



SERVICE MANUAL

This Service Manual is for the
LT6-M22BB(A8C70EP)
/LT6-M22WB(A8C71EP) model.
For the LT6-M22BB(A8C70EP)
/LT6-M22WB(A8C71EP) model,
the letter (A8C70EP)/(A8C71EP) is
printed on the Serial No. Label.
Refer to the Serial No. Label on the
right.

Serial No. Label



"A8C70EP"

Serial No. Label



"A8C71EP"

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



22" COLOR LCD TELEVISION

LT6-M22BB/LT6-M22WB

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

SPECIFICATIONS

< TUNER >

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

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

< LCD PANEL >

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

<DVB-T>

| Description | Condition | Unit | Nominal | Limit |
|---|----------------------------|------------|--------------------|--------------------|
| 1. RECEIVED FREQ.RANGE (-60dBm, 45ch.) *1 | + - | kHz kHz | 1000 900 | 500 -150 |
| 2. INPUT DYNAMIC RANGE (mix./max) *1 | VHF HIGH 7ch. UHF 45ch. | dBm dBm | -82.5/2 -81.1/2 | -75/-10 -75/-10 |
| 3. C/N PERFORMANCE *1 | VHF HIGH 7ch. UHF 45ch. | dB dB | 15 15 | 18 18 |
| 4. MULTIPATH | UHF 45ch. | | | |
| a. Performance with short delay echoes | ①:*2 ②:*3 | dB dB | 18.7 14.0 | 23 20 |
| b. Performance with long delay echoes | ①:*2 ②:*3 | dB dB | 19.1 13.0 | 23 18 |
| c. C/N Performance on 0dB echo channel (14μs) | ①:*1 | dB | 20.7 | 24 |

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

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

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

< VIDEO >

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

< AUDIO >

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

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

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

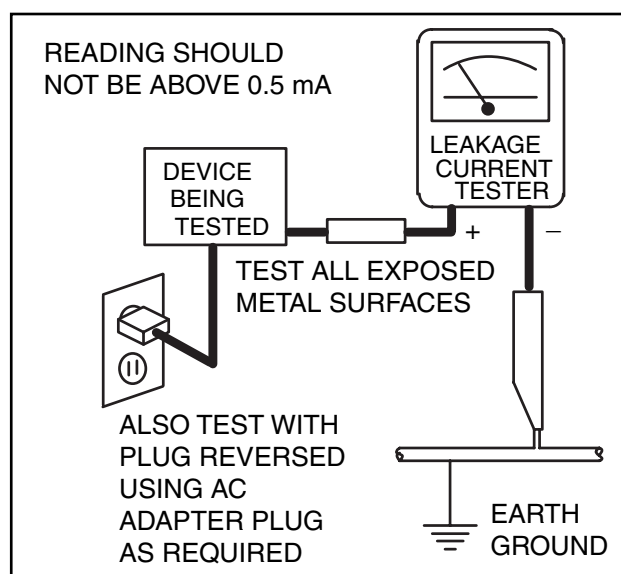
IMPORTANT SAFETY PRECAUTIONS

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

Safety Precautions for LCD TV Circuit

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

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




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

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

4. Hot Chassis Warning -

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

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

Precautions during Servicing

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

Safety Check after Servicing

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

1. Clearance Distance

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

Table 1 : Ratings for selected area

| AC Line Voltage | Clearance Distance (d), (d') |
|-----------------|---|
| 220 to 240 V | $\geq 3\text{mm}(d)$ $\geq 6\text{mm}(d')$ |

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

2. Leakage Current Test

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

Measuring Method : (Power ON)

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

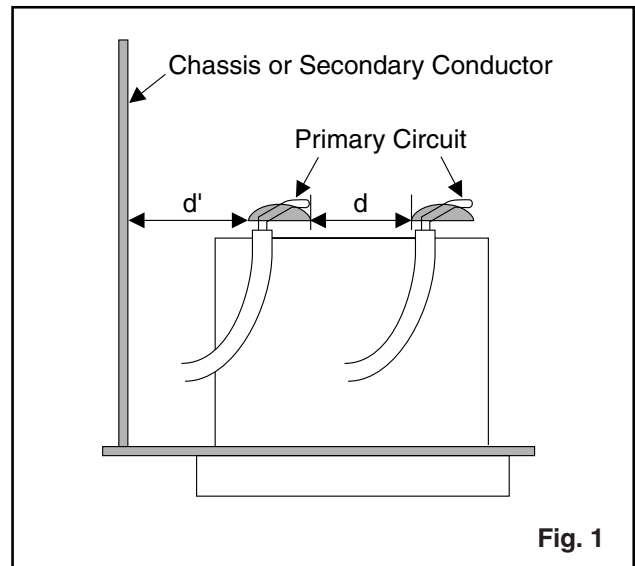


Fig. 1

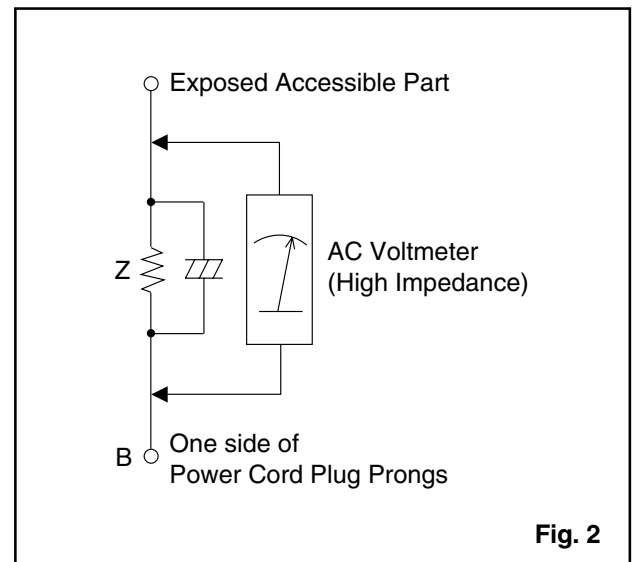


Fig. 2

Table 2: Leakage current ratings for selected areas

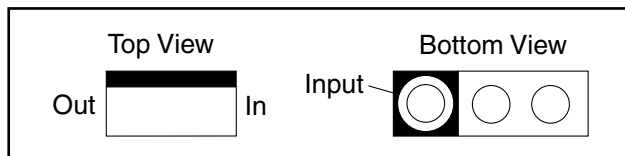
| AC Line Voltage | Load Z | Leakage Current (i) | One side of power cord plug prongs (B) to: |
|-----------------|--|---|--|
| 220 to 240 V | 2k Ω RES. Connected in parallel | $i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$ | RF or Antenna terminals |
| | 50k Ω RES. Connected in parallel | $i \leq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

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

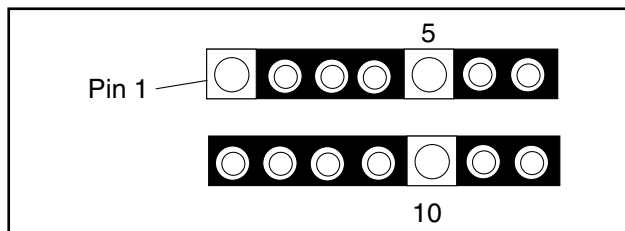
STANDARD NOTES FOR SERVICING

Circuit Board Indications

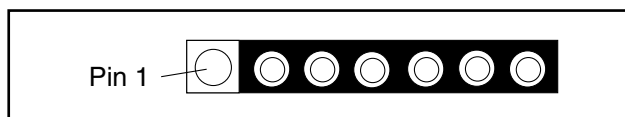
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



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

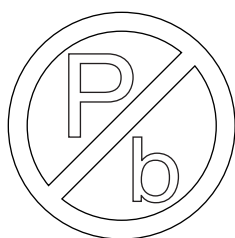


3. The 1st pin of every male connector is indicated as shown.



Pb (Lead) Free Solder

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



Pb free mark

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

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

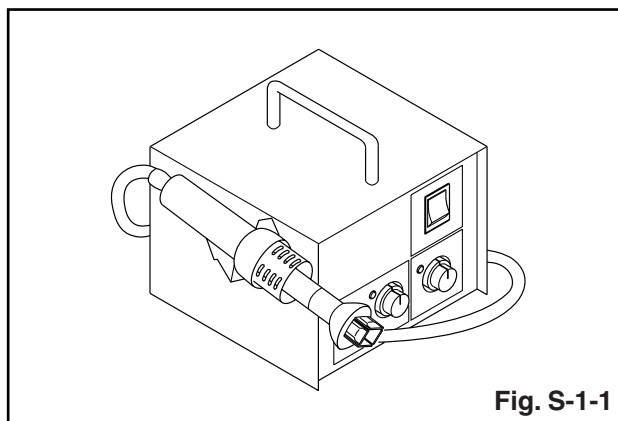


Fig. S-1-1

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

CAUTION:

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

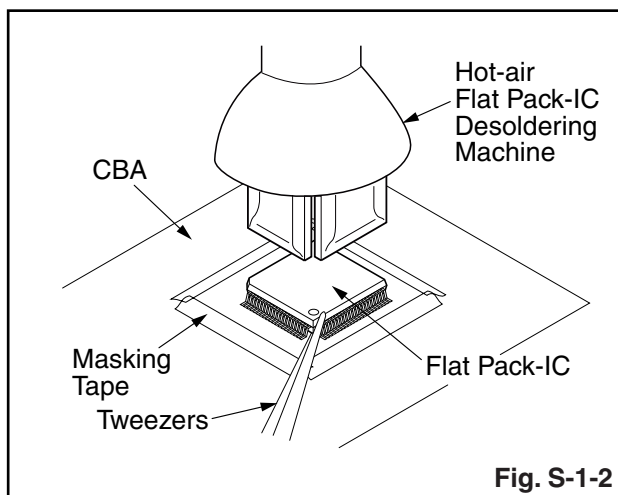
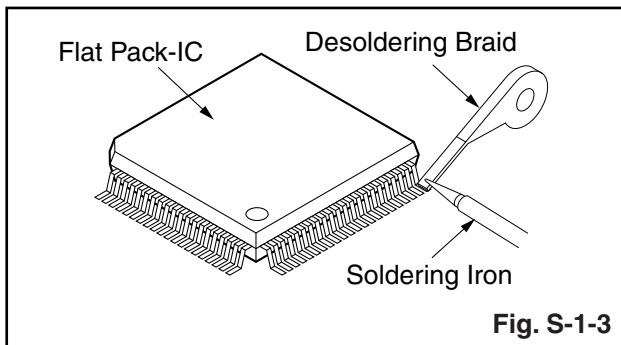


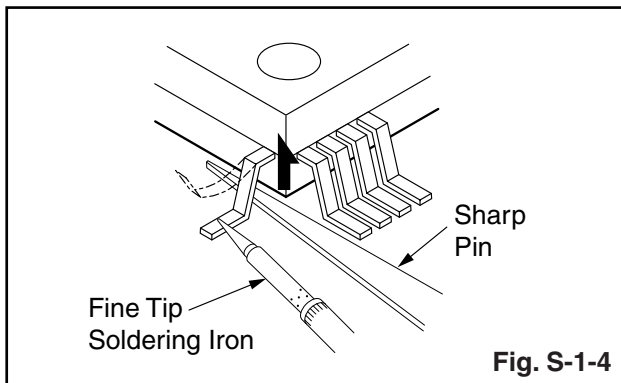
Fig. S-1-2

With Soldering Iron:

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



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

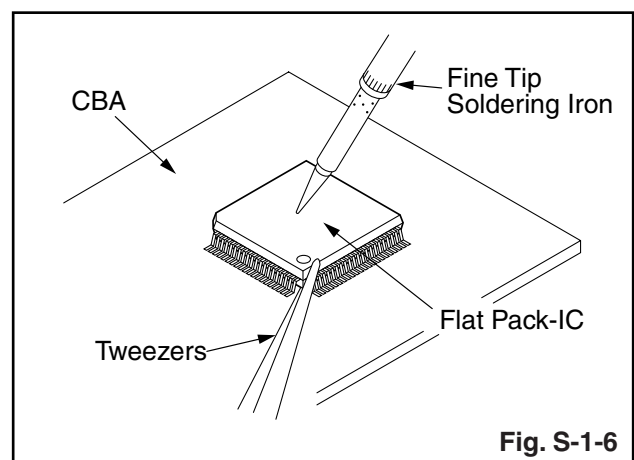
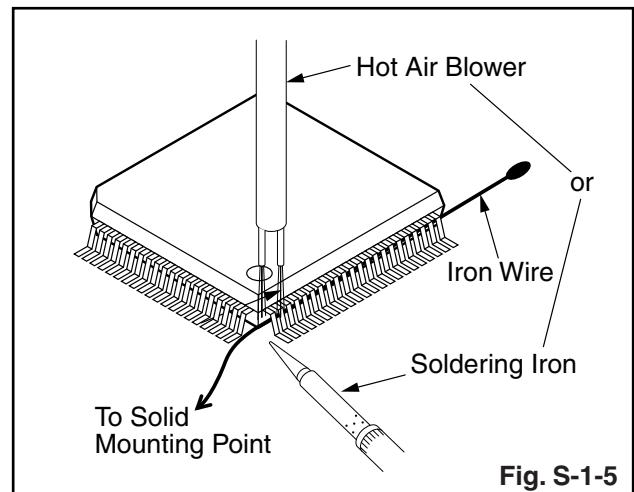


3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

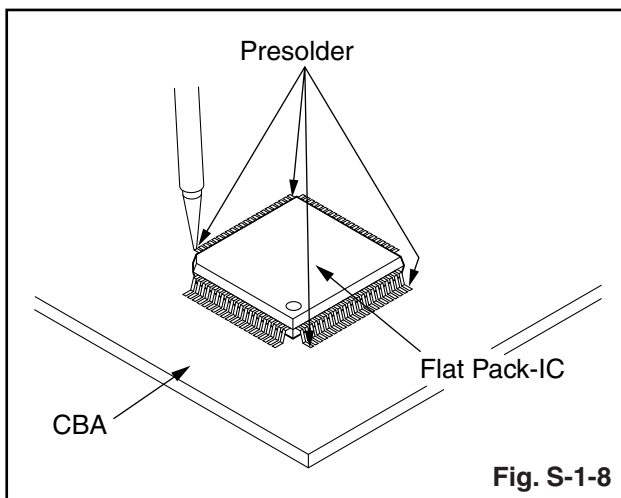
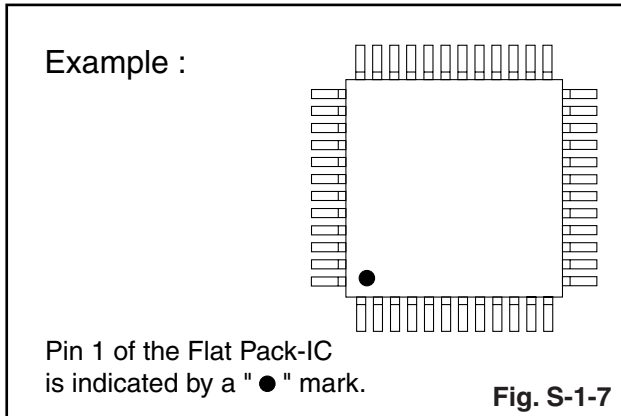
1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins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

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



2. Installation

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



Instructions for Handling Semi-conductors

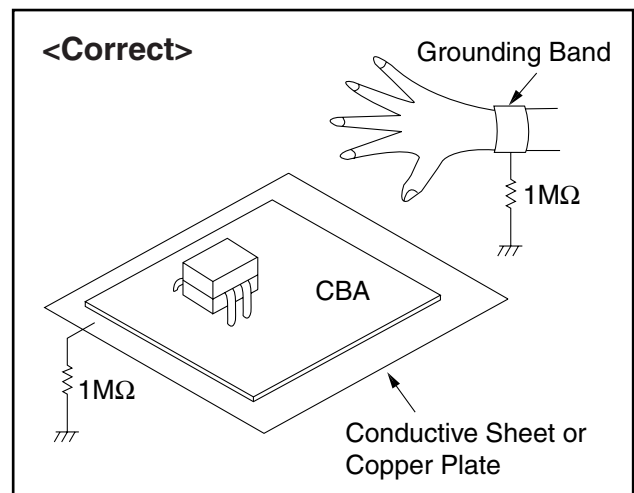
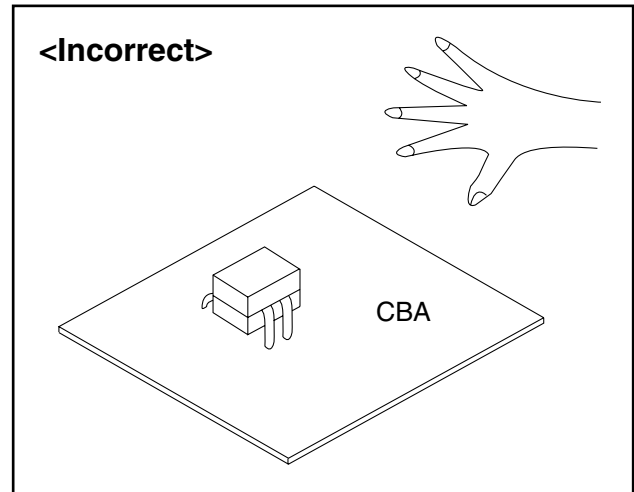
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

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

2. Ground for Workbench

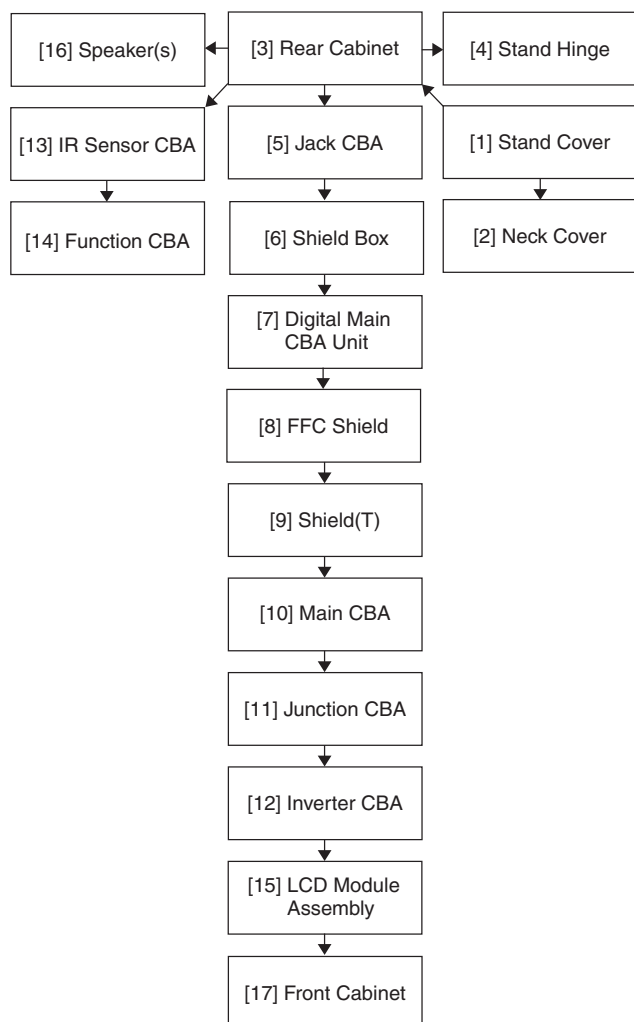
Be sure to place a conductive sheet or copper plate with proper grounding ($1\text{ M}\Omega$) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting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



CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

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



2. Disassembly Method

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

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

↓ (1) ↓ (2) ↓ (3) ↓ (4) ↓ (5)

Note:

- 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.
- Parts to be removed or installed.
- Fig. No. showing procedure of part location
- Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P = Spring, L = Locking Tab, S = Screw,
CN = Connector
* = Unhook, Unlock, Release, Unplug, or Desolder
e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)
- Refer to the following "Reference Notes in the Table."

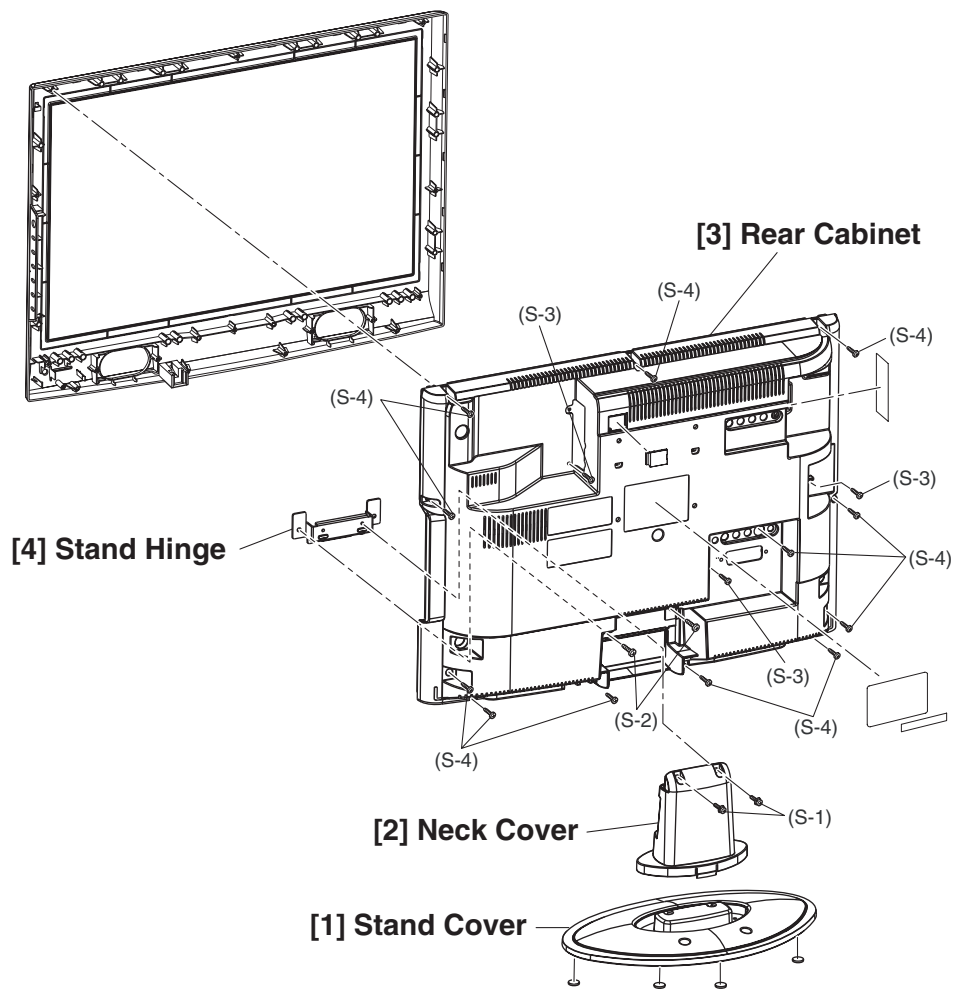


Fig. D1

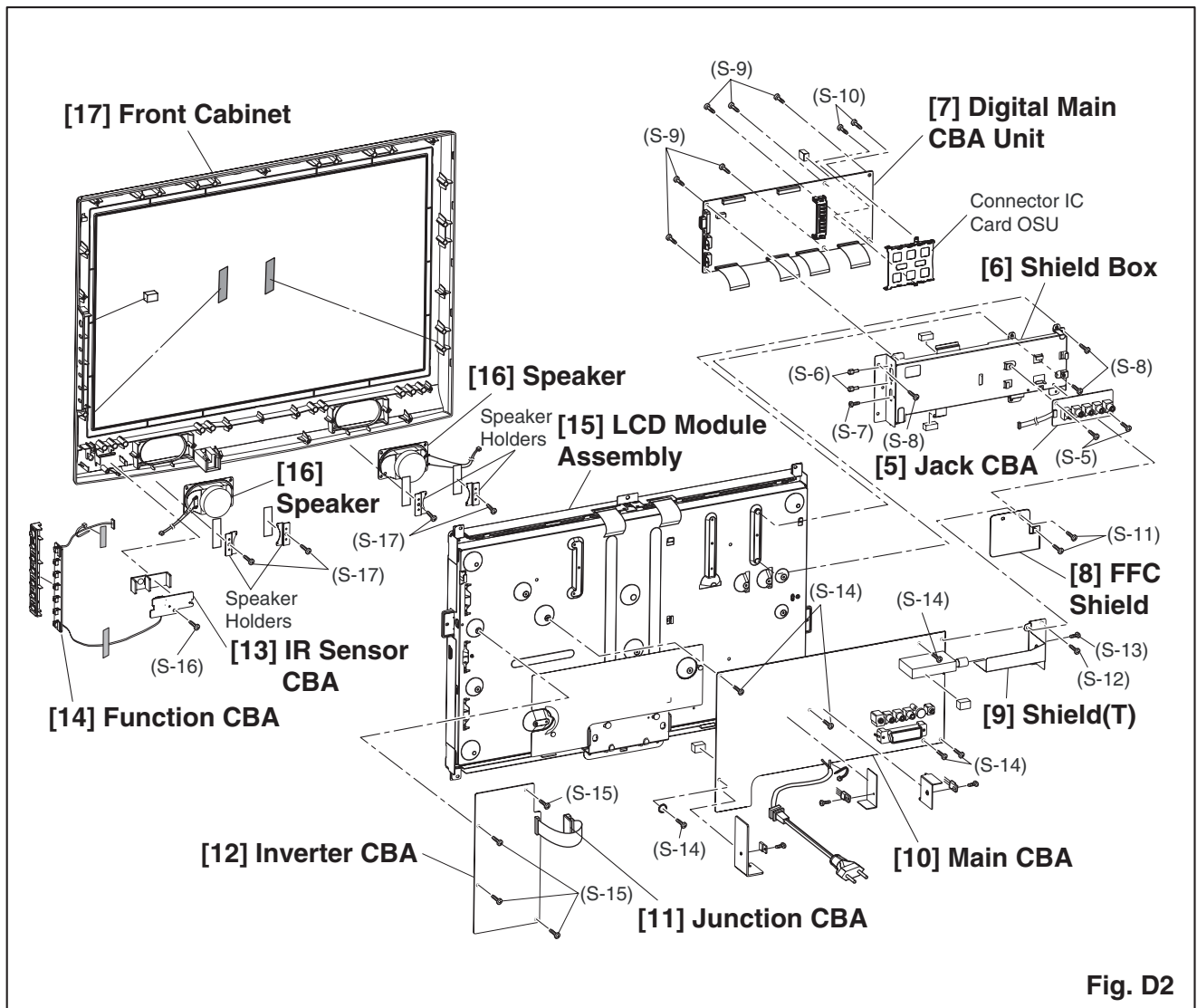
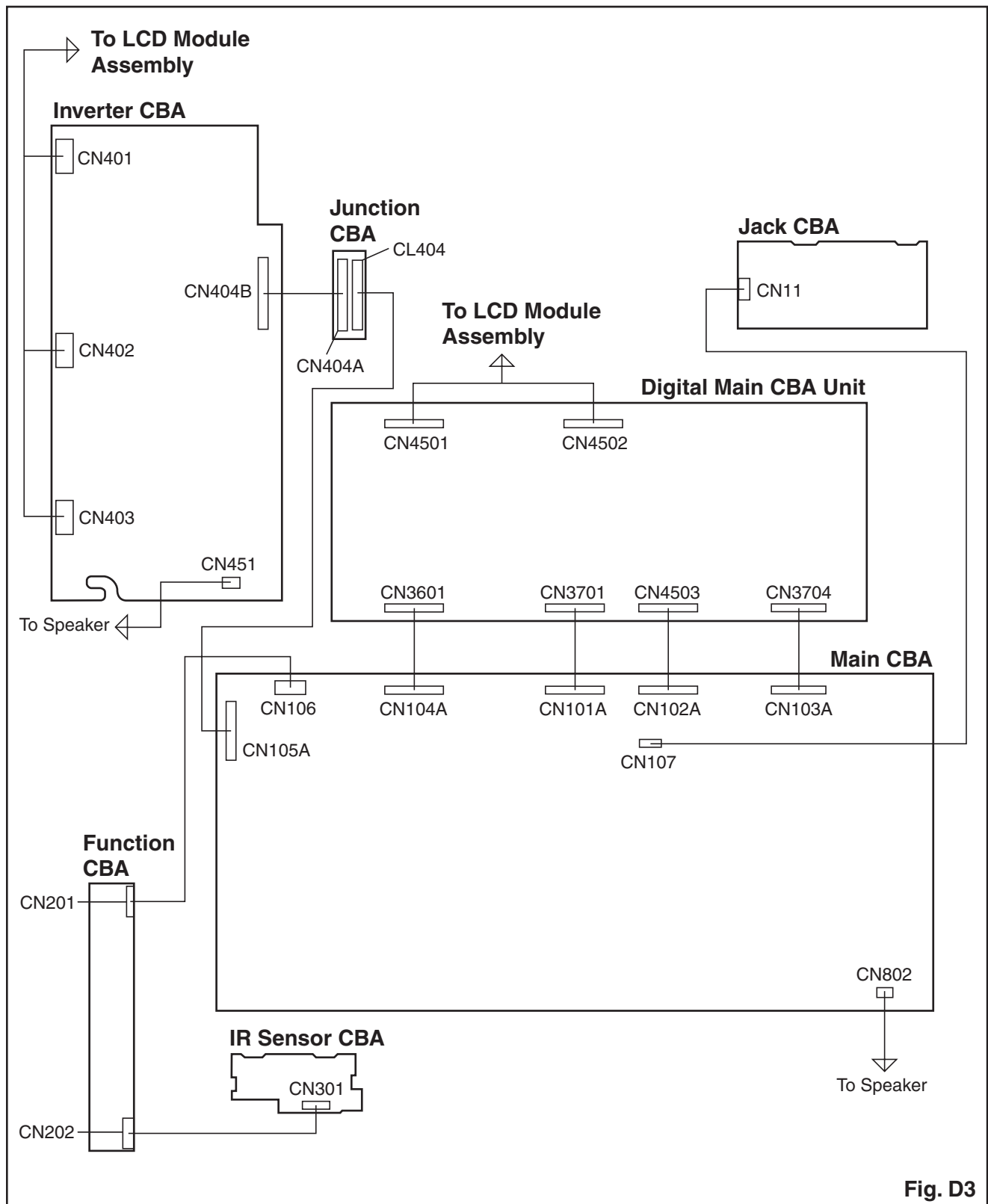


Fig. D2

TV Cable Wiring Diagram



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.

