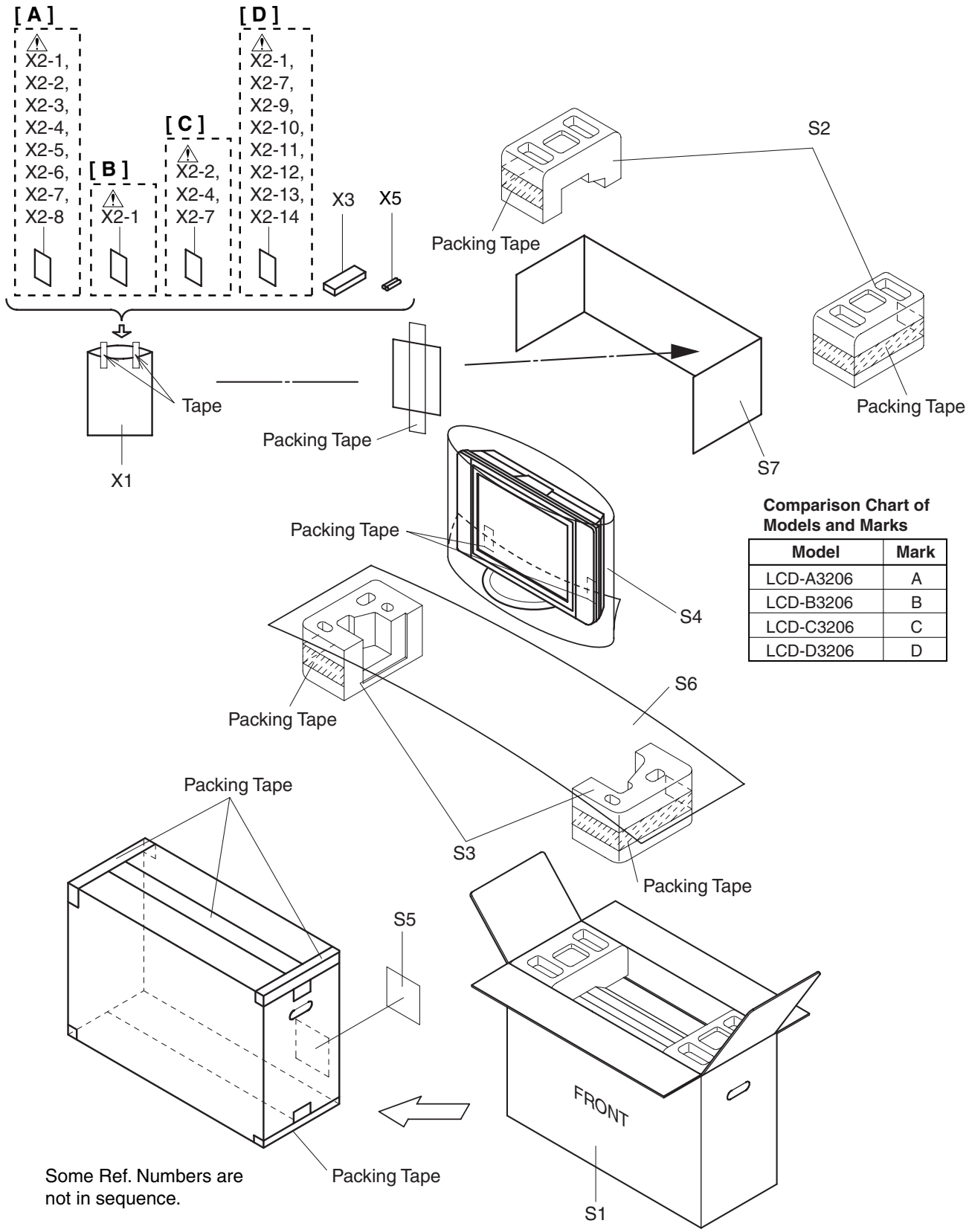
EXPLODED VIEWS

Cabinet



See Electrical Parts List for parts with this mark.

Packing



Comparison Chart of Models and Marks

Model	Mark
LCD-A3206	A
LCD-B3206	B
LCD-C3206	C
LCD-D3206	D

MECHANICAL PARTS LIST

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

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

Comparison Chart of Models and Marks

Model	Mark
LCD-A3206	A
LCD-B3206	B
LCD-C3206	C
LCD-D3206	D

Ref. No.	Mark	Description	Part No.
A1		FRONT CABINET L5920EA	1EM021477
A3		CONTROL PLATE L5820EA	1EM322257
A4		REAR CABINET L5920EA	1EM021478
A5		DECORATION PLATE L5920EA	1EM021493
A7		FUNCTION KNOB L5820EA	1EM121699
A18		STAND COVER L5920EA	1EM121716
A24		STAND BASE PLAT L5001CB	1EM021441
A25		STAND RUBBER FOOT L5001CB	1EM423855
A26		STAND HINGE L4300UA	1EM220784
B1		PANEL HOLDER L4400UA	1EM020850
B2		PCB HOLDER(JPN/PAL) L4430JA	1EM121626
B3		SHIELD BOX(PAL) L5820EA	1EM221411
B4		CHASSIS BRACKET L4300UA	1EM120993A
B5		JACK HOLDER(A) L5820EA	1EM221412
B6		JACK HOLDER(D) L5820EA	1EM221413
B16		CLOTH(10X190XT0.3) L0200UA	1EM420019
B20		INSULATION SHEET L5820EA	1EM322281
B21		CAUTION LABEL L3207UH	---------
B25		CLOTH(15X220XT1.0) L4430JA	1EM423841
B28		CLOTH(10X30XT0.5) B5900UA	0EM404486
CLN10		WIRE ASSEMBLY 005 2PIN 600MM RED BLACK	WX1L5920-005
CLN11		WIRE ASSEMBLY 001 2PIN 580MM RED BLACK	WX1L5920-001
CLN11B		WIRE ASSEMBLY 002 10PIN 440MM 300MM RE	WX1L5920-002
CLN54B		WIRE ASSEMBLY 003 5PIN 20MM RED BLACK	WX1L5920-003
CLN400		WIRE ASSEMBLY 010 25PIN 300MM AWG30 AW	WX1L4300-010
CLN401		WIRE ASSEMBLY 101 WIRE ASSEMBLY 101	WX1L5820-101
CLN703		WIRE ASSEMBLY 004 20PIN 140MM RED BLAC	WX1L5920-004
L3		SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
L9		SCREW B-TIGHT 3X10 BIND HEAD+ BLK	GBHB3100
L10		SCREW P-TIGHT M3X12 DISH HEAD+	GDJP3120
L13		DOUBLE SEMS SCREW M4X9 + BLACK L0130UA	0EM408146A
SP801		SPEAKER S0516F06	DSD0813XQ002
SP802		SPEAKER S0516F06	DSD0813XQ002
ACCESSORY			
X1		REMOTE CONTROL NF004RD NF004RD	NF004RD

Ref. No.	Mark	Description	Part No.
A6⚠	A	RATING LABEL L5920EA	---------
A6⚠	B	RATING LABEL L5921BB	---------
A6⚠	C	RATING LABEL L5922FC	---------
A6⚠	D	RATING LABEL L5923RD	---------
B13		GRAND TAPE L4300UA	1EM423095
B30		JACK LABEL(A) L5820EA	---------
B31		JACK LABEL(D) L5820EA	---------
L1		SCREW P-TIGHT 4X14 BIND HEAD	GBJP4140
L2		SCREW P-TIGHT M4X14 PAN HEAD+BLK	GPHP4140
L5		SCREW P-TIGHT 3X10 BIND HEAD+	GBJP3100
L6		DOUBLE SEMS SCREW M4X10 + BLK	FPH34100
L8		DOUBLE SEMS SCREW M4X6 M4X6	FPJ34060
PACKING			
S1	A	CARTON L5920EA	1EM322203
S1	B	CARTON L5921BB	1EM322308
S1	C	CARTON L5922FC	1EM322309
S1	D	CARTON L5923RD	1EM322310
S2		STYROFOAM TOP L5920EA	1EM021479
S3		STYROFOAM BOTTOM L5920EA	1EM021480
S4		SET BAG L5820EA	1EM322297
S5	A	SERIAL NO. LABEL L5920EA	---------
S5	B	SERIAL NO. LABEL L5921BB	---------
S5	C	SERIAL NO. LABEL L5922FC	---------
S5	D	SERIAL NO. LABEL L5923RD	---------
S6		STAND SHEET L5820EA	1EM423791
S7		HOLD PAD L5920EA	1EM423852
ACCESSORIES			
X1		BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X2-1⚠	A,B,D	OWNERS MANUAL(EN) L5820EA	1EMN21993
X2-2⚠	A,C	OWNERS MANUAL(FR) L5820EA	1EMN21994
X2-3⚠	A	OWNERS MANUAL(EL) L5820EA	1EMN21995
X2-4⚠	A,C	OWNERS MANUAL(IT) L5820EA	1EMN21996
X2-5⚠	A	OWNERS MANUAL(ES) L5820EA	1EMN21997
X2-6⚠	A	ONWERS MANUAL(NL) L5820EA	1EMN21998
X2-7⚠	A,C,D	OENERS MANUAL(DE) L5820EA	1EMN21999
X2-8⚠	A	OWNERS MANUAL(SV) L5820EA	1EMN22000
X2-9⚠	D	OWNERS MANUAL(PL) L5820EA	1EMN22006
X2-10⚠	D	OWNERS MANUAL(RU) L5820EA	1EMN22007
X2-11⚠	D	OWNERS MANUAL(HU) L5820EA	1EMN22008
X2-12⚠	D	OWNERS MANUAL(CS) L5820EA	1EMN22009
X2-13⚠	D	OWNERS MANUAL(SK) L5820EA	1EMN22010
X2-14⚠	D	OWNERS MANUAL(AR) L5820EA	1EMN22011
X5		BATTERY R6RC/2P	XB0M601MS001

