



SERVICE MANUAL

This Service Manual is for the LH850-M26 (A0CA2EP) model.
For the LH850-M26 (A0CA2EP) model, the letter (A0CA2EP) is printed on the Serial Number Label on the back of the unit. Refer to the Serial Number Label below.

Serial No. Label



"A0CA2EP"

26" COLOR LCD TELEVISION LH850-M26



26" COLOR LCD TELEVISION

LH850-M26

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

SPECIFICATIONS

< TUNER >

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

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

< LCD PANEL >

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

<DVB-T>

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

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

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

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

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

< VIDEO >

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

< AUDIO >

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

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

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

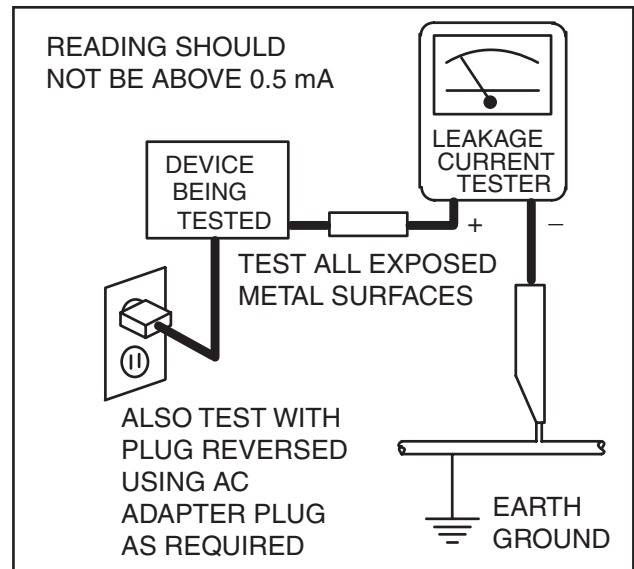
IMPORTANT SAFETY PRECAUTIONS

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

Safety Precautions for LCD TV Circuit

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

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



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


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

4. Hot Chassis Warning -

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

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

Precautions during Servicing

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

Safety Check after Servicing

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

1. Clearance Distance

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

Table 1 : Ratings for selected area

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

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

2. Leakage Current Test

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

Measuring Method : (Power ON)

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

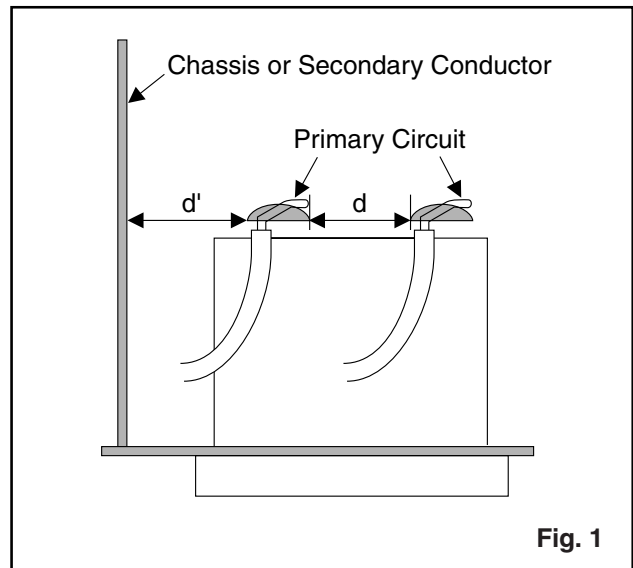


Fig. 1

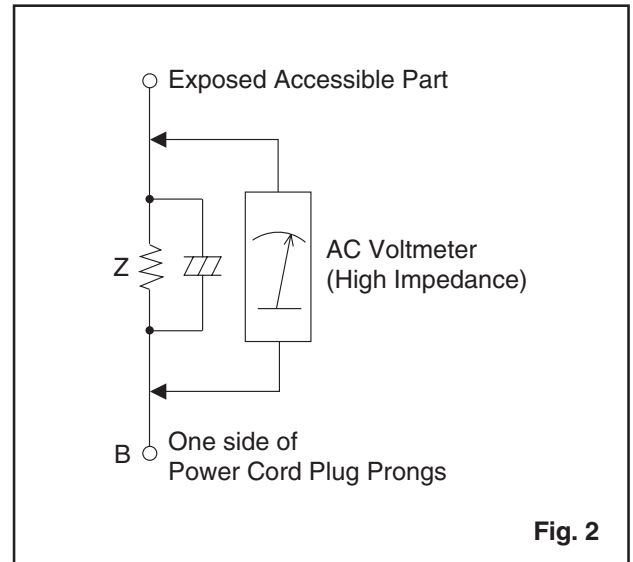


Fig. 2

Table 2: Leakage current ratings for selected areas

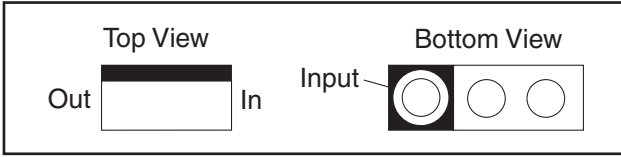
| AC Line Voltage | Load Z | Leakage Current (i) | One side of power cord plug prongs (B) to: |
|-----------------|------------------------------------|---|--|
| 220 to 240 V | 2kΩ RES. Connected in parallel | $i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$ | RF or Antenna terminals |
| | 50kΩ RES.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

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

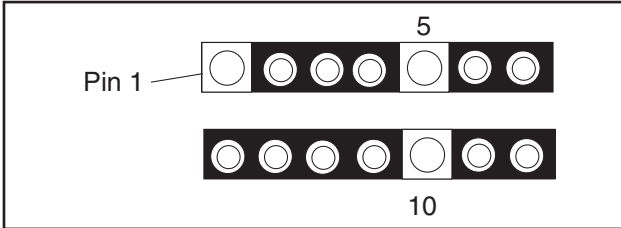
STANDARD NOTES FOR SERVICING

Circuit Board Indications

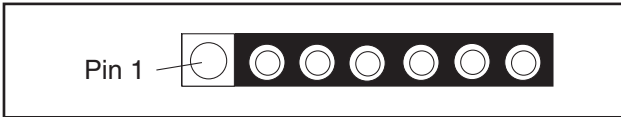
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



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

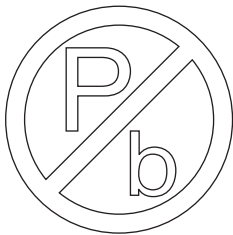


3. The 1st pin of every male connector is indicated as shown.



Pb (Lead) Free Solder

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



Pb free mark

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

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

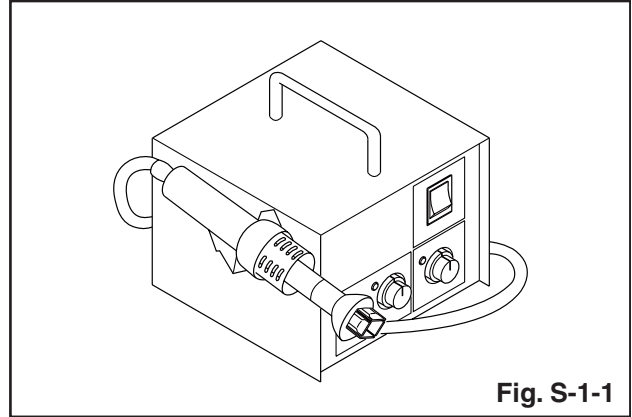


Fig. S-1-1

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

CAUTION:

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

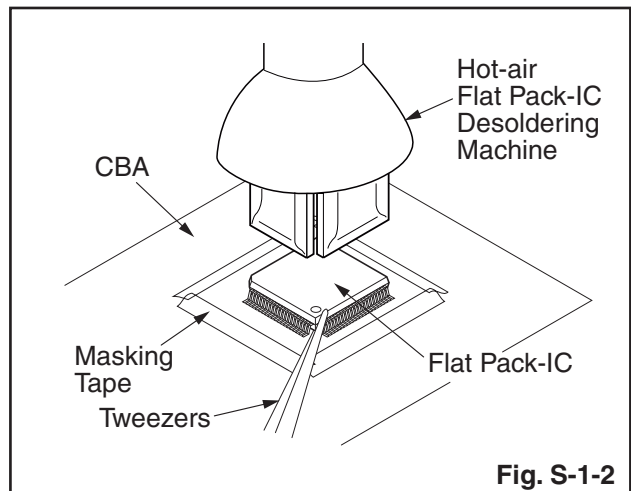
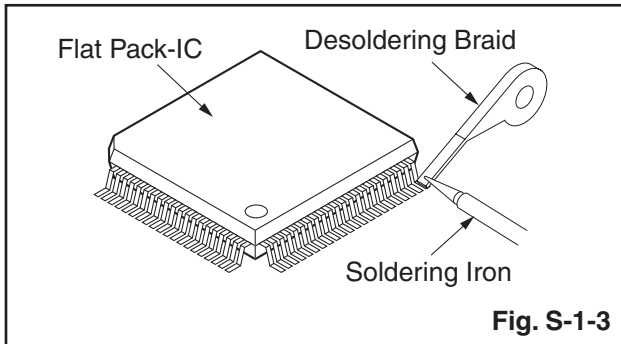


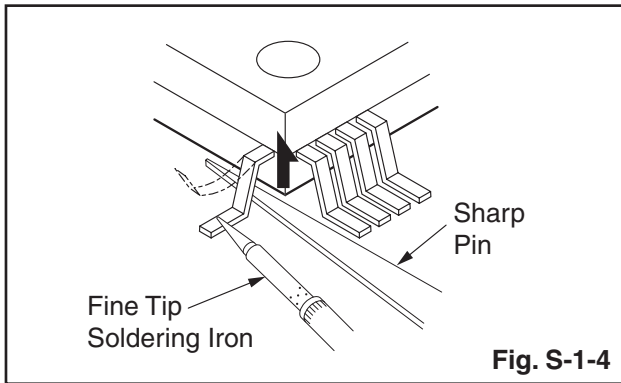
Fig. S-1-2

With Soldering Iron:

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



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

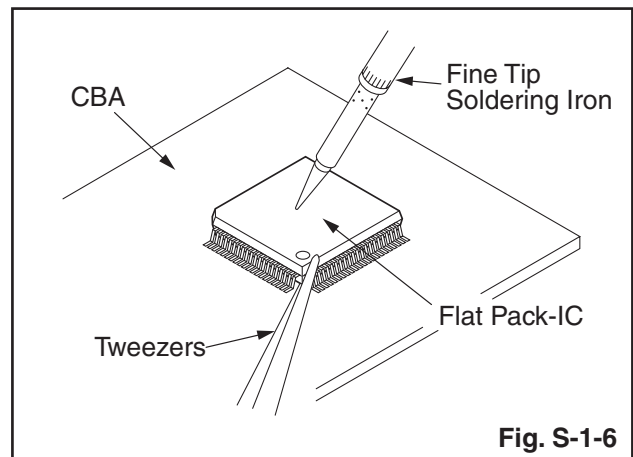
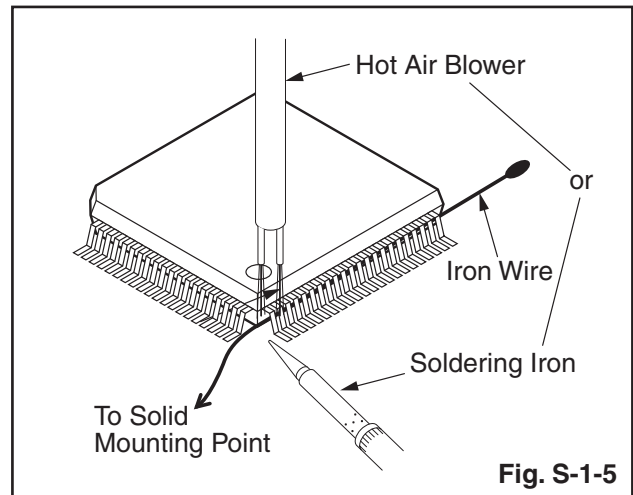


3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

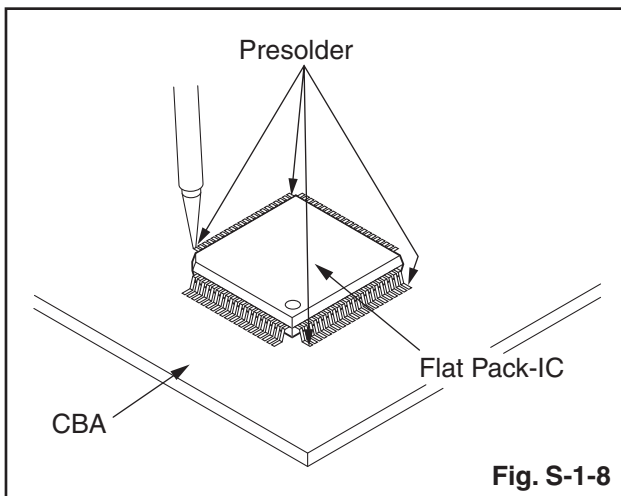
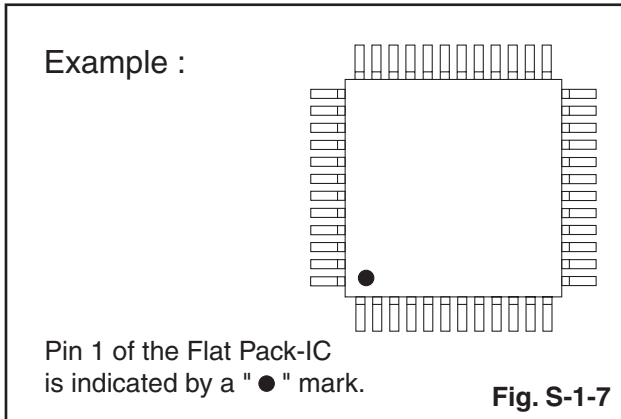
1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins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

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



2. Installation

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



Instructions for Handling Semi-conductors

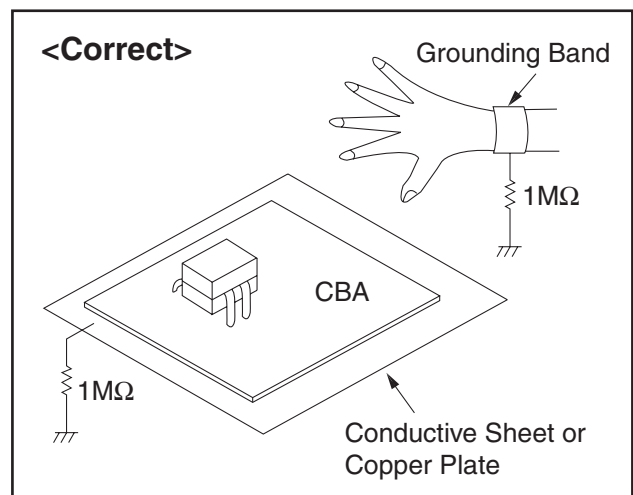
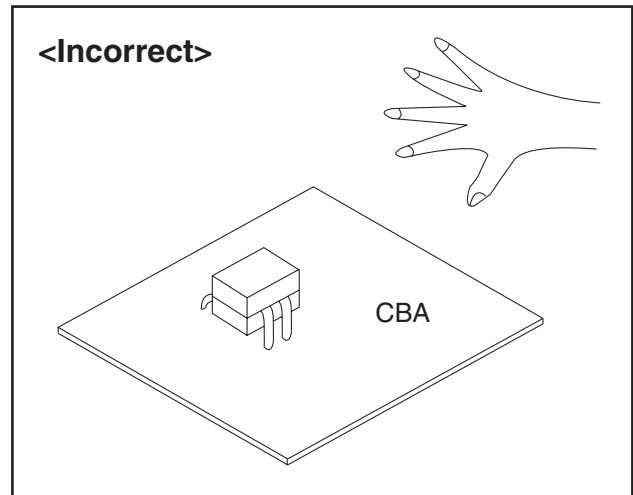
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

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

2. Ground for Workbench

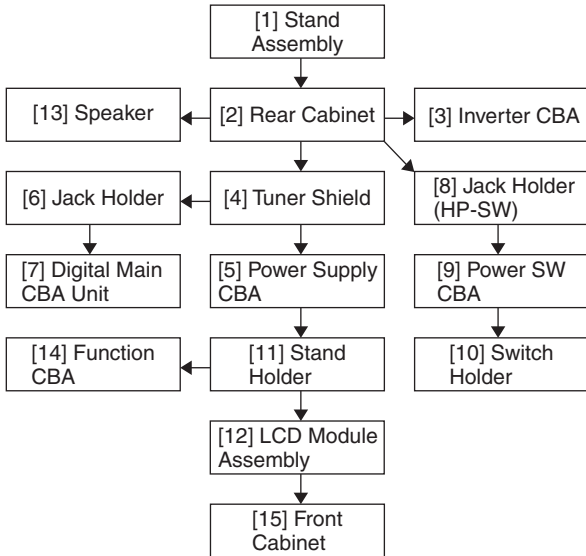
Be sure to place a conductive sheet or copper plate with proper grounding (1 M Ω) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors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



CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

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



2. Disassembly Method

| Step/ Loc. No. | Part | Removal | | |
|----------------------|-----------------------|-------------|---|------|
| | | Fig. No. | Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder | Note |
| [1] | Stand Assembly | D1 | 4(S-1) | --- |
| [2] | Rear Cabinet | D1 | 11(S-2), 2(S-3), (S-4) | --- |
| [3] | Inverter CBA | D2 D3 | 6(S-5), *CN407, *CN1201, *CN1202, *CN1203 | --- |
| [4] | Tuner Shield | D2 | 2(S-6) | --- |
| [5] | Power Supply CBA | D2 D3 | 7(S-7), *CN601, *CN101, *CN202, *CN401, *CN402, *CN403, *CN404, *CN406, *CN801, *CN802 | --- |
| [6] | Jack Holder | D2 | 2(S-8) | --- |
| [7] | Digital Main CBA Unit | D2 D3 | 9(S-9), 2(S-10), 2(H-1), *CN3901, Shield Box | --- |
| [8] | Jack Holder (HP-SW) | D2 | (S-11) | --- |
| [9] | Power SW CBA | D2 D3 | 4(S-12) | --- |

| Step/ Loc. No. | Part | Removal | | |
|----------------------|---------------------|-------------|---|------|
| | | Fig. No. | Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder | Note |
| [10] | Switch Holder | D2 | 3(S-13), Separation Sheet(S) | --- |
| [11] | Stand Holder | D2 | 2(S-14), 2(S-15) | --- |
| [12] | LCD Module Assembly | D2 D3 | Separation Sheet(P) | --- |
| [13] | Speaker | D2 | 8(S-16), Speaker Holder(L),(R) | --- |
| [14] | Function CBA | D2 D3 | 3(S-17) | --- |
| [15] | Front Cabinet | D2 | ----- | --- |

↓ (1) ↓ (2) ↓ (3) ↓ (4) ↓ (5)

Note:

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

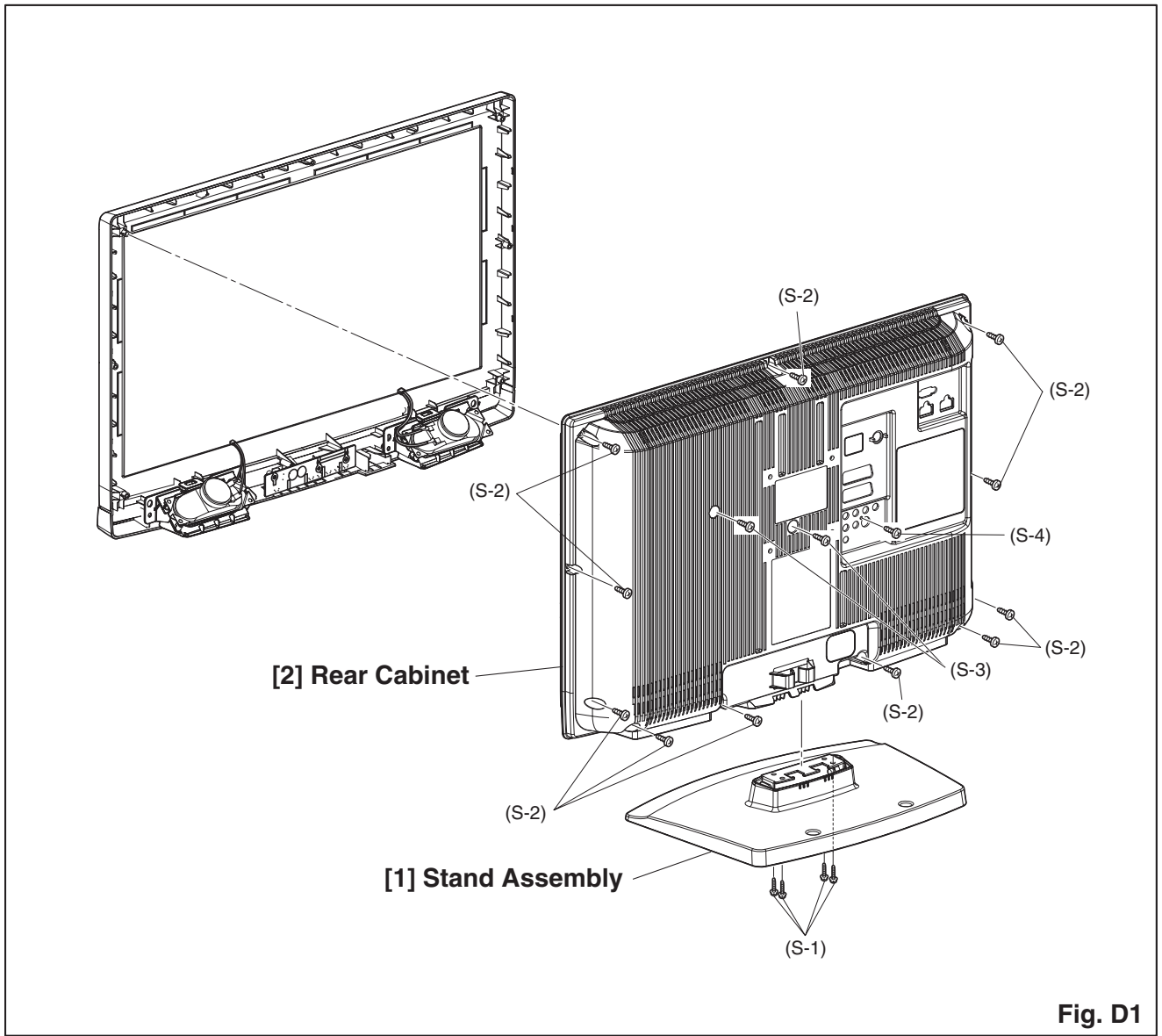


Fig. D1

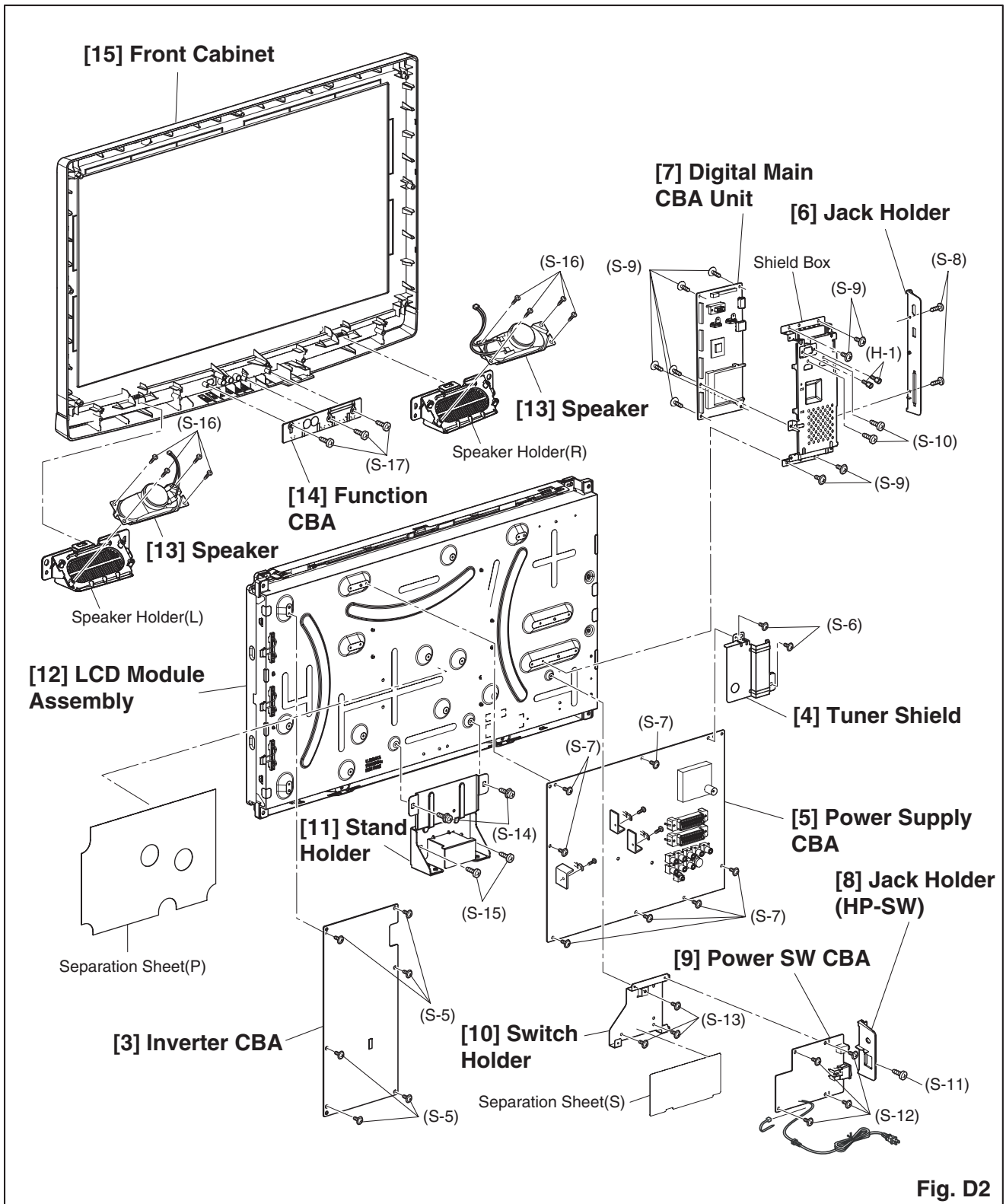


Fig. D2

TV Cable Wiring Diagram

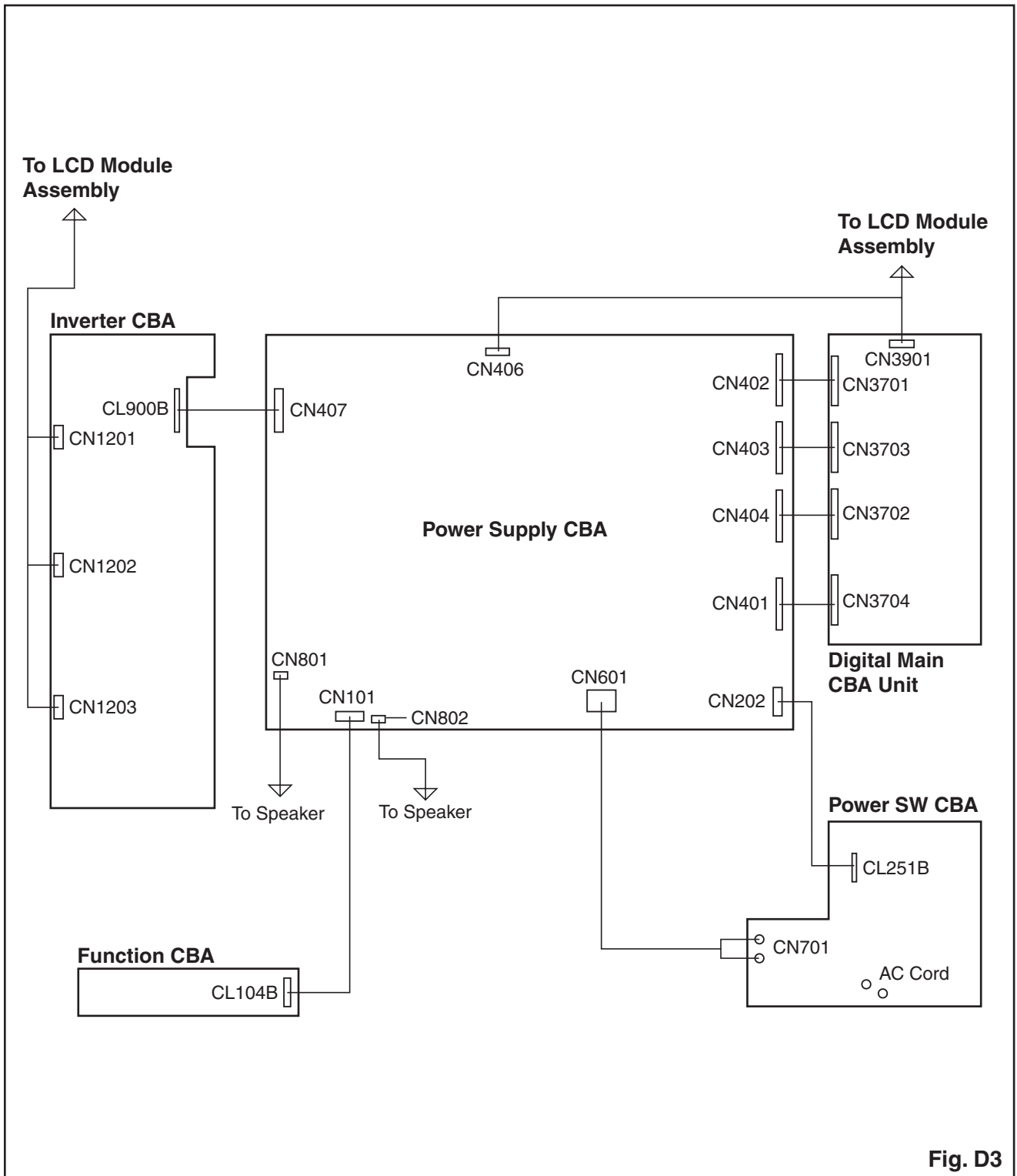


Fig. D3

ELECTRICAL ADJUSTMENT INSTRUCTIONS

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


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

Test Equipment Required

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

How to set up the service mode:

Service mode:

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

“*” differs depending on the models.

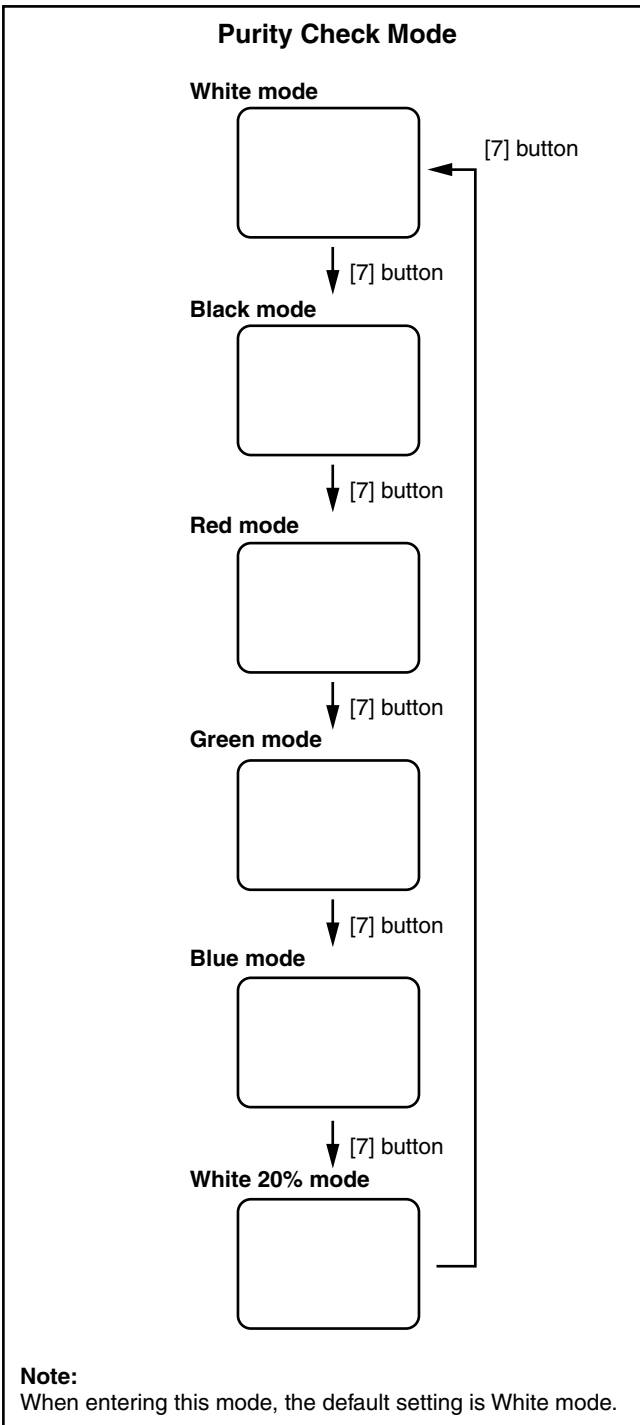
```
Code : *****_**_*_*
Pic code : ** ***** ** * **
Inch : ** * - - - - -
MIPS : ****
```

Safety : Safety_Non

1. Purity Check Mode

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

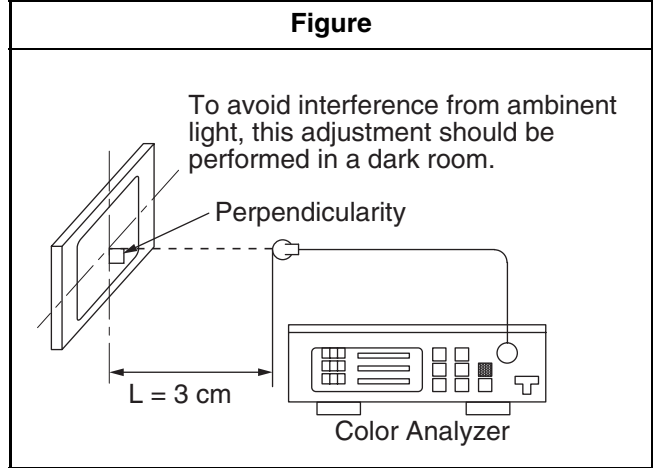
1. Enter the Service mode.
2. Each time pressing [7] button on the remote control unit, the display changes as follows.



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

2. VCOM Adjustment

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



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

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

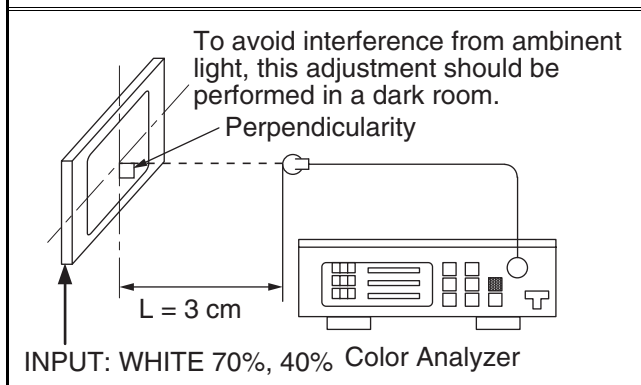
3. White Balance Adjustment

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

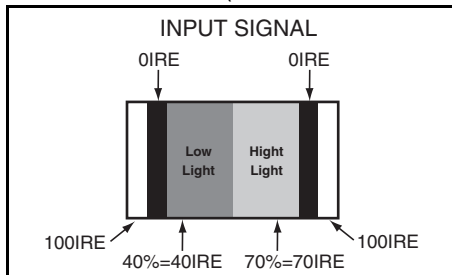
Symptom of Misadjustment: White becomes bluish or reddish.

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

Figure



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



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

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

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

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

[DRIVE]

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

6. In each color mode, press [P ^ / v] buttons to adjust the values of color.
7. Adjust Cutoff and Drive so that the color temperature becomes 9200°K (x= 0.286 / y= 0.295 ±0.005).
8. To cancel or to exit from the White Balance Adjustment, press [BACK] button.

HOW TO INITIALIZE THE LCD TELEVISION

How to initialize the LCD television:

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

FIRMWARE RENEWAL MODE

Equipment Required

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

Firmware Update Procedure

[Check the current version]

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

The current FW version will be displayed.

