



SERVICE MANUAL

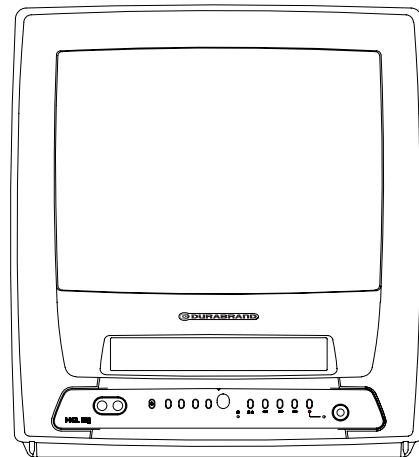
Sec. 1: Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's
- Exploded views
- Parts List

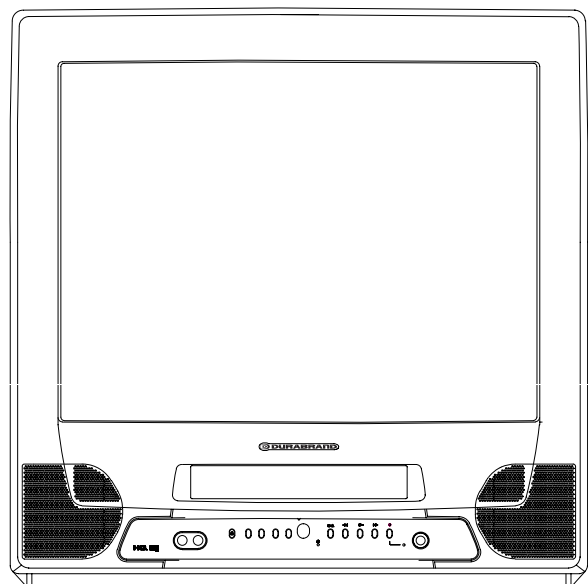
Sec. 2: Deck Mechanism Section

- Standard Maintenance
- Alignment for Mechanism
- Disassembly/Assembly of Mechanism
- Alignment Procedures of Mechanism
- Deck Exploded Views
- Deck Parts List

14" COLOR TV/VCR COMBINATION T6605VF



21" COLOR TV/VCR COMBINATION T6705VF



MAIN SECTION

14"/21" COLOR TV/VCR COMBINATION T6605VF/T6705VF

Sec. 1: Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's
- Exploded Views
- Parts List

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SPECIFICATIONS

✱Mode-----SP mode unless otherwise specified

✱Test input terminal

<Except Tuner>-----Video input (1Vp-p)

Audio input (-10dB)

<Tuner>-----Ant. input (80dBμV) Video: 87.5% mod.(BG/DK), 80.0% mod.(I)

Audio: 30kHz div (1kHz Sin)

<DEFLECTION>

[T6605VF]

Description	Condition	Unit	Nominal	Limit
1. Over Scan	—	%	90	85/95
2. Linearity	Horizontal	%	—	±15
	Vertical	%	—	±10
3. High Voltage	—	kV	22	—

[T6705VF]

Description	Condition	Unit	Nominal	Limit
1. Over Scan	—	%	90	85/95
2. Linearity	Horizontal	%	—	±15
	Vertical	%	—	±10
3. High Voltage	—	kV	25	—

<VIDEO & CHROMA>

[T6605VF]

Description	Condition	Unit	Nominal	Limit
1. Misconvergence	Center	m/m	—	0.6
	Corner	m/m	—	2.0
	Side	m/m	—	1.5
2. Contrast Control Range	—	dB	—	6
3. Brightness	APL 100%	ft-L	55	40
4. Color Temperature	—	K	8500	—

[T6705VF]

Description	Condition	Unit	Nominal	Limit
1. Misconvergence	Center	m/m	—	0.6
	Corner	m/m	—	2.5
	Side	m/m	—	1.8
2. Contrast Control Range	—	dB	—	6
3. Brightness	APL 100%	ft-L	35	24
4. Color Temperature	—	K	8500	—

<VCR>

Description	Condition	Unit	Nominal	Limit
1. Horizontal Resolution	(R/P)	Line	230	200
2. Jitter (Low)	(R/P)	μS	0.05	0.2
3. S/N Chroma AM(SP)	(R/P)	dB	38	33
PM(SP)	(R/P)	dB	36	33
4. Wow & Flutter (RMS)	(R/P)	%	0.25	0.5