ELECTRICAL PARTS LIST

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

NOTES:

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

C.....±0.25% D.....±0.5% F.....±1%

G.....±2% J.....±5% K.....±10%

M.....±20% N.....±30% Z.....+80/-20%

Comparison Chart of Models and Marks

Model	Mark
LCD-A3206	A
LCD-B3206	B
LCD-C3206	C
LCD-D3206	D

LCD MODULE ASSEMBLY

Ref. No.	Description	Part No.
	LCD MODULE ASSEMBLY Consists of the following:	UD320EA
	T-CON CBA CELL ACF ASSEMBLY BACKLIGHT ASSEMBLY	1FSA10140 --------- ---------

DIGITAL MAIN CBA UNIT

Ref. No.	Description	Part No.
	DIGITAL MAIN CBA UNIT	1ESA13573

MMA CBA

Ref. No.	Description	Part No.
	MMA CBA Consists of the following:	1ESA14777
	MAIN CBA FUNCTION CBA LED CBA	--------- --------- ---------

MAIN CBA

Ref. No.	Description	Part No.
	MAIN CBA Consists of the following:	---------
	CAPACITORS	
C31	ELECTROLYTIC CAP. 100µF/35V M or	CE1GMASDL101
	ELECTROLYTIC CAP. 100µF/35V M or	CE1GMASTM101
	ELECTROLYTIC CAP. 100µF/35V M	CA1G101SP085
C32	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C33	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C34	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C35	ELECTROLYTIC CAP. 100µF/35V M or	CE1GMASDL101
	ELECTROLYTIC CAP. 100µF/35V M or	CE1GMASTM101
	ELECTROLYTIC CAP. 100µF/35V M	CA1G101SP085
C36	ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
	ALUMINUM ELECTROLYTIC CAP 10µF/50V M or	CE1JMASTM100
	ELECTROLYTIC CAP. 10µF/50V M	CA1J100SP085
C40	CHIP CERAMIC CAP.(1608) CH J 22pF/50V	CHD1JJ3CH220
C42	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C43	CHIP CERAMIC CAP. F Z 0.1µF/50V	CHD1JZB0F104
C44	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASDL100
	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASTM100
	ELECTROLYTIC CAP. 10µF/16V M	CA1C100SP085
C405	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C501	ELECTROLYTIC CAP. 0.1µF/50V M or	CE1JMASDL0R1
	ALUMINUM ELECTROLYTIC CAP 0.1µF/50V M or	CE1JMASTMR10
	ELECTROLYTIC CAP. 0.1µF/50V M	CA1JR10SP085
C502	ELECTROLYTIC CAP. 470µF/16V M or	CE1CMASDL471
	ELECTROLYTIC CAP. 470µF/16V M or	CE1CMASTM471
	ELECTROLYTIC CAP. 470µF/16V M	CA1C471SP085
C503	ELECTROLYTIC CAP. 3300µF/35V M or	CE1GMZNDL332
	CAP ELE 3300µF/35V M	CE1GMZPDL332
C504	ELECTROLYTIC CAP. 100µF/16V M or	CE1CMASDL101
	ELECTROLYTIC CAP. 100µF/16V M or	CE1CMASTM101
	ELECTROLYTIC CAP. 100µF/16V M	CA1C101SP085
C505	ELECTROLYTIC CAP. 10µF/100V M or	CE2AMASDL100
	ALUMINUM ELECTROLYTIC CAP 10µF/100V M	CE2AMASTM100
C506	CERAMIC CAP.(AX) B K 0.1µF/50V	CA1J104TU011
C507	ELECTROLYTIC CAP. 3300µF/35V M or	CE1GMZNDL332
	CAP ELE 3300µF/35V M	CE1GMZPDL332
C508	ALUMINUM ELECTROLYTIC CAP 1000µF/35V M or	CE1GMZNTM102
	ELECTROLYTIC CAP. 1000µF/35V M or	CE1GMZPDL102
	ELECTROLYTIC CAP. 1000µF/35V M or	CE1GMZADL102
	ELECTROLYTIC CAP. 1000µF/35V M	CA1G102SP084
C509	CERAMIC CAP. R K 1500pF/2KV(HR) or	CCD3DKA0R152
	CERAMIC CAP. 1500pF/2KV or	CA3D152PAN04
	CERAMIC CAP. BL 1500pF/2KV	CA3D152XF003
C511	ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
	ALUMINUM ELECTROLYTIC CAP 10µF/50V M or	CE1JMASTM100
	ELECTROLYTIC CAP. 10µF/50V M	CA1J100SP085
C513	CHIP CERAMIC CAP. F Z 0.01µF/50V	CHD1JZ30F103
C520	ELECTROLYTIC CAP. 47µF/16V M or	CE1CMASDL470
	ALUMINUM ELECTROLYTIC CAP 47µF/16V M or	CE1CMASTM470
	ELECTROLYTIC CAP. 47µF/16V M	CA1C470SP085
C530	ELECTROLYTIC CAP. 220µF/25V M or	CE1EMASDL221
	ELECTROLYTIC CAP. 220µF/25V M or	CE1EMASTM221
	ELECTROLYTIC CAP. 220µF/25V M	CA1E221SP085
C531	CERAMIC CAP.(AX) F Z 0.01µF/25V	CDA1EZT0F103
C532	ELECTROLYTIC CAP. 1000µF/10V M or	CE1AMASDL102
	ALUMINUM ELECTROLYTIC CAP 1000µF/10V M or	CE1AMASTM102
	ELECTROLYTIC CAP. 1000µF/10V M	CA1A102SP085
C533	ELECTROLYTIC CAP. 100µF/10V M or	CE1AMASDL101
	ELECTROLYTIC CAP. 100µF/10V M or	CE1AMASTM101
	ELECTROLYTIC CAP. 100µF/10V M	CA1A101SP085
C534	CERAMIC CAP.(AX) F Z 0.01µF/25V	CDA1EZT0F103
C536	ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
	ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASTM471
	ELECTROLYTIC CAP. 470µF/6.3V M	CA0K471SP085
C539	ELECTROLYTIC CAP. 4700µF/10V M P=7.5 or	CE1AMZNDL472
	ELECTROLYTIC CAP. 4700µF/10V M	CE1AMZPDL472
C540	CERAMIC CAP.(AX) F Z 0.01µF/25V	CDA1EZT0F103
C541	ELECTROLYTIC CAP. 1000µF/6.3V M or	CE0KMASDL102
	ELECTROLYTIC CAP. 1000µF/6.3V M or	CE0KMASTM102
	ELECTROLYTIC CAP. 1000µF/6.3V M	CA0K102SP085
C545	CHIP CERAMIC CAP. F Z 0.01µF/50V	CHD1JZ30F103

Ref. No.	Description	Part No.
C546	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C547	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C548	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C549	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C550	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C551	ELECTROLYTIC CAP. 1000μF/10V M or	CE1AMASDL102
	ALUMINUM ELECTROLYTIC CAP 1000μF/10V M or	CE1AMASTM102
	ELECTROLYTIC CAP. 1000μF/10V M	CA1A102SP085
C552	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	ALUMINUM ELECTROLYTIC CAP 10μF/50V M or	CE1JMASTM100
	ELECTROLYTIC CAP. 10μF/50V M	CA1J100SP085
C553	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	ALUMINUM ELECTROLYTIC CAP 10μF/50V M or	CE1JMASTM100
	ELECTROLYTIC CAP. 10μF/50V M	CA1J100SP085
C554	ELECTROLYTIC CAP. 100μF/10V M or	CE1AMASDL101
	ELECTROLYTIC CAP. 100μF/10V M or	CE1AMASTM101
	ELECTROLYTIC CAP. 100μF/10V M	CA1A101SP085
C556	ELECTROLYTIC CAP. 100μF/10V M or	CE1AMASDL101
	ELECTROLYTIC CAP. 100μF/10V M or	CE1AMASTM101
	ELECTROLYTIC CAP. 100μF/10V M	CA1A101SP085
C557	ELECTROLYTIC CAP. 220μF/25V M or	CE1EMASDL221
	ELECTROLYTIC CAP. 220μF/25V M or	CE1EMASTM221
	ELECTROLYTIC CAP. 220μF/25V M	CA1E221SP085
C558	ELECTROLYTIC CAP. 1000μF/6.3V M or	CE0KMASDL102
	ELECTROLYTIC CAP. 1000μF/6.3V M or	CE0KMASTM102
	ELECTROLYTIC CAP. 1000μF/6.3V M	CA0K102SP085
C559	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	ALUMINUM ELECTROLYTIC CAP 10μF/50V M or	CE1JMASTM100
	ELECTROLYTIC CAP. 10μF/50V M	CA1J100SP085
C560	ELECTROLYTIC CAP. 4700μF/10V M P=7.5 or	CE1AMZNDL472
	ELECTROLYTIC CAP. 4700μF/10V M	CE1AMZPDL472
C562	CERAMIC CAP.(AX) B K 0.01μF/50V	CA1J103TU011
C563	CERAMIC CAP.(AX) B K 0.01μF/50V	CA1J103TU011
C564	ALUMINUM ELECTROLYTIC CAP 1000μF/35V M or	CE1GMZNTM102
	ELECTROLYTIC CAP. 1000μF/35V M or	CE1GMZPDL102
	ELECTROLYTIC CAP. 1000μF/35V M or	CE1GMZADL102
	ELECTROLYTIC CAP. 1000μF/35V M	CA1G102SP084
C566	CERAMIC CAP. BN 470pF/2KV or	CCD3DKA0B471
	CERAMIC CAP. 470pF/2KV or	CA3D471PAN04
	CERAMIC CAP. RB 470pF/2KV or	CA3D471TE006
	CERAMIC CAP. BL 470pF/2KV or	CA3D471XF003
	CERAMIC CAP. HR 470pF/2KV	CCD3DKA0R471
C567	CAP ELE STD-85 4700μF 6.3V SL or	CE0KMZNDL472
	ELECTROLYTIC CAP. 4700μF/6.3V SM	CE0KMZPDL472
C570	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
	ALUMINUM ELECTROLYTIC CAP 10μF/50V M or	CE1JMASTM100
	ELECTROLYTIC CAP. 10μF/50V M	CA1J100SP085
C575	ELECTROLYTIC CAP. 100μF/10V M or	CE1AMASDL101
	ELECTROLYTIC CAP. 100μF/10V M or	CE1AMASTM101
	ELECTROLYTIC CAP. 100μF/10V M	CA1A101SP085
C605	FILM CAP.(P) 0.1μF/50V J or	CA1J104MS029
	FILM CAP.(P) 0.1μF/50V J or	CMA1JJS00104
	CAP POLYESTER FILM 0.1μF/50V J	CA1J104SER04
C606	FILM CAP.(P) 0.033μF/50V J or	CA1J333MS029
	FILM CAP.(P) 0.033μF/50V J or	CMA1JJS00333
	CAP POLYESTER FILM 0.033μF/50V J	CA1J333SER04
C609⚠	ELECTROLYTIC CAPACITOR 180μF/400V	CA2H181NC229
C610	CERAMIC CAP. BN 470pF/2KV or	CCD3DKA0B471
	CERAMIC CAP. 470pF/2KV or	CA3D471PAN04
	CERAMIC CAP. RB 470pF/2KV or	CA3D471TE006
	CERAMIC CAP. BL 470pF/2KV or	CA3D471XF003
	CERAMIC CAP. HR 470pF/2KV	CCD3DKA0R471
C611	CERAMIC CAP. B K 0.01μF/500V	CCD2JKP0B103