[Preparation]

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

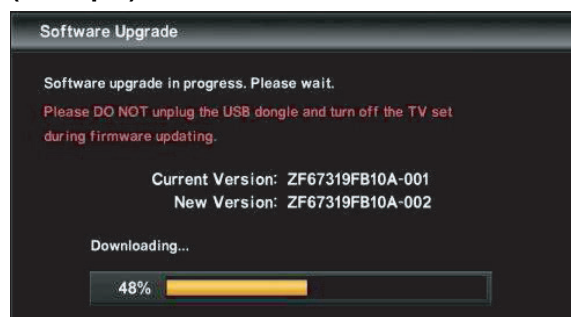
Step1. Add the "_F" at the end of the name.
(If the file name in USB says "ZF6731915NOS-030-05.ecc", the new file name should be "ZF6731915NOS-030-05_F.ecc".)

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

[Update procedure]

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

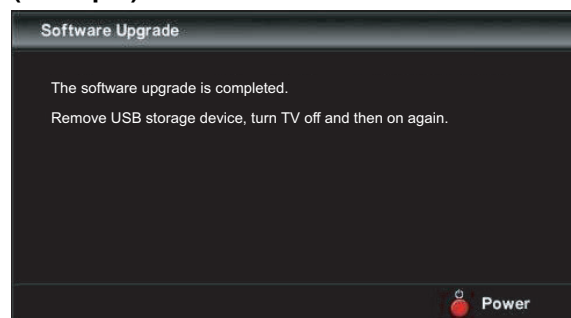
(Example)



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

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

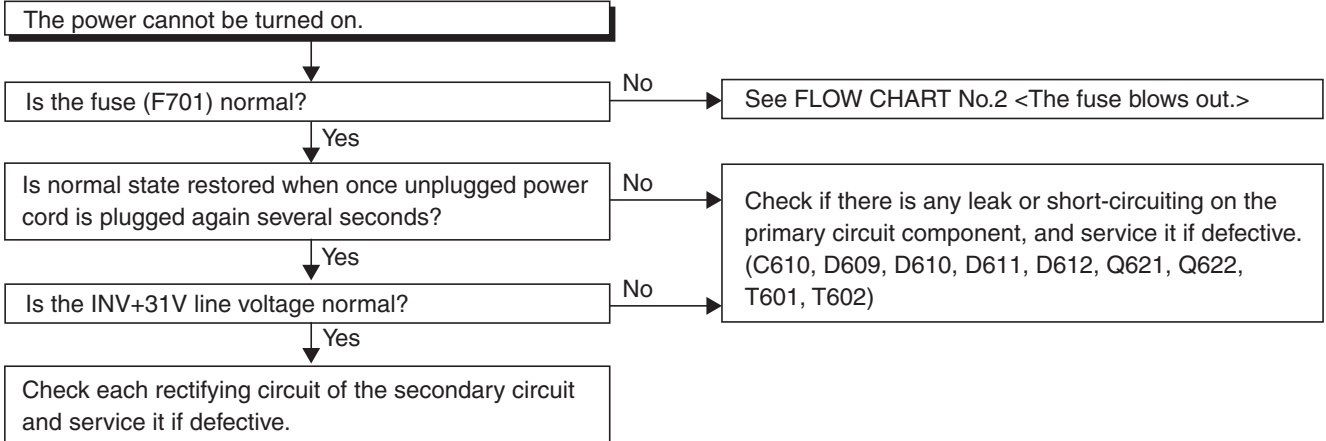
(Example)



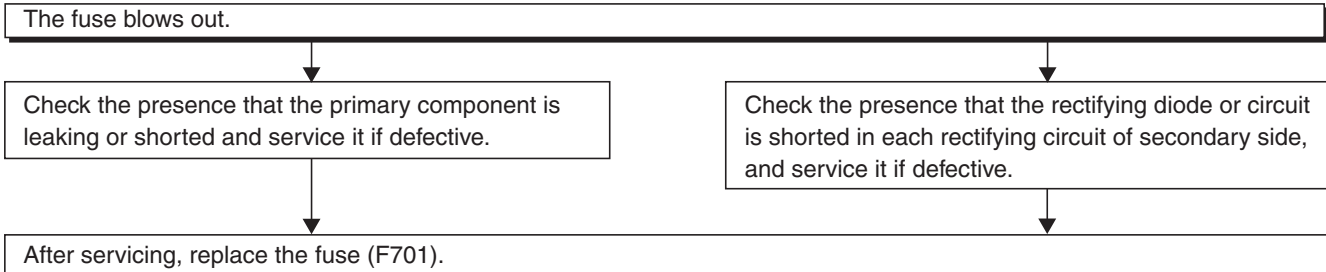
7. Press [⏻] button to turn off (standby).
8. Check "STAND BY" indicator (Red LED) lighting.
9. Remove USB storage device from TV set.
10. Press [⏻] button to turn on.