<TUNER>

Description	Condition	Unit	Nominal	Limit
1. Video S/N	—	dB	45	40
2. Audio S/N (W/LPF)	—	dB	43	40

<AUDIO>

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

Description	Condition	Unit	Nominal	Limit
1. Audio Output Power (Max.)	(R/P)	W	1.0	0.8
2. Audio S/N (W/LPF)	(R/P)	dB	40	36
3. Audio Distortion (W/LPF)	(R/P)	%	3.0	5.0
4. Audio Freq. Response (-20dB Ref. 1kHz)	200Hz (R/P)	dB	—	5.0/-10
	6kHz (R/P)	dB	—	5.0/-10

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.

<TV NORM, TUNER SENSIVITY, RECEPTIVE TV CHANNELS>

TV Norm	Tuner Sensivity	Receptive TV Channels
PAL-B/G	NOM: VHF 46dBμV / UHF 47dBμV MAX: VHF 53dBμV / UHF 56dBμV	E2 - E12, 1A - 1H, E21 - E69, S01 - S03, Z+1, Z+2, S1 - S41, gap2

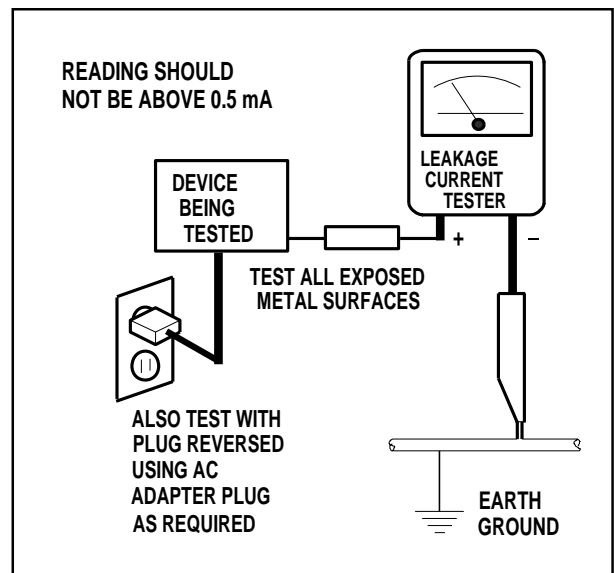
IMPORTANT SAFETY PRECAUTIONS

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 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 picture tube 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 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leak-

age 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.

- e. **X-Radiation and High Voltage Limits** - Because the picture tube is the primary potential source of X-radiation in solid-state TV receivers, it is specially constructed to prohibit X-radiation emissions. For continued X-radiation protection, the replacement picture tube must be the same type as the original. Also, because the picture tube shields and mounting hardware perform an X-radiation protection function, they must be correctly in place. High voltage must be measured each time servic-

ing is performed that involves B+, horizontal deflection or high voltage. Correct operation of the X-radiation protection circuits also must be reconfirmed each time they are serviced. (X-radiation protection circuits also may be called "horizontal disable" or "hold down.") Read and apply the high voltage limits and, if the chassis is so equipped, the X-radiation protection circuit specifications given on instrument labels and in the Product Safety & X-Radiation Warning note on the service data chassis schematic. High voltage is maintained within specified limits by close tolerance safety-related components/adjustments in the high-voltage circuit. If high voltage exceeds specified limits, check each component specified on the chassis schematic and take corrective action.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.
3. **Design Alteration Warning** - Do not alter or add to the mechanical or electrical design of this 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. **Picture Tube Implosion Protection Warning** - The picture tube in this receiver employs integral implosion protection. For continued implosion protection, replace the picture tube only with one of the same type number. Do not remove, install, or otherwise handle the picture tube in any manner without first putting on shatterproof goggles equipped with side shields. People not so equipped must be kept safely away while picture tubes are handled. Keep the picture tube away from your body. Do not handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; because of potential hazard, do not try to remove such "permanently attached" yokes from the picture tube.
5. **Hot Chassis Warning** -
 - a. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and maybe safety-serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter, measure between the chassis and a known

earth ground. If a voltage reading in excess of 1.0V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.