Ref. No.	Description	Part No.
C612⚠	ACROSS THE LINE CAP. 0.1U/250V or	CT2E104DC015
⚠	ACROSS THE LINE CAP. 0.1μF/250V K or	CT2E104DC011
⚠	METALIZED FILM CAP. 0.1μF/250V	CT2E104MS037
C613⚠	ACROSS THE LINE CAP. 0.1U/250V or	CT2E104DC015
⚠	ACROSS THE LINE CAP. 0.1μF/250V K or	CT2E104DC011
⚠	METALIZED FILM CAP. 0.1μF/250V	CT2E104MS037
C614	CERAMIC CAP. B K 0.01μF/500V	CCD2JKP0B103
C615⚠	SAFETY CAP. 3300pF/250V KX	CA2E332MR050
C633	FILM CAP.(P) 0.12μF/50V J or	CA1J124MS029
	STACKED FILM CAP. 0.12μF/50V J or	CMA1JJS00124
	CAP POLYESTER FILM 0.12μF/50V J	CA1J124SER04
C636	FILM CAP.(P) 0.01μF/50V J or	CA1J103MS029
	FILM CAP.(P) 0.01μF/50V J or	CMA1JJS00103
	CAP POLYESTER FILM 0.01μF/50V J	CA1J103SER04
C638	ELECTROLYTIC CAPACITOR 180μF/400V	CA2H181NC226
C639	CERAMIC CAP. R K 680pF/2KV(HR) or	CCD3DKA0R681
	CERAMIC CAP. 680pF/2KV or	CA3D681PAN04
	CERAMIC CAP. BL 680pF/2KV	CA3D681XF003
C701	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C702	ELECTROLYTIC CAP. 100μF/6.3V M or	CE0KMASDL101
	ELECTROLYTIC CAP. 100μF/6.3V M or	CE0KMASTM101
	ELECTROLYTIC CAP. 100μF/6.3V M	CA0K101SP085
C703	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C704	ELECTROLYTIC CAP. 470μF/16V M or	CE1CMASDL471
	ELECTROLYTIC CAP. 470μF/16V M or	CE1CMASTM471
	ELECTROLYTIC CAP. 470μF/16V M	CA1C471SP085
C707	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C708	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C710	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C711	ELECTROLYTIC CAP. 470μF/16V M or	CE1CMASDL471
	ELECTROLYTIC CAP. 470μF/16V M or	CE1CMASTM471
	ELECTROLYTIC CAP. 470μF/16V M	CA1C471SP085
C712	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C713	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	CHD1JK30B473
C716	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C717	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C719	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C720	CHIP RES.(1608) 1/10W 0 Ω or	RRXAJR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
C721	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C722	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C723	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C724	ELECTROLYTIC CAP. 47μF/16V M or	CE1CMASDL470
	ALUMINUM ELECTROLYTIC CAP 47μF/16V M or	CE1CMASTM470
	ELECTROLYTIC CAP. 47μF/16V M	CA1C470SP085
C725	CHIP RES.(1608) 1/10W 0 Ω or	RRXAJR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
C726	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C727	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C730	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
C734	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C735	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C737	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C738	CHIP CERAMIC CAP. F Z 0.047μF/50V	CHD1JZ30F473
C739	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C740	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C746	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C747	CHIP CERAMIC CAP. F Z 0.47μF/16V	CHD1CZ30F474
C750	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C751	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C766	ELECTROLYTIC CAP. 47μF/16V M or	CE1CMASDL470
	ALUMINUM ELECTROLYTIC CAP 47μF/16V M or	CE1CMASTM470
	ELECTROLYTIC CAP. 47μF/16V M	CA1C470SP085
C767	CERAMIC CAP.(AX) F Z 0.1μF/50V	CA1J104TU014
C768	ELECTROLYTIC CAP. 47μF/16V M or	CE1CMASDL470

Ref. No.	Description	Part No.
	ALUMINUM ELECTROLYTIC CAP 47µF/16V M or	CE1CMASTM470
	ELECTROLYTIC CAP. 47µF/16V M	CA1C470SP085
C769	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASDL100
	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASTM100
	ELECTROLYTIC CAP. 10µF/16V M	CA1C100SP085
C770	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASDL100
	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASTM100
	ELECTROLYTIC CAP. 10µF/16V M	CA1C100SP085
C771	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C772	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C773	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C774	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C775	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C776	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C777	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C778	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C779	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C780	ELECTROLYTIC CAP. 47µF/16V M or	CE1CMASDL470
	ALUMINUM ELECTROLYTIC CAP 47µF/16V M or	CE1CMASTM470
	ELECTROLYTIC CAP. 47µF/16V M	CA1C470SP085
C781	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C782	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C783	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C784	CHIP CERAMIC CAP.(1608) B K 0.1µF/50V	CHD1JK30B104
C785	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C786	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V	CHD1EZ30F104
C787	ELECTROLYTIC CAP. 47µF/16V M or	CE1CMASDL470
	ALUMINUM ELECTROLYTIC CAP 47µF/16V M or	CE1CMASTM470
	ELECTROLYTIC CAP. 47µF/16V M	CA1C470SP085
C788	ELECTROLYTIC CAP. 47µF/16V M or	CE1CMASDL470
	ALUMINUM ELECTROLYTIC CAP 47µF/16V M or	CE1CMASTM470
	ELECTROLYTIC CAP. 47µF/16V M	CA1C470SP085
C789	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C790	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C791	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C792	CHIP CERAMIC CAP. F Z 0.47µF/10V	CHD1AZ30F474
C801	ELECTROLYTIC CAP. 220µF/25V M or	CE1EMASDL221
	ELECTROLYTIC CAP. 220µF/25V M or	CE1EMASTM221
	ELECTROLYTIC CAP. 220µF/25V M	CA1E221SP085
C802	ELECTROLYTIC CAP. 220µF/25V M or	CE1EMASDL221
	ELECTROLYTIC CAP. 220µF/25V M or	CE1EMASTM221
	ELECTROLYTIC CAP. 220µF/25V M	CA1E221SP085
C804	ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL1R0
	ELECTROLYTIC CAP 1µF/50V M or	CE1JMASTM1R0
	ELECTROLYTIC CAP 1µF/50V M	CA1J1R0SP085
C805	ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL1R0
	ELECTROLYTIC CAP 1µF/50V M or	CE1JMASTM1R0
	ELECTROLYTIC CAP 1µF/50V M	CA1J1R0SP085
C806	FILM CAP.(P) 0.1µF/50V J or	CA1J104MS029
	FILM CAP.(P) 0.1µF/50V J or	CMA1JJS00104
	CAP POLYESTER FILM 0.1µF/50V J	CA1J104SER04
C807	FILM CAP.(P) 0.1µF/50V J or	CA1J104MS029
	FILM CAP.(P) 0.1µF/50V J or	CMA1JJS00104
	CAP POLYESTER FILM 0.1µF/50V J	CA1J104SER04
C808	ELECTROLYTIC CAP. 100µF/25V M or	CE1EMASDL101
	ALUMINUM ELECTROLYTIC CAP 100µF/25V M or	CE1EMASTM101
	ELECTROLYTIC CAP. 100µF/25V M	CA1E101SP085
C810	ELECTROLYTIC CAP. 3.3µF/50V M or	CE1JMASDL3R3
	ALUMINUM ELECTROLYTIC CAP 3.3µF/50V M or	CE1JMASTM3R3
	ELECTROLYTIC CAP. 3.3µF/50V M	CA1J3R3SP085
C812	ELECTROLYTIC CAP. 100µF/25V M or	CE1EMASDL101
	ALUMINUM ELECTROLYTIC CAP 100µF/25V M or	CE1EMASTM101
	ELECTROLYTIC CAP. 100µF/25V M	CA1E101SP085