TROUBLESHOOTING

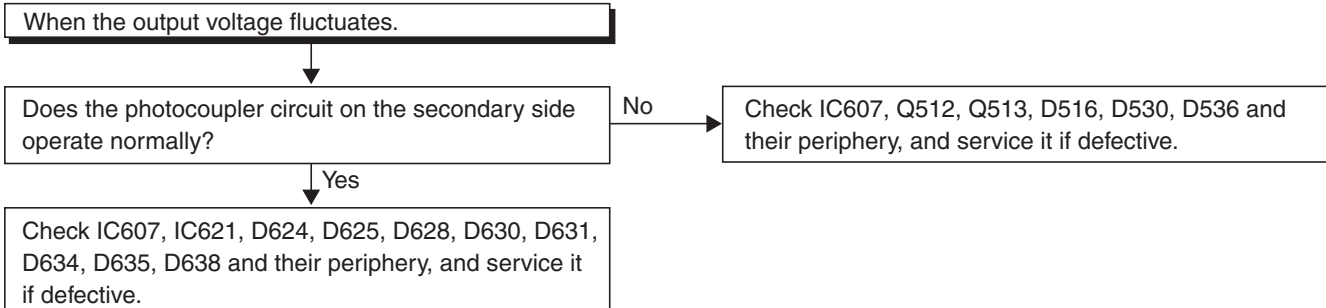
FLOW CHART NO.1



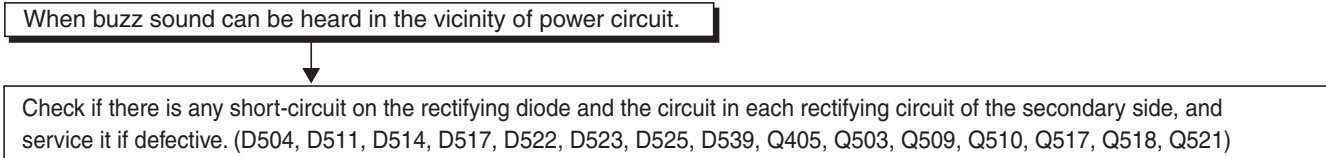
FLOW CHART NO.2



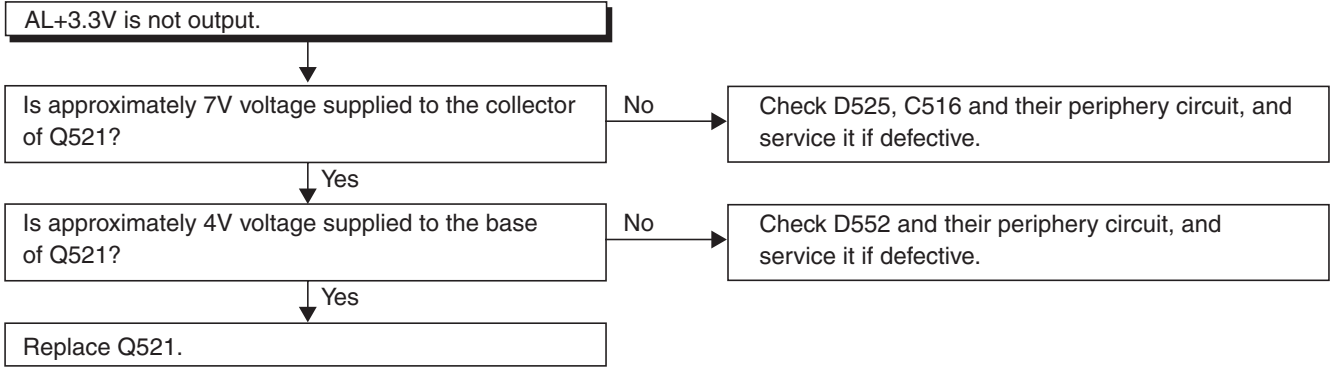
FLOW CHART NO.3



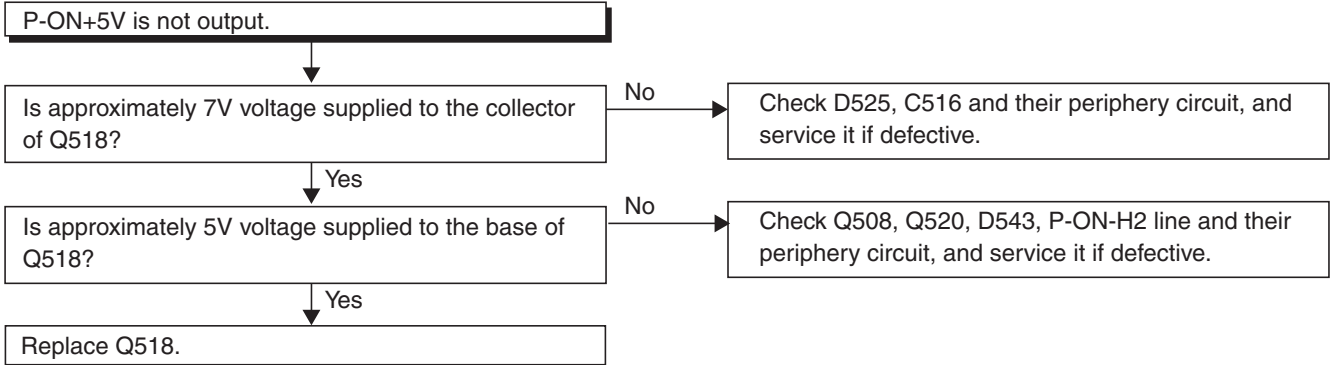
FLOW CHART NO.4



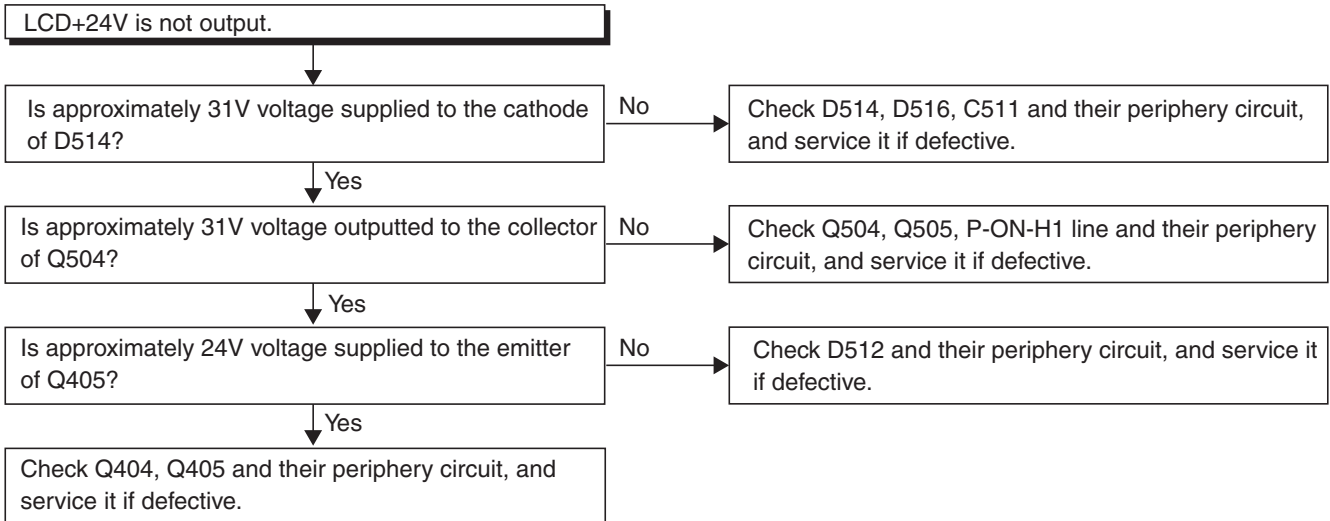
FLOW CHART NO.5



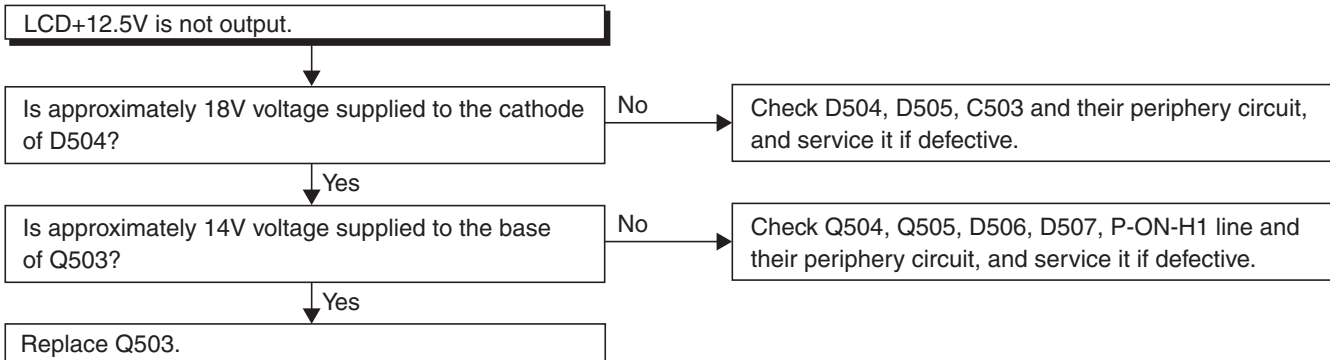
FLOW CHART NO.6



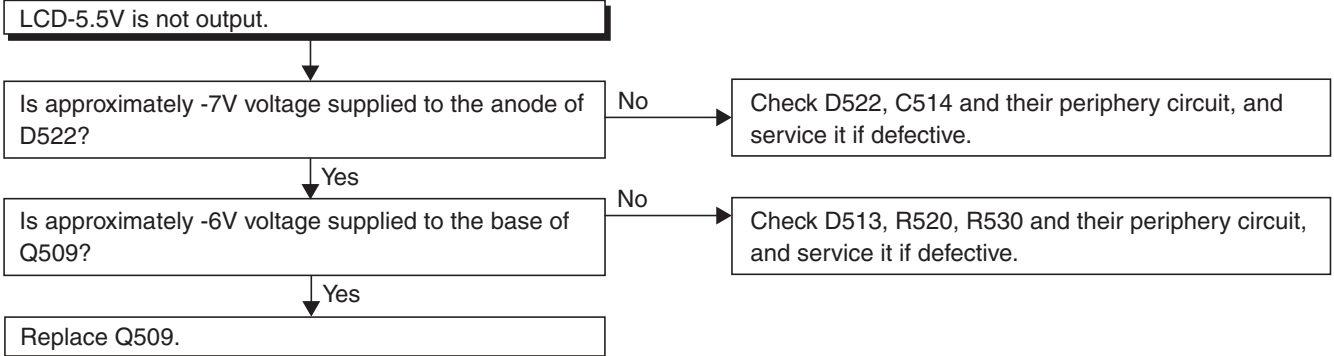
FLOW CHART NO.7



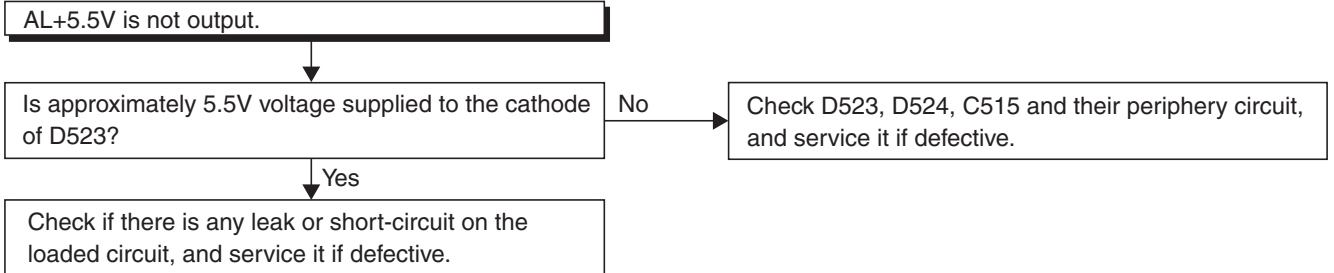
FLOW CHART NO.8



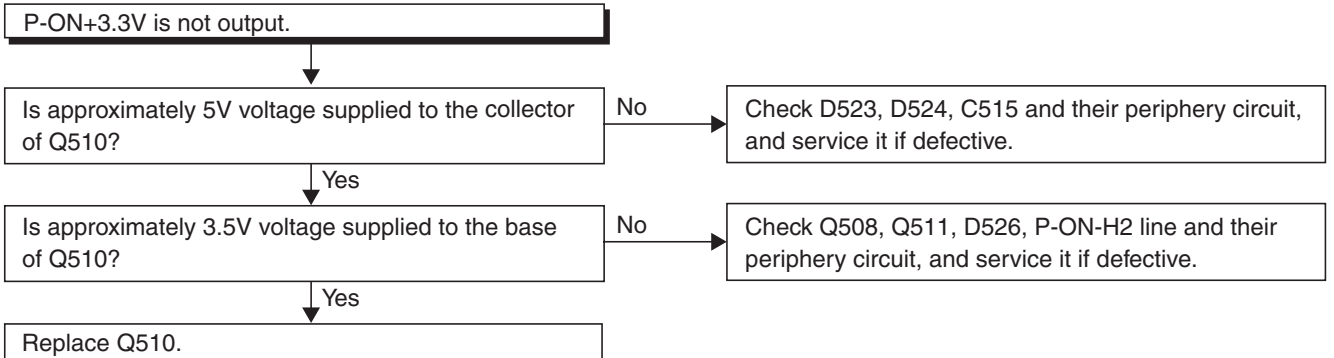
FLOW CHART NO.9



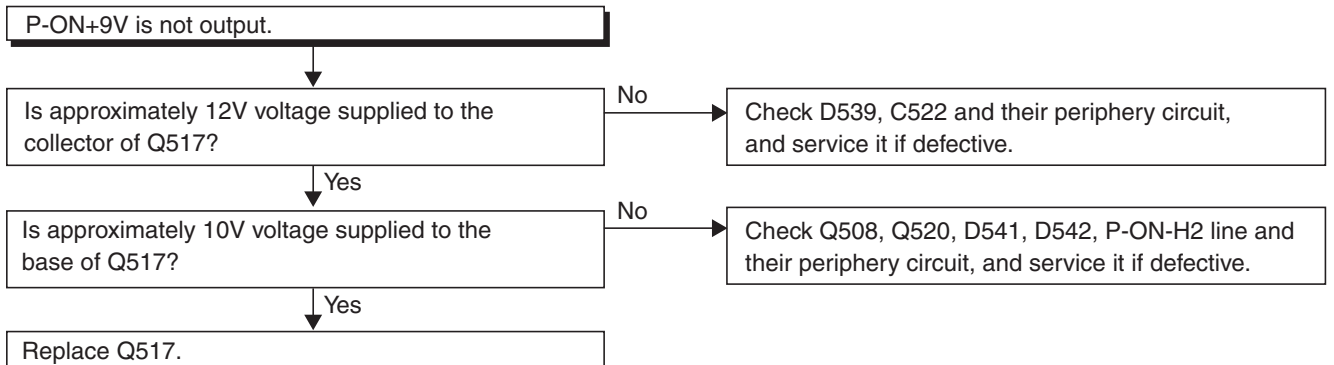
FLOW CHART NO.10



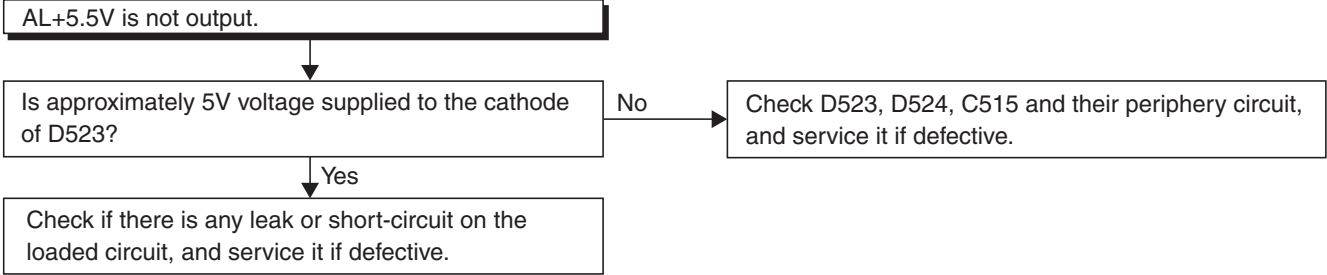
FLOW CHART NO.11



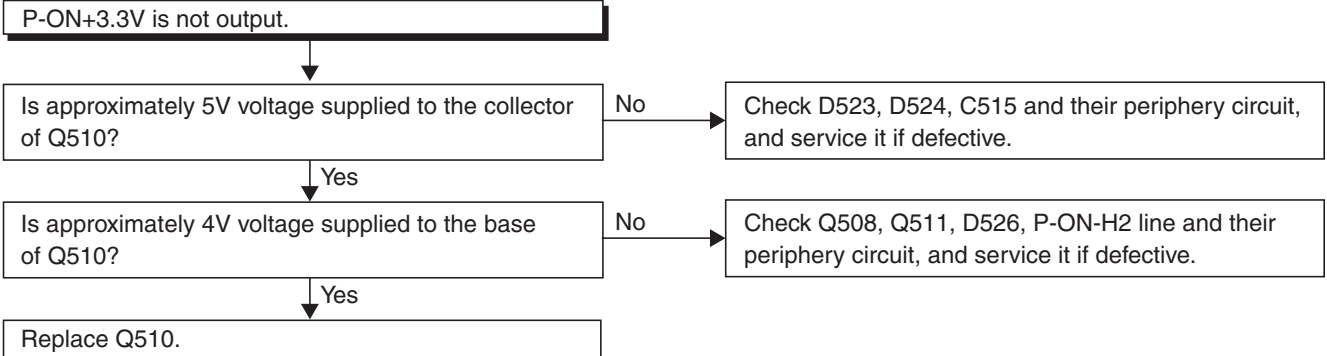
FLOW CHART NO.12



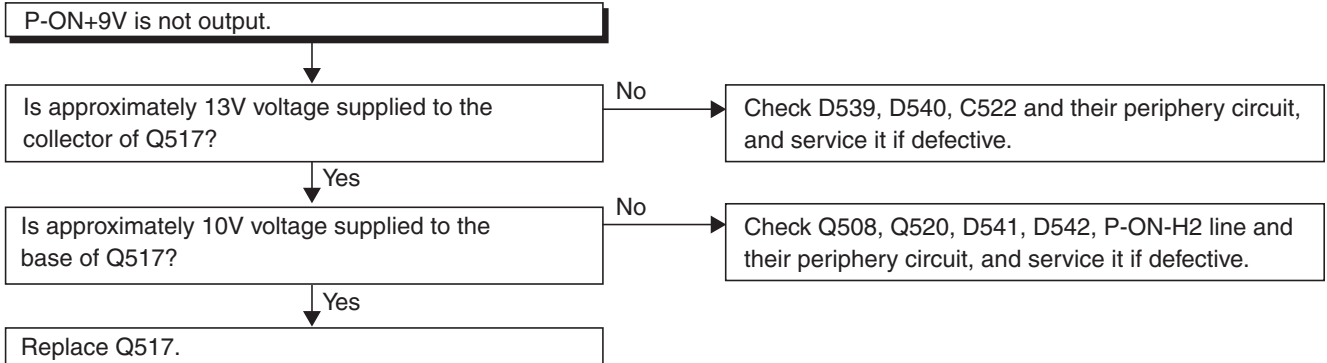
FLOW CHART NO.13



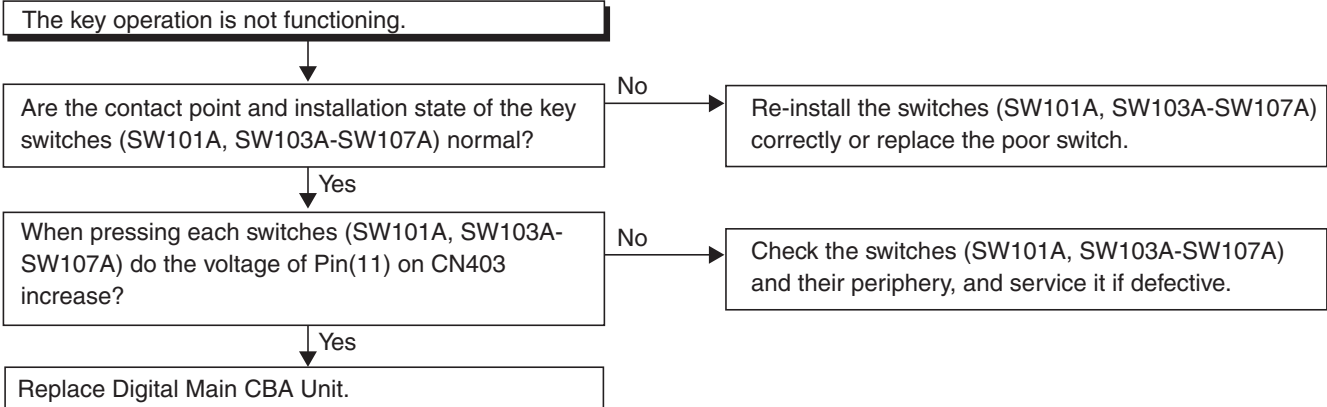
FLOW CHART NO.14



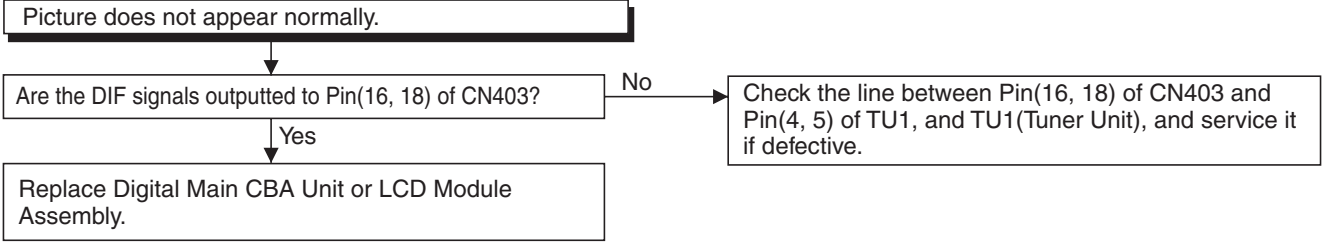
FLOW CHART NO.15



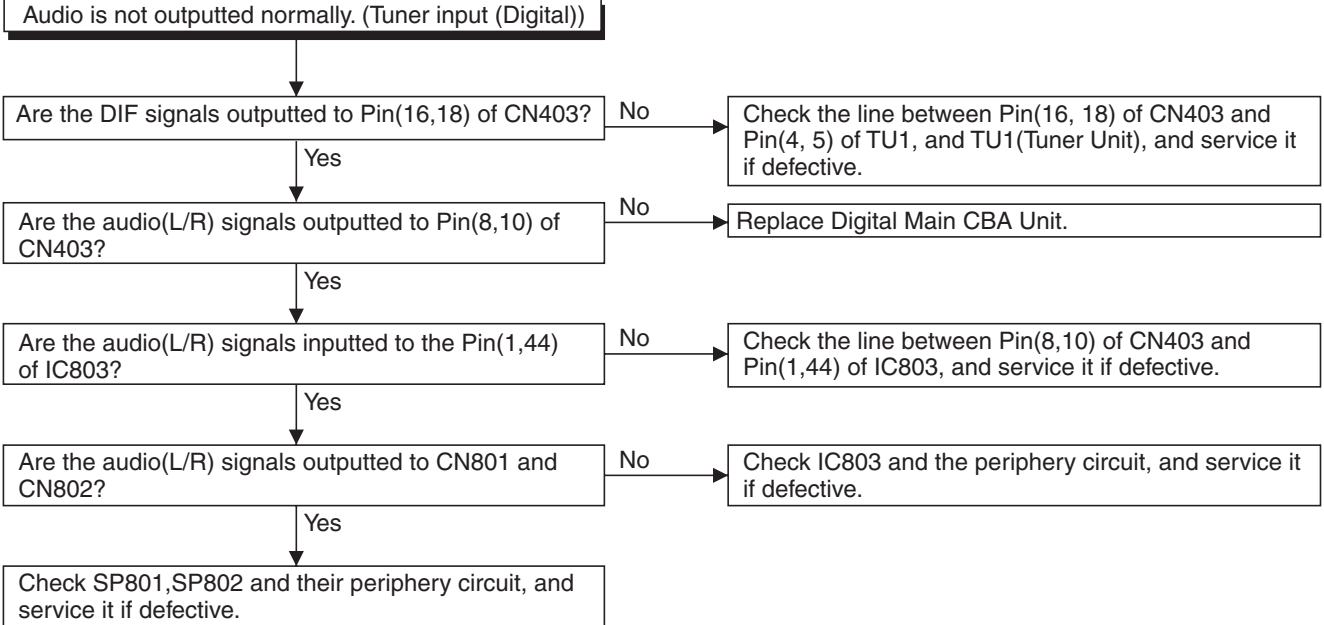
FLOW CHART NO.16



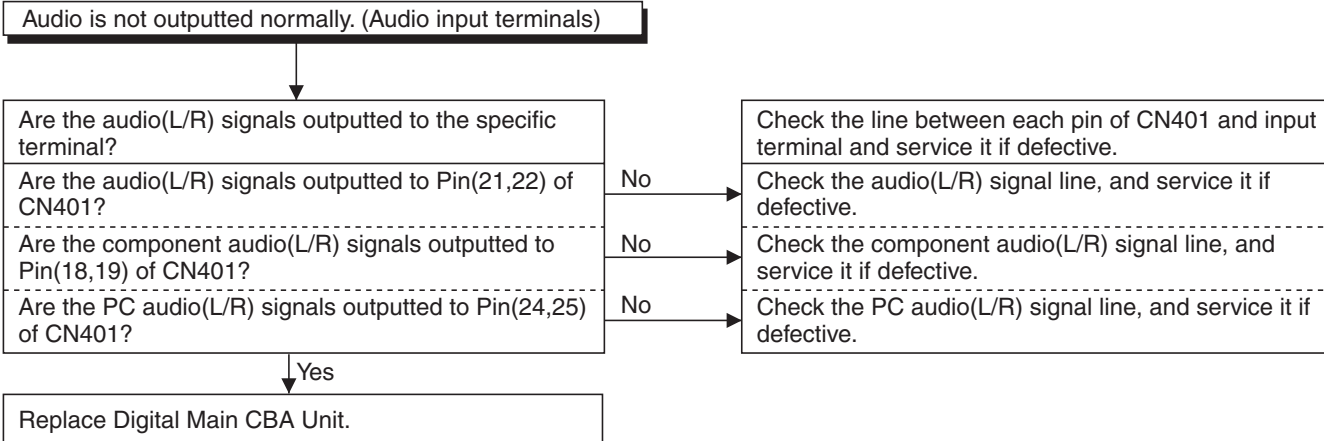
FLOW CHART NO.17



FLOW CHART NO.18

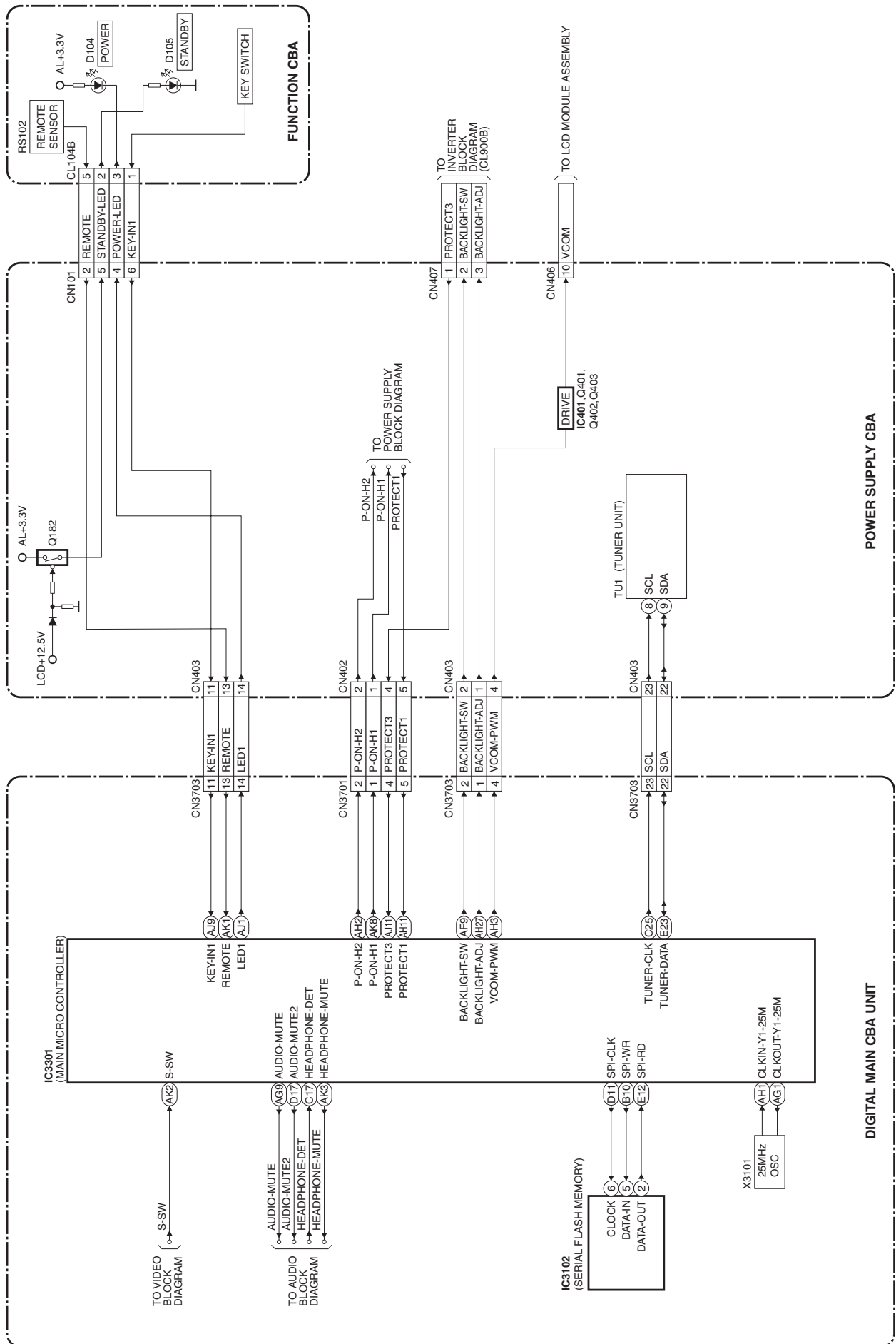


FLOW CHART NO.19

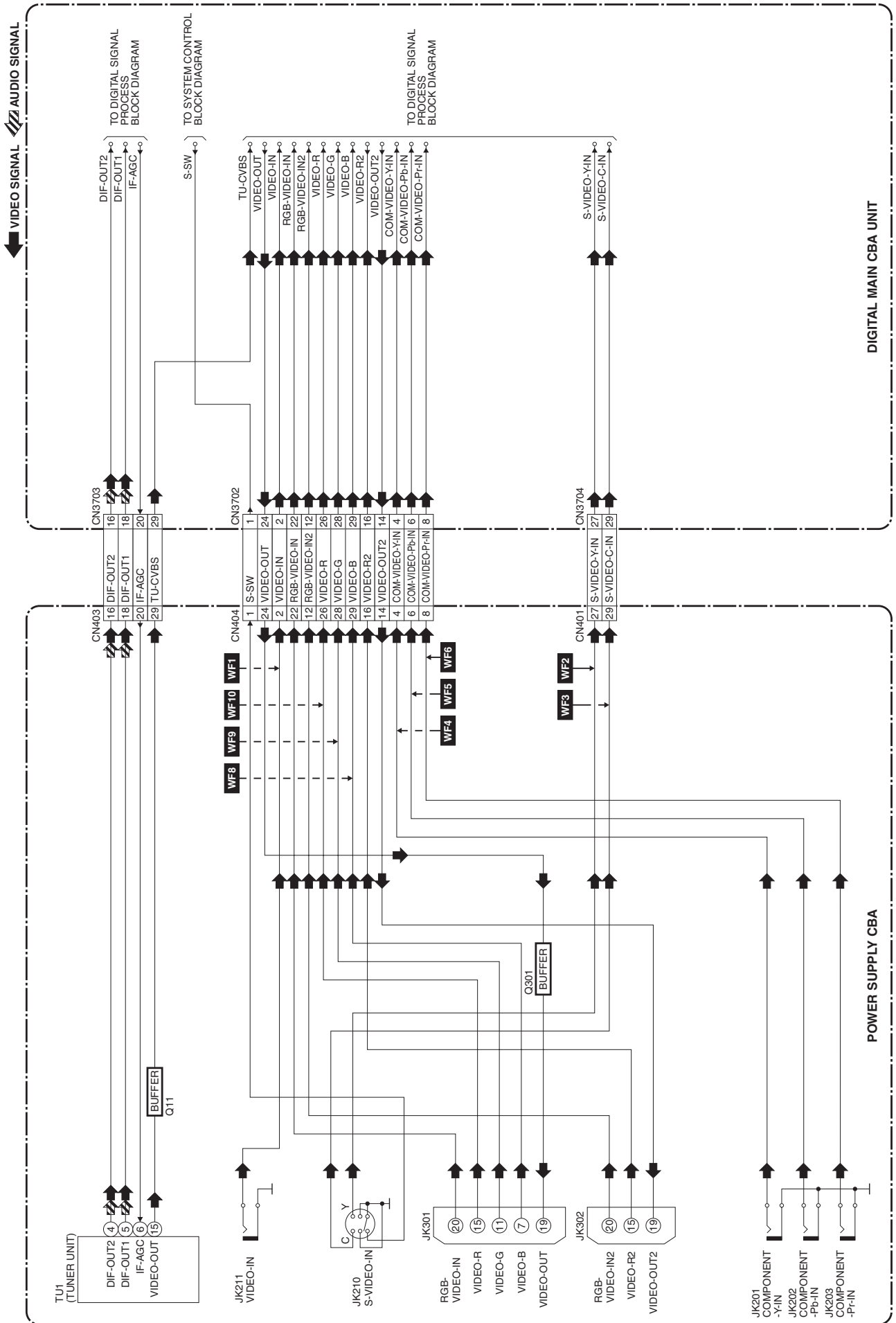


BLOCK DIAGRAMS

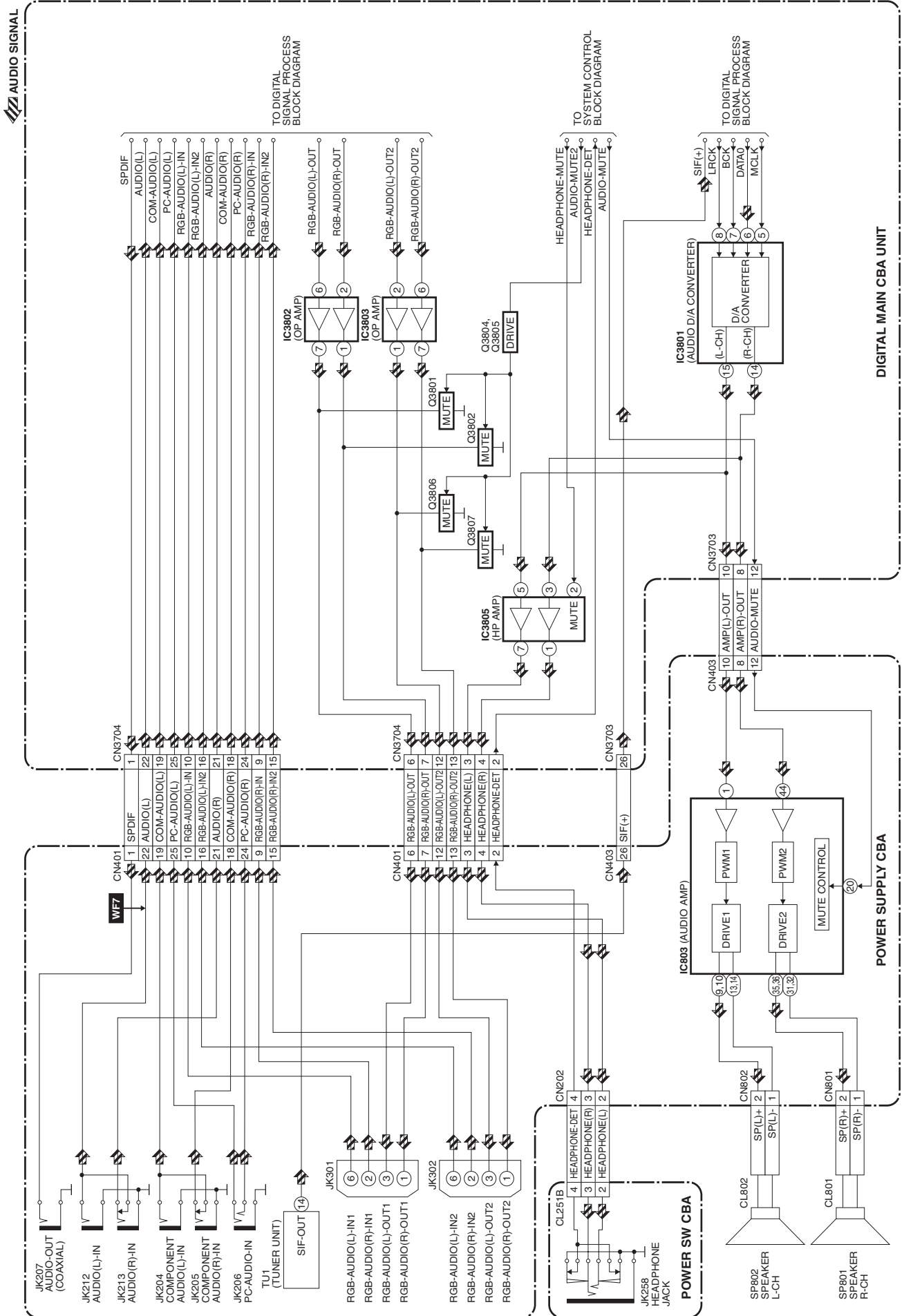
System Control Block Diagram



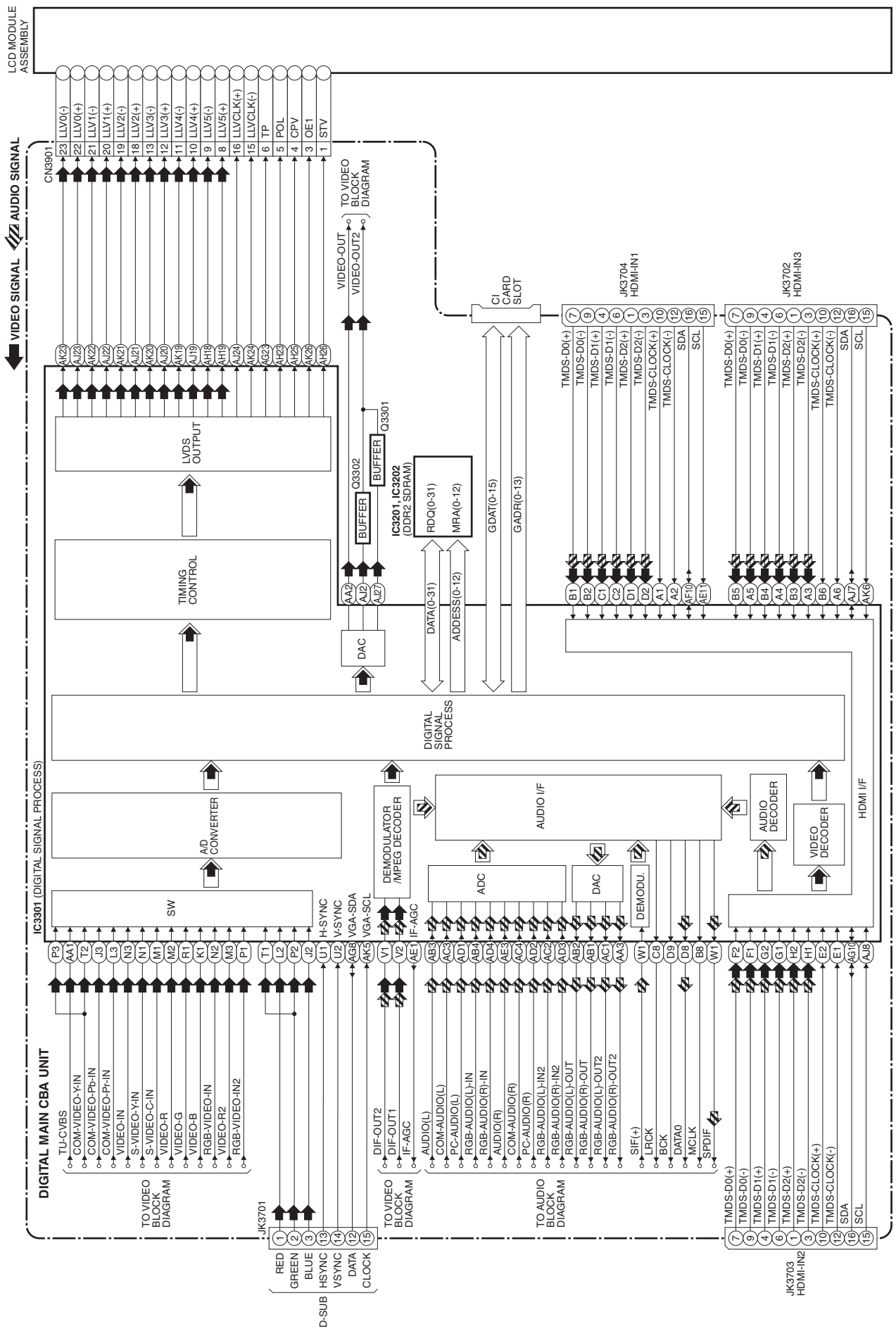
Video Block Diagram



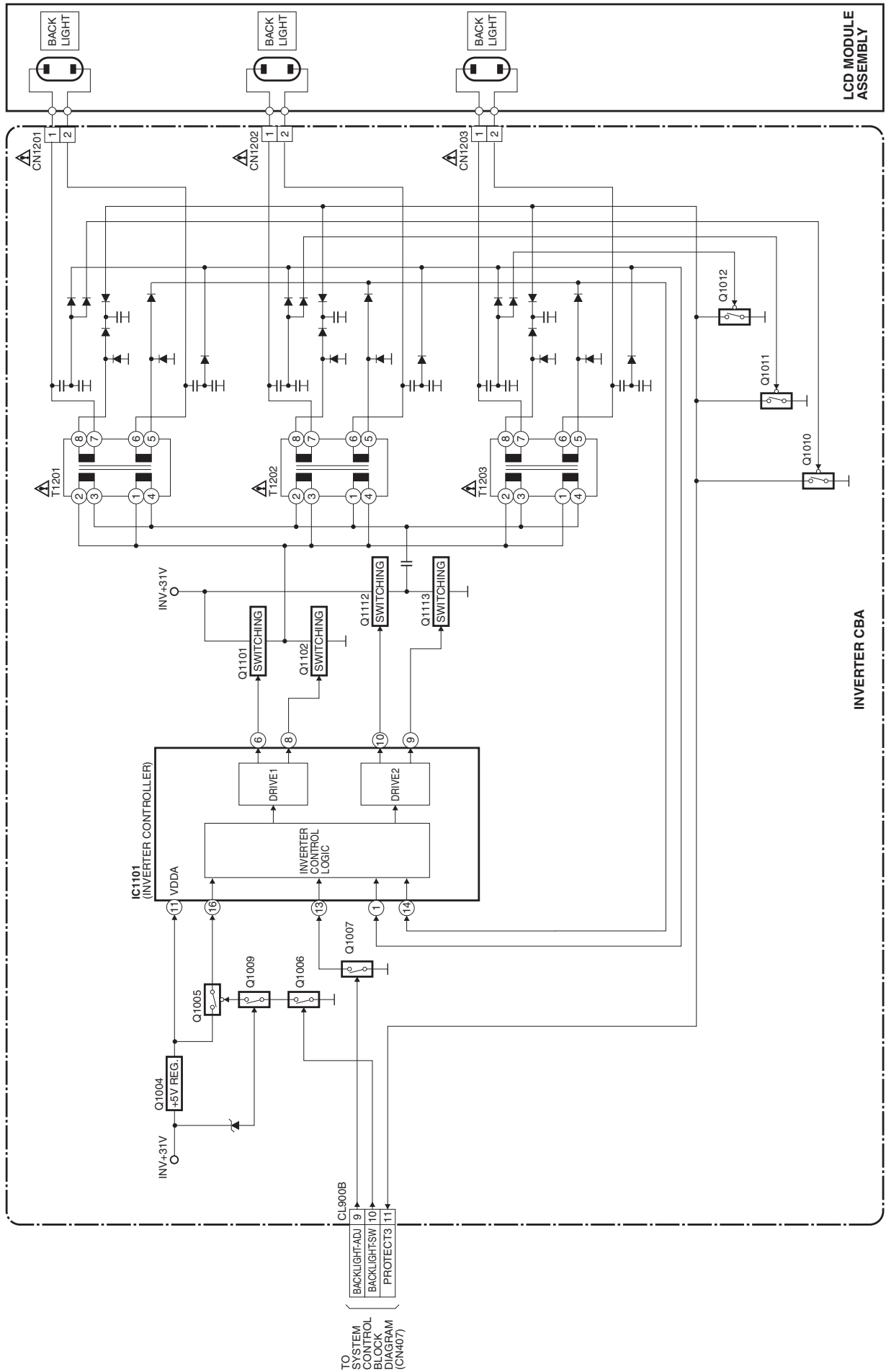
Audio Block Diagram



Digital Signal Process Block Diagram



Inverter Block Diagram



Power Supply Block Diagram

CAUTION !

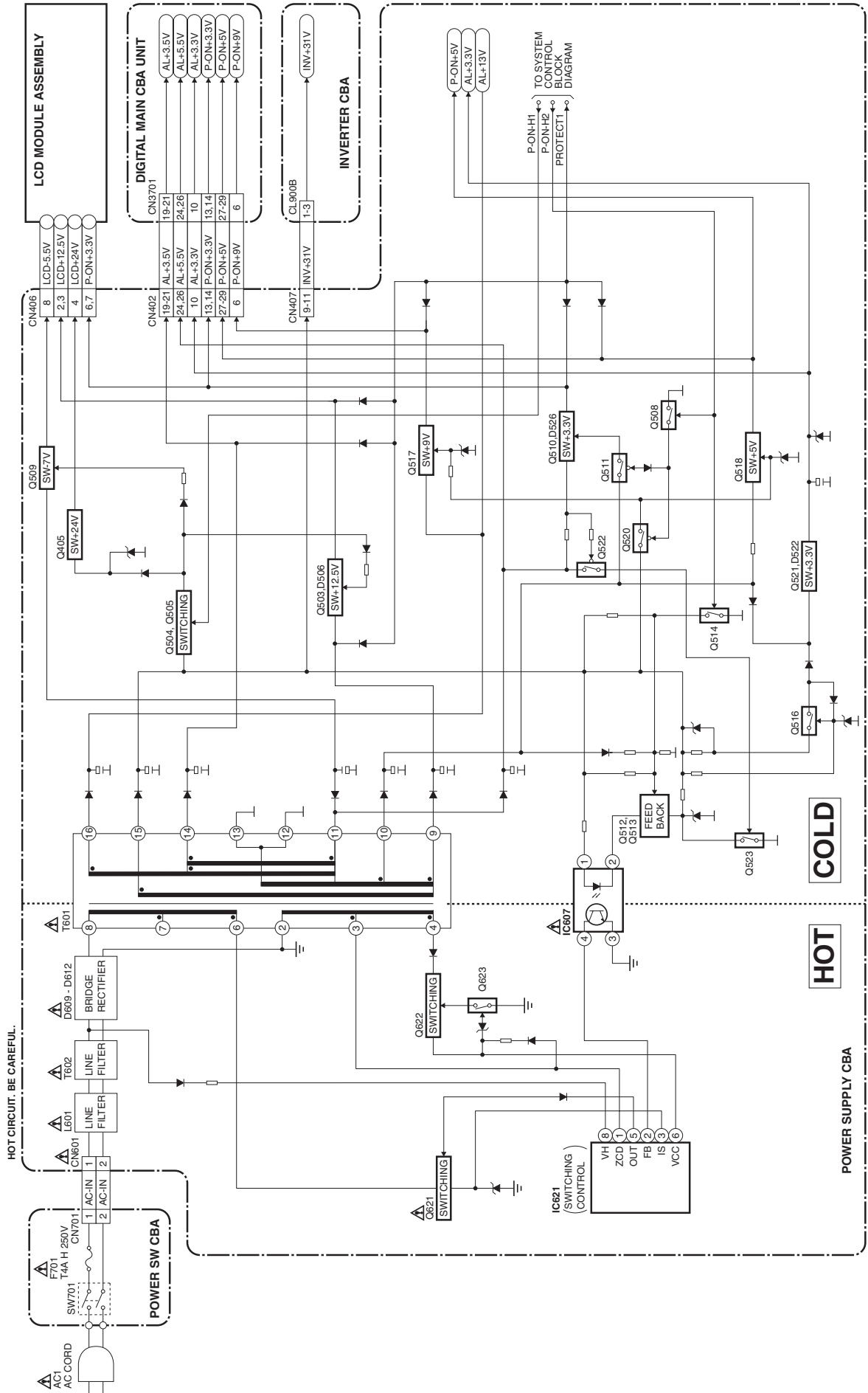
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F701) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

CAUTION !

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

NOTE:

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



SCHEMATIC DIAGRAMS / CBA AND TEST POINTS

Standard Notes

WARNING

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

Notes:

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

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

1. CAUTION:

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

2. CAUTION:

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

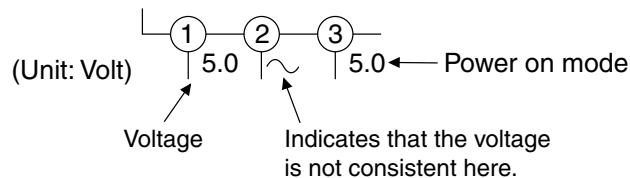
If Main Fuse (F701) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

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

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

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

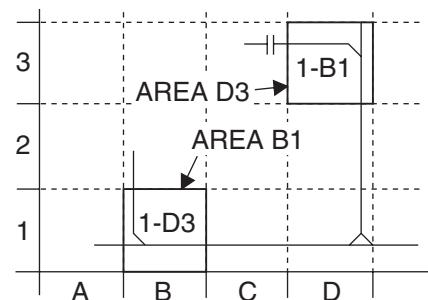


5. How to read converged lines

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

Examples:

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



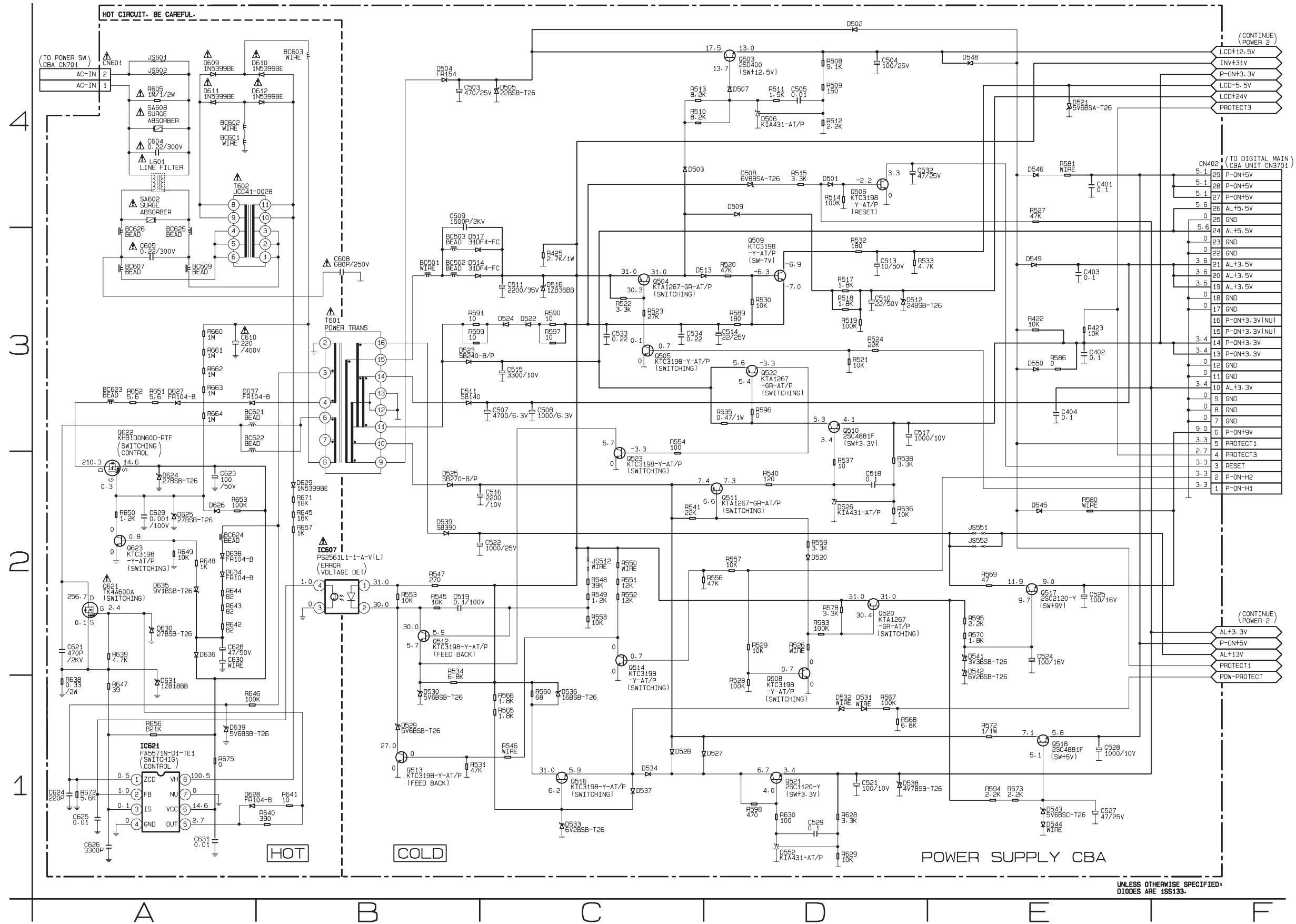
6. Test Point Information

- ⊙ : Indicates a test point with a jumper wire across a hole in the PCB.
- : Used to indicate a test point with a component lead on foil side.
- ⊘ : Used to indicate a test point with no test pin.
- : Used to indicate a test point with a test pin.

Power Supply 1 Schematic Diagram

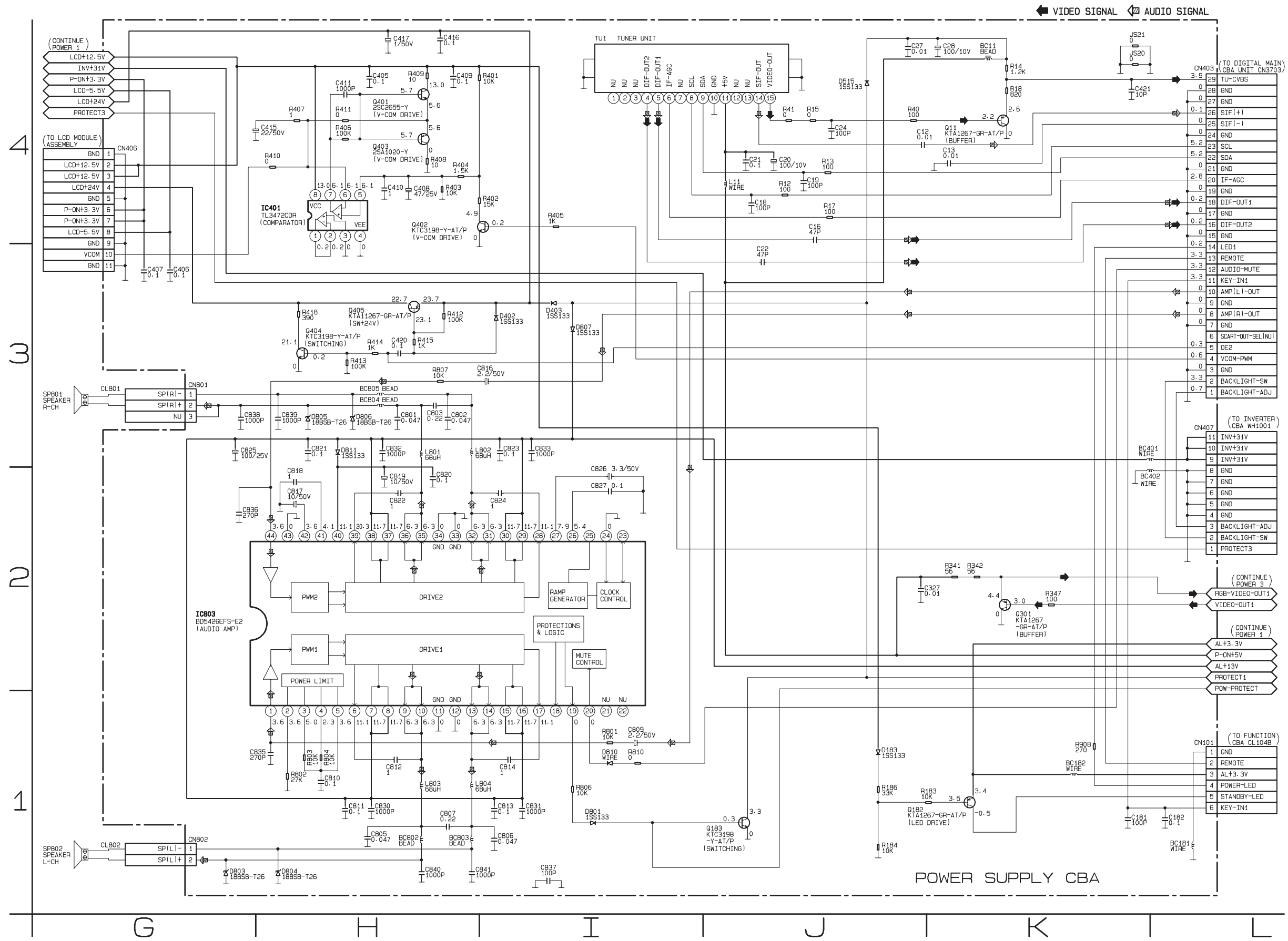
NOTE:

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

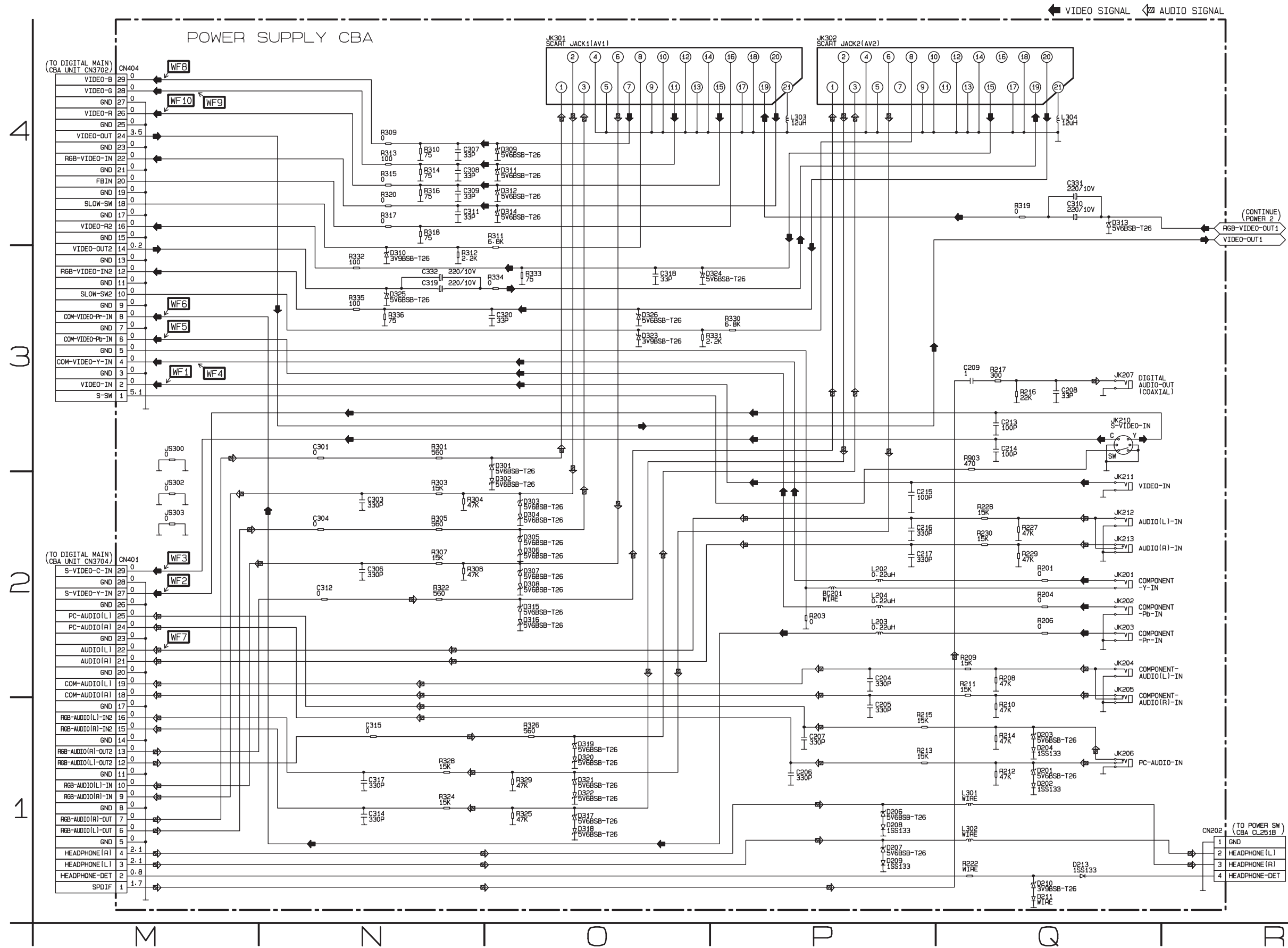


UNLESS OTHERWISE SPECIFIED:
DIODES ARE 1SS133.

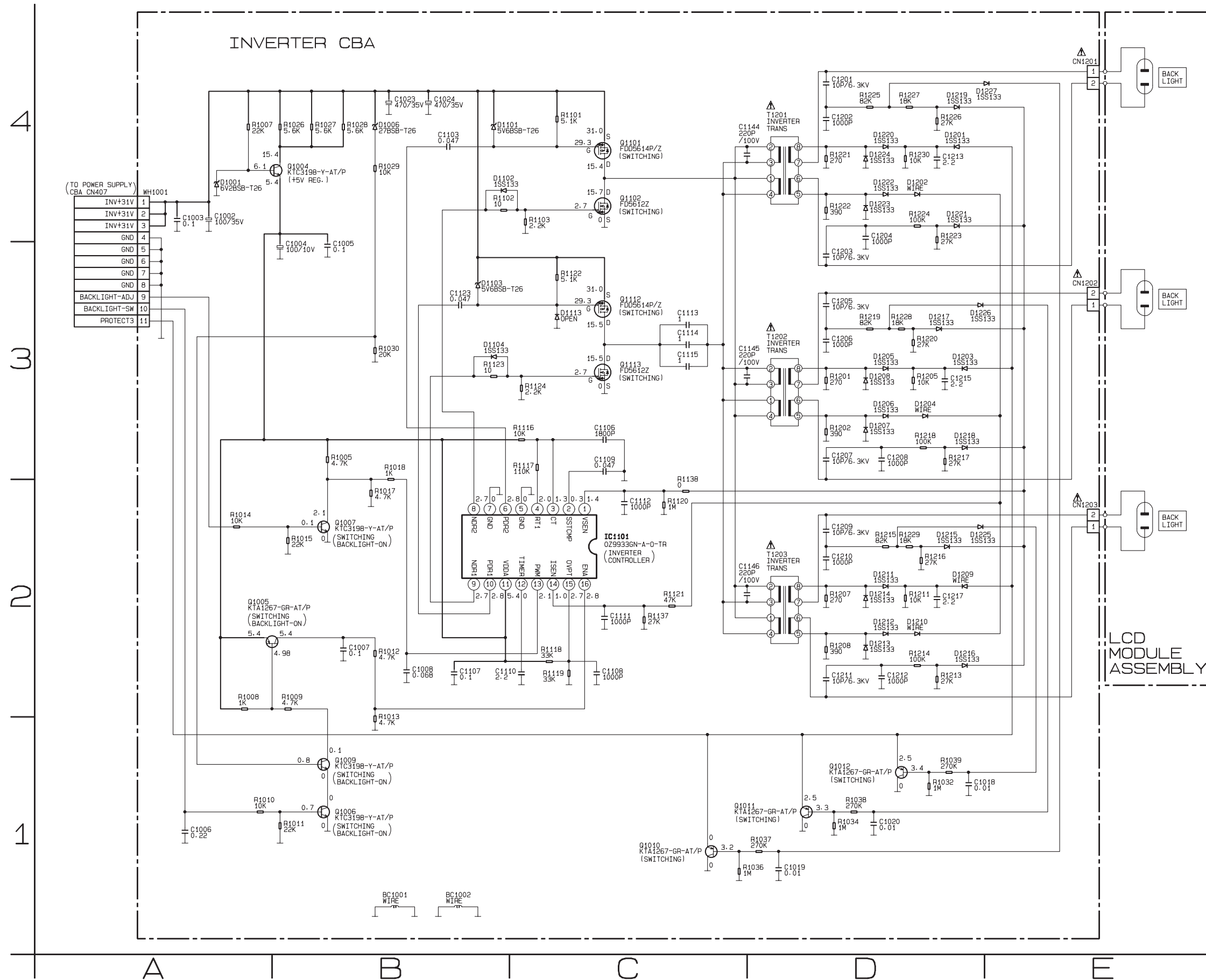
Power Supply 2 Schematic Diagram



Power Supply 3 Schematic Diagram



Inverter Schematic Diagram



Power SW Schematic Diagram

CAUTION !