How to set up the service mode:

Service mode:

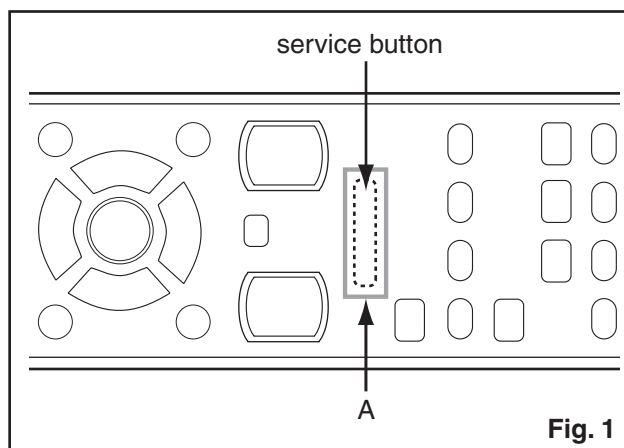
1. Use the service remote control unit.
2. Turn the power on.
3. Press the service button on the service remote control unit as shown in Fig.1.

Test Equipment Required

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

How to make the Service remote control unit:

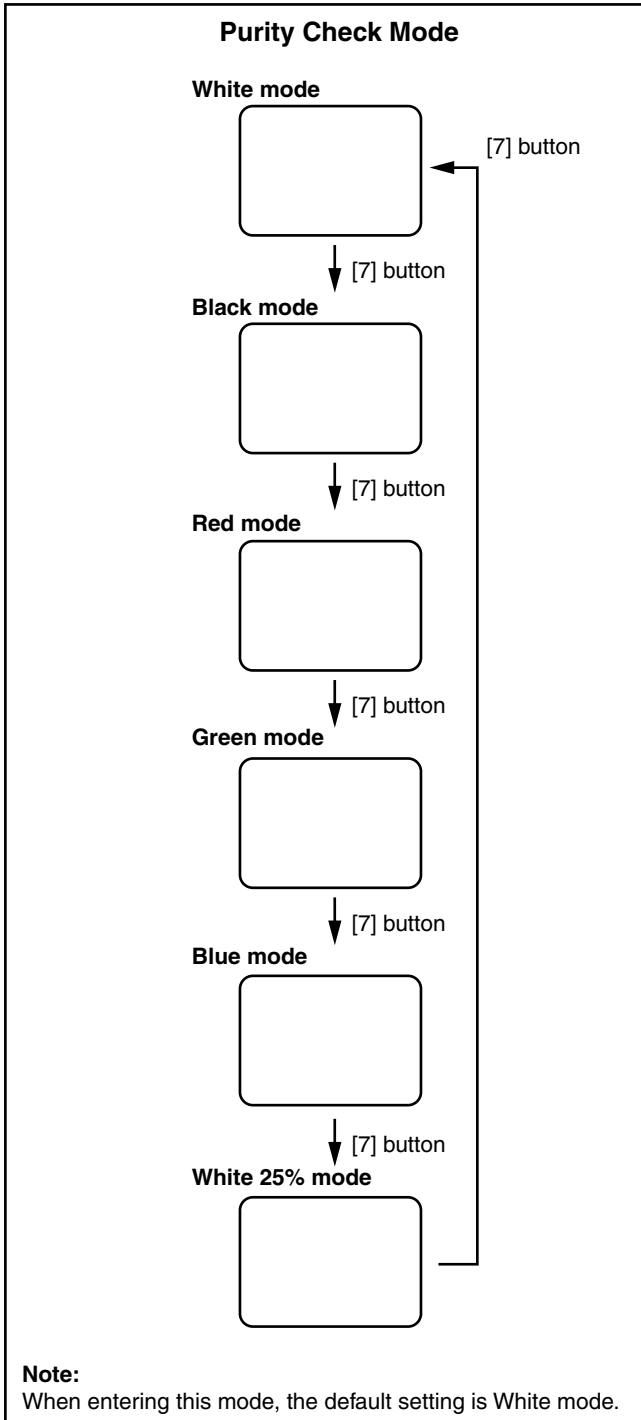
Cut “A” portion of the attached remote control unit as shown in Fig. 1.



1. Purity Check Mode

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

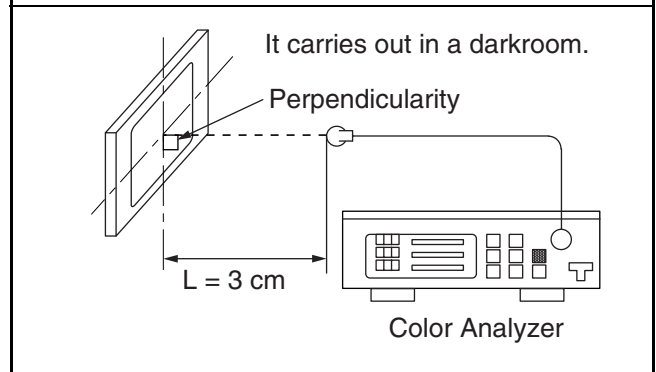
1. Enter the Service mode.
2. Each time pressing [7] button on the service remote control unit, the display changes as follows.



2. VCOM Adjustment.

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

Figure



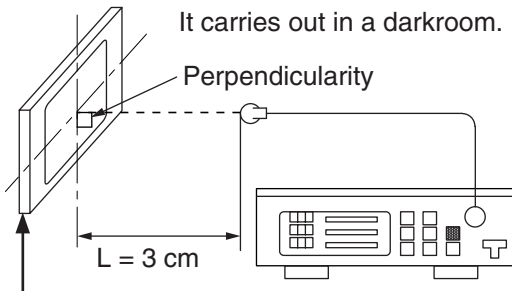
1. Operate the unit for more than 20 minutes.
2. Set the color analyzer and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.
Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
3. Enter the Service mode.
4. **[VCOM1]**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

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

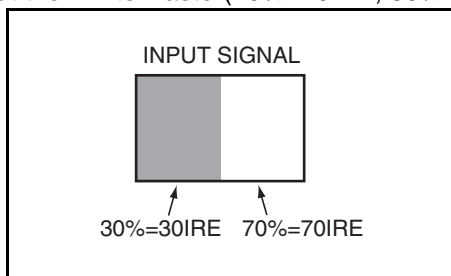
3. White Balance Adjustment

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

Symptom of Misadjustment: White becomes bluish or reddish.

| Test Point | Adj. Point | Mode | Input |
|---|-------------------|--|--|
| Screen | [P ^ / ∨] buttons | [VIDEO] C/D | White Raster (APL 70%) or (APL 25%) |
| M. EQ. | | Spec. | |
| Pattern Generator, Color analyzer | | $x = 0.272 \pm 0.005$ $y = 0.278 \pm 0.005$ | |
| Figure | | | |
| <div><p>It carries out in a darkroom.</p><p>Perpendicularity</p><p>L = 3 cm</p><p>INPUT: WHITE 70%, 30% Color Analyzer</p></div> | | | |

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



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

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

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

5. [CUTOFF]

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

[DRIVE]

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

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

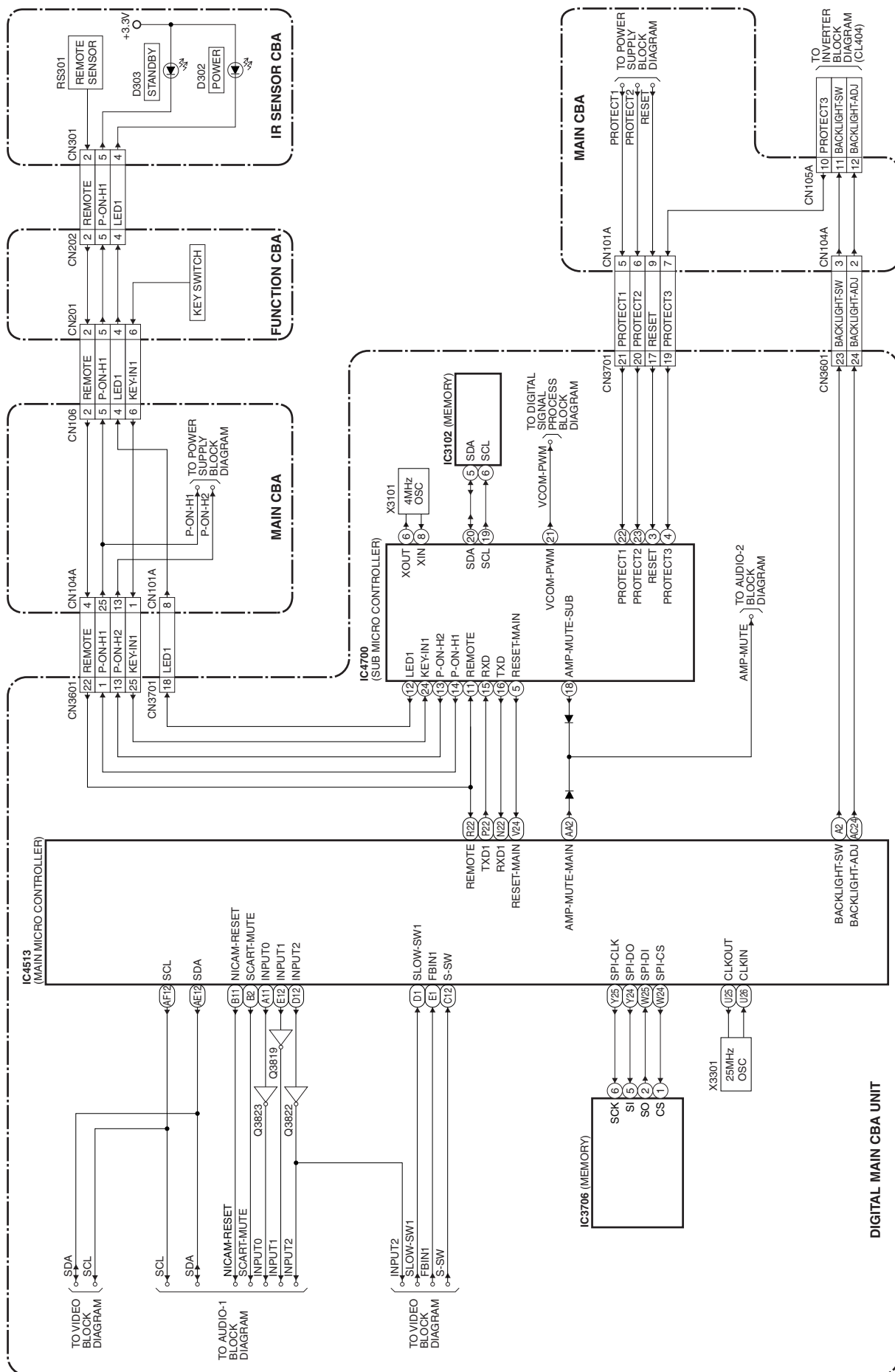
HOW TO INITIALIZE THE LCD TELEVISION

How to initialize the LCD television:

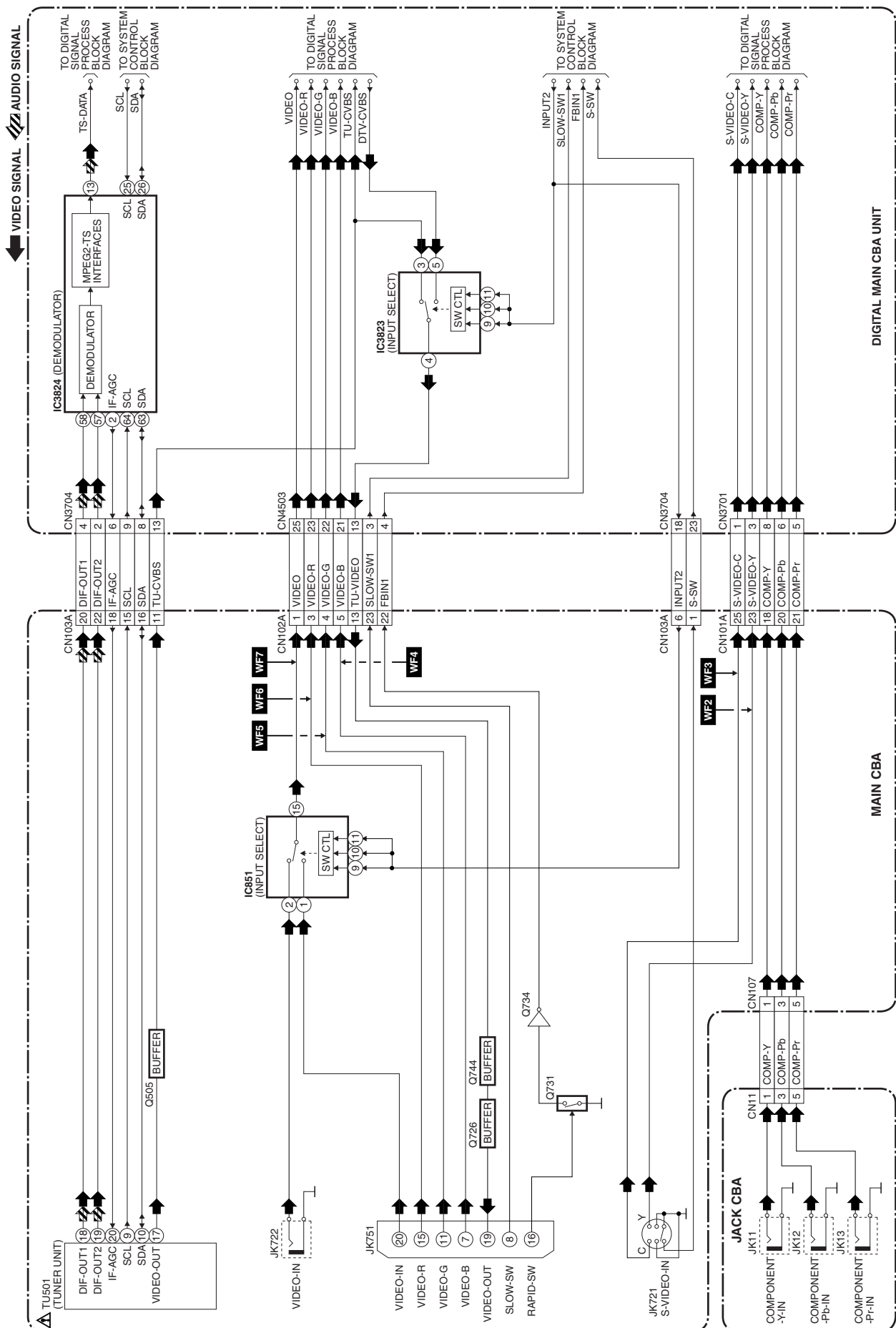
1. Turn the power on.
2. To enter the service mode, press the service button on the service remote control unit. (Refer to page 5-1.)
 - To cancel the service mode, Press [⏻] button on the remote control unit.
3. Press [i] button on the service remote control unit to initialize the LCD television.
4.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

BLOCK DIAGRAMS

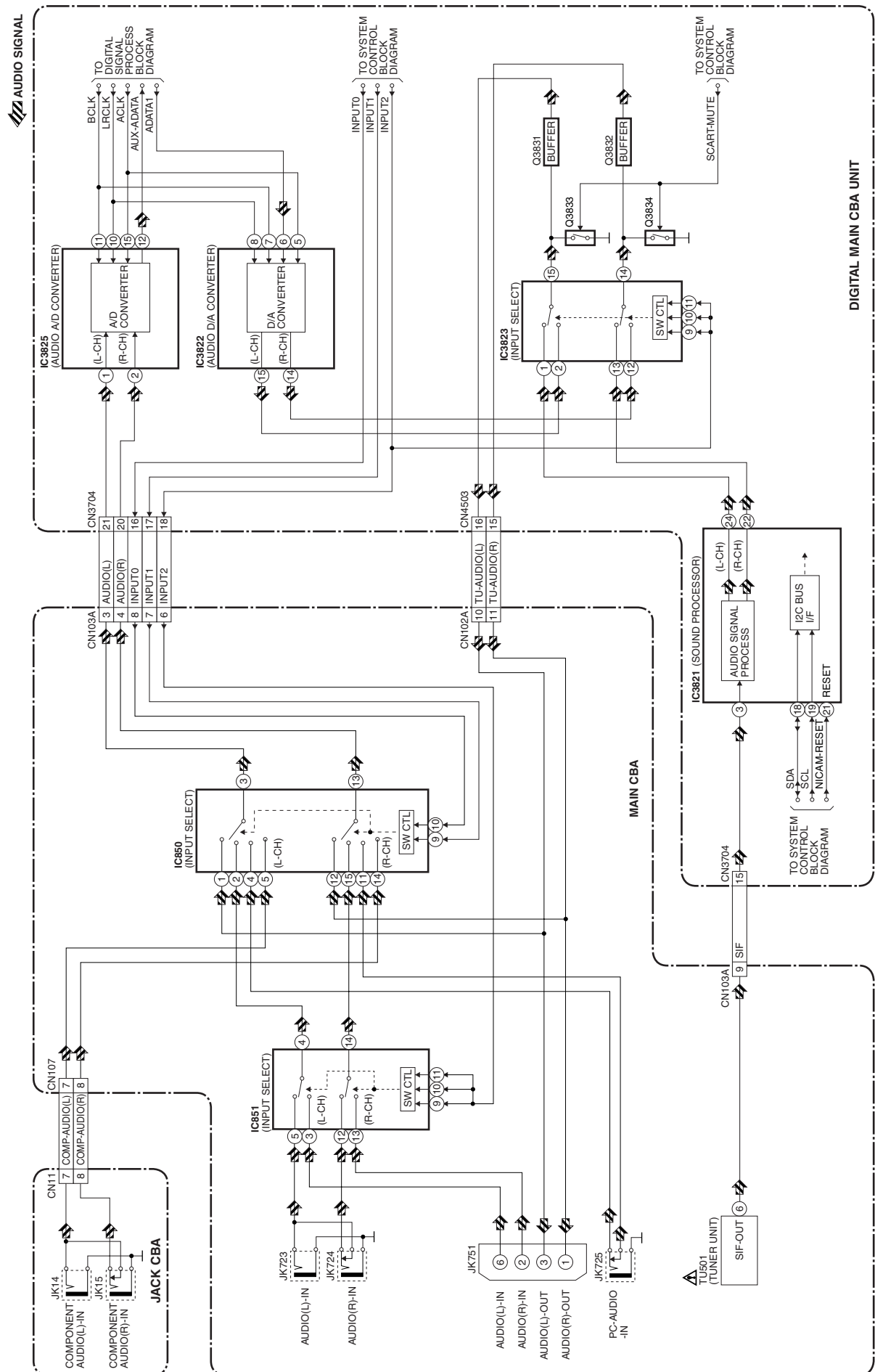
System Control Block Diagram



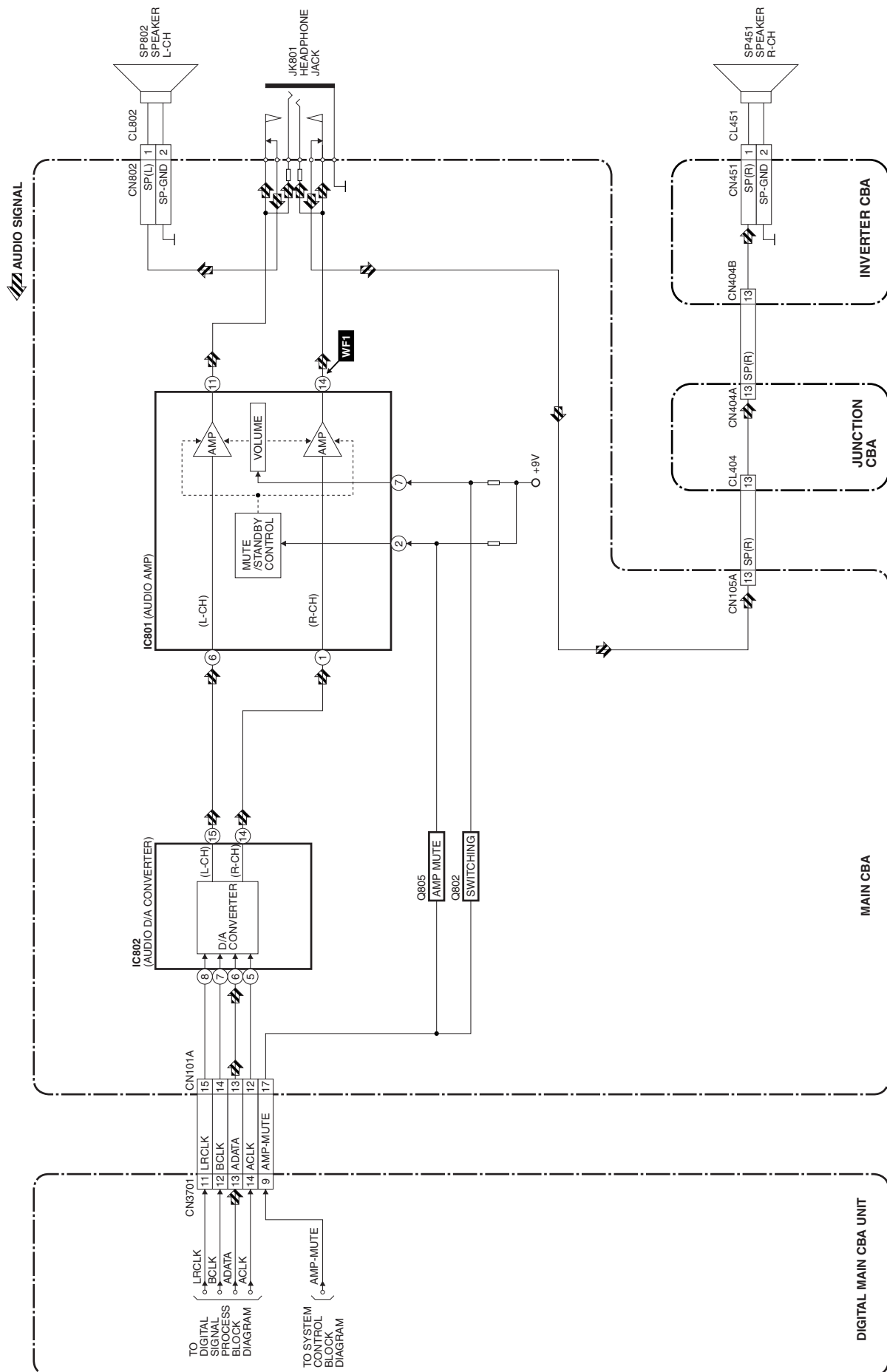
Video Block Diagram



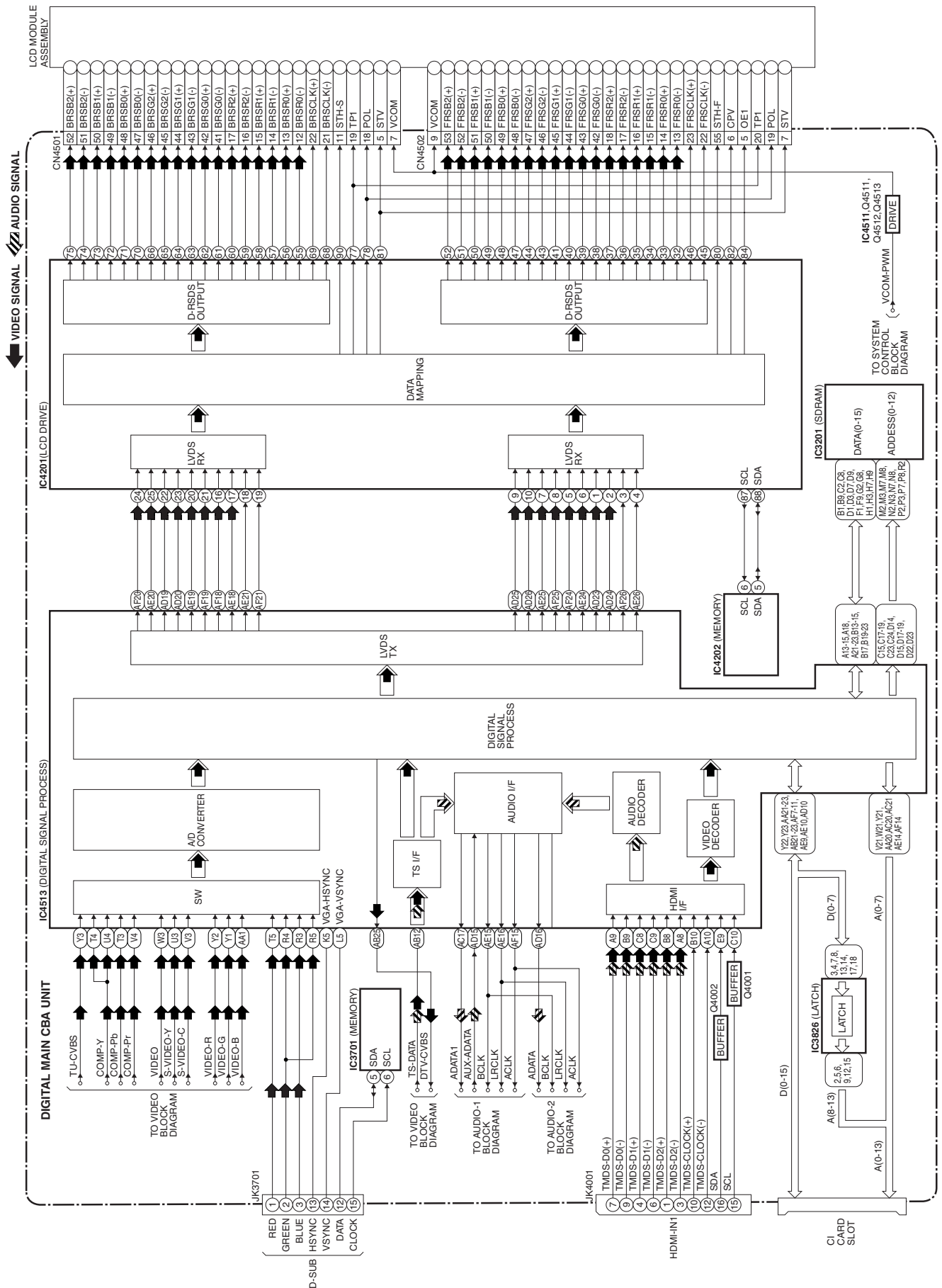
Audio-1 Block Diagram



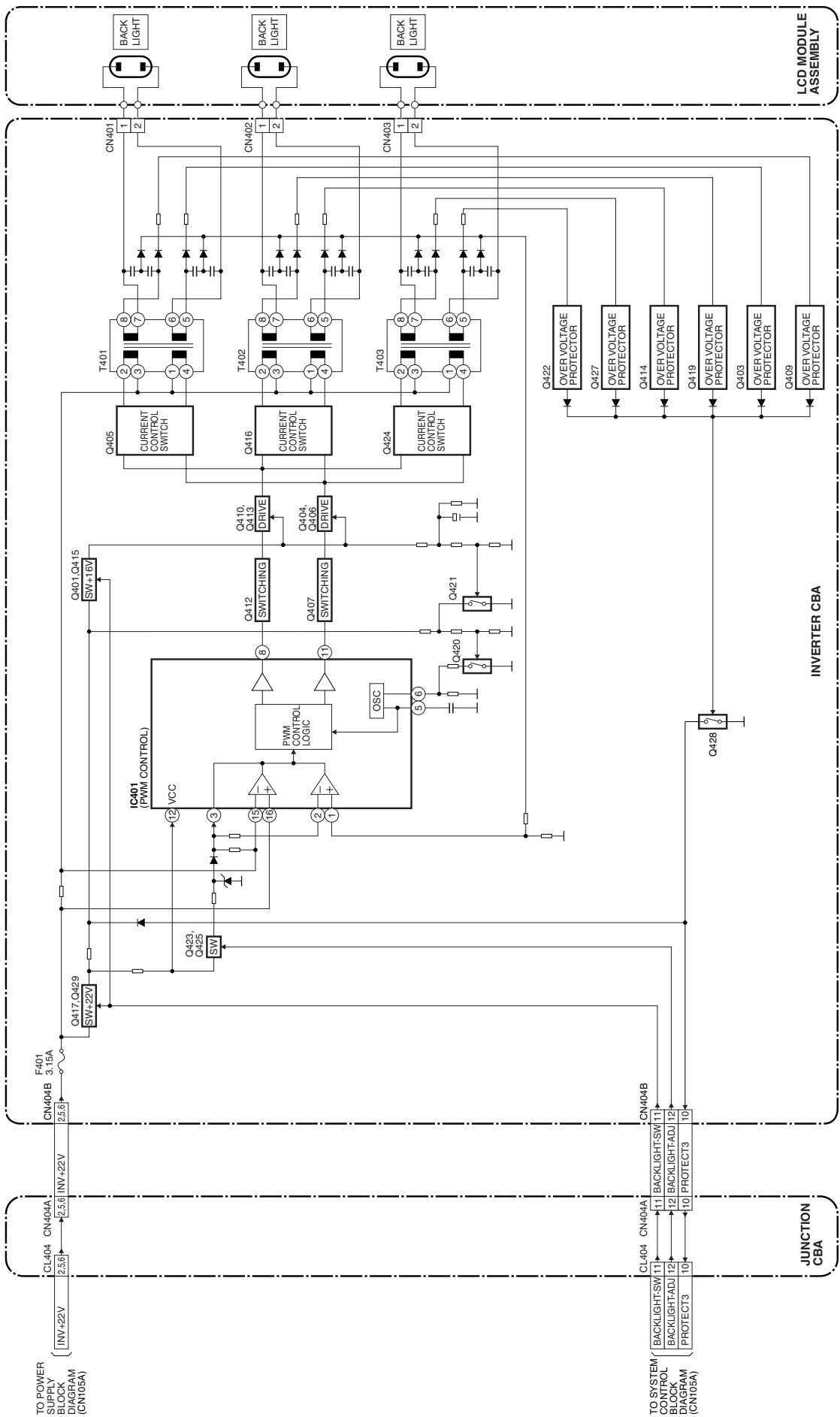
Audio-2 Block Diagram



Digital Signal Process Block Diagram



Inverter Block Diagram



Power Supply Block Diagram

CAUTION !