Ref. No.	Description	Part No.
C814	ALUMINUM ELECTROLYTIC CAP 1000µF/35V M or	CE1GMZNTM102
	ELECTROLYTIC CAP. 1000µF/35V M or	CE1GMZPDL102
	ELECTROLYTIC CAP. 1000µF/35V M or	CE1GMZADL102
	ELECTROLYTIC CAP. 1000µF/35V M	CA1G102SP084
C815	ELECTROLYTIC CAP. 4.7µF/25V M or	CE1EMASDL4R7
	ELECTROLYTIC CAP. 4.7µF/25V M or	CA1E4R7SP085
	ALUMINUM ELECTROLYTIC CAP 4.7µF/25V M	CE1EMASTM4R7
C816	ELECTROLYTIC CAP. 4.7µF/25V M or	CE1EMASDL4R7
	ELECTROLYTIC CAP. 4.7µF/25V M or	CA1E4R7SP085
	ALUMINUM ELECTROLYTIC CAP 4.7µF/25V M	CE1EMASTM4R7
C851	ELECTROLYTIC CAP. 100µF/10V M or	CE1AMASDL101
	ELECTROLYTIC CAP. 100µF/10V M or	CE1AMASTM101
	ELECTROLYTIC CAP. 100µF/10V M	CA1A101SP085
C852	CHIP CERAMIC CAP. CH J 150pF/50V	CHD1JJ3CH151
C853	CHIP CERAMIC CAP. CH J 150pF/50V	CHD1JJ3CH151
C854	CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105
C855	CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105
C857	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C858	CHIP CERAMIC CAP. CH D 3pF/50V	CHD1JD3CH3R0
C859	CHIP CERAMIC CAP. CH D 3pF/50V	CHD1JD3CH3R0
C860	CHIP CERAMIC CAP.(1608) CH J 68pF/50V	CHD1JJ3CH680
C861	CHIP CERAMIC CAP.(1608) CH J 68pF/50V	CHD1JJ3CH680
C862	CHIP CERAMIC CAP. F Z 0.47µF/16V	CHD1CZ30F474
C863	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASDL100
	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASTM100
	ELECTROLYTIC CAP. 10µF/16V M	CA1C100SP085
C864	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C865	ELECTROLYTIC CAP. 3.3µF/50V M or	CE1JMASDL3R3
	ALUMINUM ELECTROLYTIC CAP 3.3µF/50V M or	CE1JMASTM3R3
	ELECTROLYTIC CAP. 3.3µF/50V M	CA1J3R3SP085
C866	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C867	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASDL100
	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASTM100
	ELECTROLYTIC CAP. 10µF/16V M	CA1C100SP085
C868	CHIP CERAMIC CAP. F Z 0.01µF/50V	CHD1JZ30F103
C869	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASDL100
	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASTM100
	ELECTROLYTIC CAP. 10µF/16V M	CA1C100SP085
C872	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASDL100
	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASTM100
	ELECTROLYTIC CAP. 10µF/16V M	CA1C100SP085
C873	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	CHD1JZ30F104
C874	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C875	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C876	CHIP CERAMIC CAP.(1608) CH J 22pF/50V	---------
C877	CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105
C878	CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105
C901	CHIP CERAMIC CAP. F Z 2.2µF/10V	CHD1AZ30F225
C902	CHIP CERAMIC CAP.(1608) CH J 270pF/50V	CHD1JJ3CH271
C903	CHIP CERAMIC CAP. F Z 2.2µF/10V	CHD1AZ30F225
C905	CHIP CERAMIC CAP. F Z 2.2µF/10V	CHD1AZ30F225
C906	CHIP CERAMIC CAP.(1608) CH J 270pF/50V	CHD1JJ3CH271
C907	CHIP CERAMIC CAP. F Z 2.2µF/10V	CHD1AZ30F225
C909	CHIP CERAMIC CAP. F Z 2.2µF/10V	CHD1AZ30F225
C910	CHIP CERAMIC CAP.(1608) CH J 270pF/50V	CHD1JJ3CH271
C911	CHIP CERAMIC CAP. F Z 2.2µF/10V	CHD1AZ30F225
C913	CHIP CERAMIC CAP. F Z 2.2µF/10V	CHD1AZ30F225
C914	CHIP CERAMIC CAP.(1608) CH J 270pF/50V	CHD1JJ3CH271
C915	CHIP CERAMIC CAP. F Z 2.2µF/10V	CHD1AZ30F225
C917	CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105
C918	CHIP CERAMIC CAP. B K 270pF/50V	CHD1JK30B271
C919	CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105
C920	CHIP CERAMIC CAP. B K 270pF/50V	CHD1JK30B271
C921	CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105
C922	CHIP CERAMIC CAP. B K 270pF/50V	CHD1JK30B271
C923	CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105

Ref. No.	Description	Part No.
C924	CHIP CERAMIC CAP. B K 270pF/50V	CHD1JK30B271
	CONNECTORS	
CN01	TERMINAL PRINTBORD PIN MS-PIN155155	JTEA001CHY01
CN54	PH CONNECTOR TOP 4P B4B-PH-K-S (LF)(SN)	J3PHC04JG029
CN101A	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN102A	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN103A	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN104A	TWG CONNECTOR 23P TWG-P23P-A1	J3TWA23TG001
CN703	PH CONNECTOR TOP 20P B20B-PHDSS-B(LF)(SN)	J3F5D20JG003
	DIODES	
D31	ZENER DIODE MTZJT-7733B or	QDTB00MTZJ33
	ZENER DIODE DZ-33BSBT265	NDTB00DZ33BS
D500	ZENER DIODE MTZJT-7712B or	QDTB00MTZJ12
	ZENER DIODE DZ-12BSBT265	NDTB00DZ12BS
D501	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D502	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D503	ZENER DIODE MTZJT-779.1B or	QDTB0MTZJ9R1
	ZENER DIODE DZ-9.1BSBT265	NDTB0DZ9R1BS
D504	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	SWITCHING DIODE 1N4148	NDTZ001N4148
D505	ZENER DIODE MTZJT-7727B or	QDTB00MTZJ27
	ZENER DIODE DZ-27BSBT265	NDTB00DZ27BS
D506	DIODE 1ZC33(Q)	QDLZ001ZC33Q
D507	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D508	DIODE SCHOTTKY YG802C10R	QDQZYG802C10
D509	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D510	DIODE FR104-B or	NDLZ000FR104
	DIODE FR104BB	NDL1000FR104
D511	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D514	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D516	ZENER DIODE MTZJT-776.8B or	QDTB0MTZJ6R8
	ZENER DIODE DZ-6.8BSBT265	NDTB0DZ6R8BS
D517	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D531	ZENER DIODE MTZJT-776.8B or	QDTB0MTZJ6R8
	ZENER DIODE DZ-6.8BSBT265	NDTB0DZ6R8BS
D534	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D535	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D536	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D537	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D538	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D540	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D541	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D542	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D543	ZENER DIODE MTZJT-774.7B or	QDTB0MTZJ4R7
	ZENER DIODE DZ-4.7BSBT265	NDTB0DZ4R7BS
D544	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D545	DIODE 1ZC13(Q)	QDLZ001ZC13Q
D546	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D547	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP

Ref. No.	Description	Part No.
D548	RECTIFIER DIODE ERA22-02	QDPZ0ERA2202
D549	SCHOTTKY BARRIER DIODE ERA81-004Q	QDLZRA81004Q
D550	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D551	DIODE ZENER 1ZB8.2(Q)	QDLZ01ZB8R2Q
D553	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D554	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D556	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D558	ZENER DIODE MTZJT-7739B or	QDTB00MTZJ39
	ZENER DIODE DZ-39BSBT265	NDTB00DZ39BS
D560	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	SWITCHING DIODE 1N4148	NDTZ001N4148
D561	SCHOTTKY BARRIER DIODE ERC81-004	QDPZERC81004
D562	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D564	RECTIFIER DIODE FR202-B/P or	NDQZ000FR202
	FAST RECOVERY DIODE FR202	NDWZ000FR202
D565	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	SWITCHING DIODE 1N4148	NDTZ001N4148
D566	SCHOTTKY BARRIER DIODE ERC81-004	QDPZERC81004
D567	SCHOTTKY BARRIER DIODE ERC81-004	QDPZERC81004
D568	DIODE 1ZC43(Q)	QDLZ001ZC43Q
D569	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D570	SCHOTTKY BARRIER DIODE ERC81-004	QDPZERC81004
D571	SCHOTTKY BARRIER DIODE ERC81-004	QDPZERC81004
D572	SCHOTTKY BARRIER DIODE ERB81-004 or	AERB81004***
	SCHOTTKY BARRIER DIODE 21DQ04	QDQZ0021DQ04
D573	DIODE FR154 or	NDLZ000FR154
	FAST RECOVERY DIODE ERB44-02 or	QDPZ0ERB4402
	DIODE FR154BD	NDL1000FR154
D574	DIODE ZENER 1ZC27(Q)	QDLZ001ZC27Q
D575	DIODE FR154 or	NDLZ000FR154
	FAST RECOVERY DIODE ERB44-02 or	QDPZ0ERB4402
	DIODE FR154BD	NDL1000FR154
D601	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	SWITCHING DIODE 1N4148	NDTZ001N4148
D602	ZENER DIODE MTZJT-778.2B or	QDTB0MTZJ8R2
	ZENER DIODE DZ-8.2BSBT265	NDTB0DZ8R2BS
D603	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	SWITCHING DIODE 1N4148	NDTZ001N4148
D604	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	SWITCHING DIODE 1N4148	NDTZ001N4148
D605	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	SWITCHING DIODE 1N4148	NDTZ001N4148
D606⚠	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
⚠	SWITCHING DIODE 1N4148	NDTZ001N4148
D607⚠	DIODE ZENER 1ZC27(Q)	QDLZ001ZC27Q
D608⚠	DIODE ZENER 1ZC18(Q)	QDLZ001ZC18Q
D610⚠	DIODE 1N5399-B/P or	NDLZ001N5399
⚠	DIODE 1N5397-B or	NDLZ001N5397
⚠	RECTIFIER DIODE ERB12-06 or	QDQZ0ERB1206
⚠	DIODE 1N5399BE	NDL1001N5399
D611⚠	DIODE 1N5399-B/P or	NDLZ001N5399
⚠	DIODE 1N5397-B or	NDLZ001N5397
⚠	RECTIFIER DIODE ERB12-06 or	QDQZ0ERB1206
⚠	DIODE 1N5399BE	NDL1001N5399
D612⚠	DIODE 1N5399-B/P or	NDLZ001N5399
⚠	DIODE 1N5397-B or	NDLZ001N5397
⚠	RECTIFIER DIODE ERB12-06 or	QDQZ0ERB1206
⚠	DIODE 1N5399BE	NDL1001N5399
D613⚠	DIODE 1N5399-B/P or	NDLZ001N5399
⚠	DIODE 1N5397-B or	NDLZ001N5397
⚠	RECTIFIER DIODE ERB12-06 or	QDQZ0ERB1206
⚠	DIODE 1N5399BE	NDL1001N5399