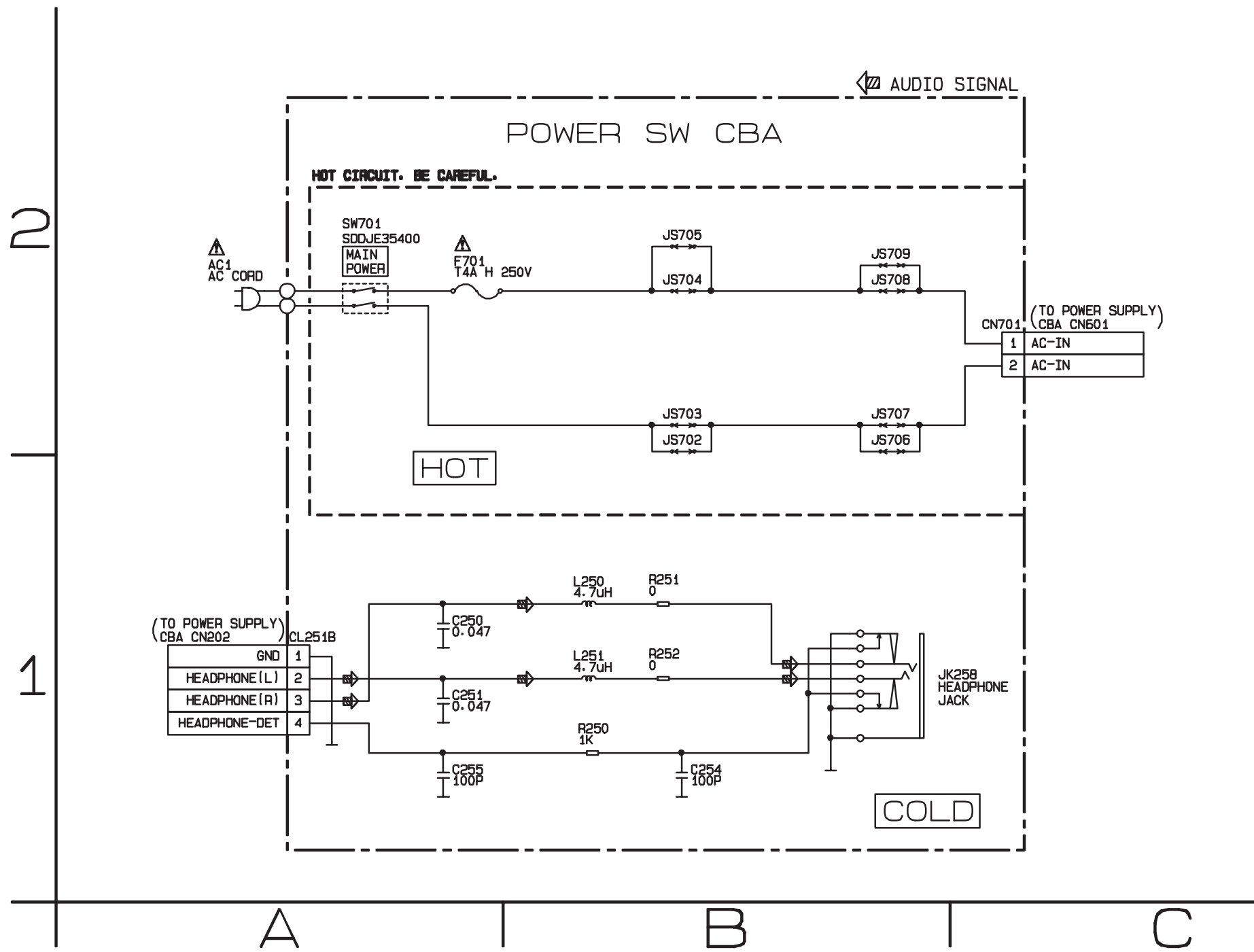
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
 If Main Fuse (F701) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
 Otherwise it may cause some components in the power supply circuit to fail.

CAUTION !

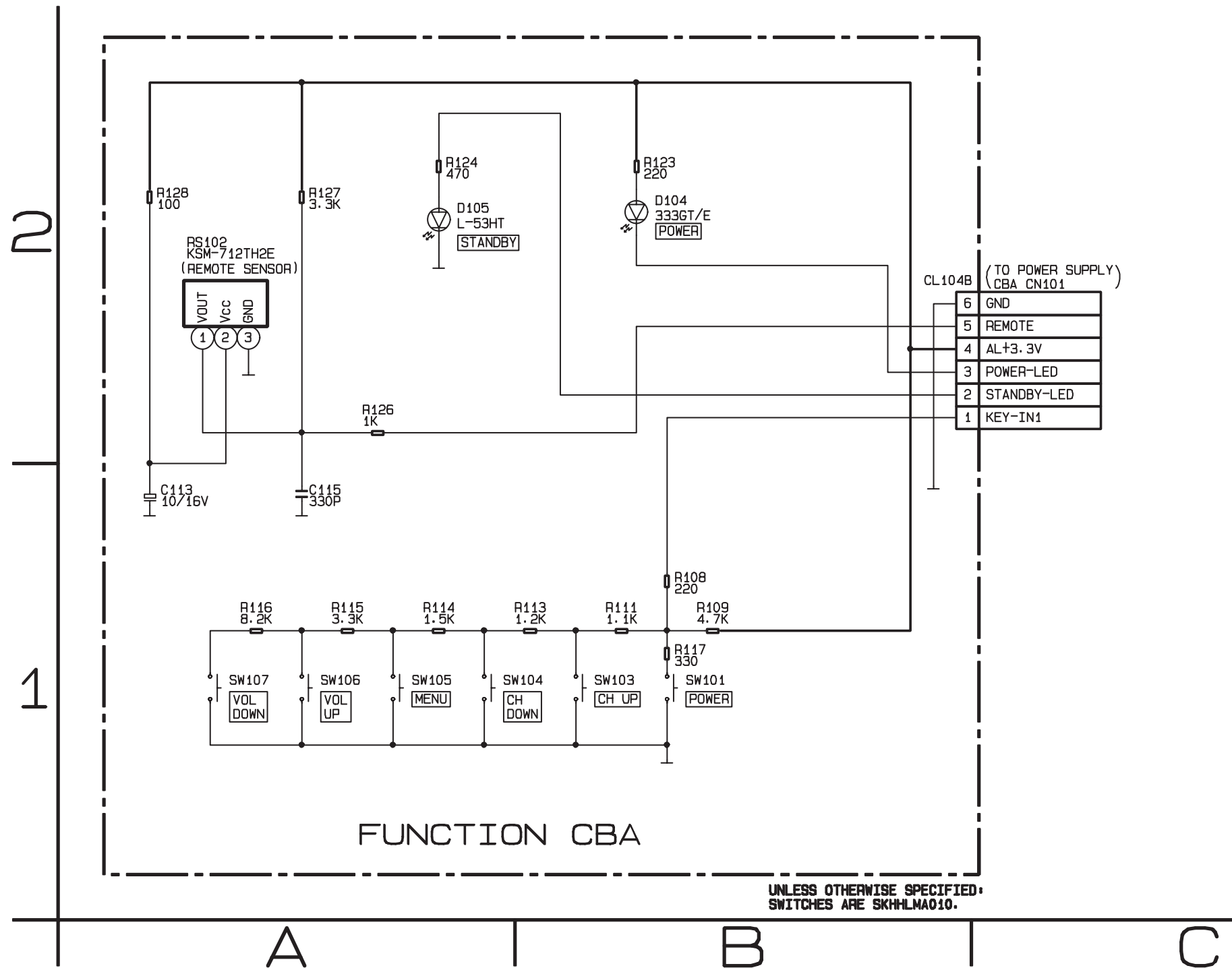
For continued protection against fire hazard,
 replace only with the same type fuse.

NOTE:

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

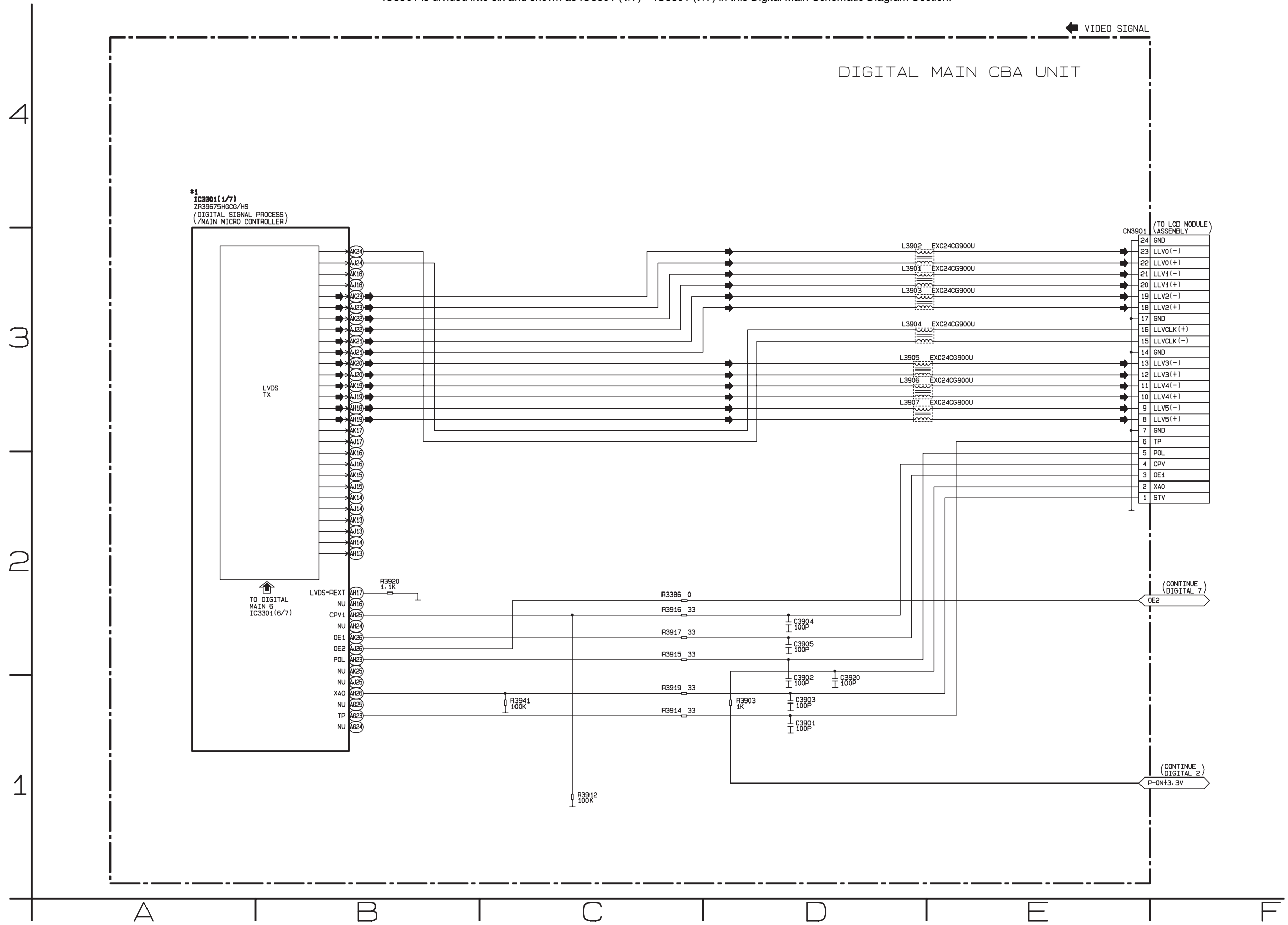


Function Schematic Diagram



Digital Main 1 Schematic Diagram

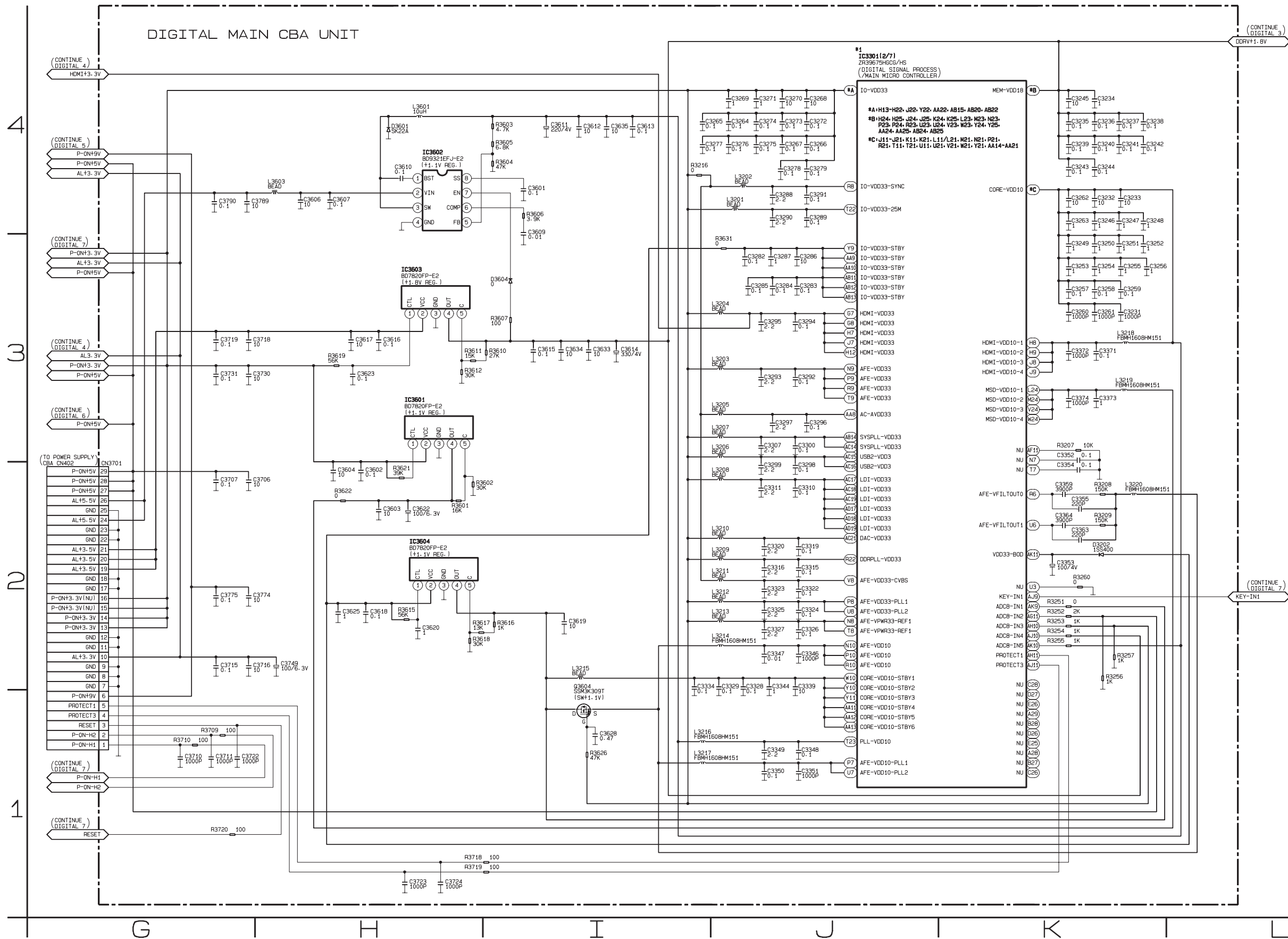
*1 NOTE:
 The order of pins shown in this diagram is different from that of actual IC3301.
 IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



Digital Main 2 Schematic Diagram

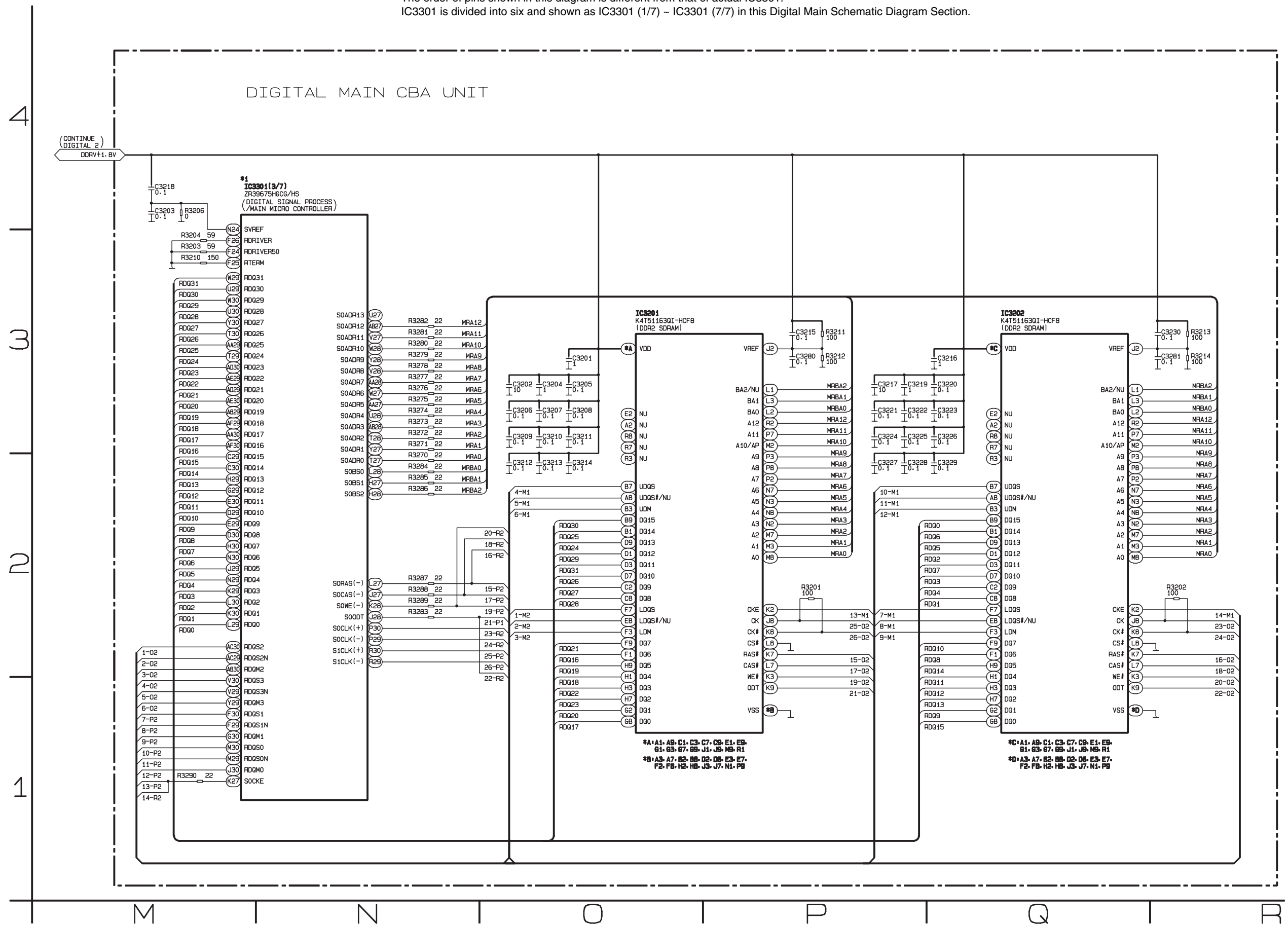
*1 NOTE:

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



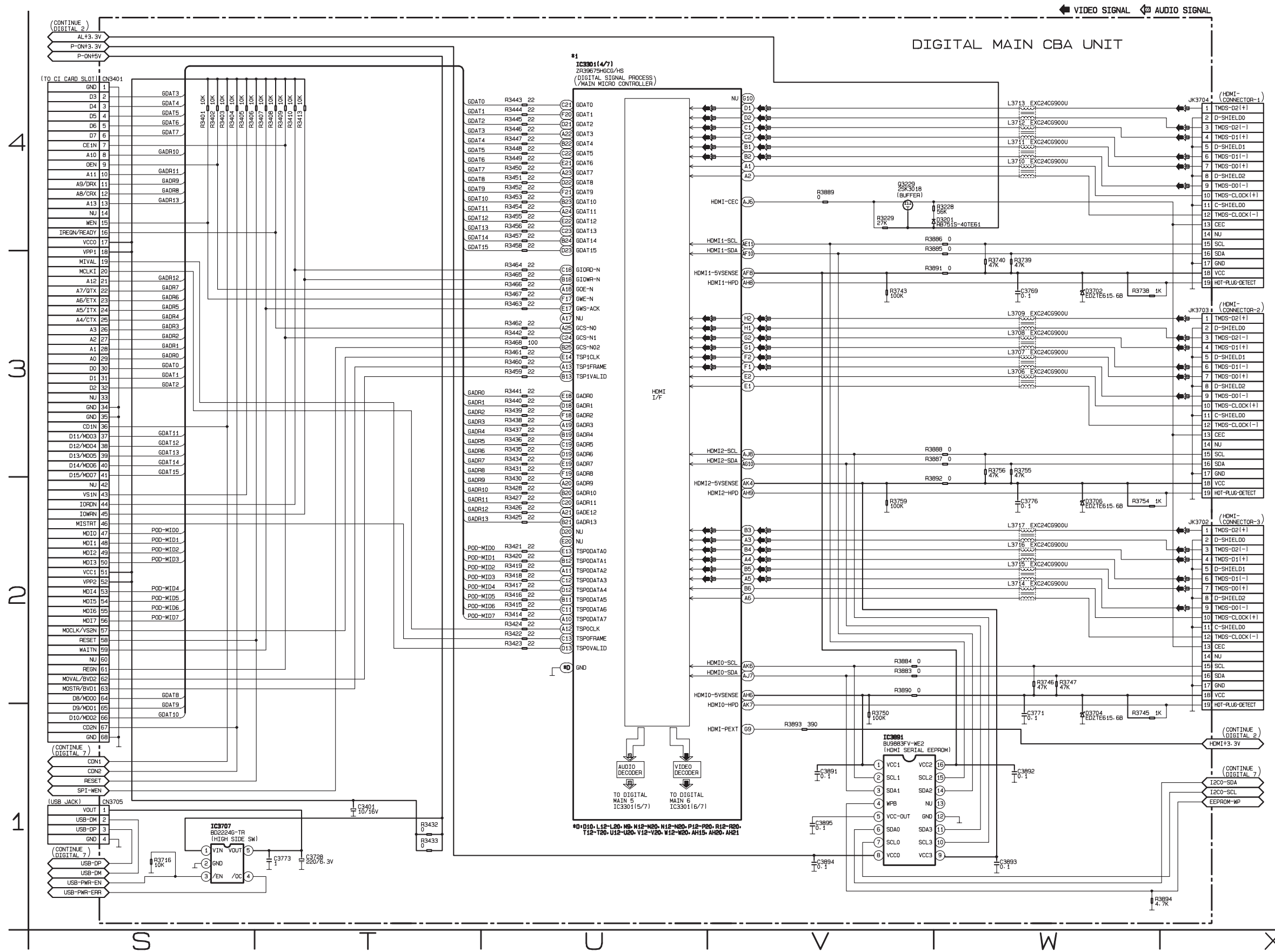
Digital Main 3 Schematic Diagram

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



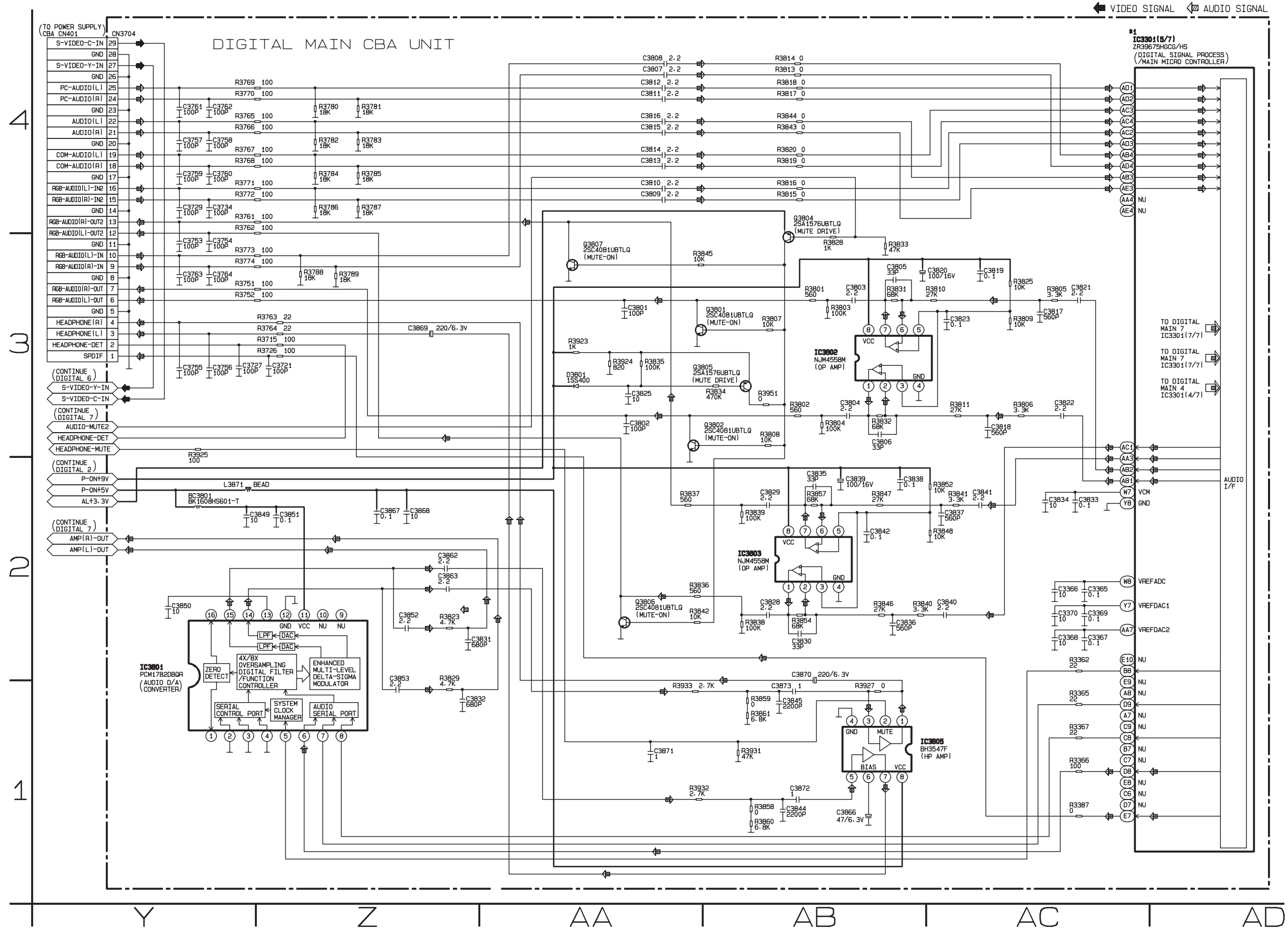
Digital Main 4 Schematic Diagram

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



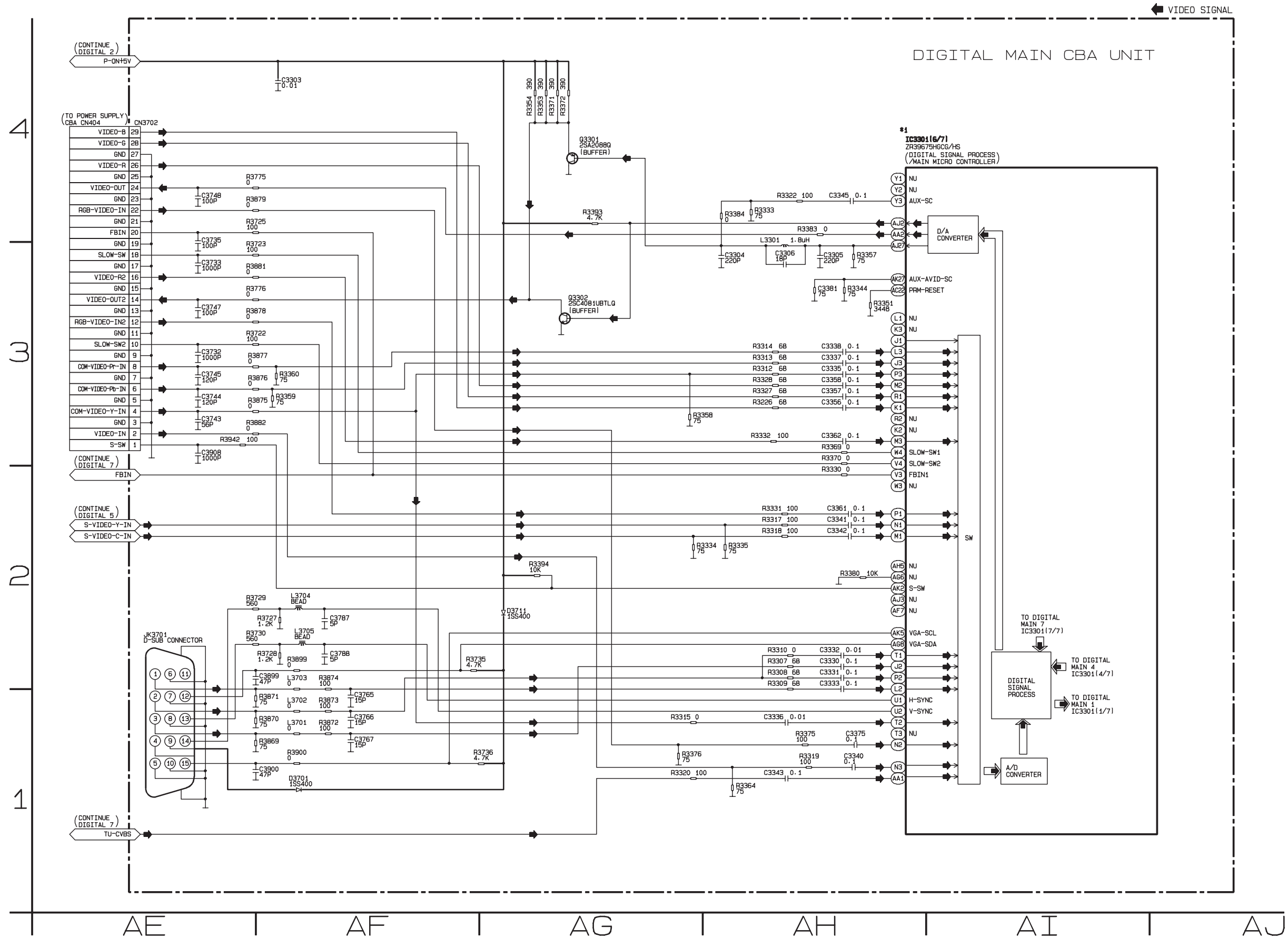
Digital Main 5 Schematic Diagram

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



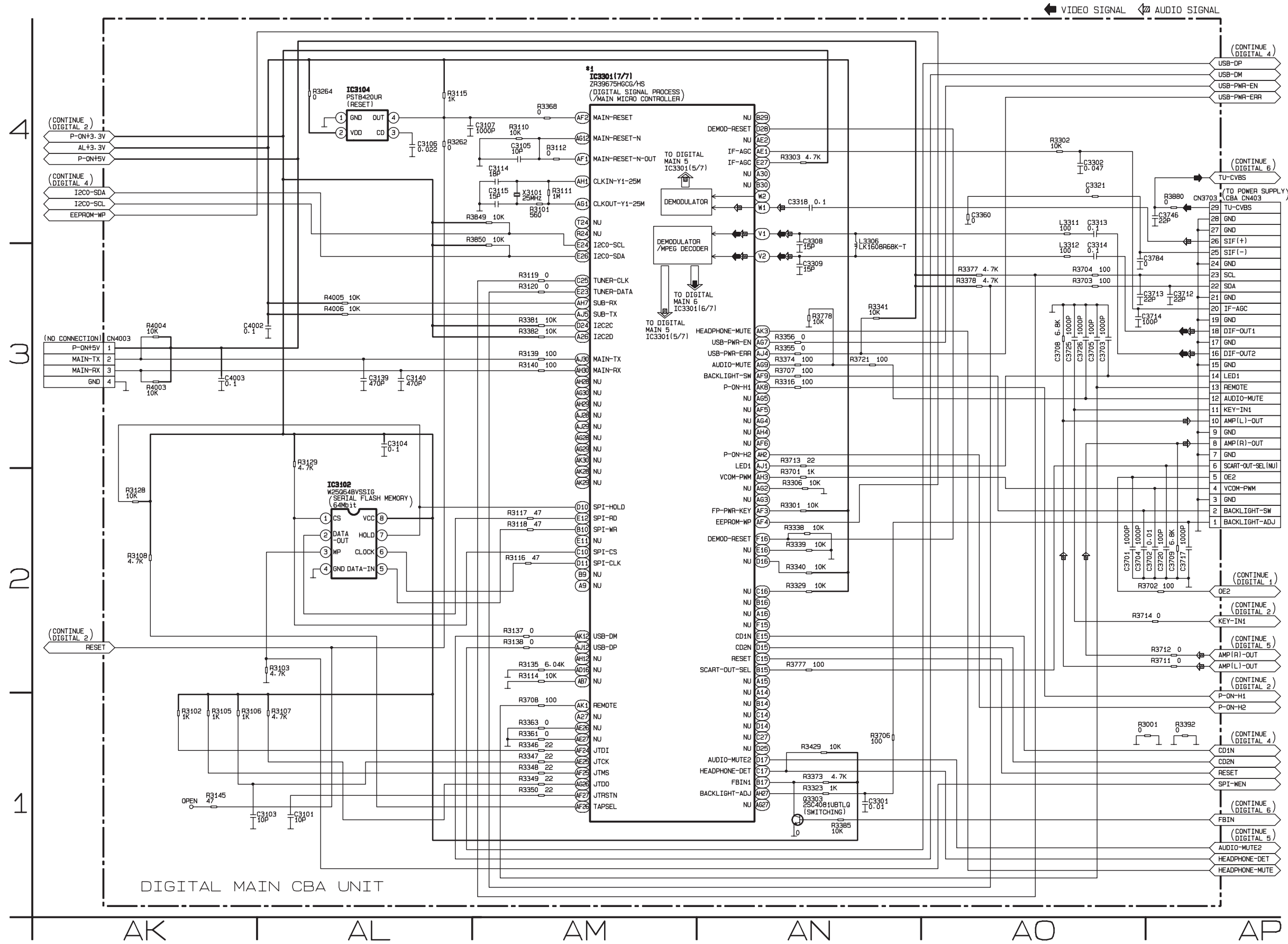
Digital Main 6 Schematic Diagram

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



Digital Main 7 Schematic Diagram

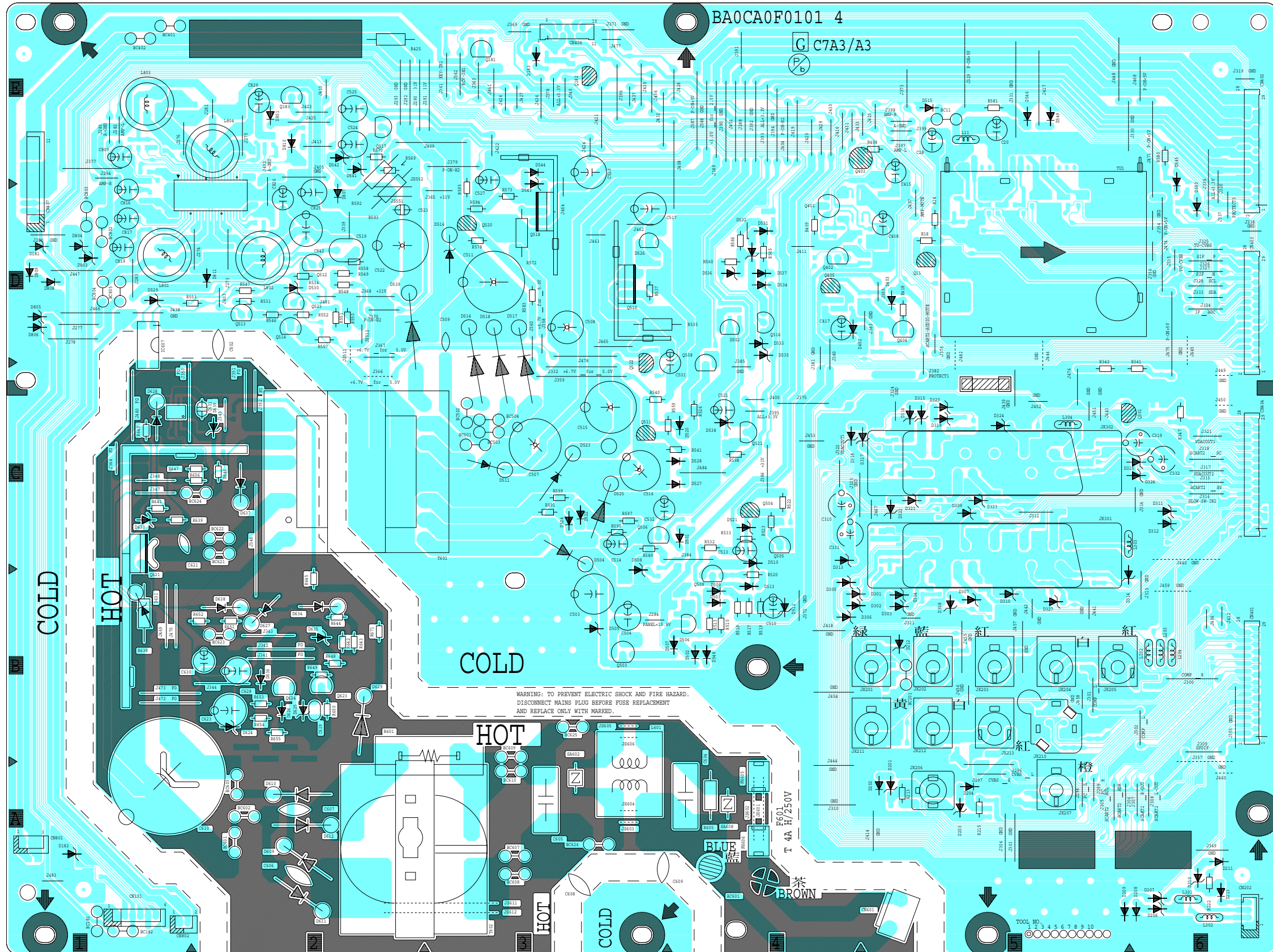
*1 NOTE:
 The order of pins shown in this diagram is different from that of actual IC3301.
 IC3301 is divided into six and shown as IC3301 (1/7) ~ IC3301 (7/7) in this Digital Main Schematic Diagram Section.