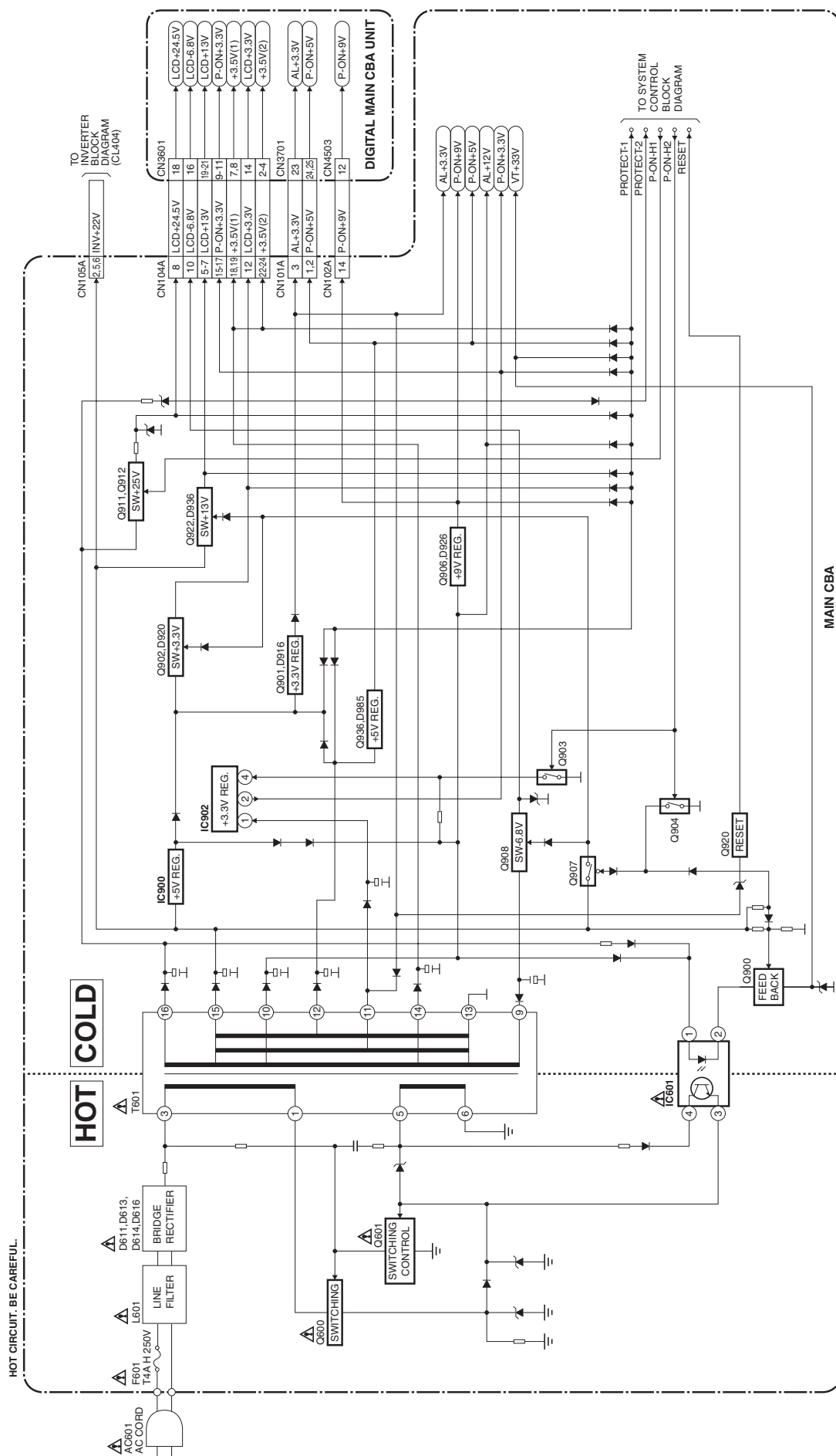
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power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

CAUTION !

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

NOTE:

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



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

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

Notes:

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

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

1. CAUTION:

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

2. CAUTION:

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

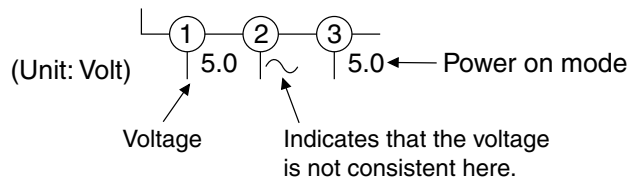
If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

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

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

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

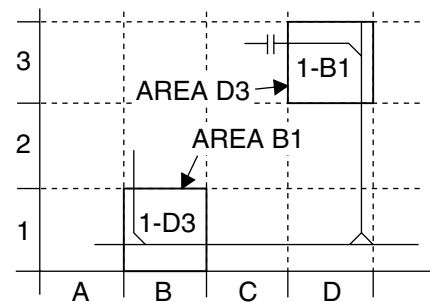


5. How to read converged lines

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

Examples:

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



6. Test Point Information

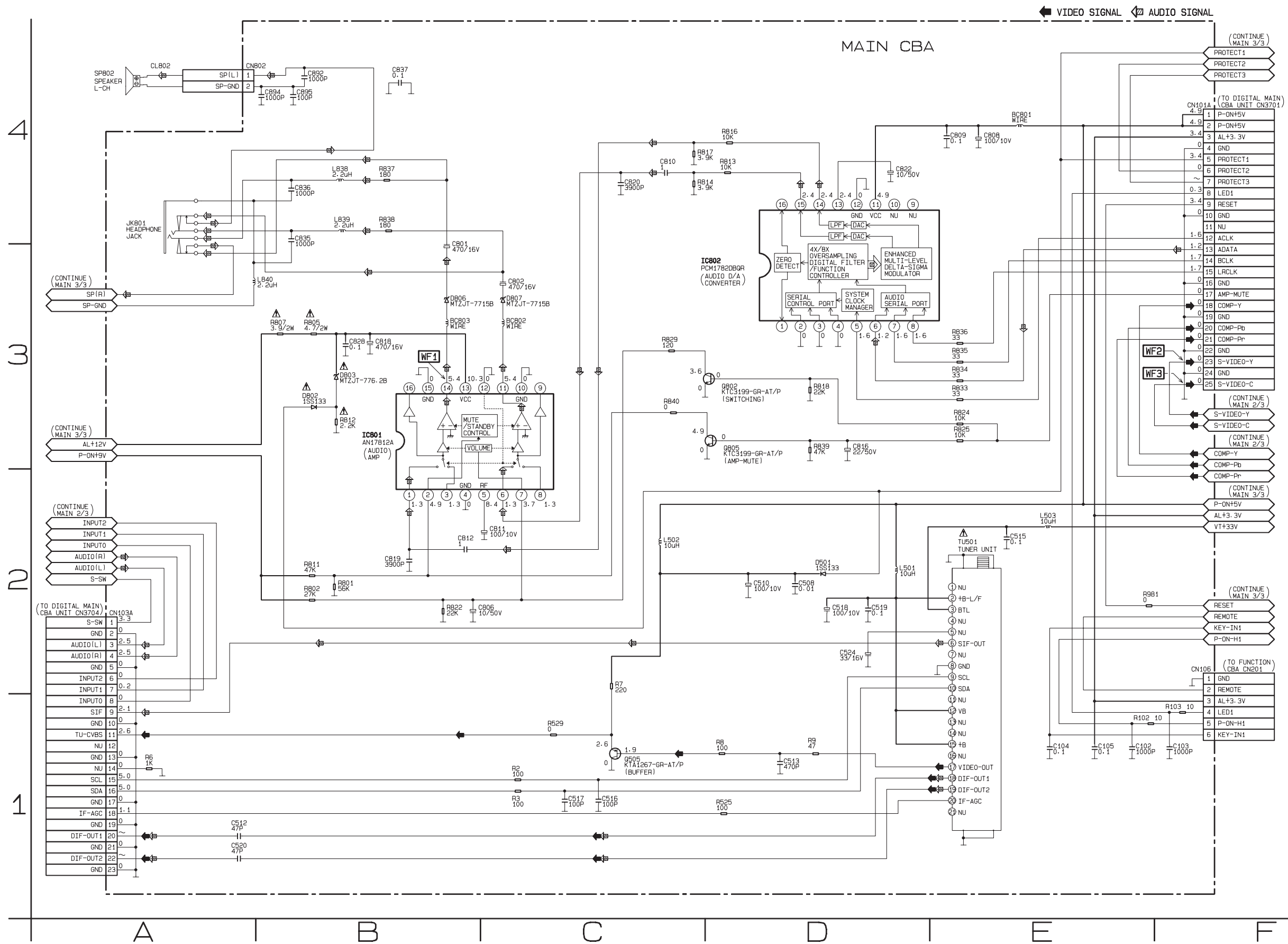
: Indicates a test point with a jumper wire across a hole in the PCB.

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

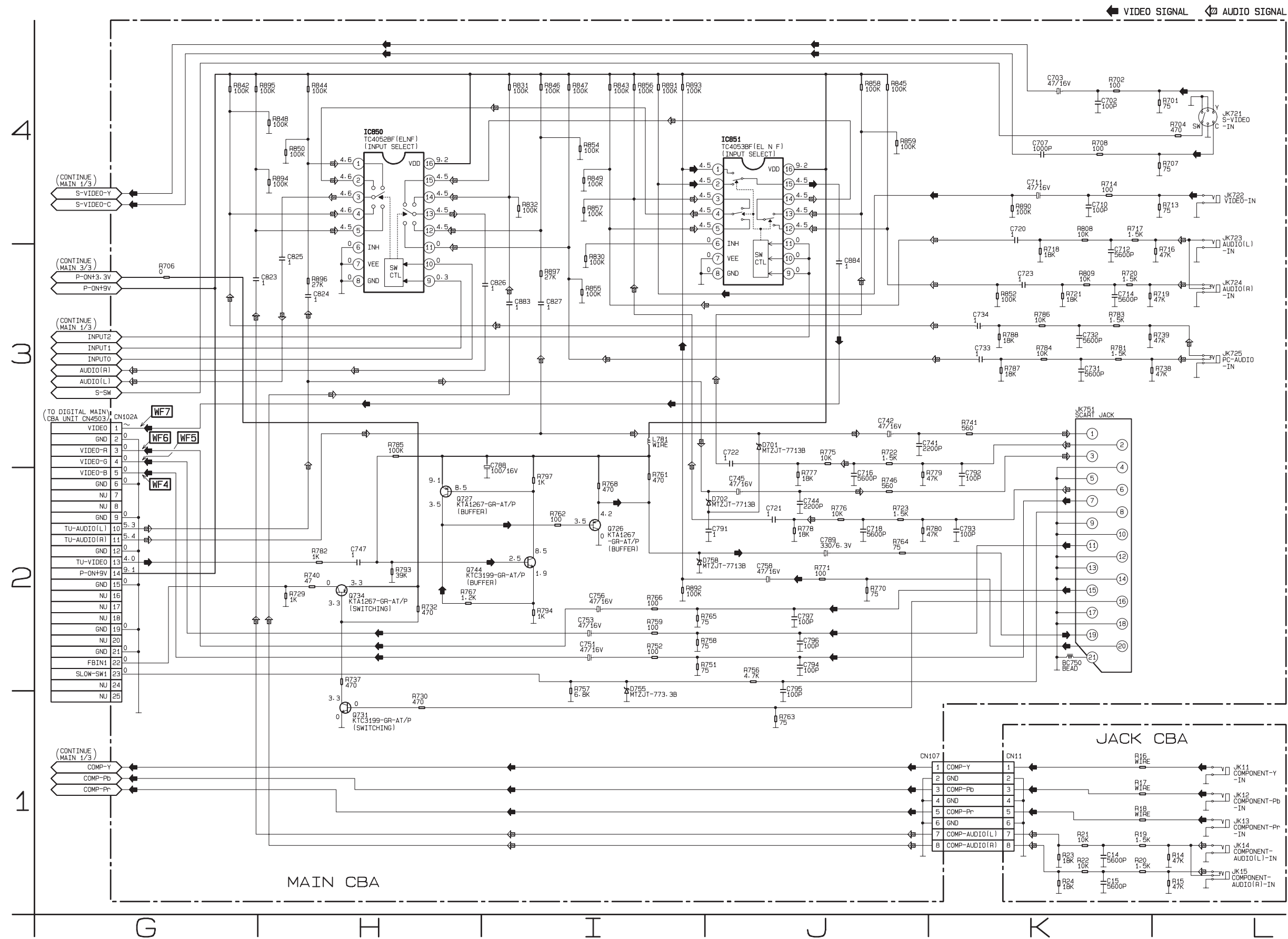
: Used to indicate a test point with no test pin.

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

Main 1/3 Schematic Diagram



Main 2/3, Jack Schematic Diagram



4

3

2

1

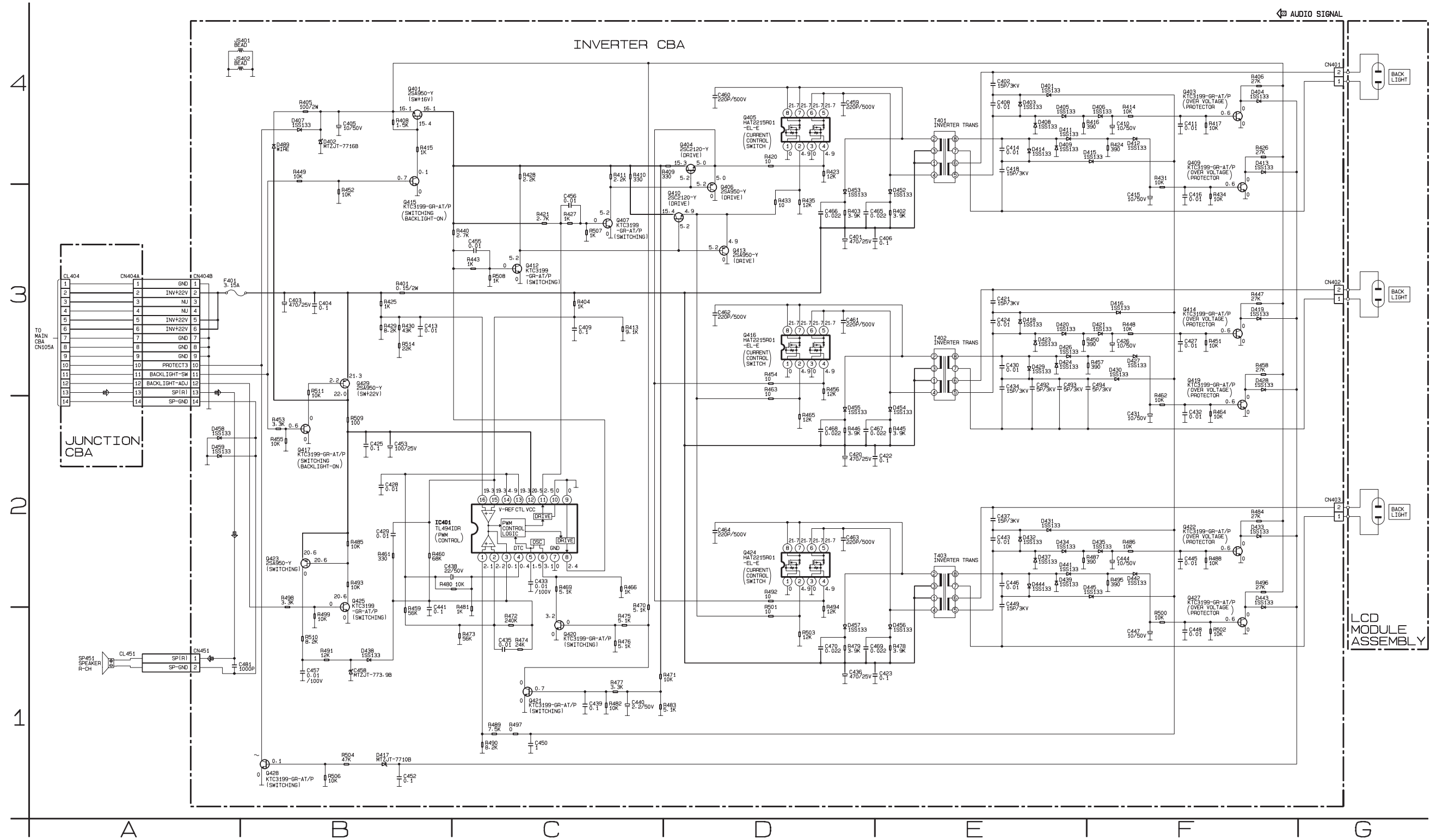
M N O P Q R

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

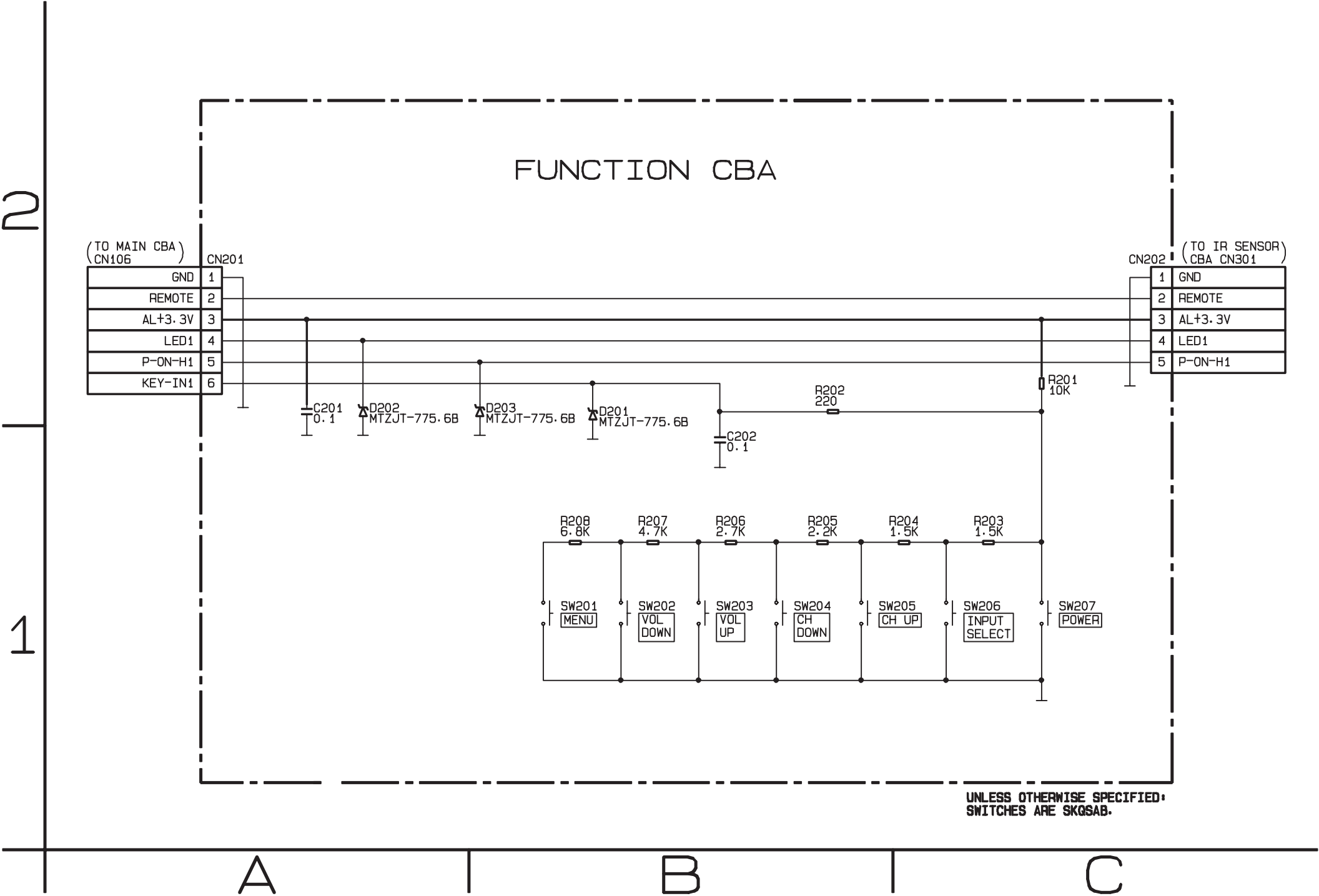
For continued protection against fire hazard,
replace only with the same type fuse.