Ref. No.	Description	Part No.
D631	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	SWITCHING DIODE 1N4148	NDTZ001N4148
D632	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	ZENER DIODE DZ-5.6BSBT265	NDTB0DZ5R6BS
D633	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	SWITCHING DIODE 1N4148	NDTZ001N4148
D634⚠	DIODE ZENER 1ZC27(Q)	QDLZ001ZC27Q
D635⚠	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
⚠	SWITCHING DIODE 1N4148	NDTZ001N4148
D636⚠	DIODE ZENER 1ZC18(Q)	QDLZ001ZC18Q
D637	DIODE TRANSIENT VOLTAGE SUPPRE P6KE440ABE	NDLZP6KE440A
D638	DIODE FAST RECOVERY FR157	NDLZ000FR157
D639	DIODE TRANSIENT VOLTAGE SUPPRE P6KE440ABE	NDLZP6KE440A
D640	DIODE FAST RECOVERY FR157	NDLZ000FR157
D701	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D702	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D800	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D801	ZENER DIODE MTZJT-7710B or	QDTB00MTZJ10
	ZENER DIODE DZ-10BSBT265	NDTB00DZ10BS
D802	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D803	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D810	SWITCHING DIODE 1SS400 or	---------
	SWITCHING DIODE KDS160E-RTK/P	---------
D811	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D831	SWITCHING DIODE 1SS400 or	QD1Z001SS400
	SWITCHING DIODE KDS160E-RTK/P	ND1ZKDS160EP
D970	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D971	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D972	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D973	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D974	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D975	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D976	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D977	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D978	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D979	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D980	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D981	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D982	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D983	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D984	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D985	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D986	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D987	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D988	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
D989	ZENER DIODE EDZTE61 5.6B or	QD1B00EDZ5R6
	DIODE ZENER SMD 015AZ5.6 Y	QD1Y015AZ5R6
	ICS	
IC513	REGULATOR(PB FREE) PQ033EF01SZH	QSZBA0SSH060
IC514	REGULATOR(PB FREE) PQ033EF01SZH	QSZBA0SSH060
IC515	IC VOLTAGE REGULATOR 5V KIA7805API/P	NSZBA0SJY041
IC516	VOLTAGE REGULATOR PQ070XF01SZH	QSZBA0SSH054
IC531	REGULATOR PQ018EF01SZH	QSZBA0SSH075
IC532	REGULATOR IC(3.5V) PQ035ZN1HZPH	QSZBA0TSH078
IC601	PHOTOCOUPLER LTV-817C-F	NPEC0LTV817F
IC602	PHOTOCOUPLER LTV-817C-F	NPEC0LTV817F
IC631	PHOTOCOUPLER LTV-817C-F	NPEC0LTV817F
IC701	IC INTERFACE R2S11007FP	QSZBA0RHT054
IC801	AUDIO POWER IC AN17805A	QSZBA0SMS007
IC851	IC AUDIO PROCESSOR MSP3417G-QG-B8-V3	NSZBA0SP3005
	COILS	
L31	INDUCTOR 22μH-K-5FT	LLARKBSTU220
L503	COIL CHOKE 5.6μH	LLC5R6MMS002
L504	COIL CHOKE 5.6μH	LLC5R6MMS002
L505	PCB JUMPER D0.6-P5.0	JW5.0T
L540	INDUCTOR 220μH-J-26T	LLAXJATTU221
L601⚠	LINE FILTER JLB2481 or	LLEG0Z0XB005
⚠	LINE FILTER ST0606ET24-009	LLEG0Z0Y2019
L602⚠	LINE FILTER JLB2481 or	LLEG0Z0XB005
⚠	LINE FILTER ST0606ET24-009	LLEG0Z0Y2019
L603	CHOKE COIL ETQR42T041B	LLEE0Z0MS002
L701	INDUCTOR 12μH-J-26T	LLAXJATTU120
L702	INDUCTOR 100μH-K-5FT	LLARKBSTU101
L703	INDUCTOR 100μH-K-5FT	LLARKBSTU101
L704	INDUCTOR 100μH-K-5FT	LLARKBSTU101
L705	INDUCTOR 100μH-J-26T	LLAXJATTU101
L706	INDUCTOR 100μH-J-26T	LLAXJATTU101
L707	INDUCTOR 12μH-J-26T	LLAXJATTU120
L852	INDUCTOR 18μH-K-26T	LLAXKATTU180
L853	INDUCTOR 10μH-K-26T	LLAXKATTU100
L854	INDUCTOR 10μH-K-26T	LLAXKATTU100
L855	PCB JUMPER D0.6-P5.0	JW5.0T
	TRANSISTORS	
Q501	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q502	TRANSISTOR(PB FREE) KTC2026-Y/P	NQEYKTC2026P
Q503	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q507	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q508	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q510	TRANSISTOR S2Y52(FUNAI Q H)	QQWZ00S2Y52Q
Q512	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q531	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P

Ref. No.	Description	Part No.
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q532	PNP TRANSISTOR POWER 2SA1887(F) or	QQWZ2SA1887F
	TRANSISTOR 2SA1931(Q)	QQZZ2SA1931Q
Q533	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q534	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q601⚠	TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
⚠	TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q602	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q603⚠	FET MOS 2SK3799(Q)	QFQZ2SK3799Q
Q631⚠	TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
⚠	TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q632⚠	MOS FET 2SK3798(Q)	QFWZ2SK3798Q
Q701	RES. BUILT-IN TRANSISTOR KRA103M-AT/P or	NQSZ0KRA103M
	RES. BUILT-IN TRANSISTOR BN1F4M-T	QQSZ00BN1F4M
Q702	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1175(F) or	QQSF02SA1175
	TRANSISTOR 2SA1318(T)-AANP or	2SA1318TZ
	TRANSISTOR 2SA1318(U)-AANP or	2SA1318UZ
	TRANSISTOR 2SA1015-GR(TE2 F T)	QQS12SA1015F
Q703	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q704	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q705	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q801	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q804	PNP TRANSISTOR POWER 2SA1887(F) or	QQWZ2SA1887F
	TRANSISTOR 2SA1931(Q)	QQZZ2SA1931Q
Q805	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1175(F) or	QQSF02SA1175
	TRANSISTOR 2SA1318(T)-AANP or	2SA1318TZ
	TRANSISTOR 2SA1318(U)-AANP or	2SA1318UZ
	TRANSISTOR 2SA1015-GR(TE2 F T)	QQS12SA1015F
Q806	TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
	TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
	RESISTORS	
R30	CHIP RES.(1608) 1/10W 0 Ω or	RRXAJR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R31	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R32	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R33	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002

Ref. No.	Description	Part No.
R39	CHIP RES.(1608) 1/10W 0 Ω or	RRXAJR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R501	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R502	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R503	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R504	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R505	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R506	CHIP RES. 1/10W F 22k Ω or	RRXAFR5H2202
	CHIP RES.(1608) 1/10W F 22k Ω or	RRXAFR5Z2202
	RES CHIP 1608 1/10W F 22.0k Ω	RTW2202YF002
R507	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R508	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R509	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R510	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R511	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R512	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R513	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R514	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R515	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
	RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R516	CHIP RES. 1/10W F 2.2k Ω or	RRXAFR5H2201
	CHIP RES.(1608) 1/10W F 2.2k Ω or	RRXAFR5Z2201
	RES CHIP 1608 1/10W F 2.20k Ω	RTW2201YF002
R517	PCB JUMPER D0.6-P5.0	JW5.0T
R518	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R519	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R521	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R524	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R525	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R526	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R527	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R531	PCB JUMPER D0.6-P5.0	JW5.0T
R533	PCB JUMPER D0.6-P5.0	JW5.0T
R535	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R536	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R539	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R540	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R541	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R542	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R544	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R545	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R546	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R547	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R548	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R549	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
R550	CHIP RES. 1/10W F 2.2k Ω or	RRXAFR5H2201