Power Supply CBA Top View

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

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

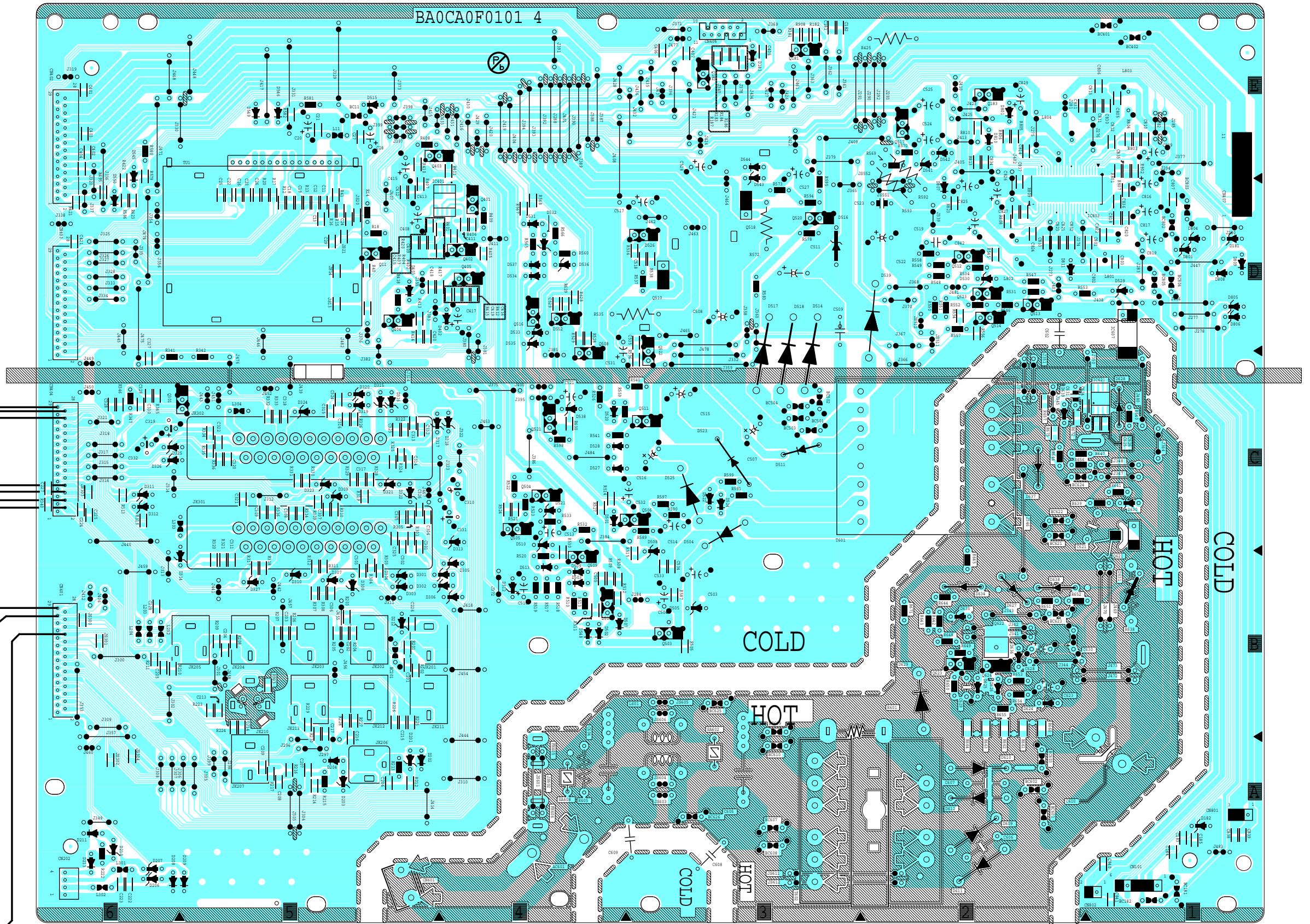


Power Supply CBA Bottom View

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

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

- WF8**
PIN 29 OF
CN404
- WF9**
PIN 28 OF
CN404
- WF10**
PIN 26 OF
CN404
- WF6**
PIN 8 OF
CN404
- WF5**
PIN 6 OF
CN404
- WF4**
PIN 4 OF
CN404
- WF1**
PIN 2 OF
CN404
- WF3**
PIN 29 OF
CN401
- WF2**
PIN 27 OF
CN401
- WF7**
PIN 22 OF
CN401



Inverter CBA, Function CBA & Power SW CBA Top View

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

CAUTION !

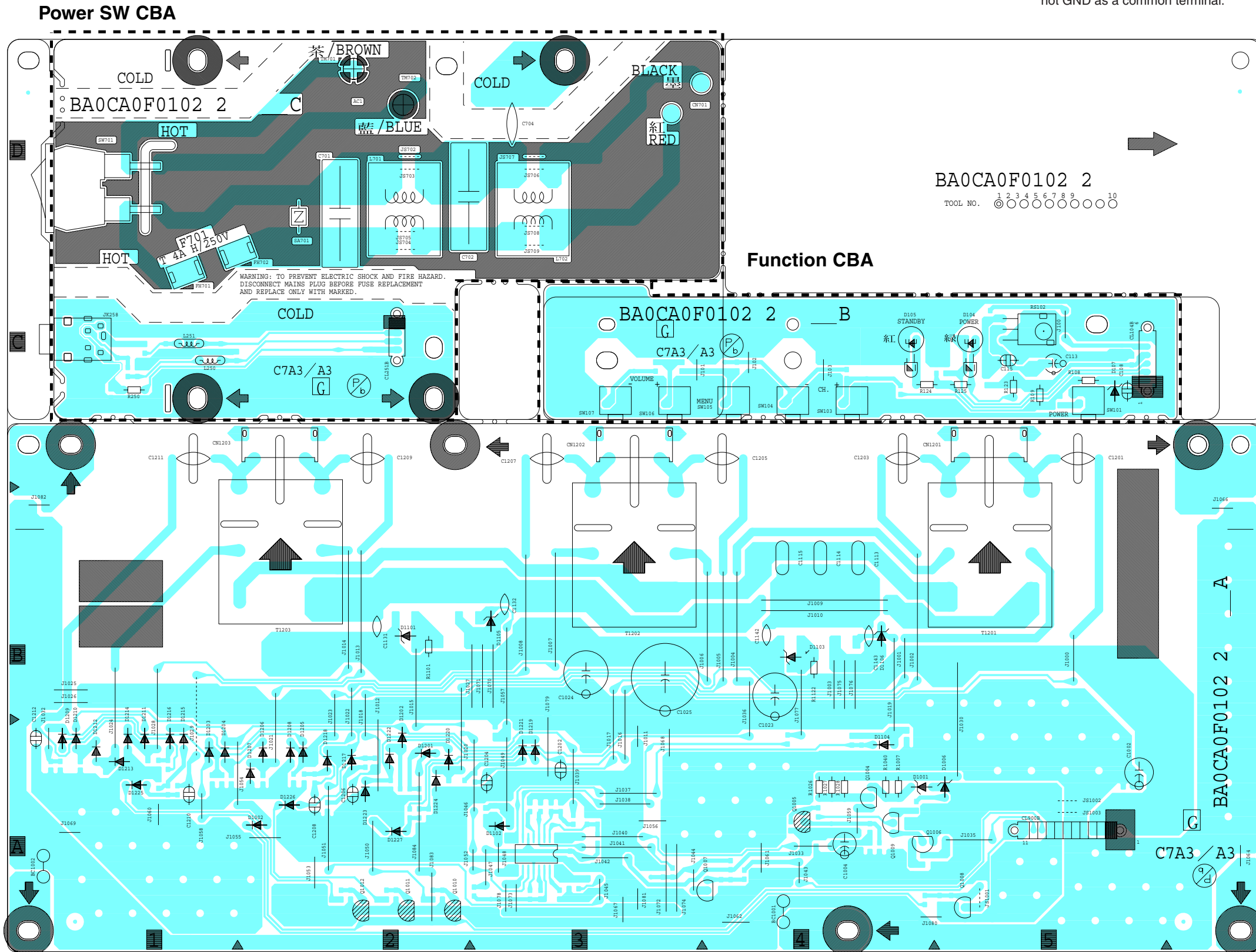
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F701) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power 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.



BA0CA0F0102 2
TOOL NO. 1 2 3 4 5 6 7 8 9 10
◎ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○

Inverter CBA

Inverter CBA, Function CBA & Power SW CBA Bottom View

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

CAUTION !

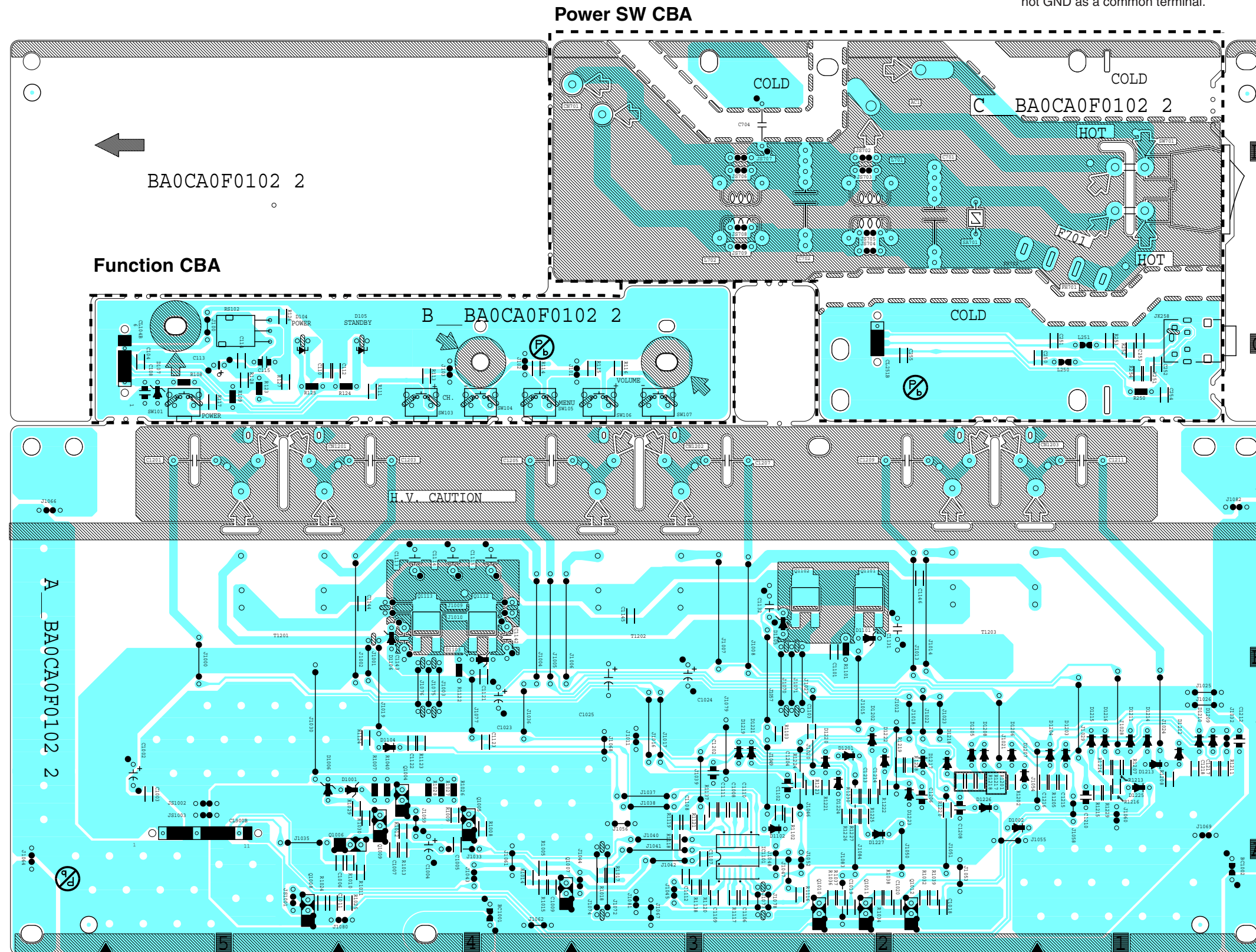
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F701) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

CAUTION !

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

NOTE:

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

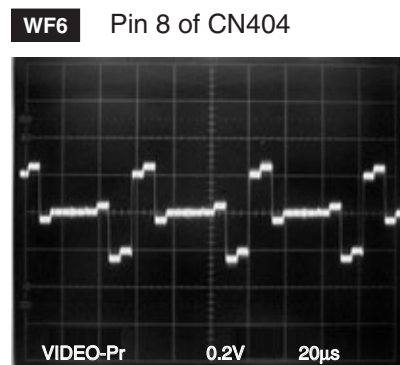
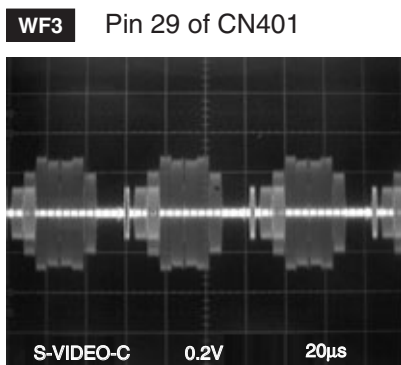
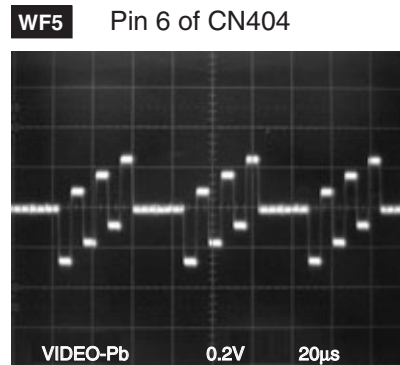
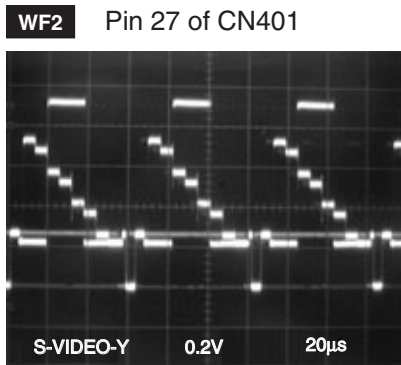
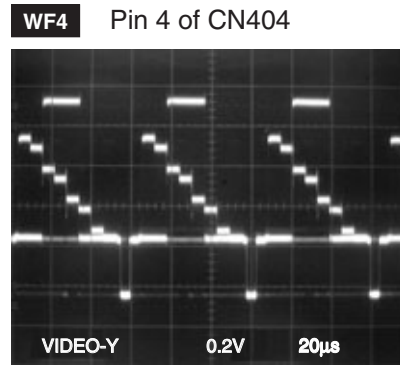
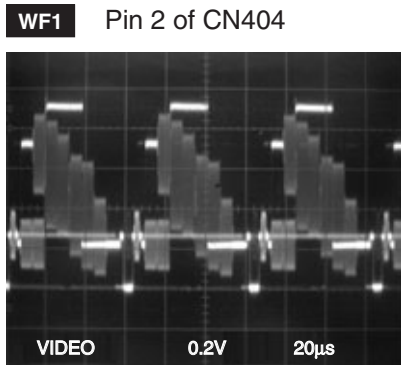


Inverter CBA

WAVEFORMS

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

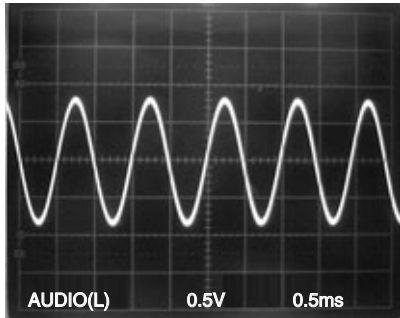
Input: PAL Color Bar Signal (with 1kHz Audio Signal)



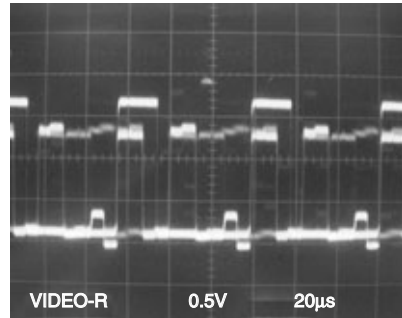
WF7 ~ WF10 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

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

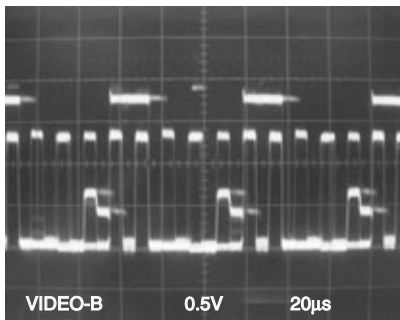
WF7 Pin 22 of CN401



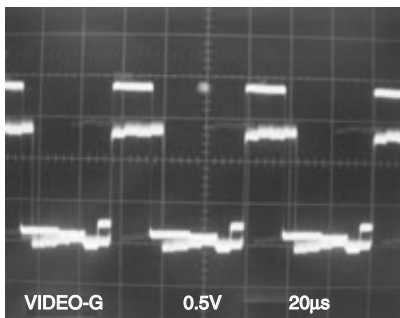
WF10 Pin 26 of CN404



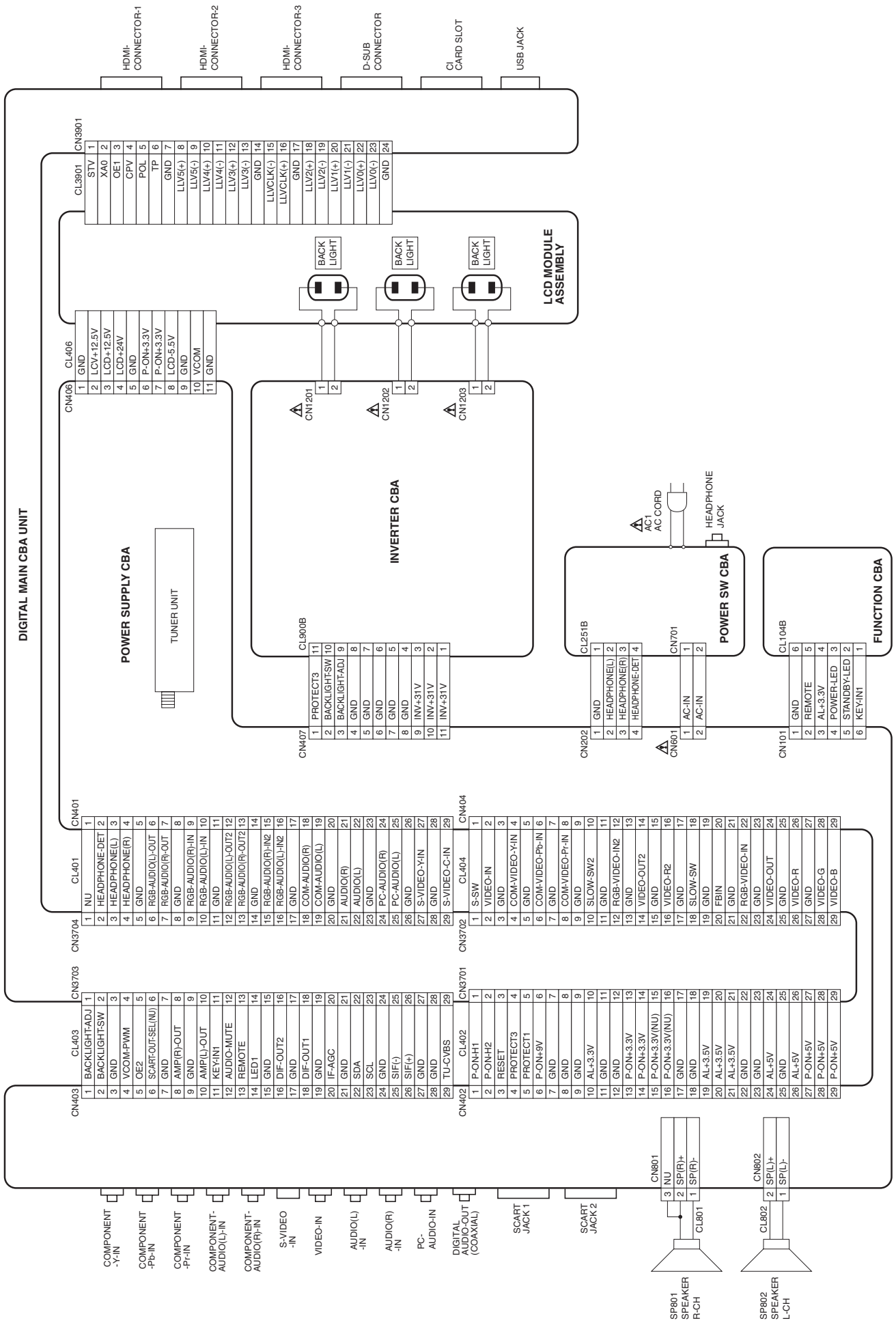
WF8 Pin 29 of CN404



WF9 Pin 28 of CN404

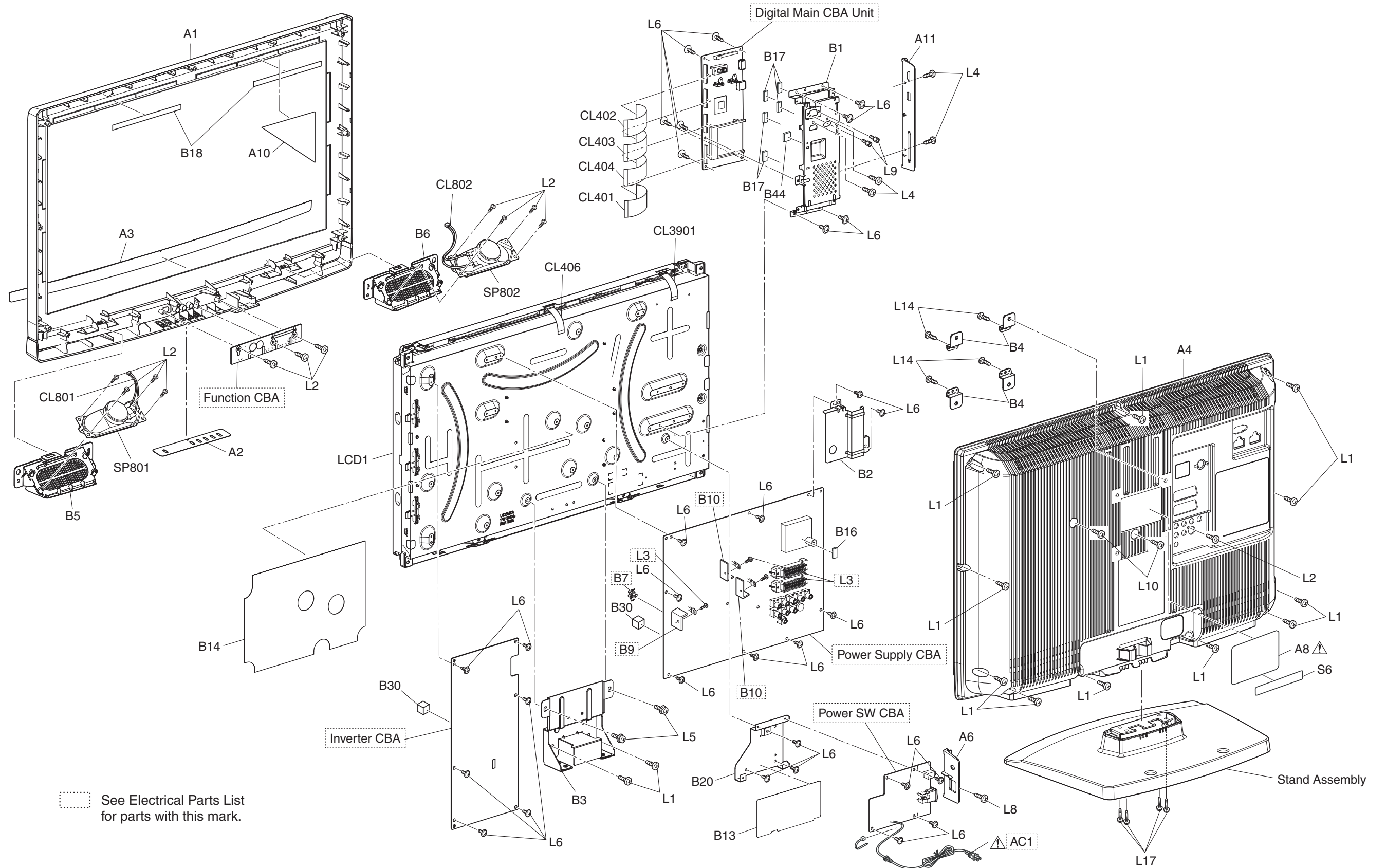


WIRING DIAGRAMS



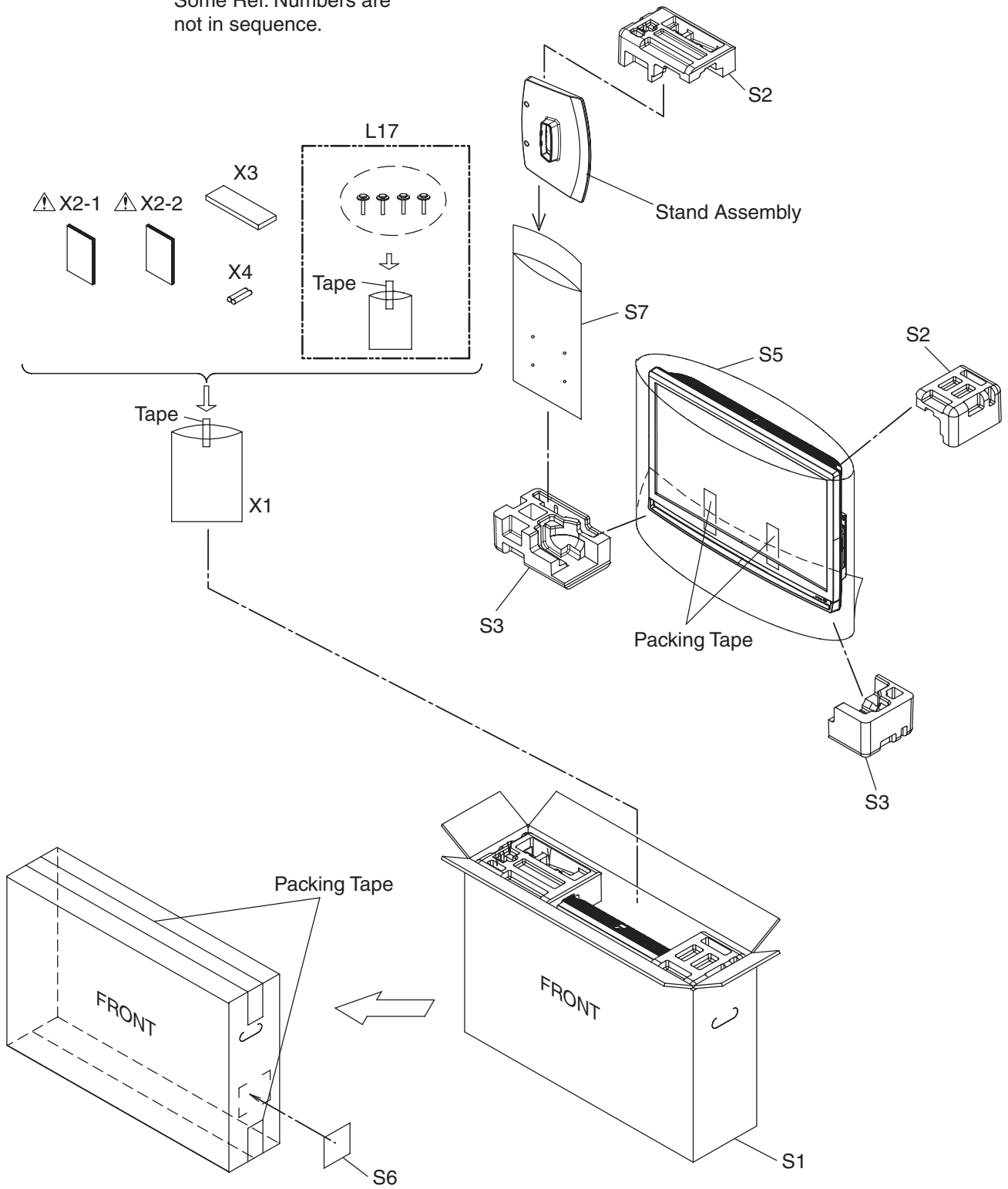
EXPLODED VIEWS

Cabinet



Packing

Some Ref. Numbers are not in sequence.



MECHANICAL PARTS LIST


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

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

| Ref. No. | Description | Part No. |
|------------------|---|--------------|
| | STAND ASSEMBLY A0CA0EZ | 1ESA24514 |
| A1 | FRONT CABINET A03A0EP | 1EM024625 |
| A2 | CONTROL PLATE A91F0UH | 1EM325799 |
| A3 | DECORATION PLATE A0CA2EP | 1EM124875 |
| A4 | REAR CABINET A0CA2EP | 1EM026067A |
| A6 | JACK HOLDER(HP-SW) A03A1EP | 1EM326897 |
| A10 | POP LABEL A0CN2EP | ----- |
| A11 | JACK HOLDER A93F0FP | 1EM123494A |
| B1 | SHIELD BOX A0CA0EP | 1EM224103 |
| B2 | TUNER SHIELD A0CA0EP | 1EM327757 |
| B3 | STAND HOLDER 26W A01A1UH | 1EM223865 |
| B4 | WALL MOUNT BRACKET A84N0UH | 1EM323797 |
| B5 | SPEAKER HOLDER (L) A94F0UH | 1EM123233 |
| B6 | SPEAKER HOLDER (R) A94F0UH | 1EM123234 |
| B13 | SEPARATION SHEET(S) A0CA0EP | 1EM327758 |
| B14 | SEPARATION SHEET(P) A0CA0EP | 1EM327861 |
| B16 | GASKET A8AF0UH | 1EM425861 |
| B17 | GASKET(4X15XT3.0) A0CN0EP | 1EM431762 |
| B18 | CLOTH(10X180XT0.5) L0336JG | 0EM408827 |
| B20 | SWITCH HOLDER A0CA0EP | 1EM327557 |
| B30 | RUBBER CUSHION A72N0JH | 1EM425197 |
| B44 | THERMOSTAR TMS-L-2(12*12HC) or | XK10000X4003 |
| | THERMAL SHEET TT0005-A01A | XK1000SMT001 |
| CL401 | WIRE ASSEMBLY 29PIN FFC 29PIN 50MM | WX1A94F0-101 |
| CL402 | WIRE ASSEMBLY 29PIN FFC 29PIN 50MM | WX1A94F0-101 |
| CL403 | WIRE ASSEMBLY 29PIN FFC 29PIN 50MM | WX1A94F0-101 |
| CL404 | WIRE ASSEMBLY 29PIN FFC 29PIN 50MM | WX1A94F0-101 |
| CL406 | WIRE ASSEMBLY 11PIN FFC 11PIN 90MM | WX1A9170-107 |
| CL801 | WIRE ASSEMBLY 2PIN 2PIN 160MM AWG24 R B | WX1A0CA0-307 |
| CL802 | WIRE ASSEMBLY 2PIN 2PIN 425MM AWG24 R B | WX1A0CA0-308 |
| CL3901 | WIRE ASSEMBLY 24PIN FFC 24PIN 80MM | WX1A9170-101 |
| L2 | SCREW P-TIGHT 3X10 BIND HEAD+ | GBHP3100 |
| L4 | SCREW S-TIGHT M3X8 BIND HEAD+ | GBHS3080 |
| L5 | DOUBLE SEMS SCREW M4X6 M4X6 | FPJ34060 |
| L6 | ASSEMBLED SCREW (D9 M3X6) A71F0UH | 1EM424392B |
| L9 | HEX SCREW #4-40 7MM | 1EM430139 |
| L14 | SCREW P-TIGHT M3X8 BIND HEAD+ BLK | GBHP3080 |
| LCD1 | LCD MODULE CMO 6BIT NORMALGRADE | UJ26MXA |
| SP801 | SPEAKER MAGNETIC S0412F08 or | DSD1609XQ001 |
| | SPEAKER MAGNETIC YDP411-17FN | DS1610EFU001 |
| SP802 | SPEAKER MAGNETIC S0412F08 or | DSD1609XQ001 |
| | SPEAKER MAGNETIC YDP411-17FN | DS1610EFU001 |
| PACKING | | |
| S5 | SET BAG L0301UB | 1EM320014B |
| S7 | STAND BAG A71FCUH | 1EM425338 |
| ACCESSORY | | |
| X3 | REMOTE CONTROL NH201RD | NH201RD |

| Ref. No. | Description | Part No. |
|--------------------|-------------------------------------|--------------|
| A8 \triangle | RATING LABEL A0CA2EP | ----- |
| L1 | SCREW P-TIGHT M4X14 BIND HEAD+BLK | GBHP4140 |
| L2 | SCREW P-TIGHT 3X10 BIND HEAD+ | GBHP3100 |
| L6 | ASSEMBLED SCREW (D9 M3X6) A71F0UH | 1EM424392B |
| L8 | S-TIGHT SCREW M3X6 BIND HEAD+BLACK | GBHS3060 |
| L10 | SCREW S-TIGHT 3X8 WASHER HEAD+BLAC | GCHS3080 |
| L17 | STAND SCREW KIT A0CA0EP | 1ESA24768 |
| PACKING | | |
| S1 | CARTON A0CA2EP | 1EM432219 |
| S2 | STYROFOAM TOP A0CA0EP | 1EM026125 |
| S3 | STYROFOAM BOTTOM A0CA0EP | 1EM026126 |
| S6 | SERIAL NO. LABEL L9750UA | ----- |
| ACCESSORIES | | |
| X1 | BAG POLYETHYLENE 235X365XT0.03 | 0EM408420A |
| X2-1 \triangle | OWNERS MANUAL(WE-10) AOCF2EP | 1EMN25884 |
| X2-2 \triangle | OWNERS MANUAL(PL-7) AOCF2EP | 1EMN25885 |
| X4 | BATTERY DRY R03REL/2PA | XB00M00MS001 |

ELECTRICAL PARTS LIST

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

NOTES:

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

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

DIGITAL MAIN CBA UNIT

| Ref. No. | Description | Part No. |
|----------|-----------------------|--------------|
| | DIGITAL MAIN CBA UNIT | A0CA2MMA-002 |