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

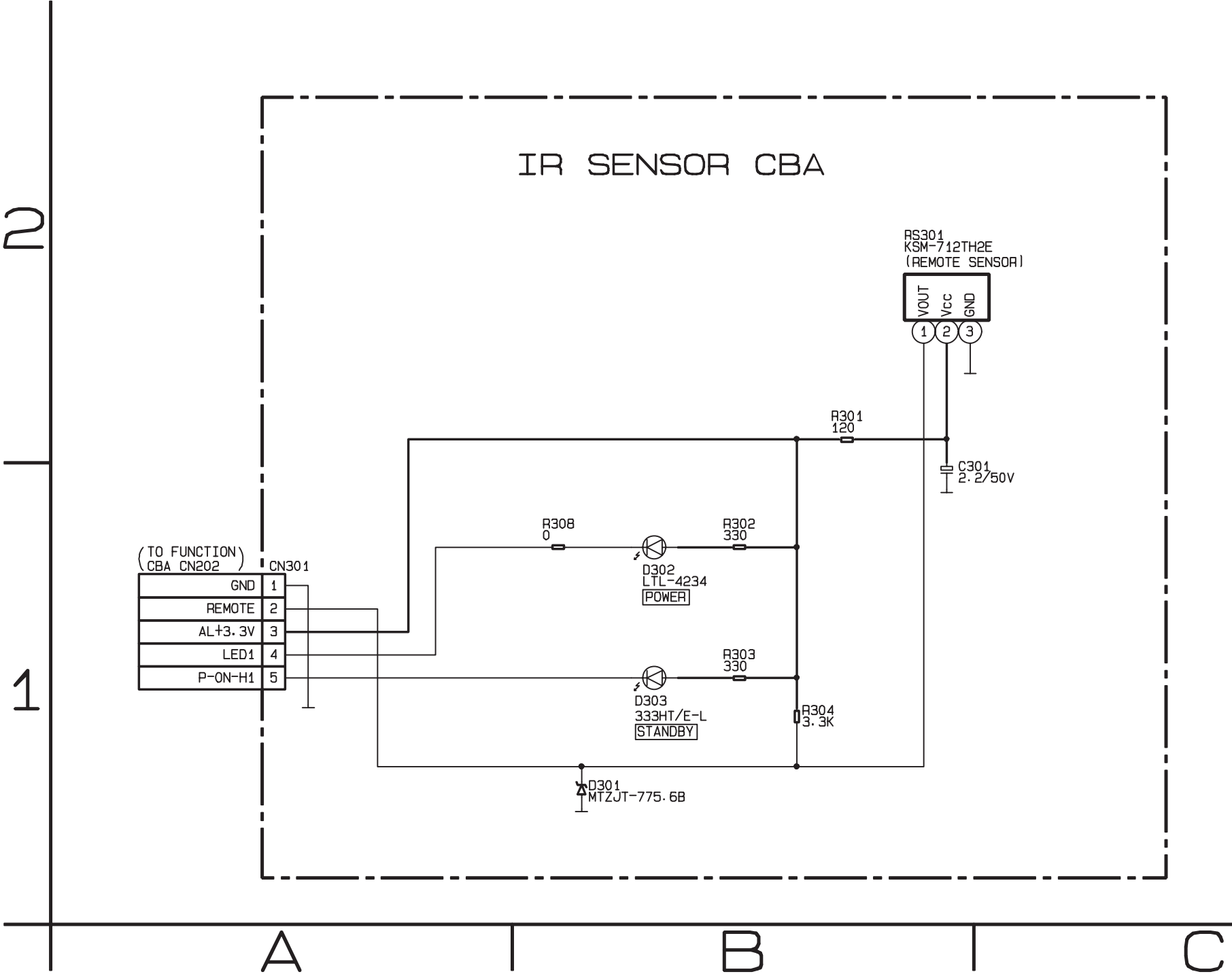
Inverter & Junction Schematic Diagram



Function Schematic Diagram



IR Sensor Schematic Diagram



4

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

3

2

1

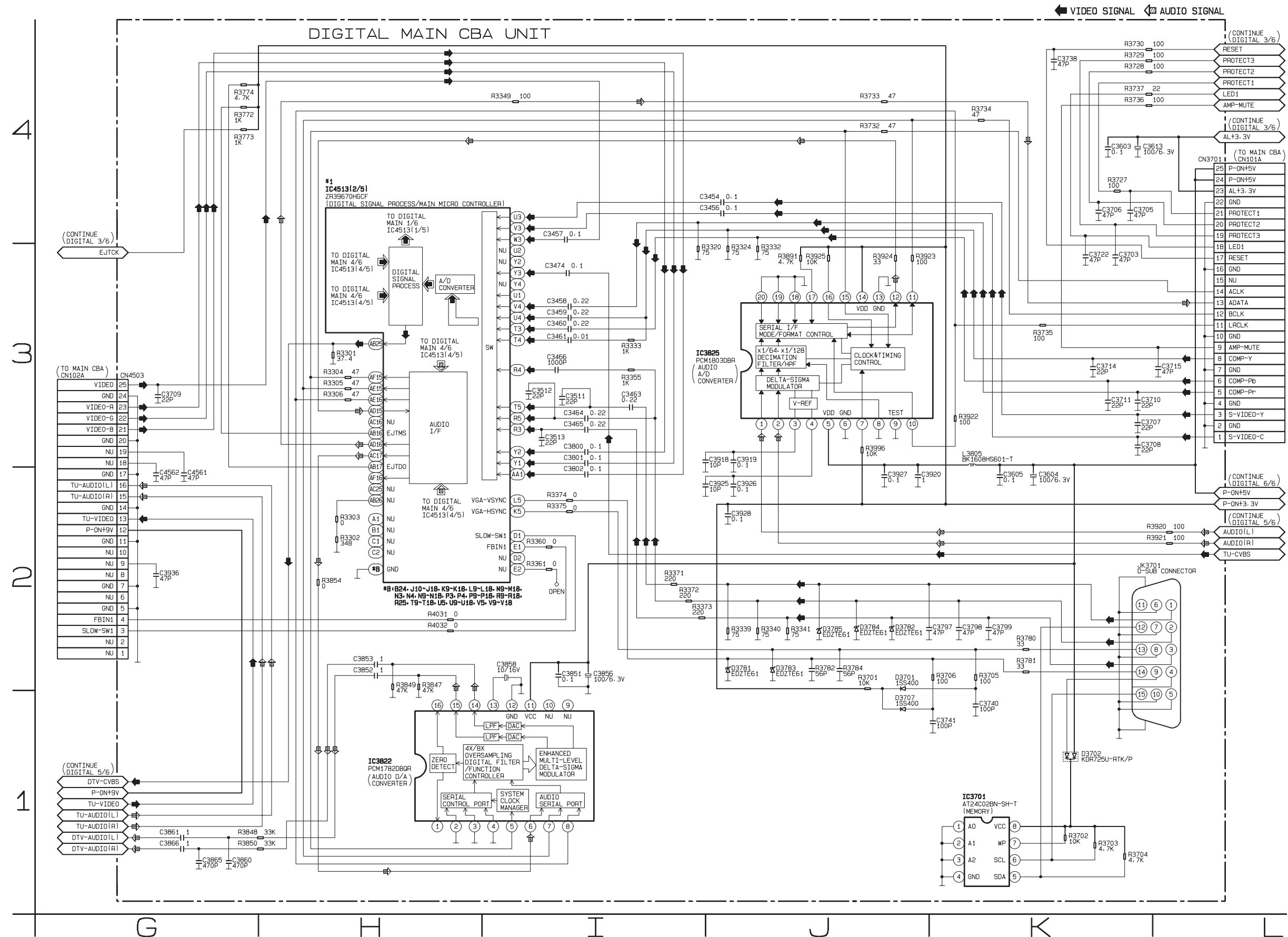


Digital Main 2/6 Schematic Diagram

***1 NOTE:**

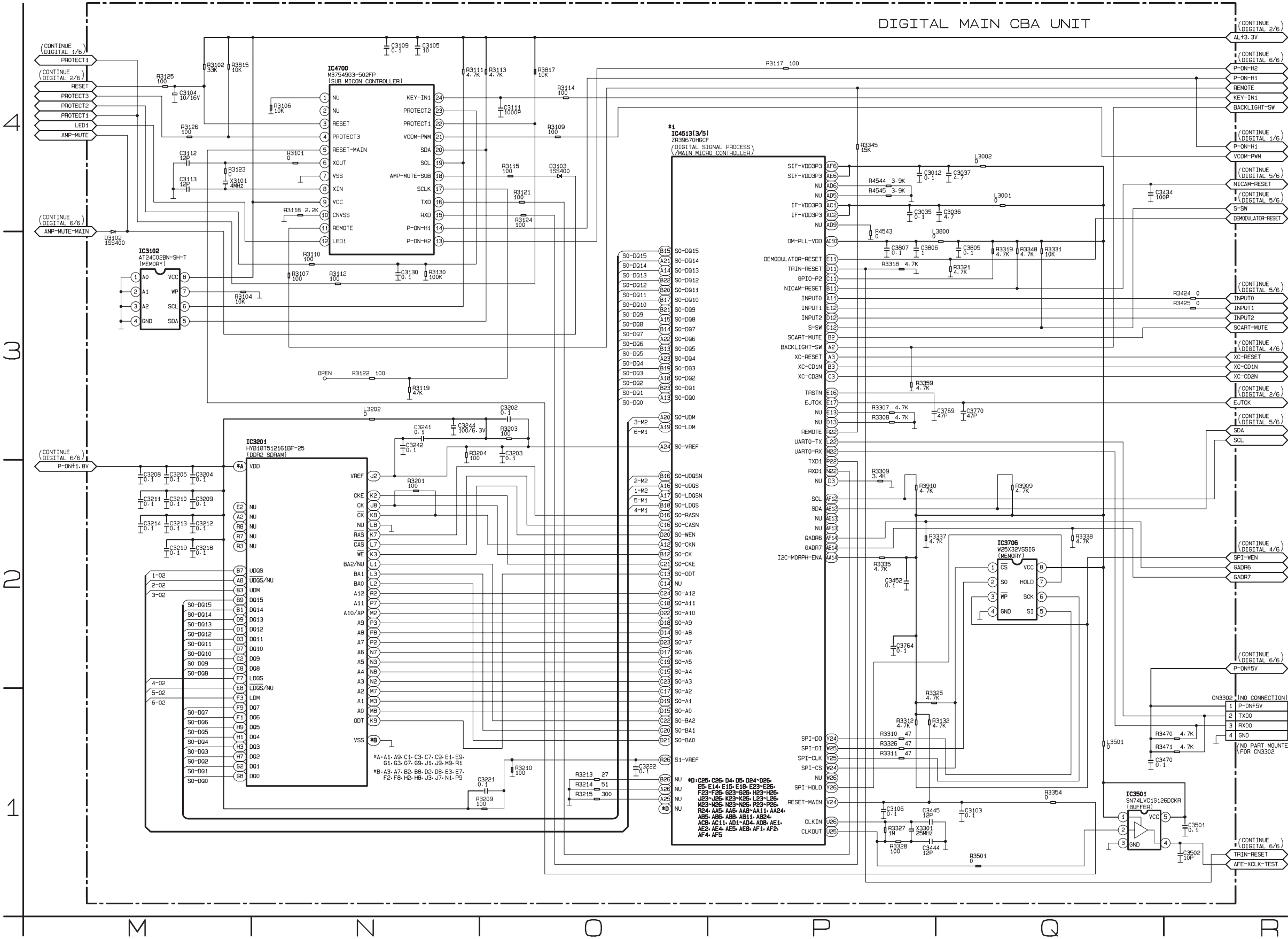
The order of pins shown in this diagram is different from that of actual IC4513.

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



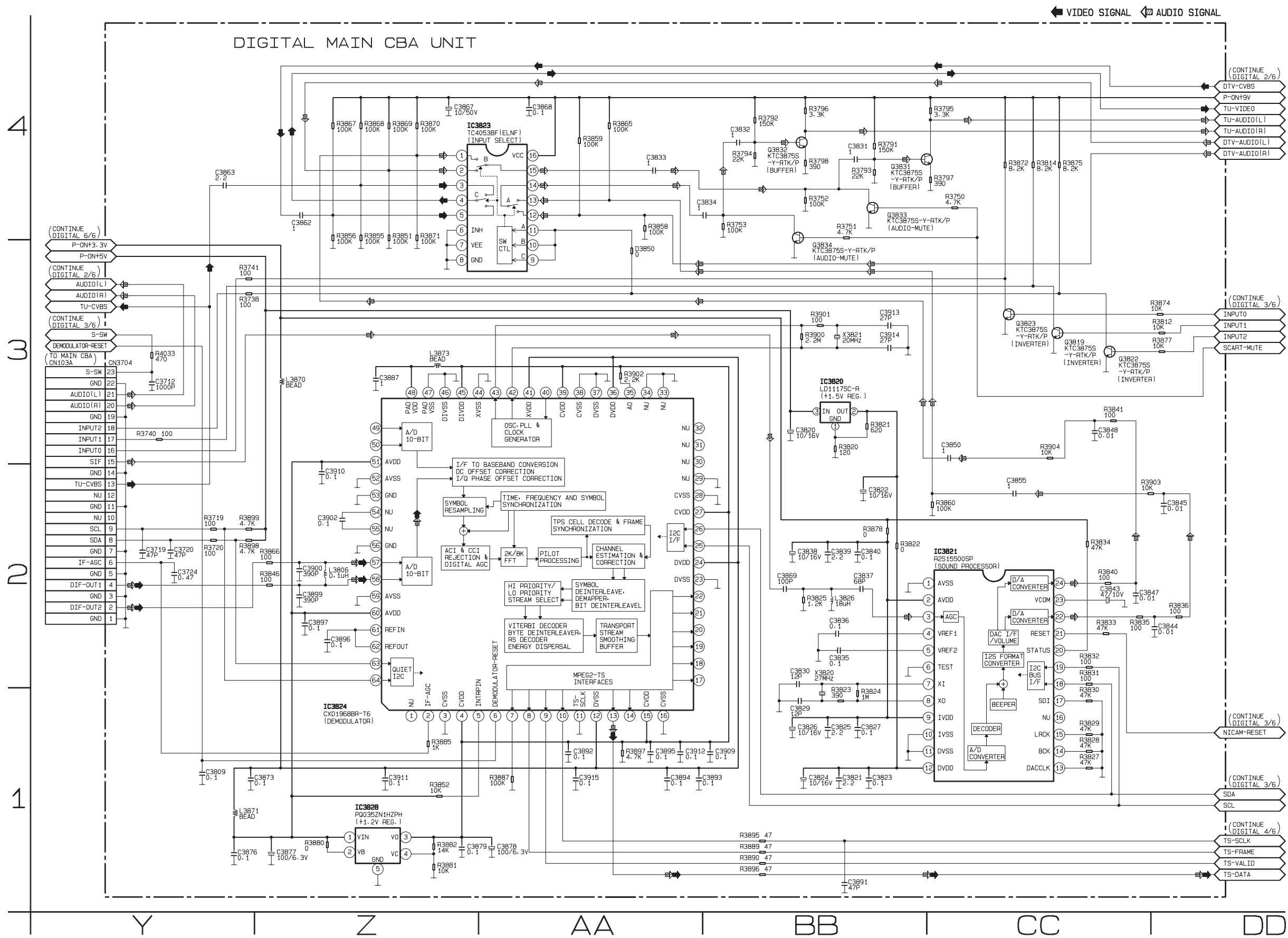
Digital Main 3/6 Schematic Diagram

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



A8C70SCD4

Digital Main 5/6 Schematic Diagram



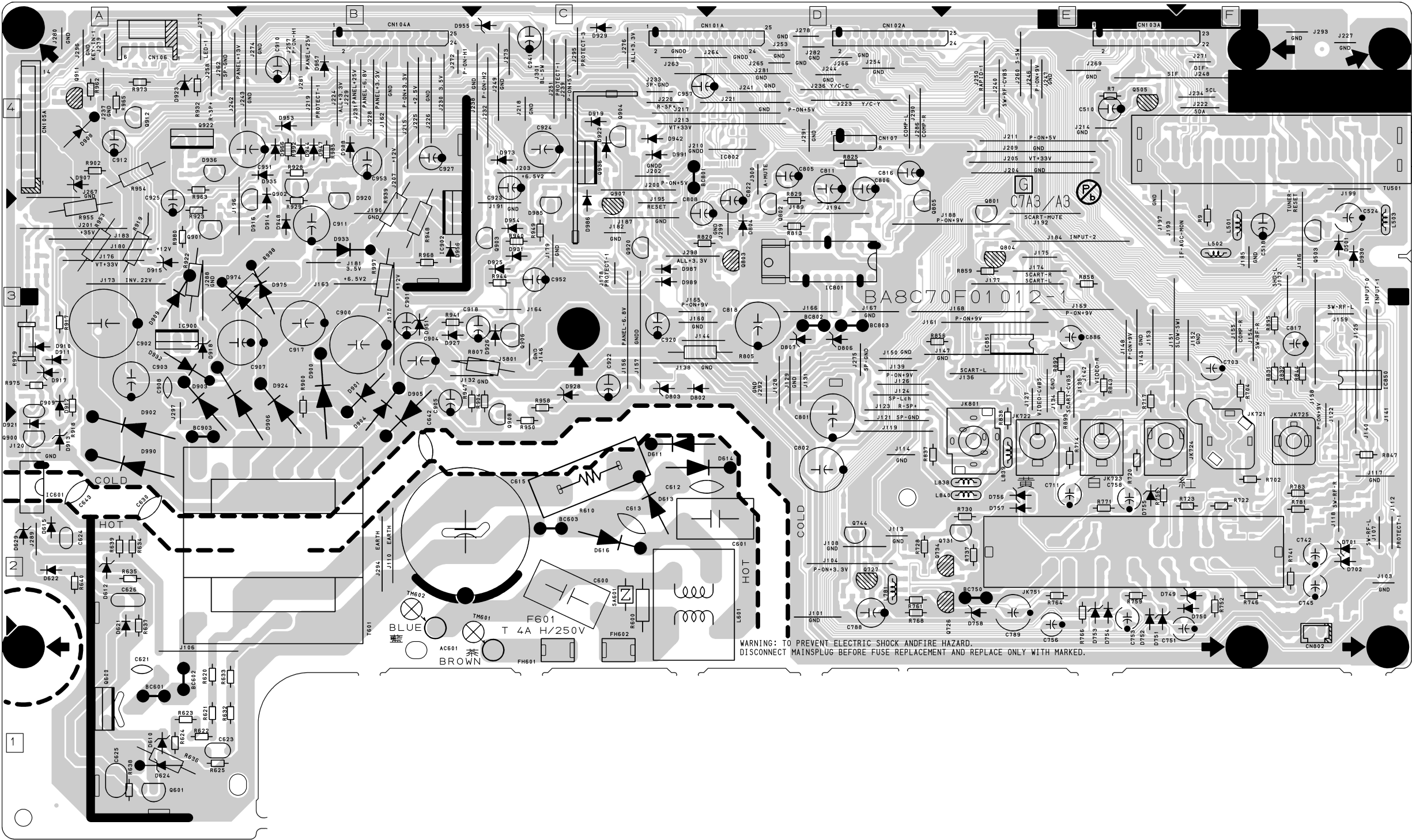
Main CBA Top View

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

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

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

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



Main CBA Bottom View

CAUTION !

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

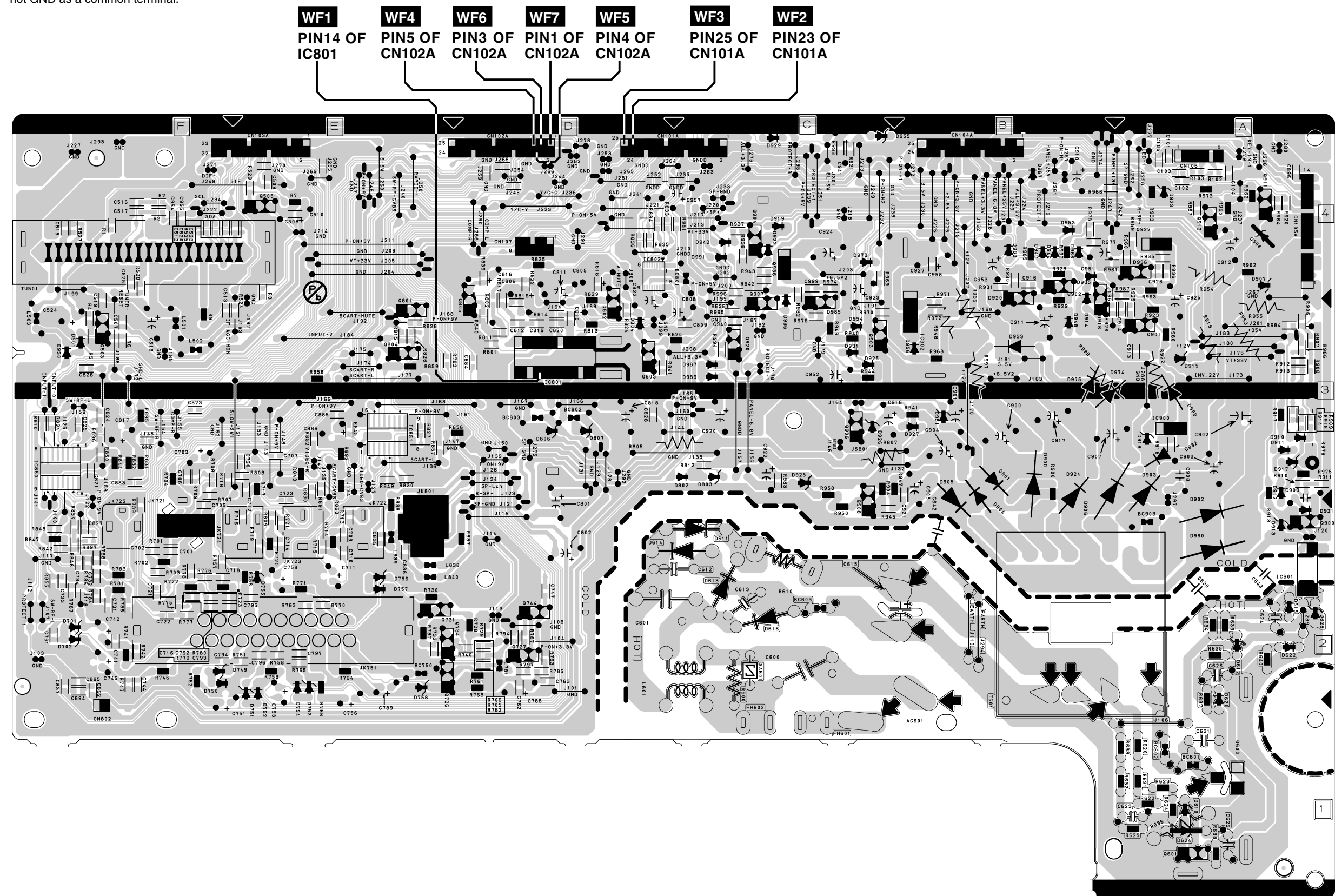
NOTE:

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

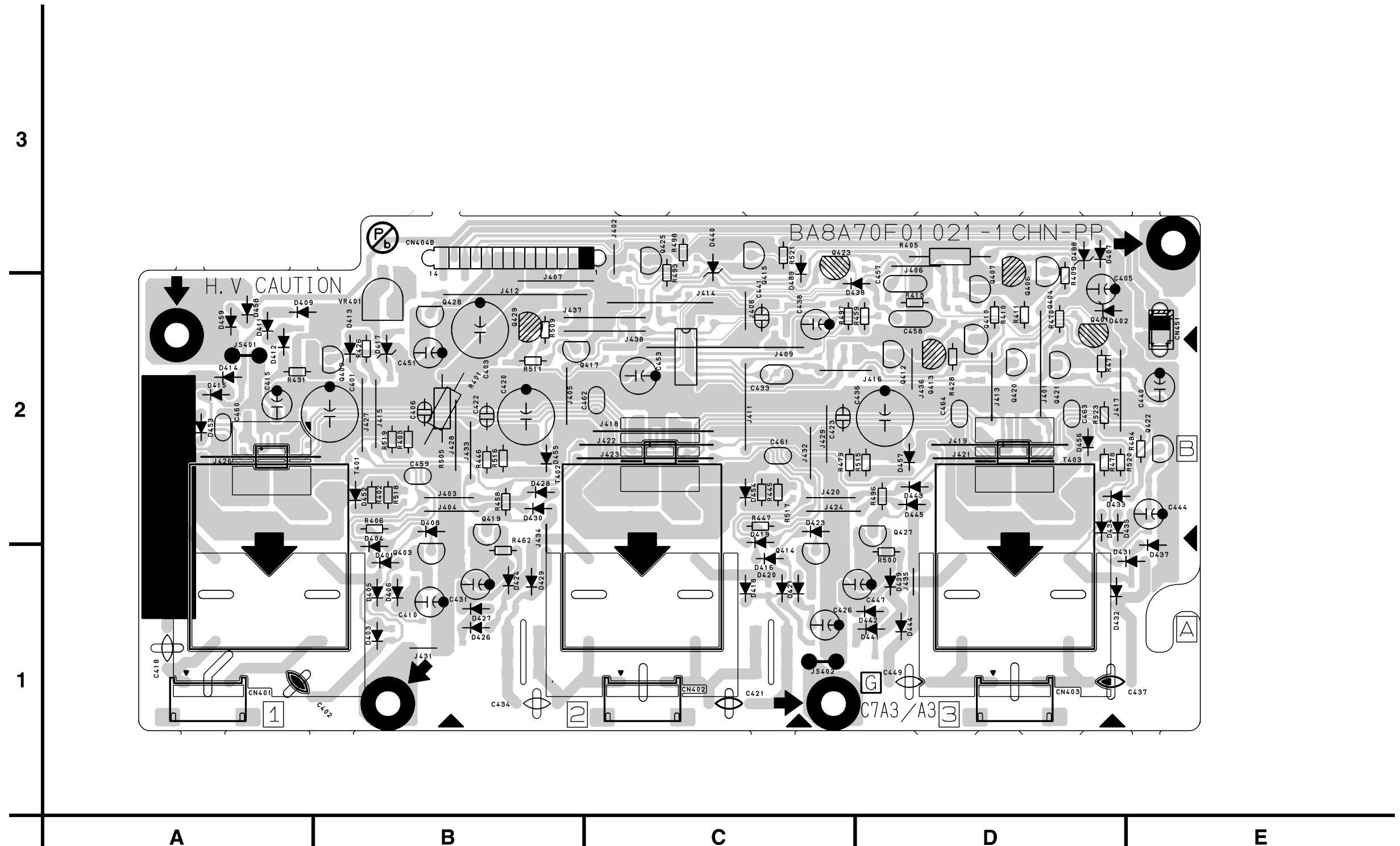
CAUTION !

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

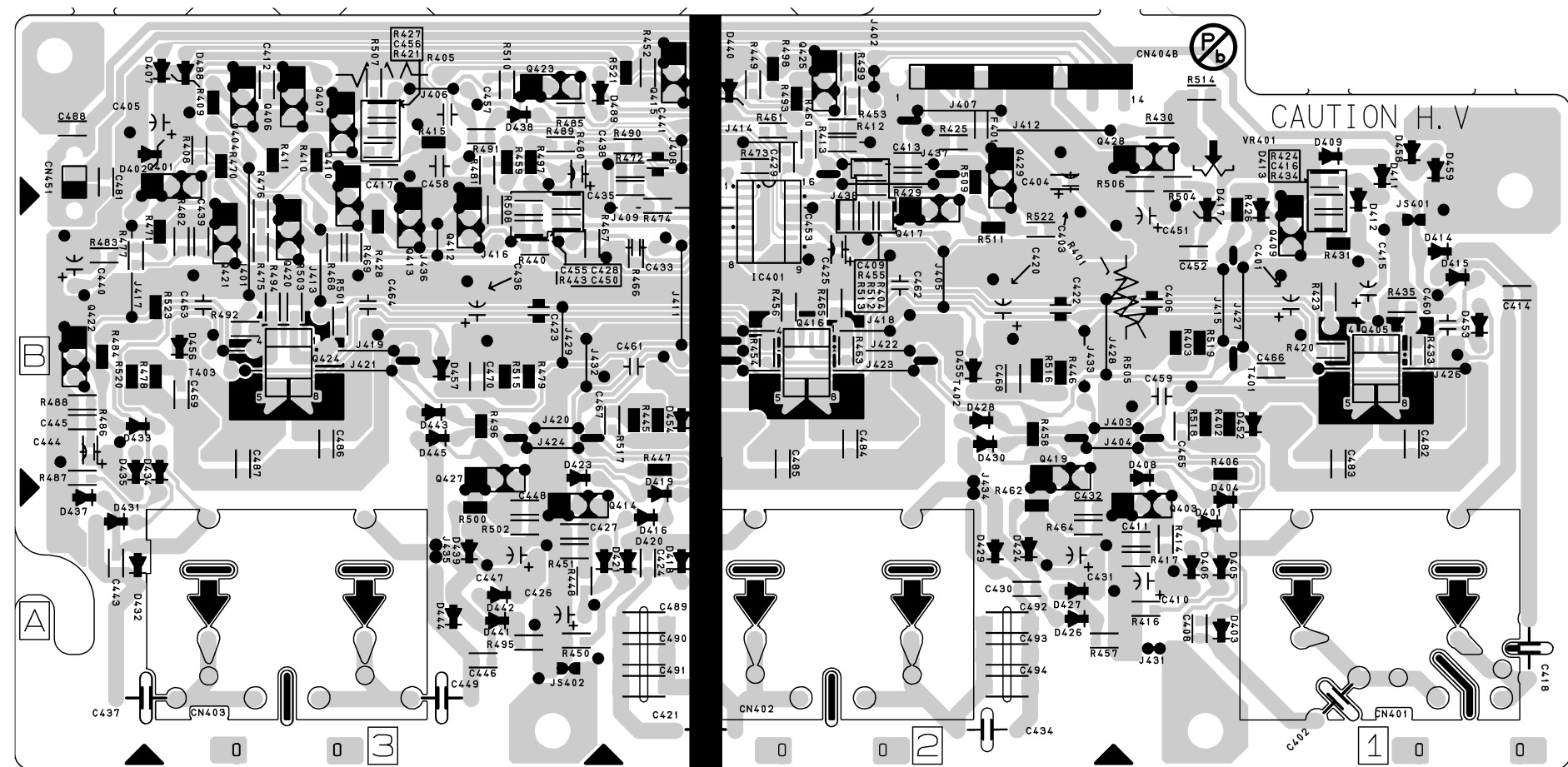
Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly, when troubleshooting this type power supply circuit, a variable isolation transformer is required.