Ref. No.	Description	Part No.
	CHIP RES.(1608) 1/10W F 2.2k Ω or	RRXAFR5Z2201
	RES CHIP 1608 1/10W F 2.20k Ω	RTW2201YF002
R551	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R553	CHIP RES. 1/10W F 1.6k Ω or	RRXAFR5H1601
	CHIP RES.(1608) 1/10W F 1.6k Ω or	RRXAFR5Z1601
	RES CHIP 1608 1/10W F 1.60k Ω	RTW1601YF002
R554	CHIP RES. 1/10W F 1.0k Ω or	RRXAFR5H1001
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z1001
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R555	METAL OXIDE FILM RES. 1W J 1k Ω or	RN01102ZU001
	METAL OXIDE FILM RES. 1W J 1k Ω or	RN01102KE010
	METAL OXIDE FILM RES. 1W J 1k Ω	RN01102DP003
R556	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R557	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R558	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R559	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R561	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R562	CHIP RES.(1608) 1/10W 0 Ω or	---
	RES CHIP 1608 1/10W J 0 Ω	---
R565	CHIP RES.(1608) 1/10W 0 Ω or	---
	RES CHIP 1608 1/10W J 0 Ω	---
R566	CHIP RES.(1608) 1/10W 0 Ω or	---
	RES CHIP 1608 1/10W J 0 Ω	---
R571	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R572	CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123
R574	METAL OXIDE FILM RES. 2W J 0.56 Ω or	RN02R56KE009
	METAL OXIDE FILM RES. 2W J 0.56 Ω	RN02R56DP004
R575	CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5H5601
	CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5Z5601
	RES CHIP 1608 1/10W F 5.60k Ω	RTW5601YF002
R576	CHIP RES. 1/10W F 1.8k Ω or	RRXAFR5H1801
	CHIP RES. 1/10W F 1.8k Ω or	RRXAFR5Z1801
	RES CHIP 1608 1/10W F 1.80k Ω	RTW1801YF002
R577	METAL OXIDE FILM RES. 2W J 1 Ω	RN021R0DP004
R578	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R579	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R580	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R586	CHIP RES. 1/10W F 2.2k Ω or	RRXAFR5H2201
	CHIP RES.(1608) 1/10W F 2.2k Ω or	RRXAFR5Z2201
	RES CHIP 1608 1/10W F 2.20k Ω	RTW2201YF002
R588	PCB JUMPER D0.6-P5.0	JW5.0T
R590	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R591	CHIP RES. 1/10W J 270k Ω or	RRXAJR5Z0274
	RES CHIP 1608 1/10W J 270k Ω	RRXA274YF002
R592	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R594	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R595	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R603	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R604	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R605	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R606	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R607	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R608	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R609⚠	PCB JUMPER D0.6-P5.0	JW5.0T
R610	CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R611	CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R612	PCB JUMPER D0.6-P5.0	JW5.0T

Ref. No.	Description	Part No.
R613	CARBON RES. 1/4W J 220k Ω	RCX4JATZ0224
R614	PCB JUMPER D0.6-P5.0	JW5.0T
R615⚠	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R616	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R617	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R618	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R620⚠	RES METAL OXIDE 3W 0.47 Ω	RN03JZPZ0R47
R621⚠	CEMENT RESISTOR 5W J 0.82 Ω	RW05R82PAK10
R622⚠	CARBON RES. 1/2W J 3.3M Ω or	RCX2335DP001
⚠	GLASS GLAZE RES. 1/2W J 3.3M Ω	RXX2JZLZ0335
R623	PCB JUMPER D0.6-P5.0	JW5.0T
R632	CARBON RES. 1/4W J 56 Ω	RCX4JATZ0560
R633	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R634	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R635	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R636	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R637	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R638	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R639	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R640	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R641	CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R643⚠	RES METAL OXIDE 3W 0.68 Ω	RN03JZPZ0R68
R701	CARBON RES. 1/4W J 22 Ω	RCX4JATZ0220
R702	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R703	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R704	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R705	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R706	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 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R709	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R710	CHIP RES. 1/10W J 8.2k Ω or	RRXAJR5Z0822
	RES CHIP 1608 1/10W J 8.2k Ω	RRXA822YF002
R711	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R712	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R713	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R714	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R715	CHIP RES.(1608) 1/10W 0 Ω or	RRXAJR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R716	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R717	CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
	RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R718	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R719	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
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 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R722	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R727	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002

Ref. No.	Description	Part No.
R728	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R730	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R731	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R732	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R733	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R734	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R735	CHIP RES. 1/10W J 8.2k Ω or	RRXAJR5Z0822
	RES CHIP 1608 1/10W J 8.2k Ω	RRXA822YF002
R736	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R737	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R738	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R739	CHIP RES.(1608) 1/10W F 75 Ω or	RRXAFR5H75R0
	CHIP RES. 1/10W F 75 Ω or	RRXAFR5Z75R0
	RES CHIP 1608 1/10W F 75 Ω	RTW75R0YF002
R740	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R741	CHIP RES.(1608) 1/10W F 75 Ω or	RRXAFR5H75R0
	CHIP RES. 1/10W F 75 Ω or	RRXAFR5Z75R0
	RES CHIP 1608 1/10W F 75 Ω	RTW75R0YF002
R744	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R745	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R746	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R747	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R748	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R749	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R750	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R751	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R752	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R760	CHIP RES. 1/10W J 820 Ω or	RRXAJR5Z0821
	RES CHIP 1608 1/10W J 820 Ω	RRXA821YF002
R761	CHIP RES. 1/10W J 820 Ω or	RRXAJR5Z0821
	RES CHIP 1608 1/10W J 820 Ω	RRXA821YF002
R762	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R763	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R767	CHIP RES.(1608) 1/10W 0 Ω or	RRXAJR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R770	CHIP RES.(1608) 1/10W 0 Ω or	RRXAJR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R771	CHIP RES.(1608) 1/10W 0 Ω or	RRXAJR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R772	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R800	CHIP RES.(1608) 1/10W 0 Ω or	RRXAJR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R801	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R802	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R809	CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R810	CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
	RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R811	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R812	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R813	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R814	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R815	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R816	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R821	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R822	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R823	CHIP RES. 1/10W J 8.2k Ω or	RRXAJR5Z0822
	RES CHIP 1608 1/10W J 8.2k Ω	RRXA822YF002
R827	METAL OXIDE FILM RES. 2W J 0.33 Ω or	RN02R33ZU001
	METAL OXIDE FILM RES. 2W J 0.33 Ω or	RN02R33KE010
	METAL OXIDE FILM RES. 2W J 0.33 Ω	RN02R33DP004
R828	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R829	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R833	METAL OXIDE FILM RES. 2W J 560 Ω or	RN02561ZU001
	METAL OXIDE FILM RES. 2W J 560 Ω or	RN02561KE010
	METAL OXIDE FILM RES. 2W J 560 Ω	RN02561DP004
R834	METAL OXIDE FILM RES. 2W J 0.27 Ω or	RN02R27ZU001
	METAL OXIDE FILM RES. 2W J 0.27 Ω or	RN02R27KE010
	METAL OXIDE FILM RES. 2W J 0.27 Ω	RN02R27DP004
R851	CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
	RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R852	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R853	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R854	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R855	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R858	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R859	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R860	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
	RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R861	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
	RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R862	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R901	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R902	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R903	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R905	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R906	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R907	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R909	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R910	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R911	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R913	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R914	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R915	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R917	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R918	CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
	RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R919	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R920	CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
	RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R921	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R922	CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
	RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R923	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R924	CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
	RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R925	CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
	RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R926	CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
	RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R927	CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
	RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R928	CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
	RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
	MISCELLANEOUS	
B9	HEAT SINK EAB ASSEMBLY L4300UA	1EM422612
B10	HEAT SINK PIS ASSEMBLY L0200UA or	0EM408833A
	HEAT SINK PKP ASSEMBLY L4200EA	1EM420855
B23	HEAT SINK PLT ASSEMBLY L0700UZ	1EM423290
B24	HEAT SINK EAF ASSEMBLY L5820EA	1EM423722
BC501	PCB JUMPER D0.6-P5.0	JW5.0T
BC502	PCB JUMPER D0.6-P5.0	JW5.0T
BC503	PCB JUMPER D0.6-P5.0	JW5.0T
BC507	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
BC508	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
BC534	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
BC535	PCB JUMPER D0.6-P5.0	JW5.0T
BC536	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
BC587	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
BC589	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
BC603	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
BC604	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
BC632	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
BC633	BEAD INDUCTOR FBR07HA121TB-00	LLBF00ZTU021
F601⚠	FUSE 4A/250V(PB FREE) 0215004.MXP	PBGZ20BAG021
FH608	FUSE HOLDER MSF-015	XH01Z00LY001
FH609	FUSE HOLDER MSF-015	XH01Z00LY001
JK701	RCA JACK RCA-610CCT-02B-06	JYRL050YUQ10
JK702	JACK SW RCA PCB L YKC21-4399V	JYRL030JC011
JK703	JACK SW DIN PCB L DIN-435C	JYEL040YUQ02
JK704	JACK RGB PCB L SC-201Z4	JXGL420SNJ01
JS501	PCB JUMPER D0.6-P5.0	JW5.0T
JS502	PCB JUMPER D0.6-P15.0	JW15.0T
L4	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
SA601⚠	SURGE ABSORBER 470V+-10PER	NVQZ10D471KB
SA601⚠A 119	VARISTOR 10D 471K SVR	NVQZVR10D471
SA606⚠	SURGE ABSORBER 470V+-10PER or	NVQZ10D471KB
⚠	VARISTOR 10D 471K SVR	NVQZVR10D471
T601⚠	TRANS POWER ETS49BP186ND	LTT4PC0MS001
T631⚠	TRANS POWER 6739	LTT3PC0KT013
TM601	EYELET TYPE D-1	0VM406868
TM602	EYELET TYPE D-1	0VM406868
X851	XTAL 18.432MHz	FXD186LLN001