POWER SUPPLY CBA

| Ref. No. | Description | Part No. |
|-------------------|---|--|
| | POWER SUPPLY CBA Consists of the following: | A0CA2MPW-001 |
| CAPACITORS | | |
| C12 | CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or CAP CHIP 1608 K/X7R/0.01µF/50V | CHD1JK30B103 CHD103EYA032 |
| C13 | CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or CAP CHIP 1608 K/X7R/0.01µF/50V | CHD1JK30B103 CHD103EYA032 |
| C16 | CHIP CERAMIC CAP.(1608) CH J 47pF/50V or CAP CHIP 1608 J/C0G/47pF/50V | CHD1JJ3CH470 CHD470EYA030 |
| C18 | CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V | CHD1JJ3CH101 CHD101EYA030 |
| C19 | CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V | CHD1JJ3CH101 CHD101EYA030 |
| C20 | ELECTROLYTIC CAP. 100µF/10V M or CAP ELE 100µF/10V/M/85 or CAP ELE 100µF/10V/M/85 | CE1AMASDL101 CEB101KSN001 CEB101TEP001 |
| C21 | CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V | CHD1EZ30F104 |
| C22 | CHIP CERAMIC CAP.(1608) CH J 47pF/50V or CAP CHIP 1608 J/C0G/47pF/50V | CHD1JJ3CH470 CHD470EYA030 |
| C24 | CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V | CHD1JJ3CH101 CHD101EYA030 |
| C27 | CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or CAP CHIP 1608 K/X7R/0.01µF/50V | CHD1JK30B103 CHD103EYA032 |
| C28 | ELECTROLYTIC CAP. 100µF/10V M or CAP ELE 100µF/10V/M/85 or CAP ELE 100µF/10V/M/85 | CE1AMASDL101 CEB101KSN001 CEB101TEP001 |
| C181 | CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V | CHD1JJ3CH101 CHD101EYA030 |
| C182 | CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or CAP CHIP 1608 Z/Y5V/0.1µF/25V | CHD1JZ30F104 CHD104EYA036 |
| C204 | CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V | CHD1JJ3CH331 CHD331EYA030 |
| C205 | CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V | CHD1JJ3CH331 CHD331EYA030 |
| C206 | CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V | CHD1JJ3CH331 CHD331EYA030 |
| C207 | CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V | CHD1JJ3CH331 CHD331EYA030 |

| Ref. No. | Description | Part No. |
|----------|---|------------------------------|
| C208 | CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V | CHD1JJ3CH330 CHD330EYA030 |
| C209 | CHIP CERAMIC CAP. F Z 1µF/10V or CAP CHIP 1608 Z/Y5V/1µF/10V | CHD1AZ30F105 CHD105EYA052 |
| C213 | CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V | CHD1JJ3CH101 CHD101EYA030 |
| C214 | CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V | CHD1JJ3CH101 CHD101EYA030 |
| C215 | CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/C0G/100pF/50V | CHD1JJ3CH101 CHD101EYA030 |
| C216 | CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V | CHD1JJ3CH331 CHD331EYA030 |
| C217 | CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V | CHD1JJ3CH331 CHD331EYA030 |
| C301 | CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω | RRXAZR5Z0000 RRXA000YF002 |
| C303 | CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V | CHD1JJ3CH331 CHD331EYA030 |
| C304 | CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω | RRXAZR5Z0000 RRXA000YF002 |
| C306 | CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V | CHD1JJ3CH331 CHD331EYA030 |
| C307 | CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V | CHD1JJ3CH330 CHD330EYA030 |
| C308 | CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V | CHD1JJ3CH330 CHD330EYA030 |
| C309 | CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V | CHD1JJ3CH330 CHD330EYA030 |
| C310 | ELECTROLYTIC CAP. 220µF/10V M H7 or CAP ELE 220µF/10V/M/85 H7 | CE1AMAVSL221 CEB221KSN003 |
| C311 | CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V | CHD1JJ3CH330 CHD330EYA030 |
| C312 | CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω | RRXAZR5Z0000 RRXA000YF002 |
| C314 | CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V | CHD1JJ3CH331 CHD331EYA030 |
| C315 | CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω | RRXAZR5Z0000 RRXA000YF002 |
| C317 | CHIP CERAMIC CAP. CH J 330pF/50V or CAP CHIP 1608 J/C0G/330pF/50V | CHD1JJ3CH331 CHD331EYA030 |
| C318 | CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V | CHD1JJ3CH330 CHD330EYA030 |
| C319 | ELECTROLYTIC CAP. 220µF/10V M H7 or CAP ELE 220µF/10V/M/85 H7 | CE1AMAVSL221 CEB221KSN003 |
| C320 | CHIP CERAMIC CAP.(1608) CH J 33pF/50V or CAP CHIP 1608 J/C0G/33pF/50V | CHD1JJ3CH330 CHD330EYA030 |
| C327 | CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or CAP CHIP 1608 K/X7R/0.01µF/50V | CHD1JK30B103 CHD103EYA032 |
| C331 | ELECTROLYTIC CAP. 220µF/10V M H7 or CAP ELE 220µF/10V/M/85 H7 | CE1AMAVSL221 CEB221KSN003 |
| C332 | ELECTROLYTIC CAP. 220µF/10V M H7 or CAP ELE 220µF/10V/M/85 H7 | CE1AMAVSL221 CEB221KSN003 |
| C401 | CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V | CHD1EZ30F104 |
| C402 | CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V | CHD1EZ30F104 |
| C403 | CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V | CHD1EZ30F104 |
| C404 | CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V | CHD1EZ30F104 |
| C405 | CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or CAP CHIP 1608 Z/Y5V/0.1µF/50V | CHD1JZ30F104 CHD104EYA036 |
| C406 | CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or CAP CHIP 1608 Z/Y5V/0.1µF/50V | CHD1JZ30F104 CHD104EYA036 |
| C407 | CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or CAP CHIP 1608 Z/Y5V/0.1µF/50V | CHD1JZ30F104 CHD104EYA036 |
| C408 | ELECTROLYTIC CAP. 47µF/25V M or CAP ELE 47µF/25V/M/85 or | CE1EMASDL470 CED470KSN001 |

| Ref. No. | Description | Part No. |
|----------|---|--------------|
| | CAP ELE 47µF/25V/M/85 | CED470TEP001 |
| C409 | CHIP CERAMIC CAP:(1608) B K 0.1µF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1µF/50V | CHD104EYA032 |
| C410 | CHIP CERAMIC CAP. (1608) B K 1µF/16V | CHD1CK30B105 |
| C411 | CHIP CERAMIC CAP:(1608) CH J 1000pF/50V or | CHD1JJ3CH102 |
| | CAP CHIP 1608 J/C0G/0.001µF/50V | CHD102EYA030 |
| C415 | ELECTROLYTIC CAP 22µF/50V M or | CE1JMASDL220 |
| | CAP ELE 22µF/50V/M/85 or | CEF220KSN001 |
| | CAP ELE 22µF/50V/M/85 | CEF220TEP001 |
| C416 | CHIP CERAMIC CAP:(1608) B K 0.1µF/25V or | CHD1EK30B104 |
| | CAP CHIP 1608 K/X7R/0.1µF/25V | CHD104EYA039 |
| C417 | ELECTROLYTIC CAP 1µF/50V M or | CE1JMASDL1R0 |
| | CAP ELE 1µF/50V/M/85 or | CEF1R0KSN001 |
| | CAP ELE 1µF/50V/M/85 | CEF1R0TEP001 |
| C420 | CHIP CERAMIC CAP:(1608) B K 0.1µF/16V | CHD1CK30B104 |
| C421 | CHIP CERAMIC CAP:(1608) CH D 10pF/50V or | CHD1JD3CH100 |
| | CAP CHIP 1608 D/C0G/10pF/50V or | CHD100EYA029 |
| | CHIP CERAMIC CAP:(1608) CH J 10pF/50V or | CHD1JJ3CH100 |
| | CAP CHIP 1608 J/C0G/10pF/50V | CHD100EYA030 |
| C503 | ELECTROLYTIC CAP 470µF/25V M or | CE1EMASDL471 |
| | CAP ELE 470µF/25V/M/85 or | GED471KSN001 |
| | CAP ELE 470µF/25V/M/85 | GED471TEP001 |
| C504 | ELECTROLYTIC CAP 100µF/25V M or | CE1EMASDL101 |
| | CAP ELE 100µF/25V/M/85 or | CED101KSN001 |
| | CAP ELE 100µF/25V/M/85 | CED101TEP001 |
| C505 | CHIP CERAMIC CAP:(1608) B K 0.01µF/50V or | CHD1JK30B103 |
| | CAP CHIP 1608 K/X7R/0.01µF/50V | CHD103EYA032 |
| C507 | CAP ELE STD-85 4700µF 6.3V SL or | CE0KMZNDL472 |
| | ELECTROLYTIC CAP 4700µF/6.3V SM or | CE0KMZPDL472 |
| | CAP ELE 4700µF/6.3V/M/85 or | CEA472KSN002 |
| | CAP ELE 4700µF/6.3V/M/85 | CEA472TEP002 |
| C508 | ELECTROLYTIC CAP 1000µF/6.3V M or | CE0KMASDL102 |
| | CAP ELE 1000µF/6.3V/M/85 or | CEA102KSN001 |
| | CAP ELE 1000µF/6.3V/M/85 | CEA102TEP001 |
| C509 | CERAMIC CAP 1500pF/2KV or | CA3D152PAN04 |
| | CERAMIC CAP RB 1500pF/2KV or | CA3D152TE006 |
| | CERAMIC CAP BL 1500pF/2KV | CA3D152XF003 |
| C510 | ELECTROLYTIC CAP 22µF/50V M or | CE1JMASDL220 |
| | CAP ELE 22µF/50V/M/85 or | CEF220KSN001 |
| | CAP ELE 22µF/50V/M/85 | CEF220TEP001 |
| C511 | ELECTROLYTIC CAP 2200µF/35V M or | CE1GMZNDL222 |
| | ELECTROLYTIC CAP 2200µF/35V M or | CE1GMZPDL222 |
| | CAP ELE 2200µF/35V/M/85 or | CEE222KSN002 |
| | CAP ELE 2200µF/35V/M/85 | CEE222TEP002 |
| C513 | ELECTROLYTIC CAP 10µF/50V M or | CE1JMASDL100 |
| | CAP ELE 10µF/50V/M/85 or | CEF100KSN001 |
| | CAP ELE 10µF/50V/M/85 | CEF100TEP001 |
| C514 | ELECTROLYTIC CAP 22µF/25V M or | CE1EMASDL220 |
| | CAP ELE 22µF/25V/M/85 or | CED220KSN001 |
| | CAP ELE 22µF/25V/M/85 | CED220TEP001 |
| C515 | ELECTROLYTIC CAP 3300µF/10V or | CE1AMZNDL332 |
| | ELECTROLYTIC CAP 3300µF/10V M or | CE1AMZPDL332 |
| | CAP ELE 3300µF/10V/M/85 or | CEB332KSN002 |
| | CAP ELE 3300µF/10V/M/85 | CEB332TEP002 |
| C516 | ELECTROLYTIC CAP 2200µF/10V M or | CE1AMZNDL222 |
| | ELECTROLYTIC CAP 2200µF/10V M or | CE1AMZPDL222 |
| | CAP ELE 2200µF/10V/M/85 or | CEB222KSN002 |
| | CAP ELE 2200µF/10V/M/85 | CEB222TEP002 |
| C517 | ELECTROLYTIC CAP 1000µF/10V M or | CE1AMASDL102 |
| | CAP ELE 1000µF/10V/M/85 or | CEB102KSN001 |
| | CAP ELE 1000µF/10V/M/85 | CEB102TEP001 |
| C518 | CHIP CERAMIC CAP:(1608) B K 0.1µF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1µF/50V | CHD104EYA032 |
| C519 | POLYESTER FILM CAP. (PB FREE) 0.1µF/100V J or | CA2A104DT018 |
| | CAP POLYESTER FILM 0.1µF/100V J or | CA2A104SER02 |
| | CAP POLYESTER FILM 0.1µF/100V/J/PCMT or | CTA104PKR003 |

| Ref. No. | Description | Part No. |
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| | POLYESTER FILM CAP. 0.1µF/100V J | CMB104EUR001 |
| C521 | ELECTROLYTIC CAP. 100µF/10V M or | CE1AMASDL101 |
| | CAP ELE 100µF/10V/M/85 or | CEB101KSN001 |
| | CAP ELE 100µF/10V/M/85 | CEB101TEP001 |
| C522 | ELECTROLYTIC CAP. 1000µF/25V M or | CE1EMZPDL102 |
| | ELECTROLYTIC CAP. 1000µF/25V M or | CE1EMZNDL102 |
| | CAP ELE 1000µF/25V/M/85 or | CED102KSN002 |
| | CAP ELE 1000µF/25V/M/85 | CED102TEP002 |
| C524 | ELECTROLYTIC CAP. 100µF/16V M or | CE1CMASDL101 |
| | CAP ELE 100µF/16V/M/85 or | CEC101KSN001 |
| | CAP ELE 100µF/16V/M/85 | CEC101TEP001 |
| C525 | ELECTROLYTIC CAP. 100µF/16V M or | CE1CMASDL101 |
| | CAP ELE 100µF/16V/M/85 or | CEC101KSN001 |
| | CAP ELE 100µF/16V/M/85 | CEC101TEP001 |
| C527 | ELECTROLYTIC CAP. 47µF/25V M or | CE1EMASDL470 |
| | CAP ELE 47µF/25V/M/85 or | CED470KSN001 |
| | CAP ELE 47µF/25V/M/85 | CED470TEP001 |
| C528 | ELECTROLYTIC CAP. 1000µF/10V M or | CE1AMASDL102 |
| | CAP ELE 1000µF/10V/M/85 or | CEB102KSN001 |
| | CAP ELE 1000µF/10V/M/85 | CEB102TEP001 |
| C529 | CHIP CERAMIC CAP:(1608) F Z 0.1µF/25V | CHD1EZ30F104 |
| C532 | ELECTROLYTIC CAP. 47µF/25V M or | CE1EMASDL470 |
| | CAP ELE 47µF/25V/M/85 or | CED470KSN001 |
| | CAP ELE 47µF/25V/M/85 | CED470TEP001 |
| C533 | CHIP CERAMIC CAP:(1608) B K 0.22µF/16V or | CHD1CK30B224 |
| | CAP CHIP 1608 K/X5R/0.22µF/16V | CHD224EYA045 |
| C534 | CHIP CERAMIC CAP:(1608) B K 0.22µF/16V or | CHD1CK30B224 |
| | CAP CHIP 1608 K/X5R/0.22µF/16V | CHD224EYA045 |
| C604△ | CAP METALIZED FILM 0.22µF/300V K 3.5MM or | CT2F224DC004 |
| △ | CAP METALIZED FILM MPX-224K27B15L3 or | CT2E224EUR01 |
| △ | CAP METALIZED FILM 0.22µF/310V /K/LE-MX or | CTA2240DC001 |
| △ | CAP METALIZED FILM 0.22µF/275V/K | CTA224PKR001 |
| C605△ | CAP METALIZED FILM 0.22µF/300V K 3.5MM or | CT2F224DC004 |
| △ | CAP METALIZED FILM MPX-224K27B15L3 or | CT2E224EUR01 |
| △ | CAP METALIZED FILM 0.22µF/310V /K/LE-MX or | CTA2240DC001 |
| △ | CAP METALIZED FILM 0.22µF/275V/K | CTA224PKR001 |
| C608△ | SAFETY CAP. 1000pF/250V KX or | CA2E102MR101 |
| △ | SAFETY CAP. 1000pF/250V or | CCN2EMAOE102 |
| △ | SAFETY CAP. 1000pF/250V | CCN2HMNOE102 |
| C610△ | CAP ELECTROLYTIC 220µF/400V/M/30/30 or | CA2H221DYG10 |
| △ | CAP ELE 220µF/400V or | CA2H221NC206 |
| △ | CAP ELE 85 220µF/400V M85_30X35 | CEN221KSN006 |
| C621 | CERAMIC CAP. 470pF/2KV or | CA3D471PAN04 |
| | CERAMIC CAP. RB 470pF/2KV or | CA3D471TE006 |
| | CERAMIC CAP. BL 470pF/2KV | CA3D471XF003 |
| C623 | ELECTROLYTIC CAP. 100µF/35V M or | CE1GMASDL101 |
| | CAP ELE 100µF/35V/M/85 or | CEE101KSN001 |
| | CAP ELE 100µF/35V/M/85 | CEE101TEP001 |
| C624 | CHIP CERAMIC CAP. CH J 220pF/50V or | CHD1JJ3CH221 |
| | CAP CHIP 1608 J/C0G/220pF/50V | CHD221EYA030 |
| C625 | CHIP CERAMIC CAP:(1608) B K 0.01µF/50V or | CHD1JK30B103 |
| | CAP CHIP 1608 K/X7R/0.01µF/50V | CHD103EYA032 |
| C626 | CHIP CERAMIC CAP:(1608) B K 3300pF/50V or | CHD1JK30B332 |
| | CAP CHIP 1608 K/X7R/0.0033µF/50V | CHD332EYA032 |
| C628 | ELECTROLYTIC CAP. 47µF/50V M or | CE1JMASDL470 |
| | CAP ELE 47µF/50V/M/85 or | CEF470KSN001 |
| | CAP ELE 47µF/50V/M/85 | CEF470TEP001 |
| C629 | POLYESTER FILM CAP. (PB FREE) 0.001µF/100V J or | CA2A102DT018 |
| | CAP POLYESTER FILM 0.001µF/100V J or | CA2A102SER02 |
| | POLYESTER FILM CAP. 0.001µF/100V J or | CMB102EUR001 |
| | POLYESTER FILM CAP. (PB FREE) 0.001µF/100V J | CA2A102DT026 |
| C630 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |

| Ref. No. | Description | Part No. |
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| C631 | CAP CERAMIC (AX) 0.1μF/50V/FZ | CA1J104TU062 |
| C801 | CHIP CERAMIC CAP:(1608) B K 0.047μF/50V or | CHD1JK30B473 |
| | CAP CHIP 1608 K/X7R/0.047μF/50V | CHD473EYA032 |
| C802 | CHIP CERAMIC CAP:(1608) B K 0.047μF/50V or | CHD1JK30B473 |
| | CAP CHIP 1608 K/X7R/0.047μF/50V | CHD473EYA032 |
| C803 | CHIP CERAMIC CAP:(1608) B K 0.22μF/16V or | CHD1CK30B224 |
| | CAP CHIP 1608 K/X5R/0.22μF/16V | CHD224EYA045 |
| C805 | CHIP CERAMIC CAP:(1608) B K 0.047μF/50V or | CHD1JK30B473 |
| | CAP CHIP 1608 K/X7R/0.047μF/50V | CHD473EYA032 |
| C806 | CHIP CERAMIC CAP:(1608) B K 0.047μF/50V or | CHD1JK30B473 |
| | CAP CHIP 1608 K/X7R/0.047μF/50V | CHD473EYA032 |
| C807 | CHIP CERAMIC CAP:(1608) B K 0.22μF/16V or | CHD1CK30B224 |
| | CAP CHIP 1608 K/X5R/0.22μF/16V | CHD224EYA045 |
| C809 | ELECTROLYTIC CAP. 2.2μF/50V M or | CE1JMASDL2R2 |
| | CAP ELE 2.2μF/50V/M/85 or | CEF2R2KSN001 |
| | CAP ELE 2.2μF/50V/M/85 | CEF2R2TEP001 |
| C810 | CHIP CERAMIC CAP:(1608) B K 0.1μF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1μF/50V | CHD104EYA032 |
| C811 | CHIP CERAMIC CAP:(1608) B K 0.1μF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1μF/50V | CHD104EYA032 |
| C812 | CHIP CERAMIC CAP:(1608) B K 1μF/25V | CHD1EK30B105 |
| C813 | CHIP CERAMIC CAP:(1608) B K 0.1μF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1μF/50V | CHD104EYA032 |
| C814 | CHIP CERAMIC CAP:(1608) B K 1μF/25V | CHD1EK30B105 |
| C816 | ELECTROLYTIC CAP. 2.2μF/50V M or | CE1JMASDL2R2 |
| | CAP ELE 2.2μF/50V/M/85 or | CEF2R2KSN001 |
| | CAP ELE 2.2μF/50V/M/85 | CEF2R2TEP001 |
| C817 | ELECTROLYTIC CAP. 10μF/50V M or | CE1JMASDL100 |
| | CAP ELE 10μF/50V/M/85 or | CEF100KSN001 |
| | CAP ELE 10μF/50V/M/85 | CEF100TEP001 |
| C818 | CHIP CERAMIC CAP:(1608) B K 1μF/25V | CHD1EK30B105 |
| C819 | ELECTROLYTIC CAP. 10μF/50V M or | CE1JMASDL100 |
| | CAP ELE 10μF/50V/M/85 or | CEF100KSN001 |
| | CAP ELE 10μF/50V/M/85 | CEF100TEP001 |
| C820 | CHIP CERAMIC CAP:(1608) B K 0.1μF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1μF/50V | CHD104EYA032 |
| C821 | CHIP CERAMIC CAP:(1608) B K 0.1μF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1μF/50V | CHD104EYA032 |
| C822 | CHIP CERAMIC CAP:(1608) B K 1μF/25V | CHD1EK30B105 |
| C823 | CHIP CERAMIC CAP:(1608) B K 0.1μF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1μF/50V | CHD104EYA032 |
| C824 | CHIP CERAMIC CAP:(1608) B K 1μF/25V | CHD1EK30B105 |
| C825 | ELECTROLYTIC CAP. 100μF/25V M or | CE1EMASDL101 |
| | CAP ELE 100μF/25V/M/85 or | GED101KSN001 |
| | CAP ELE 100μF/25V/M/85 | GED101TEP001 |
| C826 | ELECTROLYTIC CAP. 3.3μF/50V M or | CE1JMASDL3R3 |
| | CAP ELE 3.3μF/50V/M/85 or | CEF3R3KSN001 |
| | CAP ELE 3.3μF/50V/M/85 | CEF3R3TEP001 |
| C827 | CHIP CERAMIC CAP:(1608) B K 0.1μF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1μF/50V | CHD104EYA032 |
| C830 | CHIP CERAMIC CAP:(1608) CH J 1000pF/50V or | CHD1JJ3CH102 |
| | CAP CHIP 1608 J/C0G/0.001μF/50V | CHD102EYA030 |
| C831 | CHIP CERAMIC CAP:(1608) CH J 1000pF/50V or | CHD1JJ3CH102 |
| | CAP CHIP 1608 J/C0G/0.001μF/50V | CHD102EYA030 |
| C832 | CHIP CERAMIC CAP:(1608) CH J 1000pF/50V or | CHD1JJ3CH102 |
| | CAP CHIP 1608 J/C0G/0.001μF/50V | CHD102EYA030 |
| C833 | CHIP CERAMIC CAP:(1608) CH J 1000pF/50V or | CHD1JJ3CH102 |
| | CAP CHIP 1608 J/C0G/0.001μF/50V | CHD102EYA030 |
| C835 | CHIP CERAMIC CAP:(1608) CH J 270pF/50V or | CHD1JJ3CH271 |
| | CAP CHIP 1608 J/C0G/270pF/50V | CHD271EYA030 |
| C836 | CHIP CERAMIC CAP:(1608) CH J 270pF/50V or | CHD1JJ3CH271 |
| | CAP CHIP 1608 J/C0G/270pF/50V | CHD271EYA030 |
| C837 | CHIP CERAMIC CAP:(1608) CH J 100pF/50V or | CHD1JJ3CH101 |
| | CAP CHIP 1608 J/C0G/100pF/50V | CHD101EYA030 |
| C838 | CHIP CERAMIC CAP:(1608) B K 1000pF/50V or | CHD1JK30B102 |


| Ref. No. | Description | Part No. |
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| | CAP CHIP 1608 K/X7R/0.001μF/50V | CHD102EYA032 |
| C839 | CHIP CERAMIC CAP:(1608) B K 1000pF/50V or | CHD1JK30B102 |
| | CAP CHIP 1608 K/X7R/0.001μF/50V | CHD102EYA032 |
| C840 | CHIP CERAMIC CAP:(1608) B K 1000pF/50V or | CHD1JK30B102 |
| | CAP CHIP 1608 K/X7R/0.001μF/50V | CHD102EYA032 |
| C841 | CHIP CERAMIC CAP:(1608) B K 1000pF/50V or | CHD1JK30B102 |
| | CAP CHIP 1608 K/X7R/0.001μF/50V | CHD102EYA032 |
| CONNECTORS | | |
| CN101 | PH CONNECTOR TOP 6P B6B-PH-K-S (LF)(SN) or | J3PHC06JG029 |
| | CONNECTOR PRINT OSU JS-1125-06(K) | J3JT06CHY001 |
| CN202 | PH CONNECTOR TOP 4P B4B-PH-K-S (LF)(SN) or | J3PHC04JG029 |
| | CONNECTOR PRINT OSU JS-1125-04(K) | J3JT04CHY001 |
| CN401 | FFC CONNECTOR IMSA-9615S-29A-PP-A or | JC96J29ER007 |
| | CONNECTOR PRINT MES 00 6232 029 006 800+ or | JC62G29UG026 |
| | CONNECTOR PRINT MES 29 S 1.0-11-29P | JC1129JSH001 |
| CN402 | FFC CONNECTOR IMSA-9615S-29A-PP-A or | JC96J29ER007 |
| | CONNECTOR PRINT MES 00 6232 029 006 800+ or | JC62G29UG026 |
| | CONNECTOR PRINT MES 29 S 1.0-11-29P | JC1129JSH001 |
| CN403 | FFC CONNECTOR IMSA-9615S-29A-PP-A or | JC96J29ER007 |
| | CONNECTOR PRINT MES 00 6232 029 006 800+ or | JC62G29UG026 |
| | CONNECTOR PRINT MES 29 S 1.0-11-29P | JC1129JSH001 |
| CN404 | FFC CONNECTOR IMSA-9615S-29A-PP-A or | JC96J29ER007 |
| | CONNECTOR PRINT MES 00 6232 029 006 800+ or | JC62G29UG026 |
| | CONNECTOR PRINT MES 29 S 1.0-11-29P | JC1129JSH001 |
| CN406 | FFC CONNECTOR IMSA-9615S-11A-PP-A or | JC96J11ER007 |
| | CONNECTOR PRINT MES 00 6232 011 006 800+ or | JC62G11UG026 |
| | CONNECTOR PRINT MES 11 S 1.0-11-11P | JC1111JSH001 |
| CN407 | PH CONNECTOR TOP 11P B11B-PH-K-S(LF)(SN) or | J3PHC11JG029 |
| | CONNECTOR PRINT OSU JS-1125-11(K) | J3JT11CHY001 |
| CN601 [△] | CONNECTOR B2P3-VH(LF)(SN) or | J3VH020JG001 |
| [△] | CONNECTOR PRINT OSU 02/S/JS-1120-03N02 | J3JT02CHY004 |
| CN801 | PH CONNECTOR TOP 3P B3B-PH-K-S(LF)(SN) or | J3PHC03JG029 |
| | CONNECTOR PRINT OSU C S 440054-3 | J344C03AP001 |
| CN802 | PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN) or | J3PHC02JG029 |
| | CONNECTOR PRINT OSU TOP 2P 440054-2 or | J344C02AP001 |
| | CONNECTOR PRINT OSU JS-1125-02KK | J3JT02CHY002 |
| DIODES | | |
| D183 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D201 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZSSR6N |
| D202 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D203 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZSSR6N |
| D204 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D206 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZSSR6N |
| D207 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZSSR6N |
| D208 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D209 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |

| Ref. No. | Description | Part No. |
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| D210 | DIODE ZENER 3V9BSB-T26 or | NDTB3R9BST26 |
| | DIODE ZENER HZS3.9NB2TE-EQ | QDTB0HZS3R9N |
| D211 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| D213 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D301 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D302 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D303 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D304 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D305 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D306 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D307 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D308 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D309 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D310 | DIODE ZENER 3V9BSB-T26 or | NDTB3R9BST26 |
| | DIODE ZENER HZS3.9NB2TE-EQ | QDTB0HZS3R9N |
| D311 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D312 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D313 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D314 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D315 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D316 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D317 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D318 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D319 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D320 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D321 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D322 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D323 | DIODE ZENER 3V9BSB-T26 or | NDTB3R9BST26 |
| | DIODE ZENER HZS3.9NB2TE-EQ | QDTB0HZS3R9N |
| D324 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D325 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D326 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D402 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D403 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D501 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |

| Ref. No. | Description | Part No. |
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| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D502 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D503 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D504 | DIODE FR154 or | NDLZ000FR154 |
| | DIODE FR154BD | NDL1000FR154 |
| D505 | DIODE ZENER 22BSB-T26 or | NDTB022BST26 |
| | DIODE ZENER HZS22NB2TE-EQ | QDTBHZS22NB2 |
| D506 | IC SHUNT REGULATOR KIA431-AT/P or | NSZBA0TJY036 |
| | IC SHUNT REGULATOR SL431A-AT or | NSZBA0TAUK01 |
| | IC SHUNT REGULATOR AS431BZTR-E1 | NSZBA0TBCD01 |
| D507 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D508 | DIODE ZENER 6V8BSA-T26 or | NDTA6R8BST26 |
| | DIODE ZENER HZS6.8NB1TE-EQ | QDTA0HZS6R8N |
| D509 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D511 | SCHOTTKY BARRIER DIODE SB140 | NDWZ000SB140 |
| D512 | DIODE ZENER 24BSB-T26 or | NDTB024BST26 |
| | DIODE ZENER HZS24NB2TE-EQ | QDTBHZS24NB2 |
| D513 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D514 | DIODE FAST RECOVERY 31DF4-FC | QDWZ031DF4FC |
| D515 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D516 | DIODE ZENER 1ZB36BB | NDWZ0001ZB36 |
| D517 | DIODE FAST RECOVERY 31DF4-FC | QDWZ031DF4FC |
| D520 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D521 | DIODE ZENER 5V6BSA-T26 or | NDTA5R6BST26 |
| | DIODE ZENER HZS5.6NB1TE-EQ | QDTA0HZS5R6N |
| D522 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D523 | SCHOTTKY BARRIER DIODE SB240-B/P | NDWZ000SB240 |
| D524 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D525 | SCHOTTKY BARRIER DIODE SB270-B/P | NDWZ000SB270 |
| D526 | IC SHUNT REGULATOR KIA431-AT/P or | NSZBA0TJY036 |
| | IC SHUNT REGULATOR SL431A-AT or | NSZBA0TAUK01 |
| | IC SHUNT REGULATOR AS431BZTR-E1 | NSZBA0TBCD01 |
| D527 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D528 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D529 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D530 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D531 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| D532 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| D533 | DIODE ZENER 6V2BSB-T26 or | NDTB6R2BST26 |
| | DIODE ZENER HZS6.2NB2TE-EQ | QDTB0HZS6R2N |
| D534 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |

| Ref. No. | Description | Part No. |
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| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D536 | DIODE ZENER 16BSB-T26 or | NDTB016BST26 |
| | DIODE ZENER HZS16NB2TE-EQ | QDTBHZS16NB2 |
| D537 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D538 | DIODE ZENER 4V7BSB-T26 or | NDTB4R7BST26 |
| | DIODE ZENER HZS4.7NB2TE-EQ | QDTB0HZS4R7N |
| D539 | SCHOTTKY BARRIER DIODE SB390 | NDWZ000SB390 |
| D541 | DIODE ZENER 3V3BSB-T26 or | NDTB3R3BST26 |
| | DIODE ZENER HZS3.3NB2TE-EQ | QDTB0HZS3R3N |
| D542 | DIODE ZENER 6V2BSB-T26 or | NDTB6R2BST26 |
| | DIODE ZENER HZS6.2NB2TE-EQ | QDTB0HZS6R2N |
| D543 | DIODE ZENER 5V6BSB-T26 or | NDTC5R6BST26 |
| | DIODE ZENER HZS5.6NB3TE-EQ | QDTC0HZS5R6N |
| D544 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| D545 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D546 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D548 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D549 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D550 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D552 | IC SHUNT REGULATOR KIA431-AT/P or | NSZBA0TJY036 |
| | IC SHUNT REGULATOR SL431A-AT or | NSZBA0TAUK01 |
| | IC SHUNT REGULATOR AS431BZTR-E1 | NSZBA0TBCD01 |
| D609 | DIODE 1N5399BE | NDL1001N5399 |
| D610 | DIODE 1N5399BE | NDL1001N5399 |
| D611 | DIODE 1N5399BE | NDL1001N5399 |
| D612 | DIODE 1N5399BE | NDL1001N5399 |
| D624 | DIODE ZENER 27BSB-T26 or | NDTB027BST26 |
| | DIODE ZENER HZS27NB2TE-EQ | QDTBHZS27NB2 |
| D625 | DIODE ZENER 27BSB-T26 or | NDTB027BST26 |
| | DIODE ZENER HZS27NB2TE-EQ | QDTBHZS27NB2 |
| D626 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D627 | DIODE FR104-B or | NDLZ000FR104 |
| | DIODE FR104BB | NDL1000FR104 |
| D628 | DIODE FR104-B or | NDLZ000FR104 |
| | DIODE FR104BB | NDL1000FR104 |
| D629 | DIODE 1N5399BE | NDL1001N5399 |
| D630 | DIODE ZENER 27BSB-T26 or | NDTB027BST26 |
| | DIODE ZENER HZS27NB2TE-EQ | QDTBHZS27NB2 |
| D631 | DIODE ZENER 1ZB18BB or | NDWZ0001ZB18 |
| | DIODE ZENER 1N4746A B0 18V | NDLZ01N4746A |
| D634 | DIODE FR104-B or | NDLZ000FR104 |
| | DIODE FR104BB | NDL1000FR104 |
| D635 | DIODE ZENER 9V1BSB-T26 or | NDTB9R1BST26 |
| | DIODE ZENER HZS9.1NB2TE-EQ | QDTB0HZS9R1N |
| D636 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D637 | DIODE FR104-B or | NDLZ000FR104 |
| | DIODE FR104BB | NDL1000FR104 |
| D638 | DIODE FR104-B or | NDLZ000FR104 |
| | DIODE FR104BB | NDL1000FR104 |

| Ref. No. | Description | Part No. |
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| D639 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D801 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D803 | DIODE ZENER 18BSB-T26 or | NDTB018BST26 |
| | DIODE ZENER HZS18NB2TE-EQ | QDTBHZS18NB2 |
| D804 | DIODE ZENER 18BSB-T26 or | NDTB018BST26 |
| | DIODE ZENER HZS18NB2TE-EQ | QDTBHZS18NB2 |
| D805 | DIODE ZENER 18BSB-T26 or | NDTB018BST26 |
| | DIODE ZENER HZS18NB2TE-EQ | QDTBHZS18NB2 |
| D806 | DIODE ZENER 18BSB-T26 or | NDTB018BST26 |
| | DIODE ZENER HZS18NB2TE-EQ | QDTBHZS18NB2 |
| D807 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D810 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| D811 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| ICS | | |
| IC401 | IC TL3472CDR or | NSZBA0TTY115 |
| | IC MC34072L-S08-R | QSZBA0TUTC01 |
| IC607 | PHOTO COUPLER PS2561L1-1-A-V(L) or | QPEL561L11AV |
| | PHOTO COUPLER LTV817MCF | NPECLTV817MF |
| IC621 | IC SWITING FA5571N-D1-TE1/SOP-8 | QSCA0T0FD003 |
| IC803 | IC D-AMP BD5426EFS-E2 | QSZBA0TRM137 |
| COILS | | |
| L11 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| L202 | INDUCTOR 0.22μH-J-26T | LLAXJATTUR22 |
| L203 | INDUCTOR 0.22μH-J-26T | LLAXJATTUR22 |
| L204 | INDUCTOR 0.22μH-J-26T | LLAXJATTUR22 |
| L301 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| L302 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| L303 | INDUCTOR 12μH-J-26T | LLAXJATTU120 |
| L304 | INDUCTOR 12μH-J-26T | LLAXJATTU120 |
| L601 | COIL LINE FILTER JLB20108 or | LLEG0Z0XB008 |
| | COIL LINE FILTER LCL-2027 18.0MH | LLEG0ZMEK001 |
| L801 | COIL SEALED POWER INDUCTORS LHL10NB680K or | LLARKGQTU680 |
| | COIL SEALED POWER INDUCTORS CWKBNP-680K or | LLF6800KV002 |
| | COIL DRUM JLC08105 68μH | LLED0A0XB005 |
| L802 | COIL SEALED POWER INDUCTORS LHL10NB680K or | LLARKGQTU680 |
| | COIL SEALED POWER INDUCTORS CWKBNP-680K or | LLF6800KV002 |
| | COIL DRUM JLC08105 68μH | LLED0A0XB005 |
| L803 | COIL SEALED POWER INDUCTORS LHL10NB680K or | LLARKGQTU680 |
| | COIL SEALED POWER INDUCTORS CWKBNP-680K or | LLF6800KV002 |
| | COIL DRUM JLC08105 68μH | LLED0A0XB005 |
| L804 | COIL SEALED POWER INDUCTORS LHL10NB680K or | LLARKGQTU680 |
| | COIL SEALED POWER INDUCTORS CWKBNP-680K or | LLF6800KV002 |
| | COIL DRUM JLC08105 68μH | LLED0A0XB005 |
| TRANSISTORS | | |
| Q11 | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | TRANSISTOR 2SA1015-Y(T2 F T) or | QQSY2SA1015F |
| | TRANSISTOR 2SA1015-GR(T2 F T) or | QQS12SA1015F |
| | PNP TRANSISTOR 2SA1980Y-AT or | NQSY02SA1980 |
| | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | PNP TRANSISTOR 2SA1980M Y or | NQSY2SA1980M |