Inverter CBA Top View



Inverter CBA Bottom View



3

2

1

E

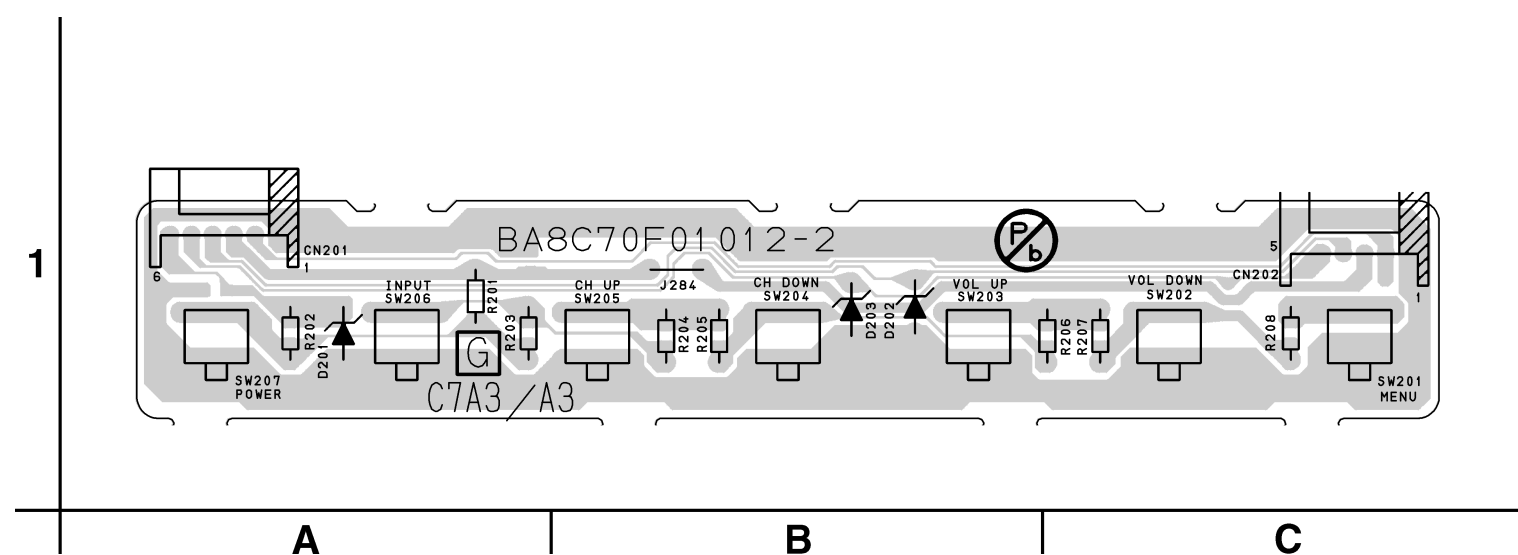
D

C

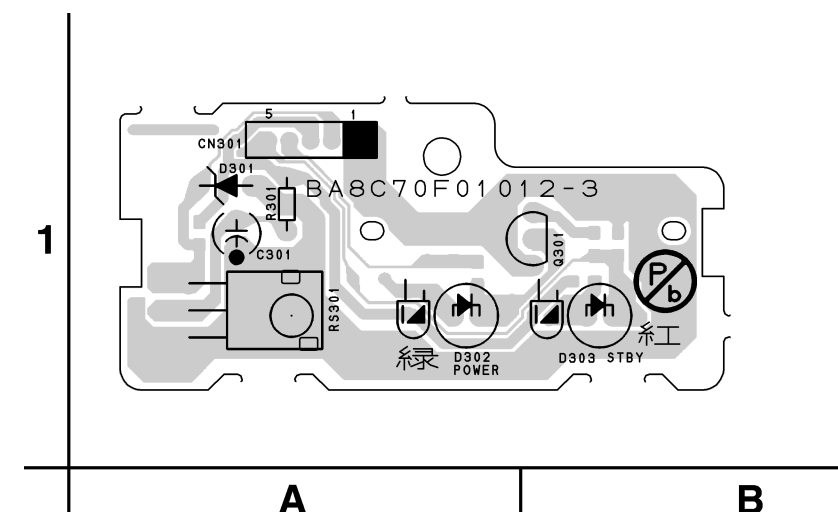
B

A

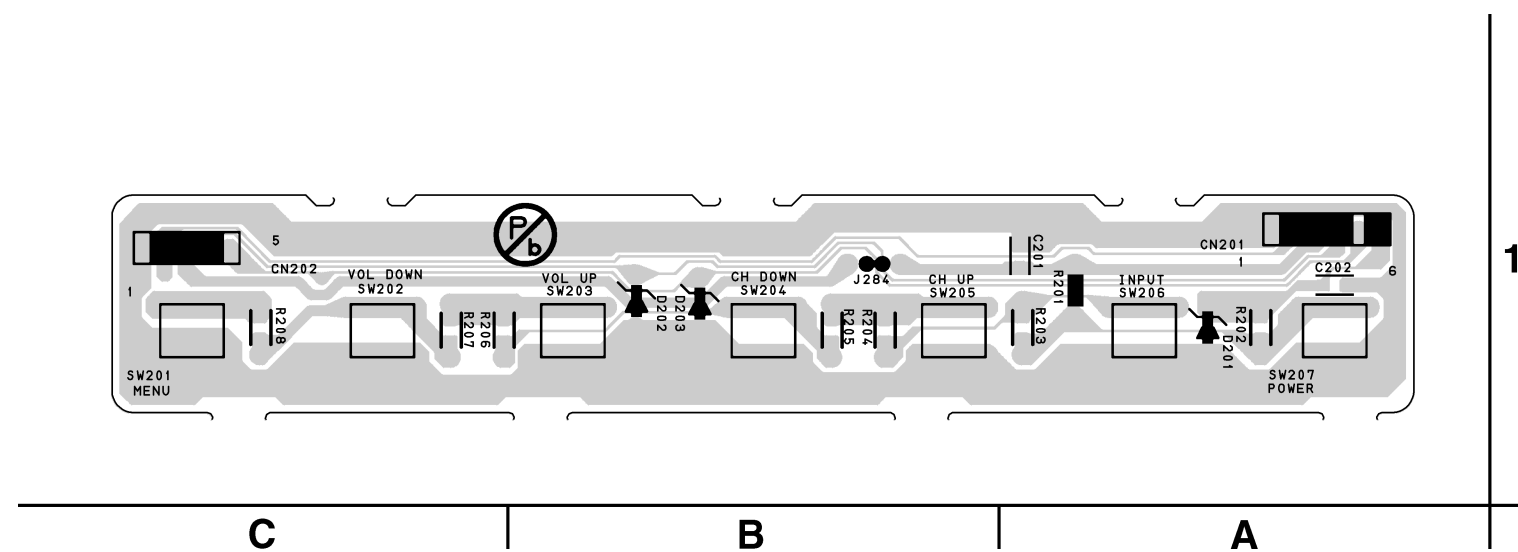
Function CBA Top View



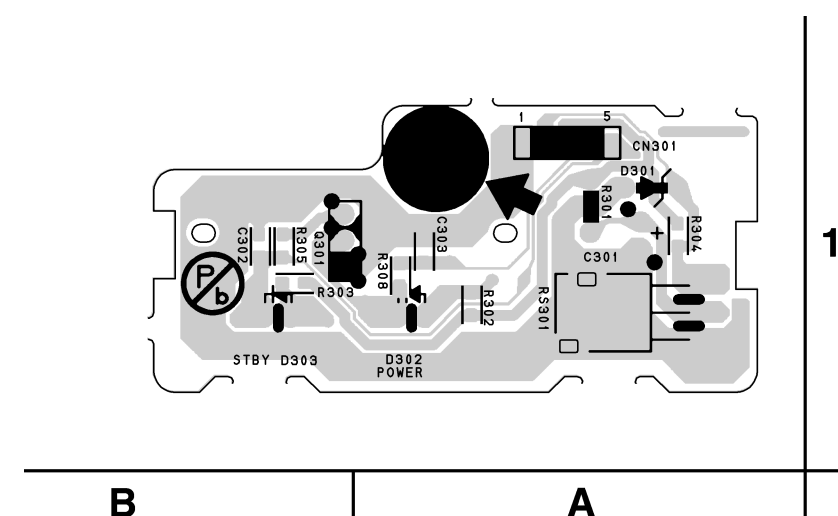
IR Sensor CBA Top View



Function CBA Bottom View



IR Sensor CBA Bottom View

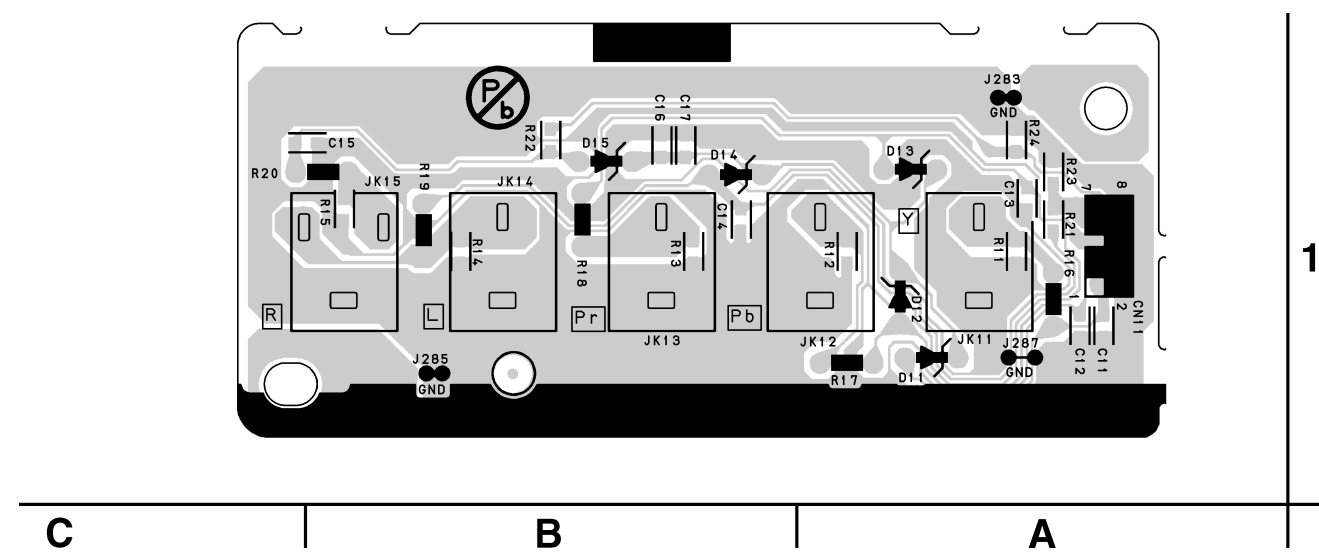


BA8C70F01012-2

BA8C70F01012-3

Figure 1 consists of two schematic diagrams, A and B, representing different microarray configurations. Diagram A shows a single channel (CL404) with a reference channel (V707N2) indicated by a hatched box. Diagram B shows a dual-channel microarray with two channels (CL404 and V707N2) and a reference channel (V707N2) indicated by a hatched box. The diagrams are labeled with '1' on the left and 'A' and 'B' at the bottom.

Jack CBA Bottom View



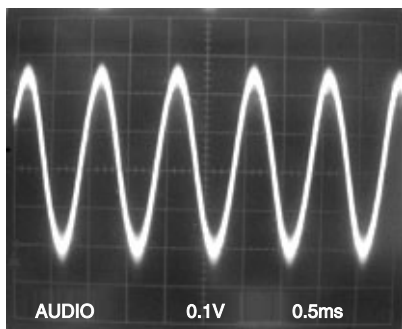
8-20

WAVEFORMS

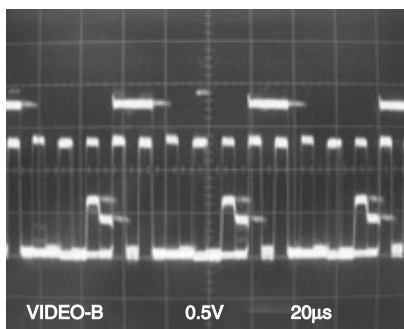
WF1 ~ WF7 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

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

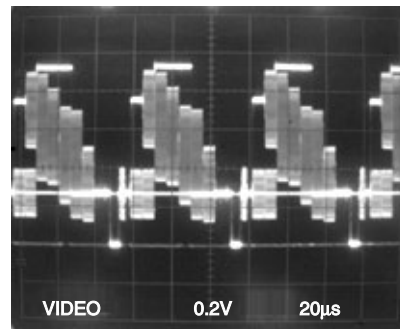
WF1 Pin 14 of IC801



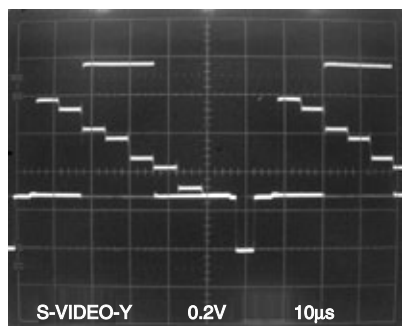
WF4 Pin 5 of CN102A



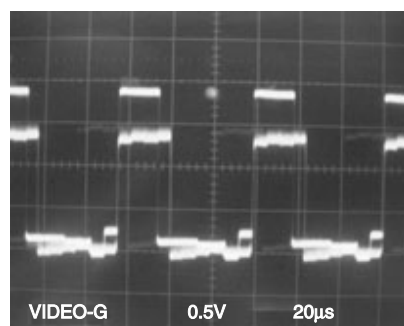
WF7 Pin 1 of CN102A



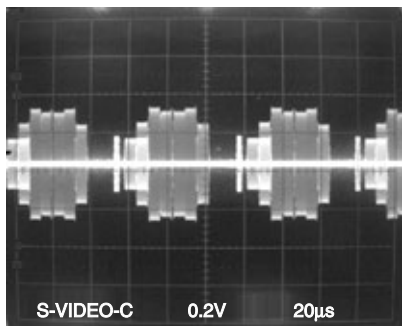
WF2 Pin 23 of CN101A



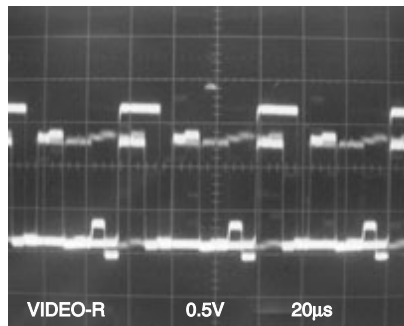
WF5 Pin 4 of CN102A



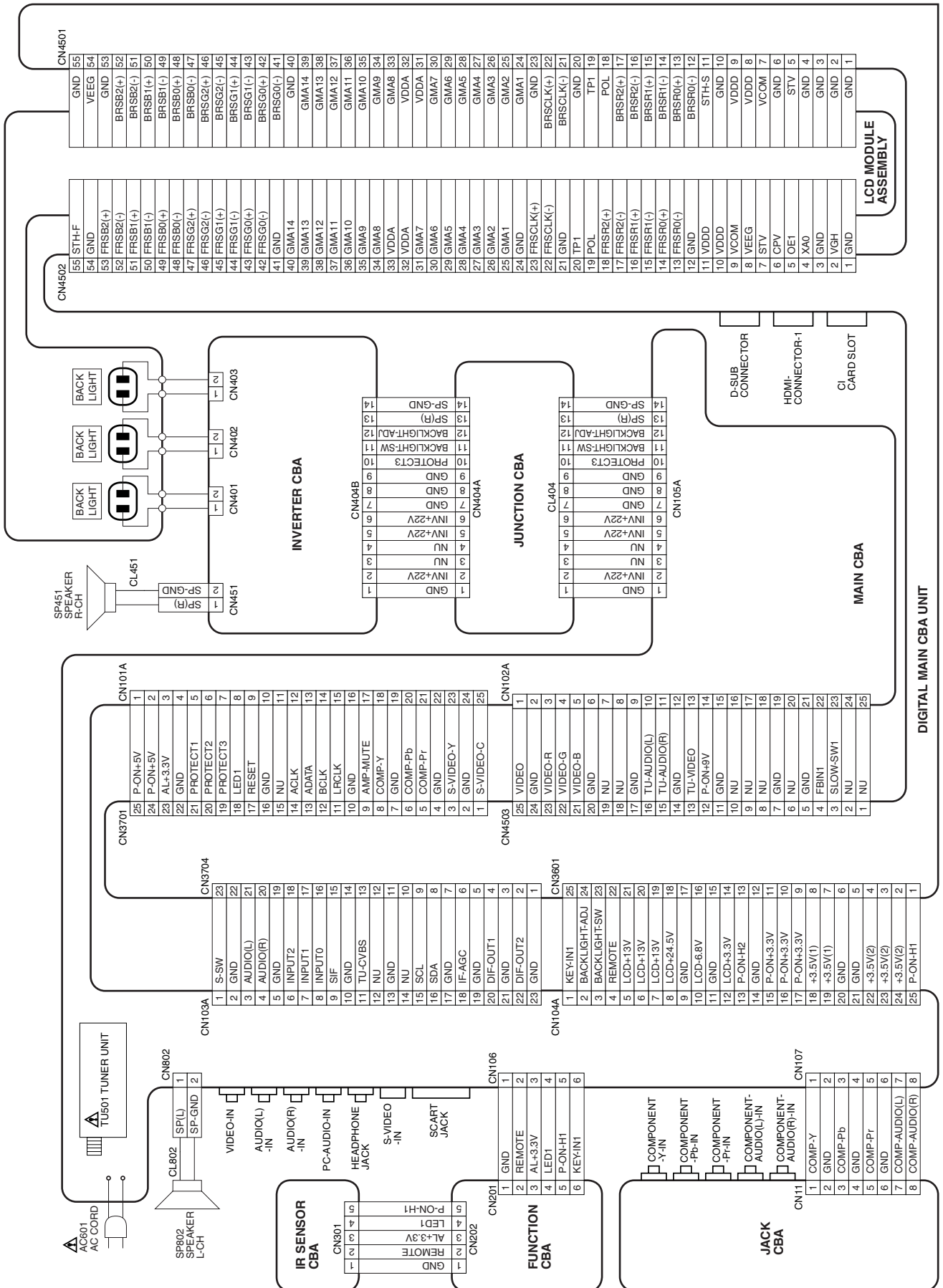
WF3 Pin 25 of CN101A



WF6 Pin 3 of CN102A

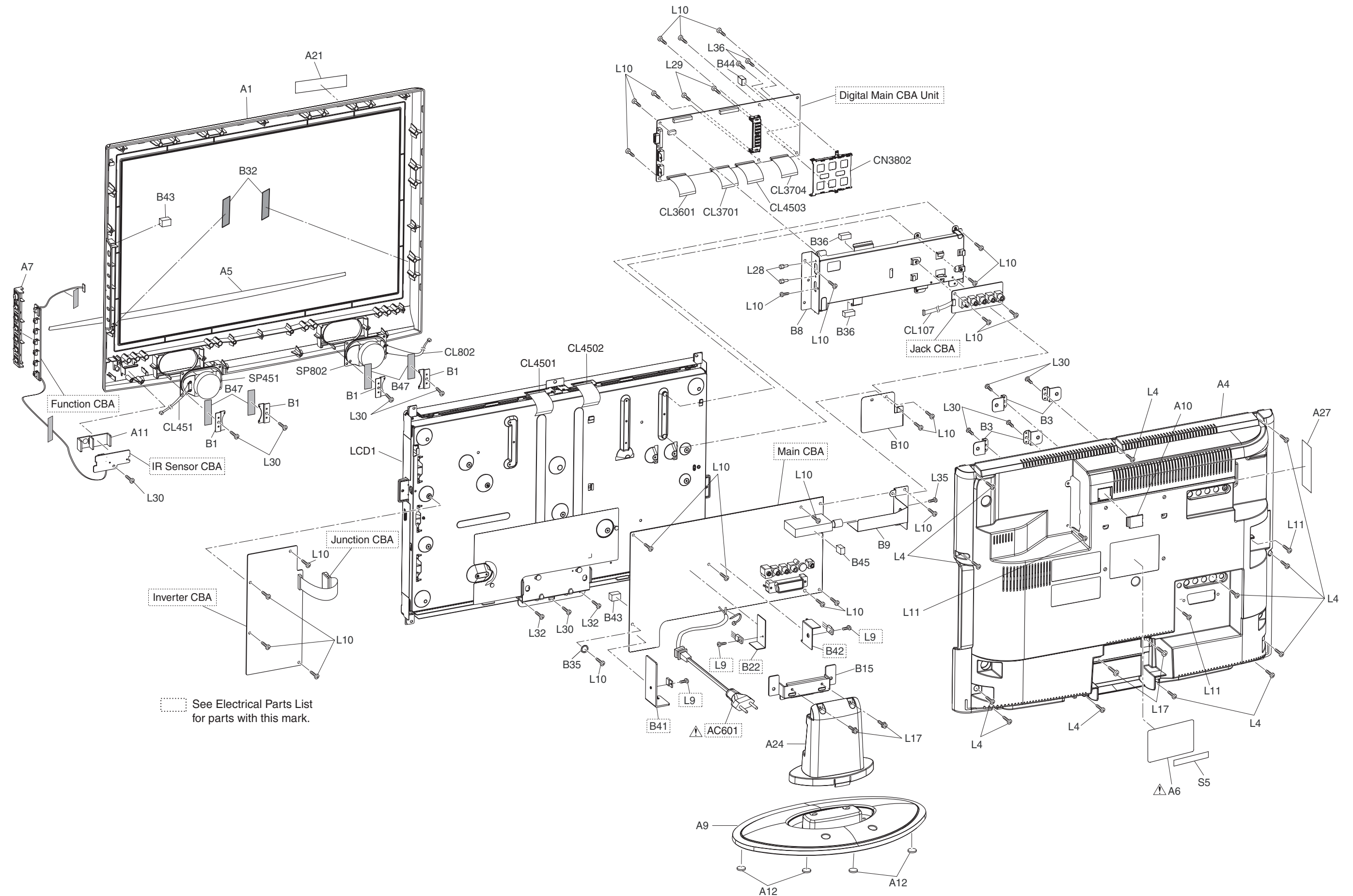


WIRING DIAGRAMS

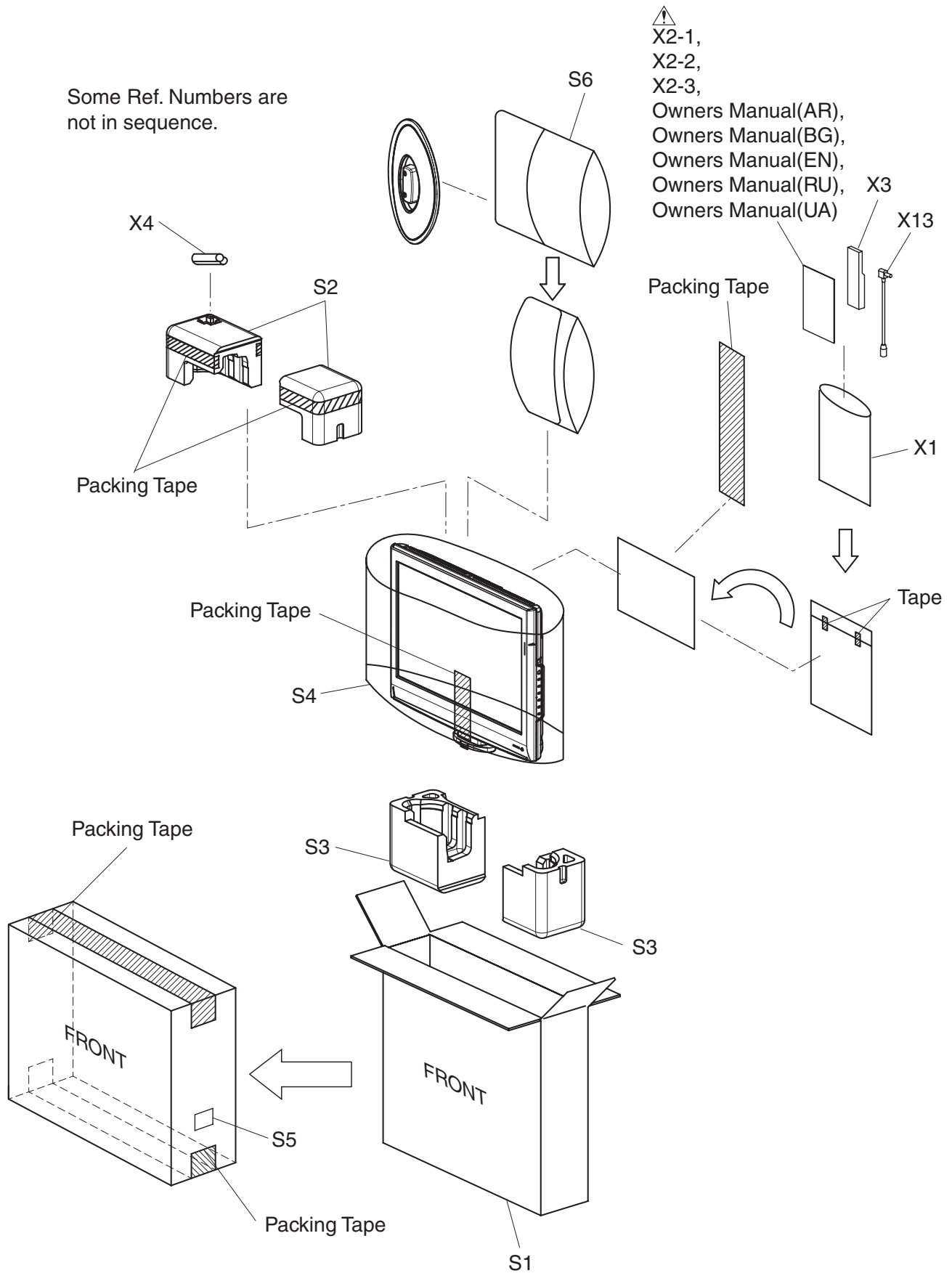


Cabinet


EXPLODED VIEWS



Packing



MECHANICAL PARTS LIST

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

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

Comparison Chart of Models and Marks


| Model | Mark |
|-----------|------|
| LT6-M22BB | A |
| LT6-M22WB | B |

| Ref. No. | Mark | Description | Part No. |
|----------|------|---|--------------|
| A1 | A | FRONT CABINET A8C70EP | 1EM022865A |
| A1 | B | FRONT CABINET A8C71EP | 1EM023145A |
| A4 | A | REAR CABINET A8C70EP | 1EM022745 |
| A4 | B | REAR CABINET A8C71EP | 1EM023146 |
| A5 | A | DECORATION PLATE A8A70UH | 1EM222263 |
| A5 | B | DECORATION PLATE A8C71EP | 1EM2222643 |
| A7 | A | FUNCTION KNOB A8CN0FP | 1EM222143A |
| A7 | B | FUNCTION KNOB A8CN3FP | 1EM324537A |
| A9 | A | STAND COVER A8CN0FP | 1EM022467 |
| A9 | B | STAND COVER A8CN3FP | 1EM222443 |
| A10 | A | REAR COVER A73F0EP | 1EM322722 |
| A10 | B | REAR COVER A8C71EP | 1EM325157A |
| A11 | | SENSOR LED LENS A8CN0FP | 1EM323959 |
| A12 | | STAND RUBBER FOOT A8AN0UH | 1EM426377 |
| A24 | A | NECK COVER A8A70UH | 1EM122633 |
| A24 | B | NECK COVER A8C71EP | 1EM325159 |
| B1 | | SPEAKER HOLDER A7120UH | 1EM423986 |
| B3 | | WALL MOUNT BRACKET A84N0UH | 1EM323797 |
| B8 | | SHIELD BOX A8CN0FP | 1EM122473 |
| B9 | | SHIELD (T) A8CN0FP | 1EM323919 |
| B10 | | FFC SHIELD SHEET A8C70EP | 1EM324937 |
| B15 | | STAND HINGE A8C70EP | 1EM325037 |
| B32 | | CLOTH(15X40XT0.5) A7140UH | 1EM424366 |
| B36 | | GASKET A8AF0UH | 1EM425861 |
| B47 | | CLOTH(10X40XT1) A8A70UH | 1EM427377 |
| CL107 | | WIRE ASSEMBLY 8PIN WX1A8CN0-004 | WX1A8CN0-004 |
| CL451 | | WIRE ASSEMBLY 2PIN WX1A8C70-002 | WX1A8C70-002 |
| CL802 | | WIRE ASSEMBLY 2PIN WX1A8C70-002 | WX1A8C70-002 |
| CL3601 | | WIRE ASSEMBLY 25PIN WX1A8CN0-006 | WX1A8CN0-006 |
| CL3701 | | WIRE ASSEMBLY 25PIN WX1A8CN0-006 | WX1A8CN0-006 |
| CL3704 | | WIRE ASSEMBLY 23PIN WX1A8CN0-005 | WX1A8CN0-005 |
| CL4501 | | WIRE ASSEMBLY FFC 55PIN FFC WIRE/55PIN/42MM | WX1A8A70-101 |
| CL4502 | | WIRE ASSEMBLY FFC 55PIN FFC WIRE/55PIN/42MM | WX1A8A70-101 |
| CL4503 | | FFC WIRE 25PIN WX1A8C70-005 | WX1A8C70-005 |
| CN3802 | | CONNECTOR IC CARD OSU SLOT 2013858-1 | J620680AP001 |
| L10 | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L17 | | DOUBLE SEMS SCREW M4X9 + BLACK L0130UA | 0EM408146A |
| L28 | | HEX SCREW #4-40 7MM | 1EM422042 |
| L29 | | DOUBLE SEMS SCREW M2X10+ M2X10 | FPJ32100 |
| L30 | | SCREW P-TIGHT M3X10 BIND HEAD+ | GBJP3100 |
| L36 | | DOUBLE SEMS SCREW M2X6+ M2X6 | FPJ32060 |
| LCD1 | | LCD MODULE 22INCH WIDE CMO 22INCH WSXGA+ | UG220EA |

| Ref. No. | Mark | Description | Part No. |
|--------------------|------|---|--------------|
| SP451 | | SPEAKER S0407F10 or | DSD0807XQ002 |
| | | SPEAKER MAGNETIC YDP47-1FN | DSD0807EFU01 |
| SP802 | | SPEAKER S0407F10 or | DSD0807XQ002 |
| | | SPEAKER MAGNETIC YDP47-1FN | DSD0807EFU01 |
| PACKING | | | |
| S4 | | SET BAG A81N0UH | 1EM322872A |
| S6 | | STAND BAG A81N0UH | 1EM424597 |
| ACCESSORIES | | | |
| X3 | A | REMOTE CONTROL NF028RD 170/ECPLC6.501/NF028 | NF028RD |
| X3 | B | REMOTE CONTROL NF031RD 170/ECPLC6.501/NF031 | NF031RD |

| Ref. No. | Mark | Description | Part No. |
|--------------------|------|--|--------------|
| A6△ | A | RATING LABEL A8C70EP | ----- |
| A6△ | B | RATING LABEL A8C71EP | ----- |
| A21 | | POP LABEL A8CN1EP | ----- |
| A27 | | CARD LABEL A8CN0FP | ----- |
| B35 | | WASHER(D12) A8C70EP | 1EM427237 |
| B43 | | RUBBER CUSHION (10X15X10) A71F3UH | 1EM424529 |
| B44 | | GASKET A8C70EP | 1EM427121 |
| B45 | | GASKET A71F0UH | 1EM424393 |
| L4 | | SCREW P-TIGHT 3X12 BIND HEAD+ BLK | GBHP3120 |
| L10 | | SCREW S-TIGHT M3X6 BIND HEAD+ | GBJS3060 |
| L11 | | SCREW S-TIGHT M3X8 BIND HEAD+ | GBHS3080 |
| L17 | | DOUBLE SEMS SCREW M4X9 + BLACK L0130UA | 0EM408146A |
| L30 | | SCREW P-TIGHT M3X10 BIND HEAD+ | GBJP3100 |
| L32 | | SCREW P-TIGHT D4X10 BIND HEAD+ | GBJP4100 |
| L35 | | SCREW S-TIGHT M3X4 BIND HEAD | GBJS3040 |
| PACKING | | | |
| S1 | A | CARTON A8C70EP | 1EM325099 |
| S1 | B | CARTON A8C71EP | 1EM427439 |
| S2 | | STYROFOAM TOP A8C70EP | 1EM022885 |
| S3 | | STYROFOAM BOTTOM A8C70EP | 1EM022886 |
| S5 | | SERIAL NO. LABEL L9750UA | ----- |
| ACCESSORIES | | | |
| X1 | | BAG POLYETHYLENE 235X365XT0.03 | 0EM408420A |
| X4 | | BATTERY R6DB/2P | XB0M601MS002 |
| X13 | | RF ADAPTER CABLE WPZ0201TM001 | WPZ0201TM001 |
| X2-1△ | | OWNERS MANUAL(DE-6) A8C70EP | 1EMN23639 |
| X2-2△ | | OWNERS MANUAL(FR-6) A8C70EP | 1EMN23640 |
| X2-3△ | | OWNERS MANUAL(PL-6) A8C70EP | 1EMN23641 |
| △ | | OWNER'S MANUAL(AR) | 1EMN23642 |
| △ | | OWNER'S MANUAL(BG) | 1EMN23643 |
| △ | | OWNER'S MANUAL(EN) | 1EMN23619 |
| △ | | OWNER'S MANUAL(RU) | 1EMN23644 |
| △ | | OWNER'S MANUAL(UA) | 1EMN23645 |