FUNCTION CBA

Ref. No.	Description	Part No.
	FUNCTION CBA Consists of the following:	----------
	CAPACITORS	
C11	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C12	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C21	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
	CONNECTORS	
CN10	PH CONNECTOR SIDE 2P S2B-PH-K-S(LF)(SN)	J3PHC02JG030
CN11	PH CONNECTOR SIDE 2P S2B-PH-K-S(LF)(SN)	J3PHC02JG030
CN11B	PH CONNECTOR SIDE10PIN S10B-PH-K-S (LF)(SN)	J3PHC10JG030
	RESISTORS	
R11	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R12	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R13	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R14	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
	RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R15	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R16	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R17	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R18	CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
	RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R27	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R28	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
	SWITCHES	
SW11	TACT SWITCH SKQSAB	SST0101AL038
SW12	TACT SWITCH SKQSAB	SST0101AL038
SW13	TACT SWITCH SKQSAB	SST0101AL038
SW14	TACT SWITCH SKQSAB	SST0101AL038
SW15	TACT SWITCH SKQSAB	SST0101AL038
SW16	TACT SWITCH SKQSAB	SST0101AL038
SW17	TACT SWITCH SKQSAB	SST0101AL038
	MISCELLANEOUS	
BC01	CORE(CHIP BEADS) MMZ1608A152ET	LLEC030TE002
BC02	CORE(CHIP BEADS) MMZ1608A152ET	LLEC030TE002
BC11	PCB JUMPER D0.6-P5.0	JW5.0T

LED CBA

Ref. No.	Description	Part No.
	LED CBA Consists of the following:	----------
	CAPACITORS	
C58	CHIP CERAMIC CAP. F Z 0.01μF/50V	CHD1JZ30F103
C59	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C60	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C63	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C64	ELECTROLYTIC CAP. 47μF/10V M H7 or	CE1AMASSM470
	ELECTROLYTIC CAP. 47μF/10V M H7	CE1AMASSL470

Ref. No.	Description	Part No.
	CONNECTORS	
CN54B	PH CONNECTOR SIDE 5P S5B-PH-K-S(LF)(SN)	J3PHC05JG030
	DIODES	
D54	LED L-53HT	NP4Z000L53HT
D55	LED 333GT/E	NPHZ00333GTE
	RESISTORS	
R53	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R57	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R60	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R64	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R65	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
	MISCELLANEOUS	
BC52	PCB JUMPER D0.6-P5.0	JW5.0T
RCV52	PHOTO LINK MODULE KSM-712TH2E	USESJRSKK044

INVERTER CBA

Ref. No.	Description	Part No.
	INVERTER CBA Consists of the following:	1ESA13594
	CAPACITORS	
C1000	CHIP CERAMIC CAP. B K 1000pF/50V	CHD1JKB0B102
C1001	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C1002	CHIP CERAMIC CAP. B K 1000pF/50V	CHD1JKB0B102
C1003	CHIP CERAMIC CAP. B K 1000pF/50V	CHD1JKB0B102
C1004	CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C1005	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C1006	CHIP CERAMIC CAP. B K 0.047μF/50V	CHD1JKB0B473
C1007	CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJBCH331
C1008	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C1009	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZB0F105
C1010	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZB0F105
C1011	CHIP CERAMIC CAP.(1608) B K 0.47μF/10V	CHD1AK30B474
C1012	CHIP CERAMIC CAP.(1608) B K 0.47μF/10V	CHD1AK30B474
C1015	ALUMINUM ELECTROLYTIC CAP 470μF/35V M or	CE1GMZNTM471
	ELECTROLYTIC CAP. 470μF/35V M or	CE1GMZADL471
	ELECTROLYTIC CAP. 470μF/35V M	CE1GMZPDL471
C1016	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1017	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1018	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1019	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1020	CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C1030	ELECTROLYTIC CAP. 330μF/16V M	CE1CMASDL331
C1031	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1032	ELECTROLYTIC CAP. 47μF/35V M or	CE1GMASDL470
	ELECTROLYTIC CAP. 47μF/35V M	CE1GMASTM470
C1040	CHIP CERAMIC CAP. B K 1000pF/50V	CHD1JKB0B102
C1043	ELECTROLYTIC CAP. 2.2μF/50V M or	CE1JMASDL2R2
	ELECTROLYTIC CAP. 2.2μF/50V M	CE1JMASTL2R2
C1044	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C1045	ELECTROLYTIC CAP. 2.2μF/50V M or	CE1JMASDL2R2
	ELECTROLYTIC CAP. 2.2μF/50V M	CE1JMASTL2R2
C1046	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C1061	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1062	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1063	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1064	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1065	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1066	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1067	CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C1100	ELECTROLYTIC CAP. 100μF/35V M or	CE1GMASDL101
	ELECTROLYTIC CAP. 100μF/35V M	CE1GMASTM101
C1101	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1102	ELECTROLYTIC CAP. 100μF/35V M or	CE1GMASDL101
	ELECTROLYTIC CAP. 100μF/35V M	CE1GMASTM101
C1103	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1104	CHIP CERAMIC CAP. CH J 180pF/50V	CHD1JJBCH181
C1105	CHIP CERAMIC CAP. CH J 180pF/50V	CHD1JJBCH181
C1106	CHIP CERAMIC CAP. CH J 180pF/50V	CHD1JJBCH181
C1107	CHIP CERAMIC CAP. CH J 180pF/50V	CHD1JJBCH181
C1111	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1112	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1113	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1114	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1115	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1116	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1117	CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C1161	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1162	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1163	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1164	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1165	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1166	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1167	CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C1211	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1212	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1213	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1214	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1215	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1216	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1217	CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C1250	ELECTROLYTIC CAP. 100μF/35V M or	CE1GMASDL101
	ELECTROLYTIC CAP. 100μF/35V M	CE1GMASTM101
C1251	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1252	ELECTROLYTIC CAP. 100μF/35V M or	CE1GMASDL101
	ELECTROLYTIC CAP. 100μF/35V M	CE1GMASTM101
C1253	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1254	CHIP CERAMIC CAP. CH J 180pF/50V	CHD1JJBCH181
C1255	CHIP CERAMIC CAP. CH J 180pF/50V	CHD1JJBCH181
C1256	CHIP CERAMIC CAP. CH J 180pF/50V	CHD1JJBCH181
C1257	CHIP CERAMIC CAP. CH J 180pF/50V	CHD1JJBCH181
C1261	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1262	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1263	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1264	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1265	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1266	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1267	CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C1311	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1312	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1313	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1314	CERAMIC CAP. SL D 10pF/3KV	CCD3FDASL100
C1315	CHIP CERAMIC CAP. B K 1200pF/50V	CHD1JK30B122
C1316	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C1317	CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C1500	CHIP CERAMIC CAP.(1608) B K 0.22μF/25V	CHD1EK30B224
C1501	CHIP CERAMIC CAP.(1608) B K 0.22μF/25V	CHD1EK30B224
C1502	CHIP CERAMIC CAP.(1608) B K 0.22μF/25V	CHD1EK30B224
C1550	CHIP CERAMIC CAP.(1608) B K 0.22μF/25V	CHD1EK30B224
C1552	CHIP CERAMIC CAP.(1608) B K 0.22μF/25V	CHD1EK30B224
	CONNECTORS	
CN1000	PH CONNECTOR TOP 20P B20B-PHDSS-B(LF)(SN)	J3F5D20JG003
CN1050	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1100	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1150	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1200	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1250	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1300	CONNECTOR/JACK 1747386-1	JB17J02AP002