| Ref. No. | Description | Part No. |
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| | NPN TRANSISTOR 2SC5343M Y | NQSY2SC5343M |
| Q514 | TRANSISTOR KTC3198-Y-AT/P or | NQSYKTC3198P |
| | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | TRANSISTOR 2SC1815-Y(T _{E2} F T) or | QQSY2SC1815F |
| | TRANSISTOR 2SC1815-GR(T _{E2} F T) or | QQS12SC1815F |
| | NPN TRANSISTOR 2SC5343Y-AT or | NQSY02SC5343 |
| | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | NPN TRANSISTOR 2SC5343MG-AT or | NQSG2SC5343M |
| | NPN TRANSISTOR 2SC5343M Y | NQSY2SC5343M |
| Q516 | TRANSISTOR KTC3198-Y-AT/P or | NQSYKTC3198P |
| | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | TRANSISTOR 2SC1815-Y(T _{E2} F T) or | QQSY2SC1815F |
| | TRANSISTOR 2SC1815-GR(T _{E2} F T) or | QQS12SC1815F |
| | NPN TRANSISTOR 2SC5343Y-AT or | NQSY02SC5343 |
| | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | NPN TRANSISTOR 2SC5343MG-AT or | NQSG2SC5343M |
| | NPN TRANSISTOR 2SC5343M Y | NQSY2SC5343M |
| Q517 | TRANSISTOR 2SC2120-Y(T _{E2} F T) or | QQSY2SC2120F |
| | TRANSISTOR 2SC2120-Q(T _{E2} F T) or | QQS02SC2120F |
| | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | TRANSISTOR KTC3203-O-AT/P or | NQS0KTC3203P |
| | NPN TRANSISTOR 2SC5344 Y or | NQSY02SC5344 |
| | NPN TRANSISTOR 2SC5344O-AT | NQS002SC5344 |
| Q518 | NPN TRANSISTOR POWER 2SC4881F HFE MAX320 or | QQWZ2SC4881F |
| | TRANSISTOR(PB FREE) KTC2026-Y/P or | NQEYKTC2026P |
| | NPN TRANSISTOR STC403 | NQEZ00STC403 |
| Q520 | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | TRANSISTOR 2SA1015-Y(T _{E2} F T) or | QQSY2SA1015F |
| | TRANSISTOR 2SA1015-GR(T _{E2} F T) or | QQS12SA1015F |
| | PNP TRANSISTOR 2SA1980Y-AT or | NQSY02SA1980 |
| | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | PNP TRANSISTOR 2SA1980M Y or | NQSY2SA1980M |
| | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q521 | TRANSISTOR 2SC2120-Y(T _{E2} F T) or | QQSY2SC2120F |
| | TRANSISTOR 2SC2120-O(T _{E2} F T) or | QQS02SC2120F |
| | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | TRANSISTOR KTC3203-O-AT/P or | NQS0KTC3203P |
| | NPN TRANSISTOR 2SC5344 Y or | NQSY02SC5344 |
| | NPN TRANSISTOR 2SC5344O-AT | NQS002SC5344 |
| Q522 | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | TRANSISTOR 2SA1015-Y(T _{E2} F T) or | QQSY2SA1015F |
| | TRANSISTOR 2SA1015-GR(T _{E2} F T) or | QQS12SA1015F |
| | PNP TRANSISTOR 2SA1980Y-AT or | NQSY02SA1980 |
| | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | PNP TRANSISTOR 2SA1980M Y or | NQSY2SA1980M |
| | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q523 | TRANSISTOR KTC3198-Y-AT/P or | NQSYKTC3198P |
| | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | TRANSISTOR 2SC1815-Y(T _{E2} F T) or | QQSY2SC1815F |
| | TRANSISTOR 2SC1815-GR(T _{E2} F T) or | QQS12SC1815F |
| | NPN TRANSISTOR 2SC5343Y-AT or | NQSY02SC5343 |
| | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | NPN TRANSISTOR 2SC5343MG-AT or | NQSG2SC5343M |
| | NPN TRANSISTOR 2SC5343M Y | NQSY2SC5343M |
| Q621  | MOSFET TK4A60DA | QFVZTK4A60DA |
| Q622 | FET POWER MOS SMD KHB1D0N60D-RTF/PMC or | NF1ZKHB1D0N6 |
| | FET 2SK3498(T6L1FUNANQ) | QF1Z02SK3498 |
| Q623 | TRANSISTOR KTC3198-Y-AT/P or | NQSYKTC3198P |
| | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | TRANSISTOR 2SC1815-Y(T _{E2} F T) or | QQSY2SC1815F |

| Ref. No. | Description | Part No. |
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| | TRANSISTOR 2SC1815-GR(T _{E2} F T) or | QQS12SC1815F |
| | NPN TRANSISTOR 2SC5343Y-AT or | NQSY02SC5343 |
| | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | NPN TRANSISTOR 2SC5343MG-AT or | NQSG2SC5343M |
| | NPN TRANSISTOR 2SC5343M Y | NQSY2SC5343M |
| RESISTORS | | |
| R12 | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R13 | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R14 | RES CARBON FILM 1/4W J 1.2k Ω or | RCX4122FS002 |
| | RES CARBON FILM T 1/4W J 1.2k Ω or | RCX4122T1001 |
| | RES CARBON FILM 1/4W J 1.2k Ω | RCJ122PAK001 |
| R15 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R17 | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R18 | RES CARBON FILM T 1/4W J 820 Ω or | RCX4821T1001 |
| | RES CARBON FILM 1/4W J 820 Ω or | RCX4821FS002 |
| | RES CARBON FILM 1/4W J 820 Ω | RCJ821PAK001 |
| R40 | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R41 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R183 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R184 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R186 | CHIP RES. 1/10W J 33k Ω or | RRXAJR5Z0333 |
| | RES CHIP 1608 1/10W J 33k Ω | RRXA333YF002 |
| R201 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R203 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R204 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R206 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R208 | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R209 | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |
| | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R210 | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R211 | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |
| | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R212 | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R213 | RES CARBON FILM 1/4W J 15k Ω or | RCX4153FS002 |
| | RES CARBON FILM T 1/4W J 15k Ω or | RCX4153T1001 |
| | RES CARBON FILM 1/4W J 15k Ω | RCJ153PAK001 |
| R214 | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R215 | RES CARBON FILM 1/4W J 15k Ω or | RCX4153FS002 |
| | RES CARBON FILM T 1/4W J 15k Ω or | RCX4153T1001 |
| | RES CARBON FILM 1/4W J 15k Ω | RCJ153PAK001 |
| R216 | CHIP RES. 1/10W J 22k Ω or | RRXAJR5Z0223 |
| | RES CHIP 1608 1/10W J 22k Ω | RRXA223YF002 |
| R217 | CHIP RES. 1/10W J 300 Ω or | RRXAJR5Z0301 |
| | RES CHIP 1608 1/10W J 300 Ω | RRXA301YF002 |
| R222 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JPO.6MM | XZ40C0AKM001 |
| R227 | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R228 | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |
| | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R229 | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |

| Ref. No. | Description | Part No. |
|----------|----------------------------------|--------------|
| | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R230 | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |
| | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R301 | CHIP RES. 1/10W J 560 Ω or | RRXAJR5Z0561 |
| | RES CHIP 1608 1/10W J 560 Ω | RRXA561YF002 |
| R303 | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |
| | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R304 | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R305 | CHIP RES. 1/10W J 560 Ω or | RRXAJR5Z0561 |
| | RES CHIP 1608 1/10W J 560 Ω | RRXA561YF002 |
| R307 | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |
| | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R308 | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R309 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R310 | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R311 | CHIP RES. 1/10W J 6.8k Ω or | RRXAJR5Z0682 |
| | RES CHIP 1608 1/10W J 6.8k Ω | RRXA682YF002 |
| R312 | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R313 | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R314 | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R315 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R316 | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R317 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R318 | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R319 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R320 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R322 | CHIP RES. 1/10W J 560 Ω or | RRXAJR5Z0561 |
| | RES CHIP 1608 1/10W J 560 Ω | RRXA561YF002 |
| R324 | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |
| | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R325 | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R326 | CHIP RES. 1/10W J 560 Ω or | RRXAJR5Z0561 |
| | RES CHIP 1608 1/10W J 560 Ω | RRXA561YF002 |
| R328 | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |
| | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R329 | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R330 | CHIP RES. 1/10W J 6.8k Ω or | RRXAJR5Z0682 |
| | RES CHIP 1608 1/10W J 6.8k Ω | RRXA682YF002 |
| R331 | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R332 | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R333 | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R334 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R335 | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R336 | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R341 | RES CARBON FILM 1/4W J 56 Ω or | RCX4560FS002 |
| | RES CARBON FILM T 1/4W J 56 Ω or | RCX4560T1001 |

| Ref. No. | Description | Part No. |
|----------|--------------------------------------|--------------|
| | RES CARBON FILM 1/4W J 56 Ω | RCJ560PAK001 |
| R342 | RES CARBON FILM 1/4W J 56 Ω or | RCX4560FS002 |
| | RES CARBON FILM T 1/4W J 56 Ω or | RCX4560T1001 |
| | RES CARBON FILM 1/4W J 56 Ω | RCJ560PAK001 |
| R347 | RES CARBON FILM 1/4W J 100 Ω or | RCX4101FS002 |
| | RES CARBON FILM T 1/4W J 100 Ω or | RCX4101T1001 |
| | RES CARBON FILM 1/4W J 100 Ω | RCJ101PAK001 |
| R401 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R402 | CHIP RES. 1/10W J 15k Ω or | RRXAJR5Z0153 |
| | RES CHIP 1608 1/10W J 15k Ω | RRXA153YF002 |
| R403 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R404 | CHIP RES. 1/10W J 1.5k Ω or | RRXAJR5Z0152 |
| | RES CHIP 1608 1/10W J 1.5k Ω | RRXA152YF002 |
| R405 | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R406 | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R407 | CHIP RES. 1/10W J 1 Ω or | RRXAJR5Z01R0 |
| | RES CHIP 1608 1/10W J 1 Ω | RRXA1R0YF002 |
| R408 | RES CARBON FILM 1/4W J 10 Ω or | RCX4100FS002 |
| | RES CARBON FILM T 1/4W J 10 Ω or | RCX4100T1001 |
| | RES CARBON FILM 1/4W J 10 Ω | RCJ100PAK001 |
| R409 | RES CARBON FILM 1/4W J 10 Ω or | RCX4100FS002 |
| | RES CARBON FILM T 1/4W J 10 Ω or | RCX4100T1001 |
| | RES CARBON FILM 1/4W J 10 Ω | RCJ100PAK001 |
| R410 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R411 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R412 | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R413 | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R414 | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R415 | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R418 | RES CARBON FILM 1/4W J 390 Ω or | RCX4391FS002 |
| | RES CARBON FILM T 1/4W J 390 Ω or | RCX4391T1001 |
| | RES CARBON FILM 1/4W J 390 Ω | RCJ391PAK001 |
| R422 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R423 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R425 | METAL OXIDE FILM RES. 1W J 2.7k Ω or | RN01272ZU001 |
| | METALOXIDE RES 1W J 2.7KOHM | RNJ272PAK001 |
| R508 | 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 |
| R509 | CHIP RES. 1/10W F 150 Ω or | RRXAFR5H1500 |
| | CHIP RES. 1/10W F 150 Ω or | RRXAFR5Z1500 |
| | RES CHIP 1608 1/10W F 150 Ω | RTW1500YF002 |
| R510 | RES CARBON FILM 1/4W J 8.2k Ω or | RCX4822FS002 |
| | RES CARBON FILM T 1/4W J 8.2k Ω or | RCX4822T1001 |
| | RES CARBON FILM 1/4W J 8.2k Ω | RCJ822PAK001 |
| R511 | CHIP RES. 1/10W J 1.5k Ω or | RRXAJR5Z0152 |
| | RES CHIP 1608 1/10W J 1.5k Ω | RRXA152YF002 |
| R512 | CHIP RES. 1/10W F 2.2k Ω or | RRXAFR5H2201 |
| | CHIP RES.(1608) 1/10W F 2.2k Ω or | RRXAFR5Z2201 |
| | RES CHIP 1608 1/10W F 2.20k Ω | RTW2201YF002 |
| R513 | RES CARBON FILM 1/4W J 8.2k Ω or | RCX4822FS002 |
| | RES CARBON FILM T 1/4W J 8.2k Ω or | RCX4822T1001 |
| | RES CARBON FILM 1/4W J 8.2k Ω | RCJ822PAK001 |
| R514 | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |

| Ref. No. | Description | Part No. |
|----------|--|------------------------------|
| R515 | CHIP RES. 1/10W J 3.3k Ω or RES CHIP 1608 1/10W J 3.3k Ω | RRXAJR5Z0332 RRXA332YF002 |
| R517 | RES CARBON FILM 1/4W J 1.8k Ω or RES CARBON FILM T 1/4W J 1.8k Ω or | RCX4182FS002 RCX4182T1001 |
| | RES CARBON FILM 1/4W J 1.8k Ω | RCJ182PAK001 |
| R518 | RES CARBON FILM 1/4W J 1.8k Ω or RES CARBON FILM T 1/4W J 1.8k Ω or | RCX4182FS002 RCX4182T1001 |
| | RES CARBON FILM 1/4W J 1.8k Ω | RCJ182PAK001 |
| R519 | RES CARBON FILM 1/4W J 100k Ω or RES CARBON FILM T 1/4W J 100k Ω or | RCX4104FS002 RCX4104T1001 |
| | RES CARBON FILM 1/4W J 100k Ω | RCJ104PAK001 |
| R520 | RES CARBON FILM 1/4W J 47k Ω or RES CARBON FILM T 1/4W J 47k Ω or | RCX4473FS002 RCX4473T1001 |
| | RES CARBON FILM 1/4W J 47k Ω | RCJ473PAK001 |
| R521 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R522 | RES CARBON FILM 1/4W J 3.3k Ω or RES CARBON FILM T 1/4W J 3.3k Ω or | RCX4332FS002 RCX4332T1001 |
| | RES CARBON FILM 1/4W J 3.3k Ω | RCJ332PAK001 |
| R523 | RES CARBON FILM 1/4W J 27k Ω or RES CARBON FILM T 1/4W J 27k Ω or | RCX4273FS002 RCX4273T1001 |
| | RES CARBON FILM 1/4W J 27k Ω | RCJ273PAK001 |
| R524 | CHIP RES. 1/10W J 22k Ω or RES CHIP 1608 1/10W J 22k Ω | RRXAJR5Z0223 RRXA223YF002 |
| R526 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| R527 | CHIP RES. 1/10W J 47k Ω or RES CHIP 1608 1/10W J 47k Ω | RRXAJR5Z0473 RRXA473YF002 |
| R528 | CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω | RRXAJR5Z0104 RRXA104YF002 |
| R529 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R530 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R531 | RES CARBON FILM 1/4W J 47k Ω or RES CARBON FILM T 1/4W J 47k Ω or | RCX4473FS002 RCX4473T1001 |
| | RES CARBON FILM 1/4W J 47k Ω | RCJ473PAK001 |
| R532 | RES CARBON FILM 1/4W J 180 Ω or RES CARBON FILM T 1/4W J 180 Ω or | RCX4181FS002 RCX4181T1001 |
| | RES CARBON FILM 1/4W J 180 Ω | RCJ181PAK001 |
| R533 | RES CARBON FILM 1/4W J 6.8k Ω or RES CARBON FILM T 1/4W J 6.8k Ω or | RCX4682FS002 RCX4682T1001 |
| | RES CARBON FILM 1/4W J 6.8k Ω | RCJ682PAK001 |
| R534 | RES CARBON FILM 1/4W J 6.8k Ω or RES CARBON FILM T 1/4W J 6.8k Ω or | RCX4682FS002 RCX4682T1001 |
| | RES CARBON FILM 1/4W J 6.8k Ω | RCJ682PAK001 |
| R535 | METAL OXIDE FILM RES. 1W J 0.47 Ω or METALOXIDE RES 1W J 0.47OHM | RN01R47ZU001 RNJR47PAK001 |
| R536 | CHIP RES. 1/10W F 10k Ω or CHIP RES. 1/10W F 10k Ω or | RRXAFR5H1002 RRXAFR5Z1002 |
| | RES CHIP 1608 1/10W F 10.0k Ω | RTW1002YF002 |
| R537 | RES CARBON FILM 1/4W J 10 Ω or RES CARBON FILM T 1/4W J 10 Ω or | RCX4100FS002 RCX4100T1001 |
| | RES CARBON FILM 1/4W J 10 Ω | RCJ100PAK001 |
| R538 | CHIP RES. 1/10W F 3.3k Ω or CHIP RES.(1608) 1/10W F 3.3k Ω or | RRXAFR5H3301 RRXAFR5Z3301 |
| | RES CHIP 1608 1/10W F 3.30k Ω | RTW3301YF002 |
| R540 | RES CARBON FILM 1/4W J 120 Ω or RES CARBON FILM T 1/4W J 120 Ω or | RCX4121FS002 RCX4121T1001 |
| | RES CARBON FILM 1/4W J 120 Ω | RCJ121PAK001 |
| R541 | RES CARBON FILM 1/4W J 22k Ω or RES CARBON FILM T 1/4W J 22k Ω or | RCX4223FS002 RCX4223T1001 |
| | RES CARBON FILM 1/4W J 22k Ω | RCJ223PAK001 |
| R545 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R546 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |

| Ref. No. | Description | Part No. |
|----------|--|------------------------------|
| R547 | RES CARBON FILM 1/4W J 270 Ω or RES CARBON FILM T 1/4W J 270 Ω or | RCX4271FS002 RCX4271T1001 |
| | RES CARBON FILM 1/4W J 270 Ω | RCJ271PAK001 |
| R548 | RES CARBON FILM T 1/4W G 39k Ω | RCX4393T1002 |
| R549 | RES CARBON FILM T 1/4W G 1.2k Ω or RES CARBON FILM 1/4W G 1.2k Ω | RCX4122T1002 RCG122PAK001 |
| R550 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| R551 | RES CARBON FILM 1/4W J 12k Ω or RES CARBON FILM T 1/4W J 12k Ω or | RCX4123FS002 RCX4123T1001 |
| | RES CARBON FILM 1/4W J 12k Ω | RCJ123PAK001 |
| R552 | RES CARBON FILM 1/4W J 12k Ω or RES CARBON FILM T 1/4W J 12k Ω or | RCX4123FS002 RCX4123T1001 |
| | RES CARBON FILM 1/4W J 12k Ω | RCJ123PAK001 |
| R553 | RES CARBON FILM 1/4W J 10k Ω or RES CARBON FILM T 1/4W J 10k Ω or | RCX4103FS002 RCX4103T1001 |
| | RES CARBON FILM 1/4W J 10k Ω | RCJ103PAK001 |
| R554 | CHIP RES. 1/10W J 100 Ω or RES CHIP 1608 1/10W J 100 Ω | RRXAJR5Z0101 RRXA101YF002 |
| R556 | CHIP RES. 1/10W J 47k Ω or RES CHIP 1608 1/10W J 47k Ω | RRXAJR5Z0473 RRXA473YF002 |
| R557 | RES CARBON FILM 1/4W J 10k Ω or RES CARBON FILM T 1/4W J 10k Ω or | RCX4103FS002 RCX4103T1001 |
| | RES CARBON FILM 1/4W J 10k Ω | RCJ103PAK001 |
| R558 | RES CARBON FILM T 1/4W G 10k Ω | RCX4103T1002 |
| R559 | RES CARBON FILM 1/4W J 3.3k Ω or RES CARBON FILM T 1/4W J 3.3k Ω or | RCX4332FS002 RCX4332T1001 |
| | RES CARBON FILM 1/4W J 3.3k Ω | RCJ332PAK001 |
| R560 | RES CARBON FILM 1/4W J 68 Ω or RES CARBON FILM T 1/4W J 68 Ω or | RCX4680FS002 RCX4680T1001 |
| | RES CARBON FILM 1/4W J 68 Ω | RCJ680PAK001 |
| R565 | RES CARBON FILM 1/4W J 1.8k Ω or RES CARBON FILM T 1/4W J 1.8k Ω or | RCX4182FS002 RCX4182T1001 |
| | RES CARBON FILM 1/4W J 1.8k Ω | RCJ182PAK001 |
| R566 | RES CARBON FILM 1/4W J 1.8k Ω or RES CARBON FILM T 1/4W J 1.8k Ω or | RCX4182FS002 RCX4182T1001 |
| | RES CARBON FILM 1/4W J 1.8k Ω | RCJ182PAK001 |
| R567 | CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω | RRXAJR5Z0104 RRXA104YF002 |
| R568 | CHIP RES. 1/10W J 6.8k Ω or RES CHIP 1608 1/10W J 6.8k Ω | RRXAJR5Z0682 RRXA682YF002 |
| R569 | RES CARBON FILM 1/4W J 47 Ω or RES CARBON FILM T 1/4W J 47 Ω or | RCX4470FS002 RCX4470T1001 |
| | RES CARBON FILM 1/4W J 47 Ω | RCJ470PAK001 |
| R570 | RES CARBON FILM 1/4W J 1.8k Ω or RES CARBON FILM T 1/4W J 1.8k Ω or | RCX4182FS002 RCX4182T1001 |
| | RES CARBON FILM 1/4W J 1.8k Ω | RCJ182PAK001 |
| R572 | METAL OXIDE FILM RES. 1W J 1 Ω or METALOXIDE RES 1W J 1 Ω | RN011R0ZU001 RNJ1R0PAK001 |
| R573 | RES CARBON FILM 1/4W J 2.2k Ω or RES CARBON FILM T 1/4W J 2.2k Ω or | RCX4222FS002 RCX4222T1001 |
| | RES CARBON FILM 1/4W J 2.2k Ω | RCJ222PAK001 |
| R578 | RES CARBON FILM 1/4W J 3.3k Ω or RES CARBON FILM T 1/4W J 3.3k Ω or | RCX4332FS002 RCX4332T1001 |
| | RES CARBON FILM 1/4W J 3.3k Ω | RCJ332PAK001 |
| R580 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| R581 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| R583 | RES CARBON FILM 1/4W J 100k Ω or RES CARBON FILM T 1/4W J 100k Ω or | RCX4104FS002 RCX4104T1001 |
| | RES CARBON FILM 1/4W J 100k Ω | RCJ104PAK001 |
| R586 | CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω | RRXAZR5Z0000 RRXA000YF002 |
| R589 | RES CARBON FILM 1/4W J 180 Ω or RES CARBON FILM T 1/4W J 180 Ω or | RCX4181FS002 RCX4181T1001 |
| | RES CARBON FILM 1/4W J 180 Ω | RCJ181PAK001 |

| Ref. No. | Description | Part No. |
|----------|--------------------------------------|--------------|
| R590 | RES CARBON FILM 1/4W J 10 Ω or | RCX4100FS002 |
| | RES CARBON FILM T 1/4W J 10 Ω or | RCX4100T1001 |
| | RES CARBON FILM 1/4W J 10 Ω | RCJ100PAK001 |
| R591 | RES CARBON FILM 1/4W J 10 Ω or | RCX4100FS002 |
| | RES CARBON FILM T 1/4W J 10 Ω or | RCX4100T1001 |
| | RES CARBON FILM 1/4W J 10 Ω | RCJ100PAK001 |
| R594 | RES CARBON FILM 1/4W J 2.2k Ω or | RCX4222FS002 |
| | RES CARBON FILM T 1/4W J 2.2k Ω or | RCX4222T1001 |
| | RES CARBON FILM 1/4W J 2.2k Ω | RCJ222PAK001 |
| R595 | RES CARBON FILM 1/4W J 2.2k Ω or | RCX4222FS002 |
| | RES CARBON FILM T 1/4W J 2.2k Ω or | RCX4222T1001 |
| | RES CARBON FILM 1/4W J 2.2k Ω | RCJ222PAK001 |
| R596 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | FRXA000YF002 |
| R597 | RES CARBON FILM 1/4W J 10 Ω or | RCX4100FS002 |
| | RES CARBON FILM T 1/4W J 10 Ω or | RCX4100T1001 |
| | RES CARBON FILM 1/4W J 10 Ω | RCJ100PAK001 |
| R598 | RES CARBON FILM 1/4W J 470 Ω or | RCX4471FS002 |
| | RES CARBON FILM T 1/4W J 470 Ω or | RCX4471T1001 |
| | RES CARBON FILM 1/4W J 470 Ω | RCJ471PAK001 |
| R599 | RES CARBON FILM 1/4W J 10 Ω or | RCX4100FS002 |
| | RES CARBON FILM T 1/4W J 10 Ω or | RCX4100T1001 |
| | RES CARBON FILM 1/4W J 10 Ω | RCJ100PAK001 |
| R605 | GLASS GLAZE RES. 1/2W J 1M Ω or | RXX2JZLZ0105 |
| | RES. CARBON FILM J 1/2W J 1.0M Ω | RCX2105T1003 |
| R628 | CHIP RES. 1/10W F 3.3k Ω or | RRXAFR5H3301 |
| | CHIP RES.(1608) 1/10W F 3.3k Ω or | RRXAFR5Z3301 |
| | RES CHIP 1608 1/10W F 3.3k Ω | RTW3301YF002 |
| R629 | CHIP RES. 1/10W F 10k Ω or | RRXAFR5H1002 |
| | CHIP RES. 1/10W F 10k Ω or | RRXAFR5Z1002 |
| | RES CHIP 1608 1/10W F 10.0k Ω | RTW1002YF002 |
| R630 | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R638 | METAL OXIDE FILM RES. 2W J 0.33 Ω or | RN02R33ZU001 |
| | METALOXIDE RES 2W J 0.33OHM | RNJR33PAK002 |
| R639 | RES CARBON FILM 1/4W J 4.7k Ω or | RCX4472FS002 |
| | RES CARBON FILM T 1/4W J 4.7k Ω or | RCX4472T1001 |
| | RES CARBON FILM 1/4W J 4.7k Ω | RCJ472PAK001 |
| R640 | RES CARBON FILM 1/4W J 390 Ω or | RCX4391FS002 |
| | RES CARBON FILM T 1/4W J 390 Ω or | RCX4391T1001 |
| | RES CARBON FILM 1/4W J 390 Ω | RCJ391PAK001 |
| R641 | RES CARBON FILM 1/4W J 10 Ω or | RCX4100FS002 |
| | RES CARBON FILM T 1/4W J 10 Ω or | RCX4100T1001 |
| | RES CARBON FILM 1/4W J 10 Ω | RCJ100PAK001 |
| R642 | RES CARBON FILM 1/4W J 82 Ω or | RCX4820FS002 |
| | RES CARBON FILM T 1/4W J 82 Ω or | RCX4820T1001 |
| | RES CARBON FILM 1/4W J 82 Ω | RCJ820PAK001 |
| R643 | RES CARBON FILM 1/4W J 82 Ω or | RCX4820FS002 |
| | RES CARBON FILM T 1/4W J 82 Ω or | RCX4820T1001 |
| | RES CARBON FILM 1/4W J 82 Ω | RCJ820PAK001 |
| R644 | RES CARBON FILM 1/4W J 82 Ω or | RCX4820FS002 |
| | RES CARBON FILM T 1/4W J 82 Ω or | RCX4820T1001 |
| | RES CARBON FILM 1/4W J 82 Ω | RCJ820PAK001 |
| R645 | RES CARBON FILM 1/4W J 18k Ω or | RCX4183FS002 |
| | RES CARBON FILM T 1/4W J 18k Ω or | RCX4183T1001 |
| | RES CARBON FILM 1/4W J 18k Ω | RCJ183PAK001 |
| R646 | RES CARBON FILM 1/4W J 100k Ω or | RCX4104FS002 |
| | RES CARBON FILM T 1/4W J 100k Ω or | RCX4104T1001 |
| | RES CARBON FILM 1/4W J 100k Ω | RCJ104PAK001 |
| R647 | RES CARBON FILM 1/4W J 39 Ω or | RCX4390FS002 |
| | RES CARBON FILM T 1/4W J 39 Ω or | RCX4390T1001 |
| | RES CARBON FILM 1/4W J 39 Ω | RCJ390PAK001 |
| R648 | RES CARBON FILM 1/4W J 1k Ω or | RCX4102FS002 |
| | RES CARBON FILM T 1/4W J 1.0k Ω or | RCX4102T1001 |
| | RES CARBON FILM 1/4W J 1.0k Ω | RCJ102PAK001 |
| R649 | RES CARBON FILM 1/4W J 10k Ω or | RCX4103FS002 |
| | RES CARBON FILM T 1/4W J 10k Ω or | RCX4103T1001 |

| Ref. No. | Description | Part No. |
|----------------------|------------------------------------|--------------|
| | RES CARBON FILM 1/4W J 10k Ω | RCJ103PAK001 |
| R650 | RES CARBON FILM 1/4W J 1.2k Ω or | RCX4122FS002 |
| | RES CARBON FILM T 1/4W J 1.2k Ω or | RCX4122T1001 |
| | RES CARBON FILM 1/4W J 1.2k Ω | RCJ122PAK001 |
| R651 | RES CARBON FILM 1/4W J 5.6 Ω or | RCX45R6FS002 |
| | RES CARBON FILM T 1/4W J 5.6 Ω or | RCX45R6T1001 |
| | RES CARBON FILM 1/4W J 5.6 Ω | RCJ5R6PAK001 |
| R652 | RES CARBON FILM 1/4W J 5.6 Ω or | RCX45R6FS002 |
| | RES CARBON FILM T 1/4W J 5.6 Ω or | RCX45R6T1001 |
| | RES CARBON FILM 1/4W J 5.6 Ω | RCJ5R6PAK001 |
| R653 | RES CARBON FILM 1/4W J 100k Ω or | RCX4104FS002 |
| | RES CARBON FILM T 1/4W J 100k Ω or | RCX4104T1001 |
| | RES CARBON FILM 1/4W J 100k Ω | RCJ104PAK001 |
| R656 | RES CARBON FILM 1/4W J 82k Ω or | RCX4823FS002 |
| | RES CARBON FILM T 1/4W J 82k Ω or | RCX4823T1001 |
| | RES CARBON FILM 1/4W J 82k Ω | RCJ823PAK001 |
| R657 | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R660 | RES CHIP 3216 1/4W J 1.0M Ω or | RRX4105HH034 |
| | RES CHIP 3216 1/4W J 1.0M Ω or | RRX4105YF004 |
| | CHIP RES. 1/4W J 1M Ω | RRX4JR7Z0105 |
| R661 | RES CHIP 3216 1/4W J 1.0M Ω or | RRX4105HH034 |
| | RES CHIP 3216 1/4W J 1.0M Ω or | RRX4105YF004 |
| | CHIP RES. 1/4W J 1M Ω | RRX4JR7Z0105 |
| R662 | RES CHIP 3216 1/4W J 1.0M Ω or | RRX4105HH034 |
| | RES CHIP 3216 1/4W J 1.0M Ω or | RRX4105YF004 |
| | CHIP RES. 1/4W J 1M Ω | RRX4JR7Z0105 |
| R663 | RES CHIP 3216 1/4W J 1.0M Ω or | RRX4105HH034 |
| | RES CHIP 3216 1/4W J 1.0M Ω or | RRX4105YF004 |
| | CHIP RES. 1/4W J 1M Ω | RRX4JR7Z0105 |
| R664 | RES CHIP 3216 1/4W J 1.0M Ω or | RRX4105HH034 |
| | RES CHIP 3216 1/4W J 1.0M Ω or | RRX4105YF004 |
| | CHIP RES. 1/4W J 1M Ω | RRX4JR7Z0105 |
| R671 | RES CARBON FILM 1/4W J 18k Ω or | RCX4183FS002 |
| | RES CARBON FILM T 1/4W J 18k Ω or | RCX4183T1001 |
| | RES CARBON FILM 1/4W J 18k Ω | RCJ183PAK001 |
| R672 | CHIP RES. 1/10W J 5.6k Ω or | RRXAJR5Z0562 |
| | RES CHIP 1608 1/10W J 5.6k Ω | RRXA562YF002 |
| R675 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R801 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R802 | CHIP RES. 1/10W F 27k Ω or | RRXAFR5H2702 |
| | CHIP RES.(1608) 1/10W F 27k Ω or | RRXAFR5Z2702 |
| | RES CHIP 1608 1/10W F 27.0k Ω | RTW2702YF002 |
| R803 | CHIP RES. 1/10W F 10k Ω or | RRXAFR5H1002 |
| | CHIP RES. 1/10W F 10k Ω or | RRXAFR5Z1002 |
| | RES CHIP 1608 1/10W F 10.0k Ω | RTW1002YF002 |
| R804 | CHIP RES. 1/10W F 10k Ω or | RRXAFR5H1002 |
| | CHIP RES. 1/10W F 10k Ω or | RRXAFR5Z1002 |
| | RES CHIP 1608 1/10W F 10.0k Ω | RTW1002YF002 |
| R806 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R807 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R810 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R903 | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R908 | CHIP RES. 1/10W J 270 Ω or | RRXAJR5Z0271 |
| | RES CHIP 1608 1/10W J 270 Ω | RRXA271YF002 |
| MISCELLANEOUS | | |
| B7 | PCB STUD A93FOFP | 1EM326099 |
| B9 | HEAT SINK PMR ASSEMBLY A8CN0FP | 1EM425837A |
| B10 | MODULE HEAT SINK PMC P7150UT | 1EM423968 |
| BC11 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLF0S0XM002 |

| Ref. No. | Description | Part No. |
|----------|--|---------------|
| BC181 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| BC182 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| BC201 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| BC401 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| BC402 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| BC501 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| BC502 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC503 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC601 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| BC602 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| BC603 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| BC607 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC609 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC621 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC622 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC623 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC624 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC625 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC626 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC802 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC803 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC804 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| BC805 | BEADS INDUCTOR FBR07HA121SB-00 or | LLBF00STU030 |
| | BEAD INDUCTOR B29 RID 2.3X7.5X7.5T | LLEF0S0XM002 |
| JK201 | JACK RCA PCB S GREEN 01/RCA-101H(GN) or | JXRJ010YUQ03 |
| | JACK RCA PCB S(GREEN) 01 MTJ-032-04B-73 FE or | JXRJ010LY030 |
| | JACK RCA PCB S GREEN 01 / RCA-101HF(GN) | JXRJ010YUQ09 |
| JK202 | JACK RCA PCB S BLUE 01/RCA-101H(BL) or | JXRJ010YUQ04 |
| | JACK RCA PCB S(BLUE) 01 MTJ-032-04B-74 FE or | JXRJ010LY033 |
| | JACK RCA PCB S BLUE 01 / RCA-101HF(BL) | JXRJ010YUQ10 |
| JK203 | JACK RCA PCB S RED 01/RCA-101H(RD) or | JXRJ010YUQ01 |
| | JACK RCA PCB S(RED) 01 MTJ-032-04B-75 FE or | JXRJ010LY028 |
| | JACK PCA PCB S RED 01 / RCA-101HF(RD) | JXRJ010YUQ007 |
| JK204 | JACK RCA PCB S WHITE 01/RCA-101H(WH) or | JXRJ010YUQ02 |
| | JACK RCA PCB S (WHITE) 01 MTJ-032-04B-41 FE or | JXRJ010LY031 |
| | JACK RCA PCB S WHITE 01 / RCA-101HF(WH) | JXRJ010YUQ008 |
| JK205 | JACK SW RCA PCB S RED RCA-102H(RD) or | JYRJ010YUQ03 |
| | JACK SW RCA PCB S(RED) 01 MTJ-032-04A-75 FE | JYRJ010LY031 |
| JK206 | JACK HPEP SML PCB S PJ-358H or | JXSJ020YUQ01 |
| | JACK HPEP SML PCB S O2 MSJ-035-29D (ABS) | JXSJ020LY001 |

| Ref. No. | Description | Part No. |
|--------------------|---|---------------|
| JK207 | JACK RCA PCB S(ORANGE) 01 MTJ-032-04B-76 FE or | JXRJ010LY029 |
| | JACK RCA PCB S ORANGE 01/RCA-101H(OR) or | JXRJ010YUQ06 |
| | JACK RCA PCB S ORANGE 01 / RCA-101HF(OR) | JXRJ010YUQ012 |
| JK210 | JACK SW DIN PCB S 04/DIN-417HA-01 or | JYEJ040YUQ03 |
| | JACK SW DIN PCB S 04 MDC-076H-A LF | JYEJ040LY002 |
| JK211 | JACK RCA PCB S YELLOW 01/RCA-101H(YL) or | JXRJ010YUQ05 |
| | JACK RCA PCB S (YELLOW) 01 MTJ-032-04B-40 FE or | JXRJ010LY032 |
| | JACK RCA PCB S YELLOW 01 / RCA-101HF(YL) | JXRJ010YUQ011 |
| JK212 | JACK RCA PCB S WHITE 01/RCA-101H(WH) or | JXRJ010YUQ02 |
| | JACK RCA PCB S (WHITE) 01 MTJ-032-04B-41 FE or | JXRJ010LY031 |
| | JACK RCA PCB S WHITE 01 / RCA-101HF(WH) | JXRJ010YUQ008 |
| JK213 | JACK SW RCA PCB S RED RCA-102H(RD) or | JYRJ010YUQ03 |
| | JACK SW RCA PCB S(RED) 01 MTJ-032-04A-75 FE | JYRJ010LY031 |
| JK301 | JACK RGB PCB S 01/RGB-11HS | JXGJ21YUQ001 |
| JK302 | JACK RGB PCB S 01/RGB-11HS | JXGJ21YUQ001 |
| JS20 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| JS21 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| JS300 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| JS302 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| JS303 | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| JS512 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| JS551 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| JS552 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| JS601 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| JS602 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| L3 | SCREW B-TIGHT D3X8 BIND HEAD+ | GBJB3080 |
| SA602 [△] | SURGE ABSORBER 470V+10PER or | NVQZ10D471KB |
| [△] | VARISTOR 10D 471K SVR or | NVQZVR10D471 |
| [△] | VARISTOR/Q TVR10471KS42Y | NVQKTVR10471 |
| SA608 [△] | SURGE ABSORBER 470V+10PER or | NVQZ10D471KB |
| [△] | VARISTOR 10D 471K SVR or | NVQZVR10D471 |
| [△] | VARISTOR/Q TVR10471KS42Y | NVQKTVR10471 |
| T601 [△] | TRANS POWER BCK-35-0777 or | LTT3PE0XB064 |
| [△] | TRANS POWER BCK-35AY | LTT3PEMEK012 |
| T602 [△] | COIL EF JCC41-0028 | LLEE0Z0XB010 |