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%

Comparison Chart of Models and Marks

| Model | Mark |
|-----------|------|
| LT6-M22BB | A |
| LT6-M22WB | B |

DIGITAL MAIN CBA UNIT



| Ref. No. | Description | Part No. |
|----------|-----------------------|-----------|
| | DIGITAL MAIN CBA UNIT | 1ESA17231 |

MMA CBA

| Ref. No. | Mark | Description | Part No. |
|----------|--------|---|----------------------------------|
| | A B | MMA CBA MMA CBA Consists of the following: | 1ESA17109 1ESA18127 |
| | | MAIN CBA IR SENSOR CBA FUNCTION CBA JACK CBA | ----- ----- ----- ----- |

MAIN CBA

| Ref. No. | Mark | Description | Part No. |
|-------------------|------|---|--------------|
| | | MAIN CBA Consists of the following: | ----- |
| CAPACITORS | | | |
| C102 | | CHIP CERAMIC CAP.(1608) CH J 1000pF/50V | CHD1JJ3CH102 |
| C103 | | CHIP CERAMIC CAP.(1608) CH J 1000pF/50V | CHD1JJ3CH102 |
| C104 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V | CHD1JZ30F104 |
| C105 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V | CHD1JZ30F104 |
| C508 | | CHIP CERAMIC CAP.(1608) B K 0.01µF/50V | CHD1JK30B103 |
| C510 | | ELECTROLYTIC CAP. 100µF/10V M | CE1AMASDL101 |
| C512 | | CHIP CERAMIC CAP.(1608) CH J 47pF/50V | CHD1JJ3CH470 |
| C513 | | CHIP CERAMIC CAP.(1608) CH J 470pF/50V | CHD1JJ3CH471 |
| C515 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V | CHD1JZ30F104 |
| C516 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |
| C517 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |
| C518 | | ELECTROLYTIC CAP. 100µF/10V M | CE1AMASDL101 |
| C519 | | CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V | CHD1JZ30F104 |

| Ref. No. | Mark | Description | Part No. |
|---|---|--|--------------|
| C520 | | CHIP CERAMIC CAP.(1608) CH J 47pF/50V | CHD1JJ3CH470 |
| C524 | | ELECTROLYTIC CAP. 33µF/16V M H7 | CE1CMAVSL330 |
| C600 |  | METALIZED FILM CAP. 0.22µF/250V or | CT2E224MS037 |
|  | | CAP METALIZED FILM 0.22µF/300V K 3.5MM | CT2F224DC004 |
| C601 |  | METALIZED FILM CAP. 0.1µF/250V or | CT2E104MS037 |
|  | | CAP METALIZED FILM 0.1µF/300V K 3.5MM | CT2F104DC004 |
| C615 |  | CAP ELE 180µF/400V/MLS/D30 or | CA2H181V8008 |
|  | | CAP ELECTROLYTIC 180µF/400V M | CA2H181DYG10 |
| C621 | | CERAMIC CAP. 470pF/2KV or | CA3D471PAN04 |
| | | CERAMIC CAP. BL 470pF/2KV | CA3D471XF003 |
| C623 | | POLYESTER FILM CAP. (PB FREE) 0.01µF/100V J or | CA2A103DT018 |
| | | CAP POLYESTER FILM 0.01µF/100V J | CA2A103SER02 |
| C624 | | POLYESTER FILM CAP. (PB FREE) 0.0015µF/100V J or | CA2A152DT018 |
| | | CAP POLYESTER FILM 0.0015µF/100V J | CA2A152SER02 |
| C625 | | POLYESTER FILM CAP. (PB FREE) 0.068µF/100V J or | CA2A683DT018 |
| | | CAP POLYESTER FILM 0.068µF/100V J | CA2A683SER02 |
| C630 |  | SAFTY CAP. 1000pF/250V KX or | CA2E102MR101 |
|  | | SAFTY CAP. 1000pF/250V KX or | CA2E102MR050 |
|  | | CAP CERAMIC 1000pF/250V/M | CA2E102MR086 |
| C642 |  | SAFTY CAP. 2200pF/250V KX or | CA2E222MR050 |
|  | | SAFTY CAP. 2200pF/250V KX or | CA2E222MR101 |
|  | | CAP CERAMIC 2200pF/250V/M | CA2E222MR086 |
| C702 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |
| C703 | | ELECTROLYTIC CAP. 47µF/16V M H7 | CE1CMAVSL470 |
| C707 | | CHIP CERAMIC CAP.(1608) CH J 1000pF/50V | CHD1JJ3CH102 |
| C710 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |
| C711 | | ELECTROLYTIC CAP. 47µF/16V M H7 | CE1CMAVSL470 |
| C712 | | CHIP CERAMIC CAP.(1608) B K 5600pF/50V | CHD1JK30B562 |
| C714 | | CHIP CERAMIC CAP.(1608) B K 5600pF/50V | CHD1JK30B562 |
| C716 | | CHIP CERAMIC CAP.(1608) B K 5600pF/50V | CHD1JK30B562 |
| C718 | | CHIP CERAMIC CAP.(1608) B K 5600pF/50V | CHD1JK30B562 |
| C720 | | CHIP CERAMIC CAP.(1608) B K 1µF/10V | CHD1AK30B105 |
| C721 | | CHIP CERAMIC CAP.(1608) B K 1µF/10V | CHD1AK30B105 |
| C722 | | CHIP CERAMIC CAP.(1608) B K 1µF/10V | CHD1AK30B105 |
| C723 | | CHIP CERAMIC CAP.(1608) B K 1µF/10V | CHD1AK30B105 |
| C731 | | CHIP CERAMIC CAP.(1608) B K 5600pF/50V | CHD1JK30B562 |
| C732 | | CHIP CERAMIC CAP.(1608) B K 5600pF/50V | CHD1JK30B562 |
| C733 | | CHIP CERAMIC CAP.(1608) B K 1µF/10V | CHD1AK30B105 |
| C734 | | CHIP CERAMIC CAP.(1608) B K 1µF/10V | CHD1AK30B105 |
| C741 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C742 | | ELECTROLYTIC CAP. 47µF/16V M H7 | CE1CMAVSL470 |
| C744 | | CHIP CERAMIC CAP. B K 2200pF/50V | CHD1JK30B222 |
| C745 | | ELECTROLYTIC CAP. 47µF/16V M H7 | CE1CMAVSL470 |
| C747 | | CHIP CERAMIC CAP.(1608) B K 1µF/10V | CHD1AK30B105 |
| C751 | | ELECTROLYTIC CAP. 47µF/16V M H7 | CE1CMAVSL470 |
| C753 | | ELECTROLYTIC CAP. 47µF/16V M H7 | CE1CMAVSL470 |
| C756 | | ELECTROLYTIC CAP. 47µF/16V M H7 | CE1CMAVSL470 |
| C758 | | ELECTROLYTIC CAP. 47µF/16V M H7 | CE1CMAVSL470 |
| C788 | | ELECTROLYTIC CAP. 100µF/16V M | CE1CMASDL101 |
| C789 | | ELECTROLYTIC CAP. 330µF/6.3V M H7 | CE0KMAVSL331 |
| C791 | | CHIP CERAMIC CAP.(1608) B K 1µF/10V | CHD1AK30B105 |
| C792 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |
| C793 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |

| Ref. No. | Mark | Description | Part No. |
|----------|------|--|--------------|
| C794 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |
| C795 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |
| C796 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |
| C797 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |
| C801 | | ELECTROLYTIC CAP. 470μF/16V M | CE1CMASDL471 |
| C802 | | ELECTROLYTIC CAP. 470μF/16V M | CE1CMASDL471 |
| C806 | | ELECTROLYTIC CAP. 100μF/10V M | CE1AMASDL101 |
| C808 | | ELECTROLYTIC CAP. 100μF/10V M | CE1AMASDL101 |
| C809 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V | CHD1JZ30F104 |
| C810 | | CHIP CERAMIC CAP.(1608) B K 1μF/10V | CHD1AK30B105 |
| C811 | | ELECTROLYTIC CAP. 330μF/16V M | CE1CMASDL331 |
| C812 | | CHIP CERAMIC CAP.(1608) B K 1μF/10V | CHD1AK30B105 |
| C816 | | ELECTROLYTIC CAP. 22μF/50V M | CE1JMASDL220 |
| C818 | | ELECTROLYTIC CAP. 470μF/16V M | CE1CMASDL471 |
| C819 | | CHIP CERAMIC CAP. B K 3900pF/50V | CHD1JK30B392 |
| C820 | | CHIP CERAMIC CAP. B K 3900pF/50V | CHD1JK30B392 |
| C822 | | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C823 | | CHIP CERAMIC CAP.(1608) B K 1μF/10V | CHD1AK30B105 |
| C824 | | CHIP CERAMIC CAP.(1608) B K 1μF/10V | CHD1AK30B105 |
| C825 | | CHIP CERAMIC CAP.(1608) B K 1μF/10V | CHD1AK30B105 |
| C826 | | CHIP CERAMIC CAP.(1608) B K 1μF/10V | CHD1AK30B105 |
| C827 | | CHIP CERAMIC CAP.(1608) B K 1μF/10V | CHD1AK30B105 |
| C828 | | CHIP CERAMIC CAP.(1608) B K 0.1μF/16V | CHD1CK30B104 |
| C835 | | CHIP CERAMIC CAP.(1608) CH J 1000pF/50V | CHD1JJ3CH102 |
| C836 | | CHIP CERAMIC CAP.(1608) CH J 1000pF/50V | CHD1JJ3CH102 |
| C837 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V | CHD1JZ30F104 |
| C883 | | CHIP CERAMIC CAP.(1608) B K 1μF/10V | CHD1AK30B105 |
| C884 | | CHIP CERAMIC CAP.(1608) B K 1μF/10V | CHD1AK30B105 |
| C892 | | CHIP CERAMIC CAP.(1608) CH J 1000pF/50V | CHD1JJ3CH102 |
| C894 | | CHIP CERAMIC CAP.(1608) CH J 1000pF/50V | CHD1JJ3CH102 |
| C895 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |
| C896 | | CHIP CERAMIC CAP.(1608) CH J 100pF/50V | CHD1JJ3CH101 |
| C900 | | ELECTROLYTIC CAP 3300μF/10V or | CE1AMZNDL332 |
| | | ELECTROLYTIC CAP. 3300μF/10V M | CE1AMZPDL332 |
| C901 | | ELECTROLYTIC CAP. 2.2μF/50V M | CE1JMASDL2R2 |
| C902 | | ELECTROLYTIC CAP 3300μF/25V M or | CE1EMZPDL332 |
| | | ELECTROLYTIC CAP 3300μF/25V M | CE1EMZNDL332 |
| C903 | | ELECTROLYTIC CAP. 100μF/50V M | CE1JMASDL101 |
| C904 | | ELECTROLYTIC CAP. 330μF/25V M | CE1EMASDL331 |
| C905 | | ELECTROLYTIC CAP. 47μF/25V M | CE1EMASDL470 |
| C907 | | CAP ALUMINUM ELECTROLYTIC 2200μF/6.3V M or | CE0KMZNDL222 |
| | | ELECTROLYTIC CAP. 2200μF/6.3V M | CE0KMZPDL222 |
| C908 | | CERAMIC CAP. B K 470pF/500V | CCD2JKS0B471 |
| C909 | | POLYESTER FILM CAP. (PB FREE) 0.0027μF/100V J or | CA2A272DT018 |
| | | CAP POLYESTER FILM 0.0027μF/100V J | CA2A272SER02 |
| C910 | | ELECTROLYTIC CAP. 22μF/50V M | CE1JMASDL220 |
| C911 | | ELECTROLYTIC CAP. 470μF/16V M | CE1CMASDL471 |
| C912 | | ELECTROLYTIC CAP. 1μF/50V M | CE1JMASDL1R0 |
| C914 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V | CHD1JZ30F104 |
| C916 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V | CHD1JZ30F104 |
| C917 | | ELECTROLYTIC CAP. 1000μF/16V M | CE1CMASDL102 |
| C920 | | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C921 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V | CHD1JZ30F104 |
| C922 | | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C923 | | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C924 | | ELECTROLYTIC CAP. 220μF/16V M | CE1CMASDL221 |

| Ref. No. | Mark | Description | Part No. |
|-------------------|------|--|--------------|
| C925 | | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C926 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V | CHD1JZ30F104 |
| C927 | | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C940 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V | CHD1JZ30F104 |
| C941 | | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C951 | | ELECTROLYTIC CAP. 220μF/16V M | CE1CMASDL221 |
| C952 | | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C953 | | ELECTROLYTIC CAP. 330μF/10V M | CE1AMASDL331 |
| C958 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V | CHD1JZ30F104 |
| C999 | | CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V | CHD1JZ30F104 |
| CONNECTORS | | | |
| CN101A | | FMN CONNECTOR TOP25P 25FMN-BTK-A(LF)(SN) or | JCFNG25JG019 |
| | | FFC CONNECTOR IMSA-9615S-25A-PP-A | JC96J25ER007 |
| CN102A | | FMN CONNECTOR TOP25P 25FMN-BTK-A(LF)(SN) or | JCFNG25JG019 |
| | | FFC CONNECTOR IMSA-9615S-25A-PP-A | JC96J25ER007 |
| CN103A | | FMN CONNECTOR TOP 23P 23FMN-BTK-A(LF)(SN) or | JCFNG23JG019 |
| | | FFC CONNECTOR IMSA-9615S-23A-PP-A | JC96J23ER007 |
| CN104A | | FMN CONNECTOR TOP25P 25FMN-BTK-A(LF)(SN) or | JCFNG25JG019 |
| | | FFC CONNECTOR IMSA-9615S-25A-PP-A | JC96J25ER007 |
| CN105A | | 242 SERIES CONNECTOR 224202114W1 | J322C14TG001 |
| CN106 | | CONNECTOR PRINT OSU S6B-PH-K-S(LF)(SN) or | J3PHC06JG030 |
| | | CONNECTOR PRINT OSU C R 440055-6 | J344C06AP006 |
| CN107 | | FMN CONNECTOR TOP 8P 8FMN-BTK-A(LF)(SN) | JCFNG08JG019 |
| CN802 | | CONNECTOR PRINT OSU 008283021200000S+ or | J383C02UG004 |
| | | CONNECTOR PRINT OSU 2P 292161-2 | J31FC02AP001 |
| DIODES | | | |
| D501 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D610 | △ | ZENER DIODE MTZJT-7722B | QDTB00MTZJ22 |
| D611 | △ | DIODE 1N5399-B/P or | NDLZ001N5399 |
| △ | | DIODE 1N5399BE | NDL1001N5399 |
| D612 | | ZENER DIODE MTZJT-7710B | QDTB00MTZJ10 |
| D613 | △ | DIODE 1N5399-B/P or | NDLZ001N5399 |
| △ | | DIODE 1N5399BE | NDL1001N5399 |
| D614 | △ | DIODE 1N5399-B/P or | NDLZ001N5399 |
| △ | | DIODE 1N5399BE | NDL1001N5399 |
| D615 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D616 | △ | DIODE 1N5399-B/P or | NDLZ001N5399 |
| △ | | DIODE 1N5399BE | NDL1001N5399 |
| D621 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D622 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D624 | | DIODE ZENER 1ZC18(Q) or | QDLZ001ZC18Q |
| | | DIODE ZENER RD18F-T7-AZ-B or | QDJB0RD18FAZ |
| | | DIODE ZENER 1ZB18BB | NDWZ0001ZB18 |
| D629 | △ | ZENER DIODE MTZJT-7733B | QDTB00MTZJ33 |
| D701 | | ZENER DIODE MTZJT-7713B | QDTB00MTZJ13 |
| D702 | | ZENER DIODE MTZJT-7713B | QDTB00MTZJ13 |
| D755 | | ZENER DIODE MTZJT-773.3B | QDTB0MTZJ3R3 |
| D758 | | ZENER DIODE MTZJT-7713B | QDTB00MTZJ13 |
| D802 | △ | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| △ | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D803 | △ | ZENER DIODE MTZJT-776.2B | QDTB0MTZJ6R2 |
| D806 | | ZENER DIODE MTZJT-7715B | QDTB00MTZJ15 |
| D807 | | ZENER DIODE MTZJT-7715B | QDTB00MTZJ15 |

| Ref. No. | Mark | Description | Part No. |
|----------|------|-----------------------------------|---------------|
| D900 | △ | SCHOTTKY BARRIER DIODE SB360 or | NDQZ000SB360 |
| △ | | DIODE SCHOTTKY SB360BH | NDWZ000SB360 |
| D901 | | DIODE FR104BB or | NDL1000FR104 |
| | | DIODE FR104-B | NDL2000FR104 |
| D902 | △ | DIODE SCHOTTKY FD867-15L | QDWZFD86715L |
| D903 | △ | DIODE FR104BB or | NDL1000FR104 |
| △ | | DIODE FR104-B | NDL2000FR104 |
| D904 | △ | DIODE FR154 or | NDL2000FR154 |
| △ | | DIODE FR154BD | NDL1000FR154 |
| D905 | △ | DIODE FR104BB or | NDL1000FR104 |
| △ | | DIODE FR104-B | NDL2000FR104 |
| D906 | △ | SCHOTTKY BARRIER DIODE SB340 or | NDQZ000SB340 |
| △ | | SCHOTTKY BARRIER DIODE SB340 | NDWZ000SB340 |
| D907 | | ZENER DIODE MTZJT-7727B | QDTB00MTZJ27 |
| D908 | | DIODE 1ZC43(Q) or | QDLZ001ZC43Q |
| | | DIODE ZENER RD43F-T7-AZ-B or | QDJB0RD43FAZ |
| | | DIODE ZENER 1ZB43BB | NDWZ0001ZB43 |
| D909 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D910 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D911 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D912 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D913 | △ | ZENER DIODE MTZJT-775.6B | QDTB00MTZJ5R6 |
| D914 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| D915 | | ZENER DIODE MTZJT-7733B | QDTB00MTZJ33 |
| D916 | | IC SHUNT REGULATOR KIA431-AT/P or | NSZBA0TJY036 |
| | | IC SHUNT REGULATOR SL431A-AT or | NSZBA0TAUK01 |
| | | IC SHUNT REGULATOR AS431BZTR-E1 | NSZBA0TBCD01 |
| D917 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| D918 | | ZENER DIODE MTZJT-7712B | QDTB00MTZJ12 |
| D919 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D920 | | IC SHUNT REGULATOR KIA431-AT/P or | NSZBA0TJY036 |
| | | IC SHUNT REGULATOR SL431A-AT or | NSZBA0TAUK01 |
| | | IC SHUNT REGULATOR AS431BZTR-E1 | NSZBA0TBCD01 |
| D922 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D923 | | ZENER DIODE MTZJT-7724B | QDTB00MTZJ24 |
| D924 | △ | SCHOTTKY BARRIER DIODE SB270-B/P | NDWZ000SB270 |
| D925 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D926 | | ZENER DIODE MTZJT-7710B | QDTB00MTZJ10 |
| D927 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D928 | | ZENER DIODE MTZJT-777.5A | QDTA0MTZJ7R5 |
| D929 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D930 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D931 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D932 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D933 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D935 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D936 | | IC SHUNT REGULATOR KIA431-AT/P or | NSZBA0TJY036 |
| | | IC SHUNT REGULATOR SL431A-AT or | NSZBA0TAUK01 |
| | | IC SHUNT REGULATOR AS431BZTR-E1 | NSZBA0TBCD01 |
| D942 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D944 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |

| Ref. No. | Mark | Description | Part No. |
|--------------|------|---|--------------|
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D947 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D948 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D951 | | ZENER DIODE MTZJT-7715B | QDTB00MTZJ15 |
| D953 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D954 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D955 | | ZENER DIODE MTZJT-7739B | QDTB00MTZJ39 |
| D956 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D966 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D967 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D973 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D974 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D975 | | RECTIFIER DIODE 1N4005 or | NDQZ001N4005 |
| | | RECTIFIER DIODE 1N4005 | NDWZ001N4005 |
| D985 | | IC SHUNT REGULATOR KIA431-AT/P or | NSZBA0TJY036 |
| | | IC SHUNT REGULATOR SL431A-AT or | NSZBA0TAUK01 |
| | | IC SHUNT REGULATOR AS431BZTR-E1 | NSZBA0TBCD01 |
| D986 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D987 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D988 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D989 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D990 | △ | DIODE SCHOTTKY FD867-15L | QDWZFD86715L |
| D991 | | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| ICS | | | |
| IC601 | △ | PHOTO COUPLER PS2561L1-1-A-V(L) | QPEL561L11AV |
| IC801 | | IC AN17812A or | QSZBA0SMS017 |
| | | IC AUDIO SA7412 | NSZBA0SQ0007 |
| IC802 | | IC(AUDIO D/A) PCM1782DBQR | NSZBA0TTY192 |
| IC850 | | IC SWITCHING TC4052BF(ELNF) or | QSZBA0TTS162 |
| | | IC SWITCHING CD4052BNSR or | NSZBA0TTY091 |
| | | IC SWITCH HCF4052M013TR/SOP/16 or | NSZBA0TSS301 |
| | | IC SWITCH 4052L-S16-R/SOP-16 | NSZBA0TUTC03 |
| IC851 | | IC SWITCH TC4053BF(EL N F) or | QSZBA0TTS163 |
| | | IC SWITCH 4053L-S16-R or | NSZBA0TUTC04 |
| | | IC ANALOG MULTIPLEXERS HCF4053M013TR or | NSZBA0SSS002 |
| | | IC ANALOG MULTIPLEXER CD4053BNSR | NSZBA0TTY093 |
| IC900 | | IC VOLTAGE REGULATOR 5V KIA7805API/P or | NSZBA0SJY041 |
| | | IC REGULATOR L7805CV/TO-220/3PIN or | NSZBA0SSS304 |
| | | IC REGULATOR AS7805T-E1/TO-220-3 | NSZBA0SBCD03 |
| IC902 | | IC REGULATOR KIA278R00PI-U/P | NSZBA0SJY062 |
| COILS | | | |
| L501 | | INDUCTOR 10μH-K-5FT | LLARKBSTU100 |
| L502 | | INDUCTOR 10μH-K-5FT | LLARKBSTU100 |
| L503 | | INDUCTOR 10μH-K-5FT | LLARKBSTU100 |
| L601 | △ | COIL LINE FILTER JLB20108 | LLEG0Z0XB008 |
| L781 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| L838 | | INDUCTOR 2.2μH-J-26T | LLAXJATTU2R2 |
| L839 | | INDUCTOR 2.2μH-J-26T | LLAXJATTU2R2 |
| L840 | | INDUCTOR 2.2μH-J-26T | LLAXJATTU2R2 |

| Ref. No. | Mark | Description | Part No. |
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| TRANSISTORS | | | |
| Q505 | | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | | TRANSISTOR 2SA1015-Y(Te2 F T) or | QQS2SA1015F |
| | | TRANSISTOR 2SA1015-GR(Te2 F T) or | QQS12SA1015F |
| | | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q600 | △ | MOS FET 2SK3798(Q) or | QFWZ2SK3798Q |
| △ | | MOS FET 2SK3798(Q.M) | QFQZSK3798QM |
| Q601 | △ | TRANSISTOR 2SC2120-Q(Te2 F T) or | QQS02SC2120F |
| △ | | TRANSISTOR 2SC2120-Y(Te2 F T) or | QQSY2SC2120F |
| △ | | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| △ | | NPN TRANSISTOR 2SC5344 Y | NQSY02SC5344 |
| Q726 | | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | | TRANSISTOR 2SA1015-Y(Te2 F T) or | QQS2SA1015F |
| | | TRANSISTOR 2SA1015-GR(Te2 F T) or | QQS12SA1015F |
| | | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q727 | | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | | TRANSISTOR 2SA1015-Y(Te2 F T) or | QQS2SA1015F |
| | | TRANSISTOR 2SA1015-GR(Te2 F T) or | QQS12SA1015F |
| | | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q731 | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | | TRANSISTOR 2SC1815-GR(Te2 F T) or | QQS12SC1815F |
| | | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | | NPN TRANSISTOR 2SC5343MG-AT | NQSG2SC5343M |
| Q734 | | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | | TRANSISTOR 2SA1015-Y(Te2 F T) or | QQS2SA1015F |
| | | TRANSISTOR 2SA1015-GR(Te2 F T) or | QQS12SA1015F |
| | | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q744 | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | | TRANSISTOR 2SC1815-GR(Te2 F T) or | QQS12SC1815F |
| | | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | | NPN TRANSISTOR 2SC5343MG-AT | NQSG2SC5343M |
| Q802 | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | | TRANSISTOR 2SC1815-GR(Te2 F T) or | QQS12SC1815F |
| | | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | | NPN TRANSISTOR 2SC5343MG-AT | NQSG2SC5343M |
| Q805 | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | | TRANSISTOR 2SC1815-GR(Te2 F T) or | QQS12SC1815F |
| | | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | | NPN TRANSISTOR 2SC5343MG-AT | NQSG2SC5343M |
| Q900 | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | | TRANSISTOR 2SC1815-GR(Te2 F T) or | QQS12SC1815F |
| | | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | | NPN TRANSISTOR 2SC5343MG-AT | NQSG2SC5343M |
| Q901 | | TRANSISTOR 2SC2120-Q(Te2 F T) or | QQS02SC2120F |
| | | TRANSISTOR 2SC2120-Y(Te2 F T) or | QQSY2SC2120F |
| | | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | | NPN TRANSISTOR 2SC5344 Y | NQSY02SC5344 |
| Q902 | | TRANSISTOR 2SC2120-Q(Te2 F T) or | QQS02SC2120F |
| | | TRANSISTOR 2SC2120-Y(Te2 F T) or | QQSY2SC2120F |
| | | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | | NPN TRANSISTOR 2SC5344 Y | NQSY02SC5344 |
| Q903 | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | | TRANSISTOR 2SC1815-GR(Te2 F T) or | QQS12SC1815F |