Ref. No.	Description	Part No.
	DIODES	
D1000	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1001	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1002	ZENER DIODE MTZJT-776.2B or	QDTB0MTZJ6R2
	ZENER DIODE DZ-6.2BSBT265	NDTB0DZ6R2BS
D1003	ZENER DIODE MTZJT-776.2B or	QDTB0MTZJ6R2
	ZENER DIODE DZ-6.2BSBT265	NDTB0DZ6R2BS
D1004	ZENER DIODE MTZJT-776.2B or	QDTB0MTZJ6R2
	ZENER DIODE DZ-6.2BSBT265	NDTB0DZ6R2BS
D1005	ZENER DIODE MTZJT-776.2B or	QDTB0MTZJ6R2
	ZENER DIODE DZ-6.2BSBT265	NDTB0DZ6R2BS
D1020	ZENER DIODE MTZJT-775.1B or	QDTB0MTZJ5R1
	ZENER DIODE DZ-5.1BSBT265	NDTB0DZ5R1BS
D1021	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1030	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	ZENER DIODE DZ-5.6BSBT265	NDTB0DZ5R6BS
D1042	ZENER DIODE MTZJT-7724B or	QDTB00MTZJ24
	ZENER DIODE DZ-24BSBT265	NDTB00DZ24BS
D1043	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1045	ZENER DIODE MTZJT-7724B or	QDTB00MTZJ24
	ZENER DIODE DZ-24BSBT265	NDTB00DZ24BS
D1046	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1049	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1060	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1061	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1062	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1063	SCHOTTKY BARRIER DIODE ERA81-004Q	QDLZRA81004Q
D1064	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1065	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1066	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1067	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1068	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1110	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1111	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1112	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1113	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1114	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1115	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1116	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1117	SCHOTTKY BARRIER DIODE ERA81-004Q	QDLZRA81004Q
D1118	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1160	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1161	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1162	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1163	SCHOTTKY BARRIER DIODE ERA81-004Q	QDLZRA81004Q
D1164	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1165	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1166	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1167	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1168	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1210	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1211	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1212	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1213	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1214	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1215	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1216	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1217	SCHOTTKY BARRIER DIODE ERA81-004Q	QDLZRA81004Q
D1218	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1260	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1261	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1262	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1263	SCHOTTKY BARRIER DIODE ERA81-004Q	QDLZRA81004Q
D1264	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1265	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1266	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1267	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1268	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1310	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1311	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1312	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1313	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1314	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1315	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1316	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1317	SCHOTTKY BARRIER DIODE ERA81-004Q	QDLZRA81004Q
D1318	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1500	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1501	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1502	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1503	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1550	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1551	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1552	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1553	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
	ICS	
IC1000	IC PWM CONTROLLER OZ9938GN-B-0-T2	NSZBA0TTMC03
IC1001	IC MOSFET DRIVER OZ9982GN	NSZBA0TTMC02
IC1500	IC BA10324AF-E2 or	QSZBA0TRM032
	IC(OPAMP) LM324NSR	NSZBA0TTY190
IC1550	IC BA10324AF-E2 or	QSZBA0TRM032
	IC(OPAMP) LM324NSR	NSZBA0TTY190
	TRANSISTORS	
Q1000	TRANSISTOR KTC3205-Y-AT/P	NQSYKTC3205P
Q1001	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q1002	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q1003	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q1020	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1175(F) or	QQSF02SA1175
	TRANSISTOR 2SA1318(T)-AANP or	2SA1318TZ
	TRANSISTOR 2SA1318(U)-AANP	2SA1318UZ
Q1100	MOS FET 2SK2614 or	QF1Z2SK2614Q
	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
Q1101	MOS FET 2SK2614 or	QF1Z2SK2614Q
	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
Q1102	MOS FET 2SK2614 or	QF1Z2SK2614Q
	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
Q1103	MOS FET 2SK2614 or	QF1Z2SK2614Q
	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
Q1250	MOS FET 2SK2614 or	QF1Z2SK2614Q
	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
Q1251	MOS FET 2SK2614 or	QF1Z2SK2614Q
	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
Q1252	MOS FET 2SK2614 or	QF1Z2SK2614Q
	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
Q1253	MOS FET 2SK2614 or	QF1Z2SK2614Q
	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
	RESISTORS	
R1000	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1001	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1002	CHIP RES. 1/10W J 5.1k Ω or	RRXAJR5Z0512
	RES CHIP 1608 1/10W J 5.1k Ω	RRXA512YF002

Ref. No.	Description	Part No.
R1003	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1004	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1005	CHIP RES.(1608) 1/10W F 160k Ω or	RRXAFR5Z1603
	RES CHIP 1608 1/10W F 160k Ω	RTW1603YF002
R1006	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1007	CHIP RES. 1/10W J 30k Ω or	RRXAJR5Z0303
	RES CHIP 1608 1/10W J 30k Ω	RRXA303YF002
R1008	CHIP RES. 1/10W J 30k Ω or	RRXAJR5Z0303
	RES CHIP 1608 1/10W J 30k Ω	RRXA303YF002
R1009	CHIP RES. 1/10W F 1M Ω or	RRXAFR5Z1004
	RES CHIP 1608 1/10W F 1.00M Ω	RTW1004YF002
R1010	CHIP RES. 1/10W F 130k Ω or	RRXAFR5Z1303
	RES CHIP 1608 1/10W F 130k Ω	RTW1303YF002
R1011	CHIP RES. 1/10W F 110k Ω or	RRXAFR5Z1103
	RES CHIP 1608 1/10W F 110k Ω	RTW1103YF002
R1020	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1030	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R1031	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R1040	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R1041	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1045	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R1046	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R1047	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1048	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1050	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R1051	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R1052	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1053	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1055	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R1056	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R1060	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1061	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1062	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
R1063	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1064	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1065	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1066	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
R1067	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1070	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1071	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1100	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	CHIP RES. 1/10W J 68 Ω or	RRXAJR5Z0680
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W J 68 Ω	RRXA680YF002

Ref. No.	Description	Part No.
R1101	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	CHIP RES. 1/10W J 68 Ω or	RRXAJR5Z0680
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W J 68 Ω	RRXA680YF002
R1102	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	CHIP RES. 1/10W J 68 Ω or	RRXAJR5Z0680
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W J 68 Ω	RRXA680YF002
R1103	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	CHIP RES. 1/10W J 68 Ω or	RRXAJR5Z0680
	RES CHIP 1608 1/10W J 0 Ω or	RRXA000YF002
	RES CHIP 1608 1/10W J 68 Ω	RRXA680YF002
R1104	PCB JUMPER D0.6-P5.0	JW5.0T
R1105	PCB JUMPER D0.6-P5.0	JW5.0T
R1110	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1111	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1112	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
R1113	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1114	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1115	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1116	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
R1117	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1120	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1121	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1160	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1161	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1162	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
R1163	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1164	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1165	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1166	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
R1167	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1170	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1171	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1210	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1211	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1212	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
R1213	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1214	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1215	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1216	CHIP RES. 1/10W F 470 Ω or	RRXAFR5H4700

Ref. No.	Description	Part No.
	CHIP RES.(1608) 1/10W F 470 Ω or	RRXAFR5Z4700
	RES CHIP 1608 1/10W F 470 Ω	RTW4700YF002
R1217	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1220	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1221	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1250	CHIP RES. 1/10W J 68 Ω or	RRXAJR5Z0680
	RES CHIP 1608 1/10W J 68 Ω or	RRXA680YF002
	CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
	RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R1251	CHIP RES. 1/10W J 68 Ω or	RRXAJR5Z0680
	RES CHIP 1608 1/10W J 68 Ω or	RRXA680YF002
	CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
	RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R1252	CHIP RES. 1/10W J 68 Ω or	RRXAJR5Z0680
	RES CHIP 1608 1/10W J 68 Ω or	RRXA680YF002
	CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
	RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R1253	CHIP RES. 1/10W J 68 Ω or	RRXAJR5Z0680
	RES CHIP 1608 1/10W J 68 Ω or	RRXA680YF002
	CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
	RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R1254	PCB JUMPER D0.6-P5.0	JW5.0T
R1255	PCB JUMPER D0.6-P5.0	JW5.0T
R1260	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1261	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1262	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
R1263	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1264	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1265	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1266	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
R1267	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1270	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1271	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1310	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1311	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1312	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
R1313	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1314	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1315	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1316	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
R1317	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1320	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1321	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1500	CHIP RES. 1/10W F 9.1k Ω or	RRXAFR5H9101
	CHIP RES.(1608) 1/10W F 9.1k Ω or	RRXAFR5Z9101
	RES CHIP 1608 1/10W F 9.10k Ω	RTW9101YF002
R1501	CHIP RES. 1/10W F 1.0k Ω or	RRXAFR5H1001
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z1001
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R1502	CHIP RES. 1/10W F 9.1k Ω or	RRXAFR5H9101
	CHIP RES.(1608) 1/10W F 9.1k Ω or	RRXAFR5Z9101
	RES CHIP 1608 1/10W F 9.10k Ω	RTW9101YF002
R1503	CHIP RES. 1/10W F 1.0k Ω or	RRXAFR5H1001
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z1001
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R1504	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1505	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1506	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1507	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1508	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1509	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1510	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1511	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1550	CHIP RES. 1/10W F 9.1k Ω or	RRXAFR5H9101
	CHIP RES.(1608) 1/10W F 9.1k Ω or	RRXAFR5Z9101
	RES CHIP 1608 1/10W F 9.10k Ω	RTW9101YF002
R1551	CHIP RES. 1/10W F 1.0k Ω or	RRXAFR5H1001
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z1001
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R1554	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1555	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1556	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1557	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1558	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1559	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1560	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1561	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
	MISCELLANEOUS	
B14	SHIELD BOX BOTTOM L4400UA	1EM423172
BC1050	PCB JUMPER D0.6-P10.0	JW10.0T
BC1100	PCB JUMPER D0.6-P10.0	JW10.0T
BC1150	PCB JUMPER D0.6-P10.0	JW10.0T
BC1200	PCB JUMPER D0.6-P10.0	JW10.0T
BC1250	PCB JUMPER D0.6-P10.0	JW10.0T
BC1300	PCB JUMPER D0.6-P10.0	JW10.0T
JS1000	PCB JUMPER D0.6-P5.0	JW5.0T
T1050	INVERTER TRANS ETJV27ZJ23AC	LTZ2PC0MS001
T1100	INVERTER TRANS ETJV27ZJ23AC	LTZ2PC0MS001
T1150	INVERTER TRANS ETJV27ZJ23AC	LTZ2PC0MS001
T1200	INVERTER TRANS ETJV27ZJ23AC	LTZ2PC0MS001
T1250	INVERTER TRANS ETJV27ZJ23AC	LTZ2PC0MS001
T1300	INVERTER TRANS ETJV27ZJ23AC	LTZ2PC0MS001

Ref. No.	Mark	Description	Part No.
MISCELLANEOUS			
AC601⚠	A,C,D	AC CORD CEE 1800MM BLACK	WAE0182LW004
AC601⚠	B	AC CORD BS 1800MM BLACK	WAB0182LW017
TU31		TUNER UNIT TMFE2X402A	UTUNPSGAL012