INVERTER ASSEMBLY

| Ref. No. | Description | Part No. |
|----------|---|--------------|
| | INVERTER ASSEMBLY Consists of the following: | A0CA0M1V-001 |
| | INVERTER CBA | ----- |
| | FUNCTION CBA | ----- |
| | POWER SW CBA | ----- |

INVERTER CBA

| Ref. No. | Description | Part No. |
|-------------------|--|--------------|
| | INVERTER CBA Consists of the following: | ----- |
| CAPACITORS | | |
| C1002 | ELECTROLYTIC CAP. 100μF/35V M or | CE1GMASDL101 |
| | CAP ELE 100μF/35V/M/85 or | CEE101KSN001 |

| Ref. No. | Description | Part No. |
|----------|--|--------------|
| | CAP ELE 100µF/35V/M/85 | CEE101TEP001 |
| C1003 | CHIP CERAMIC CAP.(1608) B K 0.1µF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1µF/50V | CHD104EYA032 |
| C1004 | ELECTROLYTIC CAP. 100µF/10V M or | CE1AMASDL101 |
| | CAP ELE 100µF/10V/M/85 or | CEB101KSN001 |
| | CAP ELE 100µF/10V/M/85 | CEB101TEP001 |
| C1005 | CHIP CERAMIC CAP.(1608) B K 0.1µF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1µF/50V | CHD104EYA032 |
| C1006 | CHIP CERAMIC CAP.(1608) B K 0.22µF/25V or | CHD1EK30B224 |
| | CAP CHIP 1608 K/X5R/0.22µF/25V | CHD224EYA042 |
| C1007 | CHIP CERAMIC CAP.(1608) B K 0.1µF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1µF/50V | CHD104EYA032 |
| C1008 | CHIP CERAMIC CAP. B K 0.068µF/50V or | CHD1JK30B683 |
| | CAP CHIP 1608 K/X7R/0.068µF/50V | CHD683EYA032 |
| C1018 | CHIP CERAMIC CAP. B K 0.01µF/25V | CHD1EK30B103 |
| C1019 | CHIP CERAMIC CAP. B K 0.01µF/25V | CHD1EK30B103 |
| C1020 | CHIP CERAMIC CAP. B K 0.01µF/25V | CHD1EK30B103 |
| C1023 | ELECTROLYTIC CAP. 470µF/35V M or | CE1GMASDL471 |
| | CAP ELE 470µF/35V/M/85 or | CEE471KSN001 |
| | CAP ELE 470µF/35V/M/85 | GEE471TEP001 |
| C1024 | ELECTROLYTIC CAP. 470µF/35V M or | CE1GMASDL471 |
| | CAP ELE 470µF/35V/M/85 or | CEE471KSN001 |
| | CAP ELE 470µF/35V/M/85 | CEE471TEP001 |
| C1103 | CHIP CERAMIC CAP.(1608) B K 0.047µF/50V or | CHD1JK30B473 |
| | CAP CHIP 1608 K/X7R/0.047µF/50V | CHD473EYA032 |
| C1106 | CHIP CERAMIC CAP.(1608) CH J 1800pF/50V | CHD1J3CH182 |
| C1107 | CHIP CERAMIC CAP.(1608) B K 0.1µF/50V or | CHD1JK30B104 |
| | CAP CHIP 1608 K/X7R/0.1µF/50V | CHD104EYA032 |
| C1108 | CHIP CERAMIC CAP.(1608) B K 1000pF/50V | CHD1JK30B102 |
| C1109 | CHIP CERAMIC CAP.(1608) B K 0.047µF/50V or | CHD1JK30B473 |
| | CAP CHIP 1608 K/X7R/0.047µF/50V | CHD473EYA032 |
| C1110 | CHIP CERAMIC CAP.(1608) B K 2.2µF/10V | CHD1AK30B225 |
| C1111 | CHIP CERAMIC CAP.(1608) B K 1000pF/50V | CHD1JK30B102 |
| C1112 | CHIP CERAMIC CAP.(1608) B K 1000pF/50V | CHD1JK30B102 |
| C1113 | CAP METALIZED FILM 1.0µF/63V J or | CT1K105SER01 |
| | CAP POLYESTER FILM 1µF/63V/J/PCMT or | CTA105PKR002 |
| | CAP METALIZED FILM 1µF 50V J | CT1J105DT040 |
| C1114 | CAP METALIZED FILM 1.0µF/63V J or | CT1K105SER01 |
| | CAP POLYESTER FILM 1µF/63V/J/PCMT or | CTA105PKR002 |
| | CAP METALIZED FILM 1µF 50V J | CT1J105DT040 |
| C1115 | CAP METALIZED FILM 1.0µF/63V J or | CT1K105SER01 |
| | CAP POLYESTER FILM 1µF/63V/J/PCMT or | CTA105PKR002 |
| | CAP METALIZED FILM 1µF 50V J | CT1J105DT040 |
| C1123 | CHIP CERAMIC CAP.(1608) B K 0.047µF/50V or | CHD1JK30B473 |
| | CAP CHIP 1608 K/X7R/0.047µF/50V | CHD473EYA032 |
| C1144 | CHIP CERAMIC CAP.(1608) C0G/J/220pF/100V | CA2A221MR133 |
| C1145 | CHIP CERAMIC CAP.(1608) C0G/J/220pF/100V | CA2A221MR133 |
| C1146 | CHIP CERAMIC CAP.(1608) C0G/J/220pF/100V | CA2A221MR133 |
| C1201 | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCA1000MR001 |
| | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCC1000MR007 |
| | CAP CERAMIC HV 10pF/6KV/SL/J | CCK1000TE009 |
| C1202 | CAP CERAMIC (AX) 1000pF/50V/B/K or | CA1J102TU061 |
| | CERAMIC CAP.(AX) B K 1000pF/50V | CCA1JKT0B102 |
| C1203 | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCA1000MR001 |
| | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCC1000MR007 |
| | CAP CERAMIC HV 10pF/6KV/SL/J | CCK1000TE009 |
| C1204 | CAP CERAMIC (AX) 1000pF/50V/B/K or | CA1J102TU061 |
| | CERAMIC CAP.(AX) B K 1000pF/50V | CCA1JKT0B102 |
| C1205 | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCA1000MR001 |
| | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCC1000MR007 |
| | CAP CERAMIC HV 10pF/6KV/SL/J | CCK1000TE009 |
| C1206 | CAP CERAMIC (AX) 1000pF/50V/B/K or | CA1J102TU061 |
| | CERAMIC CAP.(AX) B K 1000pF/50V | CCA1JKT0B102 |
| C1207 | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCA1000MR001 |
| | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCC1000MR007 |
| | CAP CERAMIC HV 10pF/6KV/SL/J | CCK1000TE009 |
| C1208 | CAP CERAMIC (AX) 1000pF/50V/B/K or | CA1J102TU061 |

| Ref. No. | Description | Part No. |
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| | CERAMIC CAP.(AX) B K 1000pF/50V | CCA1JKT0B102 |
| C1209 | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCA1000MR001 |
| | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCC1000MR007 |
| | CAP CERAMIC HV 10pF/6KV/SL/J | CCK1000TE009 |
| C1210 | CAP CERAMIC (AX) 1000pF/50V/B/K or | CA1J102TU061 |
| | CERAMIC CAP.(AX) B K 1000pF/50V | CCA1JKT0B102 |
| C1211 | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCA1000MR001 |
| | CAP CERAMIC HV 10pF/6.3KV/SL/J or | CCC1000MR007 |
| | CAP CERAMIC HV 10pF/6KV/SL/J | CCK1000TE009 |
| C1212 | CAP CERAMIC (AX) 1000pF/50V/B/K or | CA1J102TU061 |
| | CERAMIC CAP.(AX) B K 1000pF/50V | CCA1JKT0B102 |
| C1213 | CHIP CERAMIC CAP. F Z 2.2µF/10V | CHD1AZ30F225 |
| C1215 | CHIP CERAMIC CAP. F Z 2.2µF/10V | CHD1AZ30F225 |
| C1217 | CHIP CERAMIC CAP. F Z 2.2µF/10V | CHD1AZ30F225 |
| CONNECTORS | | |
| CN1201 | CONNECTOR/JACK 1747386-1 | JB17J02AP002 |
| CN1202 | CONNECTOR/JACK 1747386-1 | JB17J02AP002 |
| CN1203 | CONNECTOR/JACK 1747386-1 | JB17J02AP002 |
| DIODES | | |
| D1001 | DIODE ZENER 6V2BSB-T26 or | NDTB6R2BST26 |
| | DIODE ZENER HZS6.2NB2TE-EQ | QDTB0HZS6R2N |
| D1006 | DIODE ZENER 27BSB-T26 or | NDTB027BST26 |
| | DIODE ZENER HZS27NB2TE-EQ | QDTBHZS27NB2 |
| D1101 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D1102 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1103 | DIODE ZENER 5V6BSB-T26 or | NDTB5R6BST26 |
| | DIODE ZENER HZS5.6NB2TE-EQ | QDTB0HZS5R6N |
| D1104 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1201 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1202 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| D1203 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1204 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| D1205 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1206 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1207 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1208 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1209 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1210 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| D1211 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1212 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1213 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |

| Ref. No. | Description | Part No. |
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| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1214 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1215 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1216 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1217 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1218 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1219 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1220 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1221 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1222 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1223 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1224 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1225 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1226 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| D1227 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E or | QDTZ0HSS4148 |
| | DIODE SWITCHING 1N4148-F0021 | NDTZ01N4148F |
| IC | | |
| IC1101 | IC INVERTER CONTROLLER OZ9933GN-A-0-TR | NSCA0TTMC001 |
| TRANSISTORS | | |
| Q1004 | TRANSISTOR KTC3198-Y-AT/P or | NQSYKTC3198P |
| | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | TRANSISTOR 2SC1815-GR(TE2 F T) or | QQS12SC1815F |
| | NPN TRANSISTOR 2SC5343Y-AT or | NQSY02SC5343 |
| | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | NPN TRANSISTOR 2SC5343MG-AT or | NQSG2SC5343M |
| | NPN TRANSISTOR 2SC5343M Y | NQSY2SC5343M |
| Q1005 | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | TRANSISTOR 2SA1015-Y(TE2 F T) or | QQSY2SA1015F |
| | TRANSISTOR 2SA1015-GR(TE2 F T) or | QQS12SA1015F |
| | PNP TRANSISTOR 2SA1980Y-AT or | NQSY02SA1980 |
| | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | PNP TRANSISTOR 2SA1980M Y or | NQSY2SA1980M |
| | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q1006 | TRANSISTOR KTC3198-Y-AT/P or | NQSYKTC3198P |
| | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |

| Ref. No. | Description | Part No. |
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| | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | TRANSISTOR 2SC1815-GR(TE2 F T) or | QQS12SC1815F |
| | NPN TRANSISTOR 2SC5343Y-AT or | NQSY02SC5343 |
| | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | NPN TRANSISTOR 2SC5343MG-AT or | NQSG2SC5343M |
| | NPN TRANSISTOR 2SC5343M Y | NQSY2SC5343M |
| Q1007 | TRANSISTOR KTC3198-Y-AT/P or | NQSYKTC3198P |
| | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | TRANSISTOR 2SC1815-GR(TE2 F T) or | QQS12SC1815F |
| | NPN TRANSISTOR 2SC5343Y-AT or | NQSY02SC5343 |
| | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | NPN TRANSISTOR 2SC5343MG-AT or | NQSG2SC5343M |
| | NPN TRANSISTOR 2SC5343M Y | NQSY2SC5343M |
| Q1009 | TRANSISTOR KTC3198-Y-AT/P or | NQSYKTC3198P |
| | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | TRANSISTOR 2SC1815-Y(TE2 F T) or | QQSY2SC1815F |
| | TRANSISTOR 2SC1815-GR(TE2 F T) or | QQS12SC1815F |
| | NPN TRANSISTOR 2SC5343Y-AT or | NQSY02SC5343 |
| | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | NPN TRANSISTOR 2SC5343MG-AT or | NQSG2SC5343M |
| | NPN TRANSISTOR 2SC5343M Y | NQSY2SC5343M |
| Q1010 | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | TRANSISTOR 2SA1015-Y(TE2 F T) or | QQSY2SA1015F |
| | TRANSISTOR 2SA1015-GR(TE2 F T) or | QQS12SA1015F |
| | PNP TRANSISTOR 2SA1980Y-AT or | NQSY02SA1980 |
| | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | PNP TRANSISTOR 2SA1980M Y or | NQSY2SA1980M |
| | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q1011 | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | TRANSISTOR 2SA1015-Y(TE2 F T) or | QQSY2SA1015F |
| | TRANSISTOR 2SA1015-GR(TE2 F T) or | QQS12SA1015F |
| | PNP TRANSISTOR 2SA1980Y-AT or | NQSY02SA1980 |
| | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | PNP TRANSISTOR 2SA1980M Y or | NQSY2SA1980M |
| | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q1012 | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | TRANSISTOR 2SA1015-Y(TE2 F T) or | QQSY2SA1015F |
| | TRANSISTOR 2SA1015-GR(TE2 F T) or | QQS12SA1015F |
| | PNP TRANSISTOR 2SA1980Y-AT or | NQSY02SA1980 |
| | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | PNP TRANSISTOR 2SA1980M Y or | NQSY2SA1980M |
| | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q1101 | FET MOS FDD5614P/Z | NF2ZFDD5614P |
| Q1102 | FET MOS FDD5612Z | NF2ZFDD56120 |
| Q1112 | FET MOS FDD5614P/Z | NF2ZFDD5614P |
| Q1113 | FET MOS FDD5612Z | NF2ZFDD56120 |
| RESISTORS | | |
| R1005 | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1007 | RES CARBON FILM T 1/4W J 22k Ω or | RCX4223T1001 |
| | RES CARBON FILM 1/4W J 22k Ω or | RCX4223FS002 |
| | RES CARBON FILM 1/4W J 22k Ω | RCJ223PAK001 |
| R1008 | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R1009 | CHIP RES. 1/10W J 4.7k Ω or | RRXAJR5Z0472 |
| | RES CHIP 1608 1/10W J 4.7k Ω | RRXA472YF002 |
| R1010 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R1011 | CHIP RES. 1/10W J 22k Ω or | RRXAJR5Z0223 |
| | RES CHIP 1608 1/10W J 22k Ω | RRXA223YF002 |

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| R1012 | CHIP RES. 1/10W J 4.7k Ω or RES CHIP 1608 1/10W J 4.7k Ω | RRXAJR5Z0472 RRXA472YF002 |
| R1013 | CHIP RES. 1/10W J 4.7k Ω or RES CHIP 1608 1/10W J 4.7k Ω | RRXAJR5Z0472 RRXA472YF002 |
| R1014 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R1015 | CHIP RES. 1/10W J 22k Ω or RES CHIP 1608 1/10W J 22k Ω | RRXAJR5Z0223 RRXA223YF002 |
| R1017 | CHIP RES. 1/10W J 4.7k Ω or RES CHIP 1608 1/10W J 4.7k Ω | RRXAJR5Z0472 RRXA472YF002 |
| R1018 | CHIP RES. 1/10W J 1k Ω or RES CHIP 1608 1/10W J 1.0k Ω | RRXAJR5Z0102 RRXA102YF002 |
| R1026 | RES CARBON FILM T 1/4W J 5.6k Ω or RES CARBON FILM 1/4W J 5.6k Ω or RES CARBON FILM 1/4W J 5.6k Ω | RCX4562T1001 RCX4562FS002 RCJ562PAK001 |
| R1027 | RES CARBON FILM T 1/4W J 5.6k Ω or RES CARBON FILM 1/4W J 5.6k Ω or RES CARBON FILM 1/4W J 5.6k Ω | RCX4562T1001 RCX4562FS002 RCJ562PAK001 |
| R1028 | RES CARBON FILM T 1/4W J 5.6k Ω or RES CARBON FILM 1/4W J 5.6k Ω or RES CARBON FILM 1/4W J 5.6k Ω | RCX4562T1001 RCX4562FS002 RCJ562PAK001 |
| R1029 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R1030 | CHIP RES. 1/10W J 20k Ω or RES CHIP 1608 1/10W J 20k Ω | RRXAJR5Z0203 RRXA203YF002 |
| R1032 | CHIP RES. 1/10W J 1M Ω or RES CHIP 1608 1/10W J 1.0M Ω | RRXAJR5Z0105 RRXA105YF002 |
| R1034 | CHIP RES. 1/10W J 1M Ω or RES CHIP 1608 1/10W J 1.0M Ω | RRXAJR5Z0105 RRXA105YF002 |
| R1036 | CHIP RES. 1/10W J 1M Ω or RES CHIP 1608 1/10W J 1.0M Ω | RRXAJR5Z0105 RRXA105YF002 |
| R1037 | CHIP RES. 1/10W J 270k Ω or RES CHIP 1608 1/10W J 270k Ω | RRXAJR5Z0274 RRXA274YF002 |
| R1038 | CHIP RES. 1/10W J 270k Ω or RES CHIP 1608 1/10W J 270k Ω | RRXAJR5Z0274 RRXA274YF002 |
| R1039 | CHIP RES. 1/10W J 270k Ω or RES CHIP 1608 1/10W J 270k Ω | RRXAJR5Z0274 RRXA274YF002 |
| R1101 | RES CARBON FILM T 1/4W J 5.1k Ω or RES CARBON FILM 1/4W J 5.1k Ω or RES CARBON FILM 1/4W J 5.1k Ω | RCX4512T1001 RCX4512FS002 RCJ512PAK001 |
| R1102 | CHIP RES. 1/10W J 10 Ω or RES CHIP 1608 1/10W J 10 Ω | RRXAJR5Z0100 RRXA100YF002 |
| R1103 | CHIP RES. 1/10W J 2.2k Ω or RES CHIP 1608 1/10W J 2.2k Ω | RRXAJR5Z0222 RRXA222YF002 |
| R1116 | CHIP RES. 1/10W F 10k Ω or RES CHIP 1608 1/10W F 10k Ω or RES CHIP 1608 1/10W F 10.0k Ω | RRXAFR5H1002 RRXAFR5Z1002 RTW1002YF002 |
| R1117 | CHIP RES. 1/10W F 110k Ω or RES CHIP 1608 1/10W F 110k Ω | RRXAFR5H1103 RRXAFR5Z1103 RTW1103YF002 |
| R1118 | CHIP RES. 1/10W J 33k Ω or RES CHIP 1608 1/10W J 33k Ω | RRXAJR5Z0333 RRXA333YF002 |
| R1119 | CHIP RES. 1/10W J 33k Ω or RES CHIP 1608 1/10W J 33k Ω | RRXAJR5Z0333 RRXA333YF002 |
| R1120 | CHIP RES. 1/10W J 1M Ω or RES CHIP 1608 1/10W J 1.0M Ω | RRXAJR5Z0105 RRXA105YF002 |
| R1121 | CHIP RES. 1/10W F 47.0k Ω or RES CHIP 1608 1/10W F 47k Ω or RES CHIP 1608 1/10W F 47.0k Ω | RRXAFR5H4702 RRXAFR5Z4702 RTW4702YF002 |
| R1122 | RES CARBON FILM T 1/4W J 5.1k Ω or RES CARBON FILM 1/4W J 5.1k Ω or RES CARBON FILM 1/4W J 5.1k Ω | RCX4512T1001 RCX4512FS002 RCJ512PAK001 |
| R1123 | CHIP RES. 1/10W J 10 Ω or RES CHIP 1608 1/10W J 10 Ω | RRXAJR5Z0100 RRXA100YF002 |
| R1124 | CHIP RES. 1/10W J 2.2k Ω or RES CHIP 1608 1/10W J 2.2k Ω | RRXAJR5Z0222 RRXA222YF002 |
| R1137 | CHIP RES. 1/10W F 27k Ω or | RRXAFR5H2702 |

| Ref. No. | Description | Part No. |
|--|---|--|
| | CHIP RES.(1608) 1/10W F 27k Ω or RES CHIP 1608 1/10W F 27.0k Ω | RRXAFR5Z2702 RTW2702YF002 |
| R1138 | CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω | RRXAZR5Z0000 RRXA000YF002 |
| R1201 | CHIP RES. 1/10W F 270 Ω or RES CHIP 1608 1/10W F 270 Ω | RRXAFR5H2700 RRXAFR5Z2700 RTW2700YF002 |
| R1202 | CHIP RES. 1/10W F 390 Ω or RES CHIP 1608 1/10W F 390 Ω | RRXAFR5H3900 RRXAFR5Z3900 RTW3900YF002 |
| R1205 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R1207 | CHIP RES. 1/10W F 270 Ω or RES CHIP 1608 1/10W F 270 Ω | RRXAFR5H2700 RRXAFR5Z2700 RTW2700YF002 |
| R1208 | CHIP RES. 1/10W F 390 Ω or RES CHIP 1608 1/10W F 390 Ω | RRXAFR5H3900 RRXAFR5Z3900 RTW3900YF002 |
| R1211 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R1213 | CHIP RES. 1/10W J 27k Ω or RES CHIP 1608 1/10W J 27k Ω | RRXAJR5Z0273 RRXA273YF002 |
| R1214 | CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω | RRXAJR5Z0104 RRXA104YF002 |
| R1215 | CHIP RES. 1/10W J 82k Ω or RES CHIP 1608 1/10W J 82k Ω | RRXAJR5Z0823 RRXA823YF002 |
| R1216 | CHIP RES. 1/10W J 27k Ω or RES CHIP 1608 1/10W J 27k Ω | RRXAJR5Z0273 RRXA273YF002 |
| R1217 | CHIP RES. 1/10W J 27k Ω or RES CHIP 1608 1/10W J 27k Ω | RRXAJR5Z0273 RRXA273YF002 |
| R1218 | CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω | RRXAJR5Z0104 RRXA104YF002 |
| R1219 | CHIP RES. 1/10W J 82k Ω or RES CHIP 1608 1/10W J 82k Ω | RRXAJR5Z0823 RRXA823YF002 |
| R1220 | CHIP RES. 1/10W J 27k Ω or RES CHIP 1608 1/10W J 27k Ω | RRXAJR5Z0273 RRXA273YF002 |
| R1221 | CHIP RES. 1/10W F 270 Ω or RES CHIP 1608 1/10W F 270 Ω | RRXAFR5H2700 RRXAFR5Z2700 RTW2700YF002 |
| R1222 | CHIP RES. 1/10W F 390 Ω or RES CHIP 1608 1/10W F 390 Ω | RRXAFR5H3900 RRXAFR5Z3900 RTW3900YF002 |
| R1223 | CHIP RES. 1/10W J 27k Ω or RES CHIP 1608 1/10W J 27k Ω | RRXAJR5Z0273 RRXA273YF002 |
| R1224 | CHIP RES. 1/10W J 100k Ω or RES CHIP 1608 1/10W J 100k Ω | RRXAJR5Z0104 RRXA104YF002 |
| R1225 | CHIP RES. 1/10W J 82k Ω or RES CHIP 1608 1/10W J 82k Ω | RRXAJR5Z0823 RRXA823YF002 |
| R1226 | CHIP RES. 1/10W J 27k Ω or RES CHIP 1608 1/10W J 27k Ω | RRXAJR5Z0273 RRXA273YF002 |
| R1227 | CHIP RES. 1/10W J 18k Ω or RES CHIP 1608 1/10W J 18k Ω | RRXAJR5Z0183 RRXA183YF002 |
| R1228 | CHIP RES. 1/10W J 18k Ω or RES CHIP 1608 1/10W J 18k Ω | RRXAJR5Z0183 RRXA183YF002 |
| R1229 | CHIP RES. 1/10W J 18k Ω or RES CHIP 1608 1/10W J 18k Ω | RRXAJR5Z0183 RRXA183YF002 |
| R1230 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| MISCELLANEOUS | | |
| BC1001 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| BC1002 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| CL900B | WIRE ASSEMBLY 11PIN 11PIN/80MM/AWG26/ GRA | WX1A0CA0-009 |
| <p>When you replace one of the below Trans Inverters on this CBA, please replace with the one that has same parts number. Do not mix different parts number's Trans Inverter.</p> | | |

| Ref. No. | Description | Part No. |
|--------------------|-----------------------------|--------------|
| T1201 [△] | TRANS INVERTER HVT-266 | LTZ3PZ0XB015 |
| T1202 [△] | TRANS INVERTER HVT-266 | LTZ3PZ0XB015 |
| T1203 [△] | TRANS INVERTER HVT-266 | LTZ3PZ0XB015 |
| or | | |
| T1201 [△] | TRANS INVERTER TK.7614A.101 | LTZ3PZDAR011 |
| T1202 [△] | TRANS INVERTER TK.7614A.101 | LTZ3PZDAR011 |
| T1203 [△] | TRANS INVERTER TK.7614A.101 | LTZ3PZDAR011 |

FUNCTION CBA

| Ref. No. | Description | Part No. |
|-------------------|---|--|
| | FUNCTION CBA Consists of the following: | ----- |
| CAPACITORS | | |
| C113 | ELECTROLYTIC CAP. 10 μ F/16V M H7 or CAP ELE 10 μ F/16V/M/85 H7 | CE1CMAVSL100 CEC100KSN003 |
| C115 | CERAMIC CAP.(AX) B K 330pF/50V or CAP CERAMIC (AX) 330pF/50V/B/K | CCA1JKT0B331 CA1J331TU061 |
| DIODES | | |
| D104 | LED GREEN 333GT/E(FNA) or LED(GREEN) LTL-4234 | NPWZ33GTEFNA NPWZ0LTL4234 |
| D105 | LED L-53HT or LED 333HT/E-L or LED 333HT/E-K | NP4200L53HT NPHL00333HTE NPHK00333HTE |
| RESISTORS | | |
| R108 | RES CARBON FILM T 1/4W J 220 Ω or RES CARBON FILM 1/4W J 220 Ω or RES CARBON FILM 1/4W J 220 Ω | RCX4221T1001 RCX4221FS002 RCJ221PAK001 |
| R109 | RES CARBON FILM T 1/4W G 4.7k Ω or RES CARBON FILM 1/4W G 4.7k Ω | RCX4472T1002 RCG472PAK001 |
| R111 | CHIP RES. 1/10W F 1.1k Ω or CHIP RES. 1/10W F 1.1k Ω or RES CHIP 1608 1/10W F 1.10k Ω | RRXAFR5H1101 RRXAFR5Z1101 RTW1101YF002 |
| R113 | CHIP RES. 1/10W F 1.2k Ω or CHIP RES.(1608) 1/10W F 1.2k Ω or RES CHIP 1608 1/10W F 1.20k Ω | RRXAFR5H1201 RRXAFR5Z1201 RTW1201YF002 |
| R114 | CHIP RES. 1/10W F 1.5k Ω or CHIP RES. 1/10W F 1.5k Ω or RES CHIP 1608 1/10W F 1.50k Ω | RRXAFR5H1501 RRXAFR5Z1501 RTW1501YF002 |
| R115 | CHIP RES. 1/10W F 3.3k Ω or CHIP RES.(1608) 1/10W F 3.3k Ω or RES CHIP 1608 1/10W F 3.30k Ω | RRXAFR5H3301 RRXAFR5Z3301 RTW3301YF002 |
| R116 | CHIP RES. 1/10W F 8.2k Ω or CHIP RES.(1608) 1/10W F 8.2k Ω or RES CHIP 1608 1/10W F 8.20k Ω | RRXAFR5H8201 RRXAFR5Z8201 RTW8201YF002 |
| R117 | CHIP RES. 1/10W F 330 Ω or CHIP RES. 1/10W F 330 Ω or RES CHIP 1608 1/10W F 330 Ω | RRXAFR5H3300 RRXAFR5Z3300 RTW3300YF002 |
| R123 | RES CARBON FILM T 1/4W J 220 Ω or RES CARBON FILM 1/4W J 220 Ω or RES CARBON FILM 1/4W J 220 Ω | RCX4221T1001 RCX4221FS002 RCJ221PAK001 |
| R124 | RES CARBON FILM T 1/4W J 470 Ω or RES CARBON FILM 1/4W J 470 Ω or RES CARBON FILM 1/4W J 470 Ω | RCX4471T1001 RCX4471FS002 RCJ471PAK001 |
| R126 | CHIP RES. 1/10W J 1k Ω or RES CHIP 1608 1/10W J 1.0k Ω | RRXAJR5Z0102 RRXA102YF002 |
| R127 | CHIP RES. 1/10W J 3.3k Ω or RES CHIP 1608 1/10W J 3.3k Ω | RRXAJR5Z0332 RRXA332YF002 |
| R128 | CHIP RES. 1/10W J 100 Ω or RES CHIP 1608 1/10W J 100 Ω | RRXAJR5Z0101 RRXA101YF002 |
| SWITCHES | | |
| SW101 | TACT SWITCH SKHHLMA010 or TACT SWITCH KSMC632A | SST0101AL049 SST0101HH025 |
| SW103 | TACT SWITCH SKHHLMA010 or TACT SWITCH KSMC632A | SST0101AL049 SST0101HH025 |
| SW104 | TACT SWITCH SKHHLMA010 or TACT SWITCH KSMC632A | SST0101AL049 SST0101HH025 |

| Ref. No. | Description | Part No. |
|----------------------|--|--|
| SW105 | TACT SWITCH SKHHLMA010 or TACT SWITCH KSMC632A | SST0101AL049 SST0101HH025 |
| SW106 | TACT SWITCH SKHHLMA010 or TACT SWITCH KSMC632A | SST0101AL049 SST0101HH025 |
| SW107 | TACT SWITCH SKHHLMA010 or TACT SWITCH KSMC632A | SST0101AL049 SST0101HH025 |
| MISCELLANEOUS | | |
| CL104B | WIRE ASSEMBLY 6PIN 6PIN/170MM/AWG26/ GRA | WX1A0CA0-008 |
| RS102 | SENSOR REMOTE RECEIVER KSM-712TH2E or SENSOR REMOTE RECEIVER KSM-712TH5B- FU or SENSOR REMOTE RECEIVER KSM-712TH2M | USESJRSKK044 USEJRS0KK006 USEJRS0KK001 |

POWER SW CBA

| Ref. No. | Description | Part No. |
|----------------------|--|--|
| | POWER SW CBA Consists of the following: | ----- |
| CAPACITORS | | |
| C250 | CHIP CERAMIC CAP.(1608) B K 0.047 μ F/50V or CAP CHIP 1608 K/X7R/0.047 μ F/50V | CHD1JK30B473 CHD473EYA032 |
| C251 | CHIP CERAMIC CAP.(1608) B K 0.047 μ F/50V or CAP CHIP 1608 K/X7R/0.047 μ F/50V | CHD1JK30B473 CHD473EYA032 |
| C254 | CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/COG/100pF/50V | CHD1JJ3CH101 CHD101EYA030 |
| C255 | CHIP CERAMIC CAP.(1608) CH J 100pF/50V or CAP CHIP 1608 J/COG/100pF/50V | CHD1JJ3CH101 CHD101EYA030 |
| CONNECTOR | | |
| CN701 | WIRE ASSEMBLY 2PIN 2PIN 85MM AWG18 R B | WX1A0CA0-203 |
| COILS | | |
| L250 | INDUCTOR 4.7 μ H-J-26T | LLAXJATTU4R7 |
| L251 | INDUCTOR 4.7 μ H-J-26T | LLAXJATTU4R7 |
| RESISTORS | | |
| R250 | RES CARBON FILM 1/4W J 1k Ω or RES CARBON FILM T 1/4W J 1.0k Ω or RES CARBON FILM 1/4W J 1.0k Ω | RCX4102FS002 RCX4102T1001 RCJ102PAK001 |
| R251 | CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω | RRXAZR5Z0000 RRXA000YF002 |
| R252 | CHIP RES.(1608) 1/10W 0 Ω or RES CHIP 1608 1/10W J 0 Ω | RRXAZR5Z0000 RRXA000YF002 |
| SWITCH | | |
| SW701 | SWITCH POWER SDDJE35400 | SPEVBA0AL001 |
| MISCELLANEOUS | | |
| AC1 [△] | AC CORD CEE 1800MM BLACK or [△] AC CORD W/O A GND WIRE CEE/1800MM/ NO/BLACK | WAE0182LW003 WAE182ZH001 |
| CL251B | WIRE ASSEMBLY 4PIN 4PIN/50MM/AWG26/ GRAY | WX1A0CA0-007 |
| F701 [△] | FUSE 4A/250V(PB FREE) 0215004.MXP | PBGZ20BAG021 |
| FH701 | FUSE HOLDER MSF-015 LF (B110) | XH01Z00LY002 |
| FH702 | FUSE HOLDER MSF-015 LF (B110) | XH01Z00LY002 |
| JK258 | JACK SW HPEP SML PCB L PJ-350 or JACK SW HPEP SML PCB L MSJ-2000 AG(B110) | JYSL010YUQ03 JYSL010LY005 |
| JS702 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| JS703 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| JS704 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| JS705 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| JS706 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| JS707 | WIRE COPPER 6111-06003-0120 or WIRE COPPER JP0.6MM | XZ40C0SHG002 XZ40C0AKM001 |
| JS708 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |

| Ref. No. | Description | Part No. |
|----------|--------------------------------|--------------|
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| JS709 | WIRE COPPER 6111-06003-0120 or | XZ40C0SHG002 |
| | WIRE COPPER JP0.6MM | XZ40C0AKM001 |
| TM701 | EYELET TYPE D-1 | 0VM406868 |
| TM702 | EYELET TYPE D-1 | 0VM406868 |

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