| Ref. No. | Mark | Description | Part No. |
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| | | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | | NPN TRANSISTOR 2SC5343MG-AT | NQSG2SC5343M |
| Q904 | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | | TRANSISTOR 2SC1815-GR(Te2 F T) or | QQS12SC1815F |
| | | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | | NPN TRANSISTOR 2SC5343MG-AT | NQSG2SC5343M |
| Q906 | | TRANSISTOR 2SC2120-Q(Te2 F T) or | QQS02SC2120F |
| | | TRANSISTOR 2SC2120-Y(Te2 F T) or | QQSY2SC2120F |
| | | TRANSISTOR KTC3203-Y-AT/P or | NQSYKTC3203P |
| | | NPN TRANSISTOR 2SC5344 Y | NQSY02SC5344 |
| Q907 | | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | | TRANSISTOR 2SA1015-Y(Te2 F T) or | QQS2SA1015F |
| | | TRANSISTOR 2SA1015-GR(Te2 F T) or | QQS12SA1015F |
| | | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q908 | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | | TRANSISTOR 2SC1815-GR(Te2 F T) or | QQS12SC1815F |
| | | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | | NPN TRANSISTOR 2SC5343MG-AT | NQSG2SC5343M |
| Q911 | | TRANSISTOR KTA1267-GR-AT/P or | NQS1KTA1267P |
| | | TRANSISTOR KTA-1266-GR-AT/P or | NQS4KTA1266P |
| | | TRANSISTOR 2SA1015-Y(Te2 F T) or | QQS2SA1015F |
| | | TRANSISTOR 2SA1015-GR(Te2 F T) or | QQS12SA1015F |
| | | PNP TRANSISTOR 2SA1980 G or | NQSG02SA1980 |
| | | PNP TRANSISTOR 2SA1980MG-AT | NQSG2SA1980M |
| Q912 | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | | TRANSISTOR 2SC1815-GR(Te2 F T) or | QQS12SC1815F |
| | | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | | NPN TRANSISTOR 2SC5343MG-AT | NQSG2SC5343M |
| Q920 | | TRANSISTOR KTC3199-GR-AT/P or | NQS4KTC3199P |
| | | TRANSISTOR KTC3198-GR-AT/P or | NQS4KTC3198P |
| | | TRANSISTOR 2SC1815-GR(Te2 F T) or | QQS12SC1815F |
| | | NPN TRANSISTOR 2SC5343G-AT or | NQSG02SC5343 |
| | | NPN TRANSISTOR 2SC5343MG-AT | NQSG2SC5343M |
| Q922 | | TRANSISTOR KTD2059-O/P or | NQE0KTD2059P |
| | | TRANSISTOR KTD2059-Y/P | NQEYKTD2059P |
| Q936 | | NPN TRANSISTOR POWER 2SC4881F HFE MAX320 or | QQWZ2SC4881F |
| | | TRANSISTOR(PB FREE) KTC2026-Y/P or | NQEYKTC2026P |
| | | NPN TRANSISTOR STC403 | NQEZ00STC403 |
| RESISTORS | | | |
| R2 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R3 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R6 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R7 | | CARBON RES. 1/4W J 220 Ω | RCX4JATZ0221 |
| R8 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R9 | | CARBON RES. 1/4W J 47 Ω | RCX4JATZ0470 |
| R102 | | CHIP RES. 1/10W J 10 Ω or | RRXAJR5Z0100 |
| | | RES CHIP 1608 1/10W J 10 Ω | RRXA100YF002 |
| R103 | | CHIP RES. 1/10W J 10 Ω or | RRXAJR5Z0100 |
| | | RES CHIP 1608 1/10W J 10 Ω | RRXA100YF002 |
| R525 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R529 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R600 | △ | RES CARBON 1/2W J 1M Ω or | RCX2105DP006 |
| △ | | GLASS GLAZE RES. 1/2W J 1M Ω | RXX2JLZ0105 |
| R610 | △ | CEMENT RESISTOR 5W K 1.2 Ω or | RW051R2PG001 |

| Ref. No. | Mark | Description | Part No. |
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| | | CEMENT RESISTOR 5W J 1.2 Ω H 10MM | RW051R2PAK10 |
| R620 | | CARBON RES. 1/4W J 820k Ω | RCX4JATZ0824 |
| R621 | | CARBON RES. 1/4W J 820k Ω | RCX4JATZ0824 |
| R622 | | CARBON RES. 1/4W J 820k Ω | RCX4JATZ0824 |
| R623 | | CARBON RES. 1/4W J 820k Ω | RCX4JATZ0824 |
| R624 | | CARBON RES. 1/4W J 390k Ω | RCX4JATZ0394 |
| R632 | | CARBON RES. 1/4W J 390 Ω | RCX4JATZ0391 |
| R633 | | CARBON RES. 1/4W J 390 Ω | RCX4JATZ0391 |
| R634 | | CARBON RES. 1/4W J 180 Ω | RCX4JATZ0181 |
| R635 | | CARBON RES. 1/4W J 1.2k Ω | RCX4JATZ0122 |
| R636 | | METAL OXIDE FILM RES. 2W J 0.68 Ω or | RN02R68ZU001 |
| | | METAL OXIDE FILM RES. 2W J 0.68 Ω | RN02R68DP004 |
| R637 | | CARBON RES. 1/4W J 560 Ω | RCX4JATZ0561 |
| R638 | | CARBON RES. 1/4W J 5.6k Ω | RCX4JATZ0562 |
| R639 | | CARBON RES. 1/4W J 180 Ω | RCX4JATZ0181 |
| R701 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R702 | | CARBON RES. 1/4W J 100 Ω | RCX4JATZ0101 |
| R704 | | CARBON RES. 1/4W J 470 Ω | RCX4JATZ0471 |
| R706 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R707 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R708 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R713 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R714 | | CARBON RES. 1/4W J 100 Ω | RCX4JATZ0101 |
| R716 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R717 | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R718 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R719 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R720 | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R721 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R722 | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R723 | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R729 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R730 | | CARBON RES. 1/4W J 470 Ω | RCX4JATZ0471 |
| R732 | | CHIP RES. 1/10W J 470 Ω or | RRXAJR5Z0471 |
| | | RES CHIP 1608 1/10W J 470 Ω | RRXA471YF002 |
| R737 | | CARBON RES. 1/4W J 470 Ω | RCX4JATZ0471 |
| R738 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R739 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R740 | | CHIP RES. 1/10W J 47 Ω or | RRXAJR5Z0470 |
| | | RES CHIP 1608 1/10W J 47 Ω | RRXA470YF002 |
| R741 | | CARBON RES. 1/4W J 560 Ω | RCX4JATZ0561 |
| R746 | | CARBON RES. 1/4W J 560 Ω | RCX4JATZ0561 |
| R751 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R752 | | CARBON RES. 1/4W J 100 Ω | RCX4JATZ0101 |
| R756 | | CARBON RES. 1/4W J 4.7k Ω | RCX4JATZ0472 |
| R757 | | CHIP RES. 1/10W J 6.8k Ω or | RRXAJR5Z0682 |
| | | RES CHIP 1608 1/10W J 6.8k Ω | RRXA682YF002 |
| R758 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R759 | | CARBON RES. 1/4W J 100 Ω | RCX4JATZ0101 |
| R761 | | CARBON RES. 1/4W J 470 Ω | RCX4JATZ0471 |
| R762 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |

| Ref. No. | Mark | Description | Part No. |
|----------|------|-------------------------------------|--------------|
| R763 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R764 | | CARBON RES. 1/4W J 75 Ω | RCX4JATZ0750 |
| R765 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R766 | | CARBON RES. 1/4W J 100 Ω | RCX4JATZ0101 |
| R767 | | CHIP RES. 1/10W J 1.2k Ω or | RRXAJR5Z0122 |
| | | RES CHIP 1608 1/10W J 1.2k Ω | RRXA122YF002 |
| R768 | | CARBON RES. 1/4W J 470 Ω | RCX4JATZ0471 |
| R770 | | CHIP RES. 1/10W J 75 Ω or | RRXAJR5Z0750 |
| | | RES CHIP 1608 1/10W J 75 Ω | RRXA750YF002 |
| R771 | | CARBON RES. 1/4W J 100 Ω | RCX4JATZ0101 |
| R775 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R776 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R777 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R778 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R779 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R780 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R781 | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R782 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R783 | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R784 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R785 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R786 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R787 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R788 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R793 | | CHIP RES. 1/10W J 39k Ω or | RRXAJR5Z0393 |
| | | RES CHIP 1608 1/10W J 39k Ω | RRXA393YF002 |
| R794 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R797 | | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R801 | | CHIP RES. 1/10W J 56k Ω or | RRXAJR5Z0563 |
| | | RES CHIP 1608 1/10W J 56k Ω | RRXA563YF002 |
| R802 | | CHIP RES. 1/10W J 27k Ω or | RRXAJR5Z0273 |
| | | RES CHIP 1608 1/10W J 27k Ω | RRXA273YF002 |
| R805 | | METAL OXIDE FILM RES. 2W J 4.7 Ω or | RN024R7ZU001 |
| | | METAL OXIDE FILM RES. 2W J 4.7 Ω | RN024R7DP004 |
| R807 | | METAL OXIDE FILM RES. 2W J 3.9 Ω or | RN023R9ZU001 |
| | | METAL OXIDE FILM RES. 2W J 3.9 Ω | RN023R9DP004 |
| R808 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R809 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R811 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R812 | | CHIP RES. 1/10W J 2.2k Ω or | RRXAJR5Z0222 |
| | | RES CHIP 1608 1/10W J 2.2k Ω | RRXA222YF002 |
| R813 | | CARBON RES. 1/4W J 10k Ω | RCX4JATZ0103 |
| R814 | | CHIP RES. 1/10W J 3.9k Ω or | RRXAJR5Z0392 |
| | | RES CHIP 1608 1/10W J 3.9k Ω | RRXA392YF002 |
| R816 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R817 | | CHIP RES. 1/10W J 3.9k Ω or | RRXAJR5Z0392 |
| | | RES CHIP 1608 1/10W J 3.9k Ω | RRXA392YF002 |

| Ref. No. | Mark | Description | Part No. |
|----------|------|-------------------------------------|--------------|
| R818 | | CHIP RES. 1/10W J 22k Ω or | RRXAJR5Z0223 |
| | | RES CHIP 1608 1/10W J 22k Ω | RRXA223YF002 |
| R822 | | CHIP RES. 1/10W J 22k Ω or | RRXAJR5Z0223 |
| | | RES CHIP 1608 1/10W J 22k Ω | RRXA223YF002 |
| R824 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R825 | | CARBON RES. 1/4W J 10k Ω | RCX4JATZ0103 |
| R829 | | CARBON RES. 1/4W J 120 Ω | RCX4JATZ0121 |
| R830 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R831 | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R832 | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R833 | | CHIP RES. 1/10W J 33 Ω or | RRXAJR5Z0330 |
| | | RES CHIP 1608 1/10W J 33 Ω | RRXA330YF002 |
| R834 | | CHIP RES. 1/10W J 33 Ω or | RRXAJR5Z0330 |
| | | RES CHIP 1608 1/10W J 33 Ω | RRXA330YF002 |
| R835 | | CHIP RES. 1/10W J 33 Ω or | RRXAJR5Z0330 |
| | | RES CHIP 1608 1/10W J 33 Ω | RRXA330YF002 |
| R836 | | CHIP RES. 1/10W J 33 Ω or | RRXAJR5Z0330 |
| | | RES CHIP 1608 1/10W J 33 Ω | RRXA330YF002 |
| R837 | | CARBON RES. 1/4W J 180 Ω | RCX4JATZ0181 |
| R838 | | CARBON RES. 1/4W J 180 Ω | RCX4JATZ0181 |
| R839 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R840 | | CHIP RES. 1/10W J 12k Ω or | RRXAJR5Z0123 |
| | | RES CHIP 1608 1/10W J 12k Ω | RRXA123YF002 |
| R842 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R843 | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R844 | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R845 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R846 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R847 | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R848 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R849 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R850 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R852 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R854 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R855 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R856 | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R857 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R858 | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R859 | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R890 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R891 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R892 | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R893 | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R894 | | CHIP RES. 1/10W J 100k Ω or | RRXAJR5Z0104 |
| | | RES CHIP 1608 1/10W J 100k Ω | RRXA104YF002 |
| R895 | | CARBON RES. 1/4W J 100k Ω | RCX4JATZ0104 |
| R896 | | CHIP RES. 1/10W J 27k Ω or | RRXAJR5Z0273 |
| | | RES CHIP 1608 1/10W J 27k Ω | RRXA273YF002 |
| R897 | | CHIP RES. 1/10W J 27k Ω or | RRXAJR5Z0273 |
| | | RES CHIP 1608 1/10W J 27k Ω | RRXA273YF002 |
| R900 | | CARBON RES. 1/4W J 3.3 Ω | RCX4JATZ03R3 |
| R904 | | CARBON RES. 1/4W J 12k Ω | RCX4JATZ0123 |

| Ref. No. | Mark | Description | Part No. |
|----------|------|---|--------------|
| R906 | | CHIP RES. 1/10W F 3.9k Ω or | RRXAFR5H3901 |
| | | RES CHIP (1608) 1/10W F 3.9k Ω or | RRXAFR5Z3901 |
| | | RES CHIP 1608 1/10W F 3.90k Ω | RTW3901YF002 |
| R907 | | CHIP RES. 1/10W F 4.7k Ω or | RRXAFR5H4701 |
| | | RES CHIP 1608 1/10W F 4.7k Ω | RRXAFR5Z0472 |
| | | RES CHIP 1608 1/10W F 4.70k Ω | RTW4701YF002 |
| R908 | | CHIP RES. 1/10W F 3.9k Ω or | RRXAFR5H3901 |
| | | RES CHIP (1608) 1/10W F 3.9k Ω or | RRXAFR5Z3901 |
| | | RES CHIP 1608 1/10W F 3.90k Ω | RTW3901YF002 |
| R909 | | CHIP RES. 1/10W F 3.9k Ω or | RRXAFR5H3901 |
| | | RES CHIP (1608) 1/10W F 3.9k Ω or | RRXAFR5Z3901 |
| | | RES CHIP 1608 1/10W F 3.90k Ω | RTW3901YF002 |
| R910 | | CHIP RES. 1/10W F 820 Ω or | RRXAFR5H8200 |
| | | RES CHIP (1608) 1/10W F 820 Ω or | RRXAFR5Z8200 |
| | | RES CHIP 1608 1/10W F 820 Ω | RTW8200YF002 |
| R911 | | CHIP RES. 1/10W F 5.6k Ω or | RRXAFR5H5601 |
| | | RES CHIP 1608 1/10W F 5.6k Ω | RRXAFR5Z0562 |
| | | RES CHIP 1608 1/10W F 5.60k Ω | RTW5601YF002 |
| R912 | | CHIP RES. 1/10W F 240 Ω or | RRXAFR5H2400 |
| | | RES CHIP (1608) 1/10W F 240 Ω or | RRXAFR5Z2400 |
| | | RES CHIP 1608 1/10W F 240 Ω | RTW2400YF002 |
| R913 | | CHIP RES. 1/10W F 240 Ω or | RRXAFR5H2400 |
| | | RES CHIP (1608) 1/10W F 240 Ω or | RRXAFR5Z2400 |
| | | RES CHIP 1608 1/10W F 240 Ω | RTW2400YF002 |
| R914 | | CHIP RES. 1/10W F 240 Ω or | RRXAFR5H2400 |
| | | RES CHIP (1608) 1/10W F 240 Ω or | RRXAFR5Z2400 |
| | | RES CHIP 1608 1/10W F 240 Ω | RTW2400YF002 |
| R915 | | CHIP RES. 1/10W F 240 Ω or | RRXAFR5H2400 |
| | | RES CHIP (1608) 1/10W F 240 Ω or | RRXAFR5Z2400 |
| | | RES CHIP 1608 1/10W F 240 Ω | RTW2400YF002 |
| R916 | | CHIP RES. 1/10W J 180 Ω or | RRXAJR5Z0181 |
| | | RES CHIP 1608 1/10W J 180 Ω | RRXA181YF002 |
| R917 | | CARBON RES. 1/4W J 270 Ω | RCX4JATZ0271 |
| R918 | | CARBON RES. 1/4W J 6.8k Ω | RCX4JATZ0682 |
| R919 | | METAL OXIDE FILM RES. 1W 470 Ω or | RN01471DP003 |
| | | METAL OXIDE FILM RES. 1W J 470 Ω | RN01471ZU001 |
| R920 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R921 | | CHIP RES. 1/10W J 68k Ω or | RRXAJR5Z0683 |
| | | RES CHIP 1608 1/10W J 68k Ω | RRXA683YF002 |
| R922 | | METAL OXIDE FILM RES. 2W J 12 Ω or | RN02120ZU001 |
| | | METAL OXIDE FILM RES. 2W J 12 Ω | RN02120DP004 |
| R923 | | CARBON RES. 1/4W J 1k Ω | RCX4JATZ0102 |
| R925 | | CHIP RES. 1/10W F 3.3k Ω or | RRXAFR5H3301 |
| | | RES CHIP (1608) 1/10W F 3.3k Ω or | RRXAFR5Z3301 |
| | | RES CHIP 1608 1/10W F 3.30k Ω | RTW3301YF002 |
| R926 | | CHIP RES. 1/10W F 9.1k Ω or | RRXAFR5H9101 |
| | | RES CHIP 1608 1/10W F 9.1k Ω or | RRXAFR5Z0912 |
| | | RES CHIP 1608 1/10W F 9.10k Ω | RTW9101YF002 |
| R928 | | CARBON RES. 1/4W J 2.7k Ω | RCX4JATZ0272 |
| R929 | | CARBON RES. 1/4W J 100 Ω | RCX4JATZ0101 |
| R930 | | CHIP RES. 1/10W F 3k Ω or | RRXAFR5H3001 |
| | | RES CHIP 1608 1/10W F 3.0k Ω or | RRXAFR5Z3001 |
| | | RES CHIP 1608 1/10W F 3.00k Ω | RTW3001YF002 |
| R931 | | CHIP RES. 1/10W F 9.1k Ω or | RRXAFR5H9101 |
| | | RES CHIP 1608 1/10W F 9.1k Ω or | RRXAFR5Z0912 |
| | | RES CHIP 1608 1/10W F 9.10k Ω | RTW9101YF002 |
| R936 | | CHIP RES. 1/10W J 150 Ω or | RRXAJR5Z0151 |
| | | RES CHIP 1608 1/10W J 150 Ω | RRXA151YF002 |
| R937 | | CHIP RES. 1/10W J 2.7k Ω or | RRXAJR5Z0272 |
| | | RES CHIP 1608 1/10W J 2.7k Ω | RRXA272YF002 |
| R938 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R939 | | METAL RESISTOR. 2W J 0.82 Ω or | RN02R82ZU001 |
| | | METAL OXIDE FILM RES. 2W J 0.82 Ω | RN02R82DP004 |
| R940 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R941 | | PCB JUMPER D0.6-P5.0 | JW5.0T |

| Ref. No. | Mark | Description | Part No. |
|----------|------|-------------------------------------|--------------|
| R942 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R943 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R944 | | CARBON RES. 1/4W J 2.7k Ω | RCX4JATZ0272 |
| R945 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R947 | | CARBON RES. 1/4W J 47k Ω | RCX4JATZ0473 |
| R948 | | METAL RESISTOR. 2W J 0.82 Ω or | RN02R82ZU001 |
| | | METAL OXIDE FILM RES. 2W J 0.82 Ω | RN02R82DP004 |
| R949 | | CARBON RES. 1/4W J 1.8k Ω | RCX4JATZ0182 |
| R950 | | CARBON RES. 1/4W J 270 Ω | RCX4JATZ0271 |
| R953 | | METAL RESISTOR 2W J 39 Ω or | RN02390ZU001 |
| | | METAL OXIDE FILM RES. 2W J 39 Ω | RN02390DP004 |
| R954 | | METAL OXIDE FILM RES. 2W J 12 Ω or | RN02120ZU001 |
| | | METAL OXIDE FILM RES. 2W J 12 Ω | RN02120DP004 |
| R955 | | METAL RESISTOR 2W J 39 Ω or | RN02390ZU001 |
| | | METAL OXIDE FILM RES. 2W J 39 Ω | RN02390DP004 |
| R958 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R959 | | CHIP RES. 1/10W F 12k Ω or | RRXAFR5H1202 |
| | | CHIP RES.(1608) 1/10W F 12k Ω or | RRXAFR5Z1202 |
| | | RES CHIP 1608 1/10W F 12.0k Ω | RTW1202YF002 |
| R960 | | CHIP RES. 1/10W F 620 Ω or | RRXAFR5H6200 |
| | | CHIP RES. 1/10W F 620 Ω or | RRXAFR5Z6200 |
| | | RES CHIP 1608 1/10W F 620 Ω | RTW6200YF002 |
| R961 | | CHIP RES. 1/10W F 3k Ω or | RRXAFR5H3001 |
| | | CHIP RES. 1/10W F 3.0k Ω or | RRXAFR5Z3001 |
| | | RES CHIP 1608 1/10W F 3.00k Ω | RTW3001YF002 |
| R962 | | CARBON RES. 1/4W J 270 Ω | RCX4JATZ0271 |
| R963 | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R964 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R965 | | CARBON RES. 1/4W J 27k Ω | RCX4JATZ0273 |
| R966 | | CHIP RES. 1/10W J 3.3k Ω or | RRXAJR5Z0332 |
| | | RES CHIP 1608 1/10W J 3.3k Ω | RRXA332YF002 |
| R967 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R968 | | CARBON RES. 1/4W J 2.7k Ω | RCX4JATZ0272 |
| R969 | | CHIP RES. 1/10W J 3.3k Ω or | RRXAJR5Z0332 |
| | | RES CHIP 1608 1/10W J 3.3k Ω | RRXA332YF002 |
| R970 | | CHIP RES. 1/10W J 3.3k Ω or | RRXAJR5Z0332 |
| | | RES CHIP 1608 1/10W J 3.3k Ω | RRXA332YF002 |
| R971 | | CHIP RES. 1/10W F 8.2k Ω or | RRXAFR5H8201 |
| | | CHIP RES. 1/10W F 8.2k Ω or | RRXAFR5Z0822 |
| | | RES CHIP 1608 1/10W F 8.20k Ω | RTW8201YF002 |
| R972 | | CHIP RES. 1/10W F 5.1k Ω or | RRXAFR5H5101 |
| | | CHIP RES. 1/10W F 5.1k Ω or | RRXAFR5Z0512 |
| | | RES CHIP 1608 1/10W F 5.10k Ω | RTW5101YF002 |
| R973 | | CARBON RES. 1/4W J 270 Ω | RCX4JATZ0271 |
| R974 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R976 | | CHIP RES. 1/10W F 5.6k Ω or | RRXAFR5H5601 |
| | | CHIP RES. 1/10W F 5.6k Ω or | RRXAFR5Z0562 |
| | | RES CHIP 1608 1/10W F 5.60k Ω | RTW5601YF002 |
| R977 | | CHIP RES. 1/10W J 2.7k Ω or | RRXAJR5Z0272 |
| | | RES CHIP 1608 1/10W J 2.7k Ω | RRXA272YF002 |
| R978 | | CHIP RES. 1/10W J 8.2k Ω or | RRXAJR5Z0822 |
| | | RES CHIP 1608 1/10W J 8.2k Ω | RRXA822YF002 |
| R979 | | METAL OXIDE FILM RES. 1W J 270 Ω or | RN01271DP003 |
| | | METAL OXIDE FILM RES. 1W J 270 Ω | RN01271ZU001 |
| R980 | | CARBON RES. 1/4W J 1k Ω | RCX4JATZ0102 |
| R981 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R982 | | CHIP RES. 1/10W F 5.6k Ω or | RRXAFR5H5601 |
| | | CHIP RES. 1/10W F 5.6k Ω or | RRXAFR5Z0562 |
| | | RES CHIP 1608 1/10W F 5.60k Ω | RTW5601YF002 |
| R983 | | CHIP RES. 1/10W J 6.8k Ω or | RRXAJR5Z0682 |

| Ref. No. | Mark | Description | Part No. |
|----------------------|------|--|--------------|
| | | RES CHIP 1608 1/10W J 6.8k Ω | RRXA682YF002 |
| R984 | △ | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| △ | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| R985 | | CARBON RES. 1/4W J 2.7k Ω | RCX4JATZ0272 |
| R986 | △ | CHIP RES. 1/10W F 240 Ω or | RRXAFR5H2400 |
| △ | | CHIP RES.(1608) 1/10W F 240 Ω or | RRXAFR5Z2400 |
| △ | | RES CHIP 1608 1/10W F 240 Ω | RTW2400YF002 |
| R987 | | CHIP RES. 1/10W J 100 Ω or | RRXAJR5Z0101 |
| | | RES CHIP 1608 1/10W J 100 Ω | RRXA101YF002 |
| R992 | | CARBON RES. 1/4W J 47k Ω | RCX4JATZ0473 |
| R994 | | CHIP RES. 1/10W F 3.3k Ω or | RRXAFR5H3301 |
| | | CHIP RES.(1608) 1/10W F 3.3k Ω or | RRXAFR5Z3301 |
| | | RES CHIP 1608 1/10W F 3.30k Ω | RTW3301YF002 |
| R995 | | CHIP RES. 1/10W F 43.0 k Ω or | RRXAFR5H4302 |
| | | RES CHIP 1608 1/10W F 43k Ω or | RRXAFR5Z4302 |
| | | RES CHIP 1608 1/10W F 43.0k Ω | RTW4302YF002 |
| R997 | | METAL OXIDE FILM RES. 2W J 0.22 Ω or | RN02R22ZU001 |
| | | METAL OXIDE FILM RES. 2W J 0.22 Ω | RN02R22DP004 |
| MISCELLANEOUS | | | |
| AC601 | △ A | AC CORD PE8G2CG9G0A-059 or | WAE0172LW010 |
| △ | A | AC CORD P205-1503-2 | WAE0172K5001 |
| AC601 | △ B | AC CORD PE8G2CG9G9D-059 or | WAE9172LW002 |
| △ | B | AC CORD P205-1517-2 | WAE9172K5001 |
| B22 | | HEAT SINK PMS ASSEMBLY A8CN0FP | 1EM426337A |
| B41 | | HEAT SINK PMT ASSEMBLY A8C70EP | 1EM426357 |
| B42 | | HEAT SINK PMW A8C70EP | 1EM426760 |
| BC601 | | BEADS INDUCTOR FBR07HA121SB-00 | LLBF00STU030 |
| BC602 | | BEADS INDUCTOR FBR07HA121SB-00 | LLBF00STU030 |
| BC603 | | BEADS INDUCTOR FBR07HA121SB-00 | LLBF00STU030 |
| BC750 | | BEADS INDUCTOR FBR07HA121SB-00 | LLBF00STU030 |
| BC801 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| BC802 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| BC803 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| BC903 | | BEADS INDUCTOR FBR07HA121SB-00 | LLBF00STU030 |
| F601 | △ | FUSE 4A/250V(PB FREE) 0215004.MXP | PBGZ20BAG021 |
| FH601 | | FUSE HOLDER MSF-015 LF (B110) | XH01200LY002 |
| FH602 | | FUSE HOLDER MSF-015 LF (B110) | XH01200LY002 |
| JK721 | | JACK SW DIN PCB S 04/DIN-417HA-01 or | JYEJ040YUQ03 |
| | | JACK SW DIN PCB S 04 MDC-076H-A LF | JYEJ040LY002 |
| JK722 | | JACK RCA PCB S YELLOW 01/RCA-101H(YL) or | JXRJ010YUQ05 |
| | | JACK RCA PCB S (YELLOW) 01 MTJ-032-04B-40 FE | JXRJ010LY032 |
| JK723 | | JACK RCA PCB S WHITE 01/RCA-101H(WH) or | JXRJ010YUQ02 |
| | | JACK RCA PCB S (WHITE) 01 MTJ-032-04B-41 FE | JXRJ010LY031 |
| JK724 | | JACK SW RCA PCB S RED RCA-102H(RD) or | JYRJ010YUQ03 |
| | | JACK SW RCA PCB S (RED) 01 MTJ-032-04A-75 FE | JYRJ010LY031 |
| JK725 | | JACK HPEP SML PCB S PJ-358H or | JXSJ020YUQ01 |
| | | JACK HPEP SML PCB S 02 MSJ-035-29D (ABS) | JXSJ020LY001 |
| JK751 | | JACK RGB PCB S 21PIN / MRC-021H-02 | JXGJ210LY001 |
| JK801 | | JACK SE HPEP SML PCM S MSJ-035-04A LF or | JYSJ020LY002 |
| | | JACK SW HPEP SML PCB S PJ-362H-7 | JYSJ020YUQ02 |
| L9 | | SCREW B-TIGHT D3X8 BIND HEAD+ | GBJB3080 |
| SA601 | △ | SURGE ABSORBER 470V+10PER or | NVQZ10D471KB |
| △ | | VARISTOR 10D 471K SVR | NVQZVR10D471 |
| T601 | △ | SW-TRANS 8719 or | LTT3PEOKT046 |
| △ | | SW-TRANS BCK-35-0554 | LTT3PEOXB040 |
| TM601 | | EYELET TYPE D-1 | 0VM406868 |
| TM602 | | EYELET TYPE D-1 | 0VM406868 |

IR SENSOR CBA

| Ref. No. | Mark | Description | Part No. |
|----------------------|------|---|--------------|
| | | IR SENSOR CBA Consists of the following: | ----- |
| CAPACITOR | | | |
| C301 | | ELECTROLYTIC CAP. 2.2 μ F/50V M H7 | CE1JMAVSL2R2 |
| DIODES | | | |
| D301 | | ZENER DIODE MTZJT-775.6B | QDTB0MTZJ5R6 |
| D302 | | LED(GREEN) LTL-4234 or | NPWZ0LTL4234 |
| | | LED GREEN 333GT/E(FNA) or | NPWZ33GTEFNA |
| | | LED 333GT/E | NPHZ00333GTE |
| D303 | | LED 333HT/E-L or | NPHL00333HTE |
| | | LED 333HT/E-K or | NPHK00333HTE |
| | | LED L-53HT | NP4Z000L53HT |
| RESISTORS | | | |
| R301 | | CARBON RES. 1/4W J 120 Ω | RCX4JATZ0121 |
| R302 | | CHIP RES. 1/10W J 330 Ω or | RRXAJR5Z0331 |
| | | RES CHIP 1608 1/10W J 330 Ω | RRXA331YF002 |
| R303 | | CHIP RES. 1/10W J 330 Ω or | RRXAJR5Z0331 |
| | | RES CHIP 1608 1/10W J 330 Ω | RRXA331YF002 |
| R304 | | CHIP RES. 1/10W J 3.3k Ω or | RRXAJR5Z0332 |
| | | RES CHIP 1608 1/10W J 3.3k Ω | RRXA332YF002 |
| R308 | | CHIP RES.(1608) 1/10W 0 Ω or | RRXAZR5Z0000 |
| | | RES CHIP 1608 1/10W J 0 Ω | RRXA000YF002 |
| MISCELLANEOUS | | | |
| RS301 | | SENSOR REMOTE RECEIVER KSM-712TH2E | USESJRSKK044 |

FUNCTION CBA

| Ref. No. | Mark | Description | Part No. |
|-------------------|------|---|--------------|
| | | FUNCTION CBA Consists of the following: | ----- |
| CAPACITORS | | | |
| C201 | | CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/50V | CHD1JZ30F104 |
| C202 | | CHIP CERAMIC CAP.(1608) F Z 0.1 μ F/50V | CHD1JZ30F104 |
| CONNECTORS | | | |
| CN201 | | WIRE ASSEMBLY 6PIN WX1A8C70-003 | WX1A8C70-003 |
| CN202 | | WIRE ASSEMBLY 5PIN WX1A8C70-001 | WX1A8C70-001 |
| DIODES | | | |
| D201 | | ZENER DIODE MTZJT-775.6B | QDTB0MTZJ5R6 |
| D202 | | ZENER DIODE MTZJT-775.6B | QDTB0MTZJ5R6 |
| D203 | | ZENER DIODE MTZJT-775.6B | QDTB0MTZJ5R6 |
| RESISTORS | | | |
| R201 | | CARBON RES. 1/4W G 10k Ω | RCX4GATZ0103 |
| R202 | | CARBON RES. 1/4W J 220 Ω | RCX4JATZ0221 |
| R203 | | CARBON RES. 1/4W G 1.5k Ω | RCX4GATZ0152 |
| R204 | | CARBON RES. 1/4W G 1.5k Ω | RCX4GATZ0152 |
| R205 | | CARBON RES. 1/4W G 2.2k Ω | RCX4GATZ0222 |
| R206 | | CARBON RES. 1/4W G 2.7k Ω | RCX4GATZ0272 |
| R207 | | CARBON RES. 1/4W G 4.7k Ω | RCX4GATZ0472 |
| R208 | | CARBON RES. 1/4W G 6.8k Ω | RCX4GATZ0682 |
| SWITCHES | | | |
| SW201 | | TACT SWITCH SKQSAB or | SST0101AL038 |
| | | TACT SWITCH TC-1104(H=5.0) or | SST0101DNG02 |
| | | TACT SWITCH KSM0612B | SST0101HH003 |
| SW202 | | TACT SWITCH SKQSAB or | SST0101AL038 |
| | | TACT SWITCH TC-1104(H=5.0) or | SST0101DNG02 |
| | | TACT SWITCH KSM0612B | SST0101HH003 |
| SW203 | | TACT SWITCH SKQSAB or | SST0101AL038 |
| | | TACT SWITCH TC-1104(H=5.0) or | SST0101DNG02 |
| | | TACT SWITCH KSM0612B | SST0101HH003 |
| SW204 | | TACT SWITCH SKQSAB or | SST0101AL038 |
| | | TACT SWITCH TC-1104(H=5.0) or | SST0101DNG02 |
| | | TACT SWITCH KSM0612B | SST0101HH003 |
| SW205 | | TACT SWITCH SKQSAB or | SST0101AL038 |
| | | TACT SWITCH TC-1104(H=5.0) or | SST0101DNG02 |

| Ref. No. | Mark | Description | Part No. |
|----------|------|-------------------------------|--------------|
| | | TACT SWITCH KSM0612B | SST0101HH003 |
| SW206 | | TACT SWITCH SKQSAB or | SST0101AL038 |
| | | TACT SWITCH TC-1104(H=5.0) or | SST0101DNG02 |
| | | TACT SWITCH KSM0612B | SST0101HH003 |
| SW207 | | TACT SWITCH SKQSAB or | SST0101AL038 |
| | | TACT SWITCH TC-1104(H=5.0) or | SST0101DNG02 |
| | | TACT SWITCH KSM0612B | SST0101HH003 |

JACK CBA

| Ref. No. | Mark | Description | Part No. |
|----------------------|------|---|--------------|
| | | JACK CBA Consists of the following: | ----- |
| CAPACITORS | | | |
| C14 | | CHIP CERAMIC CAP.(1608) B K 5600pF/50V | CHD1JK30B562 |
| C15 | | CHIP CERAMIC CAP.(1608) B K 5600pF/50V | CHD1JK30B562 |
| CONNECTOR | | | |
| CN11 | | CONNECTOR PRINT MES 08FMN-STRK-A(LF)(SN) | JCFNG08JG022 |
| RESISTORS | | | |
| R14 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R15 | | CHIP RES. 1/10W J 47k Ω or | RRXAJR5Z0473 |
| | | RES CHIP 1608 1/10W J 47k Ω | RRXA473YF002 |
| R16 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R17 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R18 | | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R19 | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R20 | | CARBON RES. 1/4W J 1.5k Ω | RCX4JATZ0152 |
| R21 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R22 | | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R23 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| R24 | | CHIP RES. 1/10W J 18k Ω or | RRXAJR5Z0183 |
| | | RES CHIP 1608 1/10W J 18k Ω | RRXA183YF002 |
| MISCELLANEOUS | | | |
| JK11 | | JACK RCA PCB S GREEN 01/RCA-101H(GN) or | JXRJ010YUQ03 |
| | | JACK RCA PCB S(GREEN) 01 MTJ-032-04B-73 FE | JXRJ010LY030 |
| JK12 | | JACK RCA PCB S BLUE 01/RCA-101H(BL) or | JXRJ010YUQ04 |
| | | JACK RCA PCB S(BLUE) 01 MTJ-032-04B-74 FE | JXRJ010LY033 |
| JK13 | | JACK RCA PCB S RED 01/RCA-101H(RD) or | JXRJ010YUQ01 |
| | | JACK RCA PCB S(RED) 01 MTJ-032-04B-75 FE | JXRJ010LY028 |
| JK14 | | JACK RCA PCB S WHITE 01/RCA-101H(WH) or | JXRJ010YUQ02 |
| | | JACK RCA PCB S (WHITE) 01 MTJ-032-04B-41 FE | JXRJ010LY031 |
| JK15 | | JACK SW RCA PCB S RED RCA-102H(RD) or | JYRJ010YUQ03 |
| | | JACK SW RCA PCB S(RED) 01 MTJ-032-04A-75 FE | JYRJ010LY031 |

MUT CBA

| Ref. No. | Description | Part No. |
|----------|---------------------------------------|-----------|
| | MUT CBA Consists of the following: | 1ESA17327 |
| | INVERTER CBA | ----- |
| | JUNCTION CBA | ----- |

INVERTER CBA

| Ref. No. | Description | Part No. |
|-------------------|--|--------------|
| | INVERTER CBA Consists of the following: | ----- |
| CAPACITORS | | |
| C401 | ELECTROLYTIC CAP. 470μF/25V M | CE1EMASDL471 |
| C402 | CAP CERAMIC HV SL D 15pF/3KV or | CCD3FJPSL150 |
| | CAP CERAMIC HV 15pF/3.15KV/SL/J | CCD3FJASL150 |
| C403 | ELECTROLYTIC CAP. 470μF/25V M | CE1EMASDL471 |
| C404 | CHIP CERAMIC CAP.(1608) B K 0.1μF/50V | CHD1JK30B104 |
| C405 | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C406 | CAP CERAMIC (AX) 0.1μF/50V/F/Z | CA1J104TU062 |
| C408 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C409 | CHIP CERAMIC CAP.(1608) B K 0.1μF/50V | CHD1JK30B104 |
| C410 | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C411 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C413 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C414 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C415 | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C416 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C418 | CAP CERAMIC HV SL D 15pF/3KV or | CCD3FJPSL150 |
| | CAP CERAMIC HV 15pF/3.15KV/SL/J | CCD3FJASL150 |
| C420 | ELECTROLYTIC CAP. 470μF/25V M | CE1EMASDL471 |
| C421 | CAP CERAMIC HV SL D 15pF/3KV or | CCD3FJPSL150 |
| | CAP CERAMIC HV 15pF/3.15KV/SL/J | CCD3FJASL150 |
| C422 | CAP CERAMIC (AX) 0.1μF/50V/F/Z | CA1J104TU062 |
| C423 | CAP CERAMIC (AX) 0.1μF/50V/F/Z | CA1J104TU062 |
| C424 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C425 | CHIP CERAMIC CAP.(1608) B K 0.1μF/50V | CHD1JK30B104 |
| C426 | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C427 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C428 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C429 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C430 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C431 | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C432 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C433 | POLYESTER FILM CAP. (PB FREE) 0.01μF/ 100V J or | CA2A103DT018 |
| | CAP POLYESTER FILM 0.01μF/100V J | CA2A103SER02 |
| C434 | CAP CERAMIC HV SL D 15pF/3KV or | CCD3FJPSL150 |
| | CAP CERAMIC HV 15pF/3.15KV/SL/J | CCD3FJASL150 |
| C435 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C436 | ELECTROLYTIC CAP. 470μF/25V M | CE1EMASDL471 |
| C437 | CAP CERAMIC HV SL D 15pF/3KV or | CCD3FJPSL150 |
| | CAP CERAMIC HV 15pF/3.15KV/SL/J | CCD3FJASL150 |
| C438 | ELECTROLYTIC CAP. 22μF/50V M | CE1JMASDL220 |
| C439 | CHIP CERAMIC CAP.(1608) B K 0.1μF/50V | CHD1JK30B104 |
| C440 | ELECTROLYTIC CAP. 2.2μF/50V M | CE1JMASDL2R2 |
| C441 | CAP CERAMIC (AX) 0.1μF/50V/B/K | CA1J104TU061 |
| C443 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C444 | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C445 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C446 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C447 | ELECTROLYTIC CAP. 10μF/50V M | CE1JMASDL100 |
| C448 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C449 | CAP CERAMIC HV SL D 15pF/3KV or | CCD3FJPSL150 |
| | CAP CERAMIC HV 15pF/3.15KV/SL/J | CCD3FJASL150 |
| C450 | CHIP CERAMIC CAP.(1608) B K 1μF/25V | CHD1EK30B105 |
| C452 | CHIP CERAMIC CAP.(1608) B K 0.1μF/50V | CHD1JK30B104 |
| C453 | ELECTROLYTIC CAP. 100μF/25V M | CE1EMASDL101 |
| C455 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C456 | CHIP CERAMIC CAP.(1608) B K 0.01μF/50V | CHD1JK30B103 |
| C457 | POLYESTER FILM CAP. (PB FREE) 0.01μF/ 100V J or | CA2A103DT018 |
| | CAP POLYESTER FILM 0.01μF/100V J | CA2A103SER02 |
| C458 | ZENER DIODE MTZJT-773.9B | QDTB0MTZJ3R9 |
| C459 | CERAMIC CAP. B K 220pF/500V | CCD2JKS0B221 |
| C460 | CERAMIC CAP. B K 220pF/500V | CCD2JKS0B221 |
| C461 | CERAMIC CAP. B K 220pF/500V | CCD2JKS0B221 |

| Ref. No. | Description | Part No. |
|-------------------|---|--------------|
| C462 | CERAMIC CAP. B K 220pF/500V | CCD2JKS0B221 |
| C463 | CERAMIC CAP. B K 220pF/500V | CCD2JKS0B221 |
| C464 | CERAMIC CAP. B K 220pF/500V | CCD2JKS0B221 |
| C465 | CHIP CERAMIC CAP.(1608) B K 0.022μF/50V | CHD1JK30B223 |
| C466 | CHIP CERAMIC CAP.(1608) B K 0.022μF/50V | CHD1JK30B223 |
| C467 | CHIP CERAMIC CAP.(1608) B K 0.022μF/50V | CHD1JK30B223 |
| C468 | CHIP CERAMIC CAP.(1608) B K 0.022μF/50V | CHD1JK30B223 |
| C469 | CHIP CERAMIC CAP.(1608) B K 0.022μF/50V | CHD1JK30B223 |
| C470 | CHIP CERAMIC CAP.(1608) B K 0.022μF/50V | CHD1JK30B223 |
| C481 | CHIP CERAMIC CAP.(1608) CH J 1000pF/50V | CHD1JJ3CH102 |
| CONNECTORS | | |
| CN401 | CONNECTOR PRINT OSU KW04-800-0200 | J30402KET001 |
| CN402 | CONNECTOR PRINT OSU KW04-800-0200 | J30402KET001 |
| CN403 | CONNECTOR PRINT OSU KW04-800-0200 | J30402KET001 |
| CN451 | CONNECTOR PRINT OSU 008283021200000S+ or | J383C02UG004 |
| | CONNECTOR PRINT OSU 2P 292161-2 | J31FC02AP001 |
| DIODES | | |
| D401 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D402 | ZENER DIODE MTZJT-7716B | QDTB00MTZJ16 |
| D403 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D404 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D405 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D406 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D407 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D408 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D409 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D411 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D412 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D413 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D414 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D415 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D416 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D417 | ZENER DIODE MTZJT-7710B | QDTB00MTZJ10 |
| D418 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D419 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D420 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D421 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D423 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D424 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D426 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D427 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D428 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |
| | DIODE SWITCHING HSS4148TE-E | QDTZ0HSS4148 |
| D429 | SWITCHING DIODE 1SS133(T-77) or | QDTZ001SS133 |

| Ref. No. | Description | Part No. |
|------------------|---|--------------|
| | TRANSISTOR 2SA950-O (TE2 F T) or | QQS002SA950F |
| | TRANSISTOR (PB FREE) KTA1271-Y-AT/P or | NQSYKTA1271P |
| | PNP TRANSISTOR 2SA1981Y-AT | NQSY02SA1981 |
| RESISTORS | | |
| R401 | METAL OXIDE FILM RES. 2W J 0.15 Ω or | RN02R15DP004 |
| | METAL OXIDE FILM RES. 2W J 0.15 Ω | RN02R15KE010 |
| R402 | CARBON RES. 1/4W J 3.9k Ω | RCX4JATZ0392 |
| R403 | CARBON RES. 1/4W J 3.9k Ω | RCX4JATZ0392 |
| R404 | CHIP RES.(1608) 1/10W F 1k Ω or | RRXAFR5H0102 |
| | CHIP RES. 1/10W F 1k Ω or | RRXAFR5Z0102 |
| | RES CHIP 1608 1/10W F 1.00k Ω | RTW1001YF002 |
| R405 | METAL OXIDE FILM RES. 2W J 100 Ω or | RN02101ZU001 |
| | METAL OXIDE FILM RES. 2W J 100 Ω | RN02101DP004 |
| R406 | CARBON RES. 1/4W J 27k Ω | RCX4JATZ0273 |
| R408 | CHIP RES. 1/10W J 1.5k Ω or | RRXAJR5Z0152 |
| | RES CHIP 1608 1/10W J 1.5k Ω | RRXA152YF002 |
| R409 | CARBON RES. 1/4W J 330 Ω | RCX4JATZ0331 |
| R410 | CARBON RES. 1/4W J 330 Ω | RCX4JATZ0331 |
| R411 | CARBON RES. 1/4W J 2.2k Ω | RCX4JATZ0222 |
| R413 | CHIP RES. 1/10W F 9.1k Ω or | RRXAFR5H9101 |
| | CHIP RES. 1/10W F 9.1k Ω or | RRXAFR5Z0912 |
| | RES CHIP 1608 1/10W F 9.10k Ω | RTW9101YF002 |
| R414 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R415 | CARBON RES. 1/4W J 1k Ω | RCX4JATZ0102 |
| R416 | CHIP RES. 1/10W J 390 Ω or | RRXAJR5Z0391 |
| | RES CHIP 1608 1/10W J 390 Ω | RRXA391YF002 |
| R417 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R420 | CHIP RES. 1/10W J 10 Ω or | RRXAJR5Z0100 |
| | RES CHIP 1608 1/10W J 10 Ω | RRXA100YF002 |
| R421 | CHIP RES. 1/10W J 2.7k Ω or | RRXAJR5Z0272 |
| | RES CHIP 1608 1/10W J 2.7k Ω | RRXA272YF002 |
| R423 | CHIP RES. 1/10W J 12k Ω or | RRXAJR5Z0123 |
| | RES CHIP 1608 1/10W J 12k Ω | RRXA123YF002 |
| R424 | CHIP RES. 1/10W J 390 Ω or | RRXAJR5Z0391 |
| | RES CHIP 1608 1/10W J 390 Ω | RRXA391YF002 |
| R425 | CHIP RES.(1608) 1/10W F 1k Ω or | RRXAFR5H0102 |
| | CHIP RES. 1/10W F 1k Ω or | RRXAFR5Z0102 |
| | RES CHIP 1608 1/10W F 1.00k Ω | RTW1001YF002 |
| R426 | CARBON RES. 1/4W J 27k Ω | RCX4JATZ0273 |
| R427 | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R428 | CARBON RES. 1/4W J 2.2k Ω | RCX4JATZ0222 |
| R429 | CHIP RES. 1/10W F 8.2k Ω or | RRXAFR5H8201 |
| | CHIP RES.(1608) 1/10W F 8.2k Ω or | RRXAFR5Z8201 |
| | RES CHIP 1608 1/10W F 8.20k Ω | RTW8201YF002 |
| R430 | CHIP RES. 1/10W F 43k Ω or | RRXAFR5H0433 |
| | CHIP RES. 1/10W F 43.0 k Ω or | RRXAFR5Z0433 |
| | RES CHIP 1608 1/10W F 43.0k Ω | RTW4302YF002 |
| R431 | CARBON RES. 1/4W J 10k Ω | RCX4JATZ0103 |
| R433 | CHIP RES. 1/10W J 10 Ω or | RRXAJR5Z0100 |
| | RES CHIP 1608 1/10W J 10 Ω | RRXA100YF002 |
| R434 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R435 | CHIP RES. 1/10W J 12k Ω or | RRXAJR5Z0123 |
| | RES CHIP 1608 1/10W J 12k Ω | RRXA123YF002 |
| R440 | CHIP RES. 1/10W J 2.7k Ω or | RRXAJR5Z0272 |
| | RES CHIP 1608 1/10W J 2.7k Ω | RRXA272YF002 |
| R443 | CHIP RES. 1/10W J 1k Ω or | RRXAJR5Z0102 |
| | RES CHIP 1608 1/10W J 1.0k Ω | RRXA102YF002 |
| R445 | CARBON RES. 1/4W J 3.9k Ω | RCX4JATZ0392 |
| R446 | CARBON RES. 1/4W J 3.9k Ω | RCX4JATZ0392 |
| R447 | CARBON RES. 1/4W J 27k Ω | RCX4JATZ0273 |
| R448 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R449 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |

| Ref. No. | Description | Part No. |
|----------|--|--------------|
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R450 | CHIP RES. 1/10W J 390 Ω or | RRXAJR5Z0391 |
| | RES CHIP 1608 1/10W J 390 Ω | RRXA391YF002 |
| R451 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R452 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R453 | CHIP RES. 1/10W J 3.3k Ω or | RRXAJR5Z0332 |
| | RES CHIP 1608 1/10W J 3.3k Ω | RRXA332YF002 |
| R454 | CHIP RES. 1/10W J 10 Ω or | RRXAJR5Z0100 |
| | RES CHIP 1608 1/10W J 10 Ω | RRXA100YF002 |
| R455 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R456 | CHIP RES. 1/10W J 12k Ω or | RRXAJR5Z0123 |
| | RES CHIP 1608 1/10W J 12k Ω | RRXA123YF002 |
| R457 | CHIP RES. 1/10W J 390 Ω or | RRXAJR5Z0391 |
| | RES CHIP 1608 1/10W J 390 Ω | RRXA391YF002 |
| R458 | CARBON RES. 1/4W J 27k Ω | RCX4JATZ0273 |
| R459 | CARBON RES. 1/4W G 56k Ω | RCX4GATZ0563 |
| R460 | CHIP RES. 1/10W J 68k Ω or | RRXAJR5Z0683 |
| | RES CHIP 1608 1/10W J 68k Ω | RRXA683YF002 |
| R461 | CHIP RES. 1/10W J 330 Ω or | RRXAJR5Z0331 |
| | RES CHIP 1608 1/10W J 330 Ω | RRXA331YF002 |
| R462 | CARBON RES. 1/4W J 10k Ω | RCX4JATZ0103 |
| R463 | CHIP RES. 1/10W J 10 Ω or | RRXAJR5Z0100 |
| | RES CHIP 1608 1/10W J 10 Ω | RRXA100YF002 |
| R464 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R465 | CHIP RES. 1/10W J 12k Ω or | RRXAJR5Z0123 |
| | RES CHIP 1608 1/10W J 12k Ω | RRXA123YF002 |
| R466 | CHIP RES.(1608) 1/10W F 1k Ω or | RRXAFR5H0102 |
| | CHIP RES. 1/10W F 1k Ω or | RRXAFR5Z0102 |
| | RES CHIP 1608 1/10W F 1.00k Ω | RTW1001YF002 |
| R469 | CHIP RES.(1608) 1/10W F 5.1k Ω or | RRXAFR5H0512 |
| | CHIP RES. 1/10W F 5.1k Ω or | RRXAFR5Z0512 |
| | RES CHIP 1608 1/10W F 5.10k Ω | RTW5101YF002 |
| R470 | CARBON RES. 1/4W J 5.1k Ω | RCX4JATZ0512 |
| R471 | CARBON RES. 1/4W J 10k Ω | RCX4JATZ0103 |
| R472 | CHIP RES. 1/10W J 240k Ω or | RRXAJR5Z0244 |
| | RES CHIP 1608 1/10W J 240k Ω | RRXA244YF002 |
| R473 | CHIP RES. 1/10W F 56k Ω or | RRXAFR5H0563 |
| | CHIP RES. 1/10W F 56k Ω or | RRXAFR5Z0563 |
| | RES CHIP 1608 1/10W F 56.0k Ω | RTW5602YF002 |
| R474 | CHIP RES. 1/10W J 24k Ω or | RRXAJR5Z0243 |
| | RES CHIP 1608 1/10W J 24k Ω | RRXA243YF002 |
| R475 | CHIP RES. 1/10W J 5.1k Ω or | RRXAJR5Z0512 |
| | RES CHIP 1608 1/10W J 5.1k Ω | RRXA512YF002 |
| R476 | CHIP RES. 1/10W J 5.1k Ω or | RRXAJR5Z0512 |
| | RES CHIP 1608 1/10W J 5.1k Ω | RRXA512YF002 |
| R477 | CHIP RES. 1/10W J 3.3k Ω or | RRXAJR5Z0332 |
| | RES CHIP 1608 1/10W J 3.3k Ω | RRXA332YF002 |
| R478 | CARBON RES. 1/4W J 3.9k Ω | RCX4JATZ0392 |
| R479 | CARBON RES. 1/4W J 3.9k Ω | RCX4JATZ0392 |
| R480 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R481 | CHIP RES.(1608) 1/10W F 1k Ω or | RRXAFR5H0102 |
| | CHIP RES. 1/10W F 1k Ω or | RRXAFR5Z0102 |
| | RES CHIP 1608 1/10W F 1.00k Ω | RTW1001YF002 |
| R482 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R483 | CHIP RES. 1/10W J 5.1k Ω or | RRXAJR5Z0512 |
| | RES CHIP 1608 1/10W J 5.1k Ω | RRXA512YF002 |
| R484 | CARBON RES. 1/4W J 27k Ω | RCX4JATZ0273 |
| R485 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |
| R486 | CHIP RES. 1/10W J 10k Ω or | RRXAJR5Z0103 |
| | RES CHIP 1608 1/10W J 10k Ω | RRXA103YF002 |

| Ref. No. | Description | Part No. |
|----------------------|---|--|
| R487 | CHIP RES. 1/10W J 390 Ω or RES CHIP 1608 1/10W J 390 Ω | RRXAJR5Z0391 RRXA391YF002 |
| R488 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R489 | CHIP RES. 1/10W F 7.50 k Ω or CHIP RES. 1/10W F 7.5k Ω or RES CHIP 1608 1/10W F 7.50k Ω | RRXAFR5H7501 RRXAFR5Z7501 RTW7501YF002 |
| R490 | 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 |
| R491 | CHIP RES. 1/10W J 12k Ω or RES CHIP 1608 1/10W J 12k Ω | RRXAJR5Z0123 RRXA123YF002 |
| R492 | CHIP RES. 1/10W J 10 Ω or RES CHIP 1608 1/10W J 10 Ω | RRXAJR5Z0100 RRXA100YF002 |
| R493 | CARBON RES. 1/4W J 10k Ω | RCX4JATZ0103 |
| R494 | CHIP RES. 1/10W J 12k Ω or RES CHIP 1608 1/10W J 12k Ω | RRXAJR5Z0123 RRXA123YF002 |
| R495 | CHIP RES. 1/10W J 390 Ω or RES CHIP 1608 1/10W J 390 Ω | RRXAJR5Z0391 RRXA391YF002 |
| R496 | CARBON RES. 1/4W J 27k Ω | RCX4JATZ0273 |
| R497 | PCB JUMPER D0.6-P5.0 | JW5.0T |
| R498 | CARBON RES. 1/4W J 3.3k Ω | RCX4JATZ0332 |
| R499 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R500 | CARBON RES. 1/4W J 10k Ω | RCX4JATZ0103 |
| R501 | CHIP RES. 1/10W J 10 Ω or RES CHIP 1608 1/10W J 10 Ω | RRXAJR5Z0100 RRXA100YF002 |
| R502 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R503 | CHIP RES. 1/10W J 12k Ω or RES CHIP 1608 1/10W J 12k Ω | RRXAJR5Z0123 RRXA123YF002 |
| R504 | CHIP RES. 1/10W J 47k Ω or RES CHIP 1608 1/10W J 47k Ω | RRXAJR5Z0473 RRXA473YF002 |
| R506 | CHIP RES. 1/10W J 10k Ω or RES CHIP 1608 1/10W J 10k Ω | RRXAJR5Z0103 RRXA103YF002 |
| R507 | CHIP RES. 1/10W J 1k Ω or RES CHIP 1608 1/10W J 1.0k Ω | RRXAJR5Z0102 RRXA102YF002 |
| R508 | CHIP RES. 1/10W J 1k Ω or RES CHIP 1608 1/10W J 1.0k Ω | RRXAJR5Z0102 RRXA102YF002 |
| R509 | CARBON RES. 1/4W J 100 Ω | RCX4JATZ0101 |
| R510 | CHIP RES. 1/10W J 8.2k Ω or RES CHIP 1608 1/10W J 8.2k Ω | RRXAJR5Z0822 RRXA822YF002 |
| R511 | CARBON RES. 1/4W J 10k Ω | RCX4JATZ0103 |
| R514 | CHIP RES.(1608) 1/10W F 22k Ω or CHIP RES. 1/10W F 22k Ω or RES CHIP 1608 1/10W F 22.0k Ω | RRXAFR5H0223 RRXAFR5Z0223 RTW2202YF002 |
| MISCELLANEOUS | | |
| F401 | CHIP FUSE FHC32322ADTP | PDDFTC0KE322 |
| J431 | BEADS INDUCTOR FBR07HA121SB-00 | LLBF00STU030 |
| JS401 | BEADS INDUCTOR FBR07HA121SB-00 | LLBF00STU030 |
| JS402 | BEADS INDUCTOR FBR07HA121SB-00 | LLBF00STU030 |
| T401 | TRANS INVERTER TK.7604A.101 | LTZ3PZDAR004 |
| T402 | TRANS INVERTER TK.7604A.101 | LTZ3PZDAR004 |
| T403 | TRANS INVERTER TK.7604A.101 | LTZ3PZDAR004 |

JUNCTION CBA

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

| Ref. No. | Description | Part No. |
|----------|---------------------------|--------------|
| TU501 | TUNER UNIT DTV ENG37E06KF | UTUNDVTMS002 |