- b. Some TV receiver chassis normally have 85V AC(RMS) between chassis and earth ground regardless of the AC plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection.
 - c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.
6. 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.
 7. 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.
 8. **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 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 (heatsinks, 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 drop-lets, etc.) do not remain inside the set.
- K.** Crimp type wire connector
When replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, in order to prevent shock hazards, perform carefully and precisely the following steps.
Replacement procedure
 - 1) Remove the old connector by cutting the wires at a point close to the connector.
Important: Do not re-use a connector (discard it).
 - 2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
 - 3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.
 - 4) Use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.
- L.** When connecting or disconnecting the VCR connectors, first, disconnect the AC plug from AC supply socket.

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.

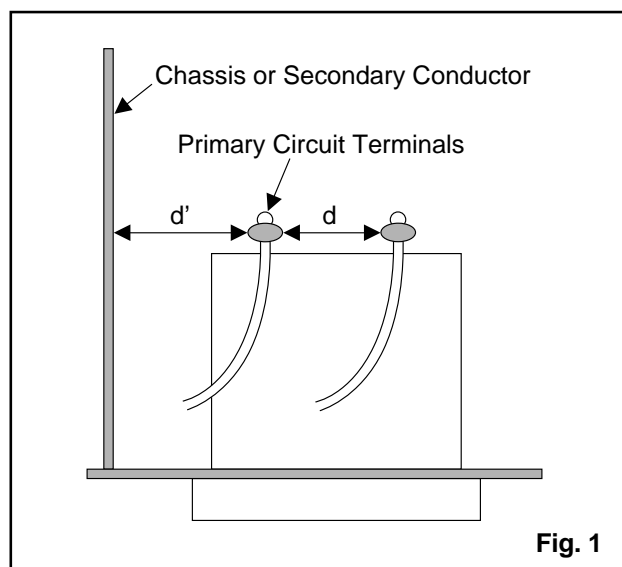


Fig. 1

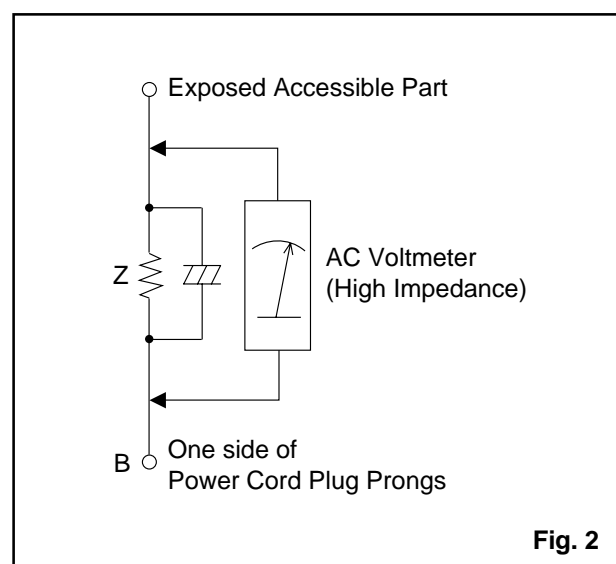


Fig. 2

Table 2: Leakage current ratings for selected areas

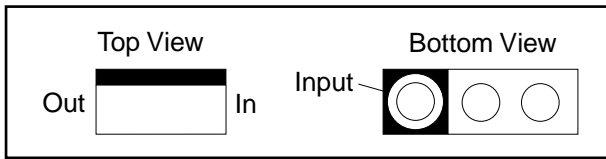
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2k Ω RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	RF or Antenna terminals
	50k Ω RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	A/V Input,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

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

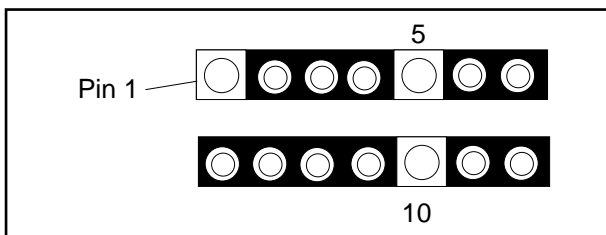
STANDARD NOTES FOR SERVICING

Circuit Board Indications

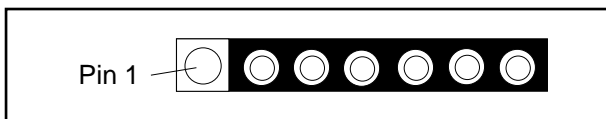
1. The output pin of the 3 pin Regulator ICs is indicated as shown:



2. For other ICs, pin 1 and every 5th pin is indicated as shown:

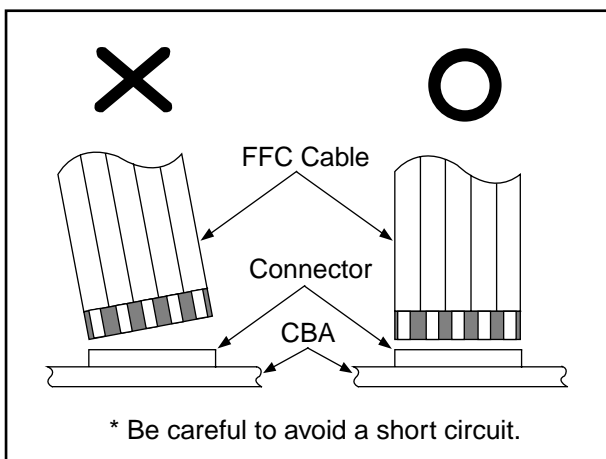


3. The 1st pin of every pin connector are indicated as shown:



Instructions for Connectors

1. When you connect or disconnect FFC cable (connector), be sure to disconnect the AC cord.
2. FFC cable (connector) should be inserted parallel into the connector, not at an angle.



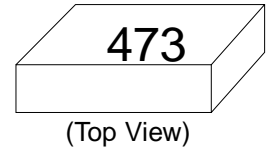
[CBA= Circuit Board Assembly]

How to Read the Values of the Rectangular Type Chip Components

Example:

(a) Resistor

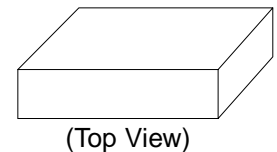
$$= 473 = 47 \text{ [k}\Omega\text{]}$$



(Top View)

(b) Capacitor

= Not Shown



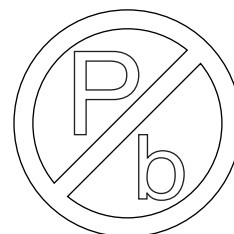
(Top View)

Caution:

Once chip parts (Resistors, Capacitors, Transistors, etc.) are removed, they must not be reused. Always use a new part.

Pb (Lead) Free Solder

Pb free mark will be found on PCBs used 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

Replacement Procedures for Leadless (Chip) Components

The Following Procedures are Recommended for the Replacement of the Leadless Components Used in this Unit.

1. Preparation for replacement

1.1. Pb free solder

- a. Soldering Iron
Use a soldering iron for Pb free solder.
- b. Solder
Be sure to use Pb free solder.
- c. Soldering time
Do not apply heat for more than 4 seconds.
- d. Preheating
Leadless capacitor must be preheated before installation. (130°C~150°C, for about two minutes.)

1.2. Standard solder

- e. Soldering Iron
Use a pencil-type soldering iron (less than 30 watts).
- f. Solder
Eutectic solder (Tin 63%, Lead 37%) is recommended.
- g. Soldering time
Do not apply heat for more than 4 seconds.
- h. Preheating
Leadless capacitor must be preheated before installation. (130°C~150°C, for about two minutes.)

Notes:

- a. Leadless components must not be reused after removal.
- b. Excessive mechanical stress and rubbing for the component electrode must be avoided.

2. Removing the leadless component

Grasp the leadless component body with tweezers and alternately apply heat to both electrodes. When the solder on both electrodes has melted, remove leadless component with a twisting motion.

Notes:

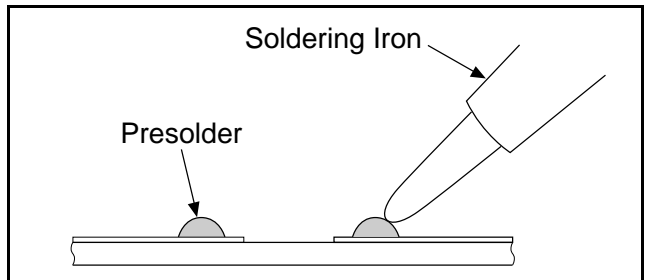
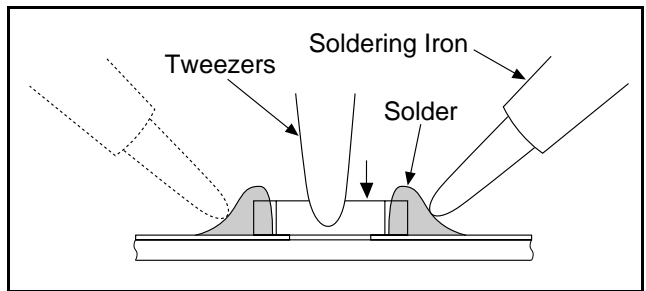
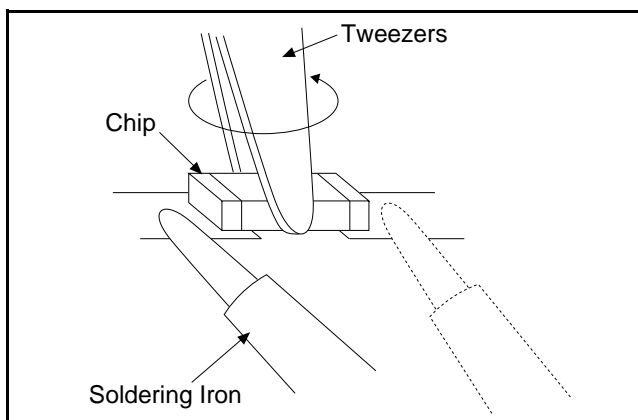
- a. Do not attempt to lift the component off the board until the component is completely disconnected from the board by the twisting action.
- b. Take care not to break the copper foil on the printed board

3. Installing the leadless component

- a. Presolder the contact points of the circuit board.
- b. Press the part downward with tweezers and solder both electrodes as shown below.

Note:

Do not glue the replacement leadless component to the circuit board.



How to Remove / Install Flat Pack IC

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 apply the hot air to the chip parts around the Flat Pack-IC for over 6 seconds as damage may occur to the chip parts. 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 solder lands under the IC when removing it.

1. Removal

With Hot - Air Flat Pack - IC Desoldering Machine:

- a. Prepare the Hot - Air Flat Pack - IC Desoldering Machine, then apply hot air to Flat Pack - IC (about 5~6 seconds). (Fig. S-1-1)
- b. Remove the Flat Pack- IC with tweezers while applying the hot air.

With Soldering Iron:

- a. 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)
- b. 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)

With Iron Wire:

- a. 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)

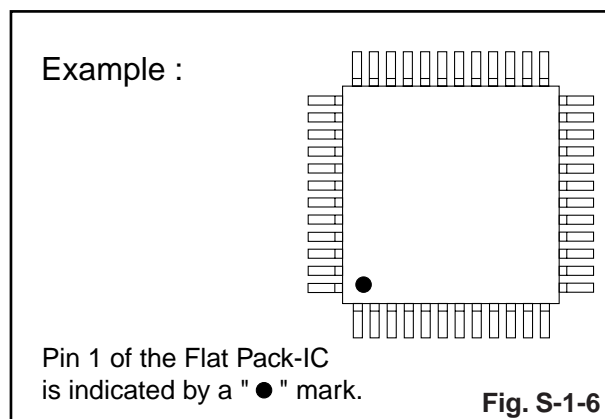
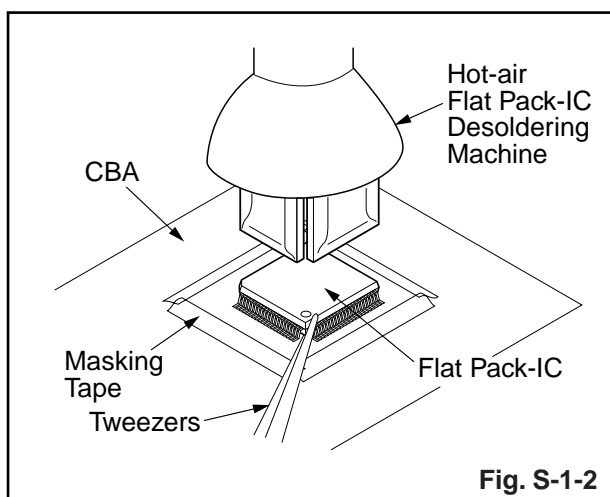
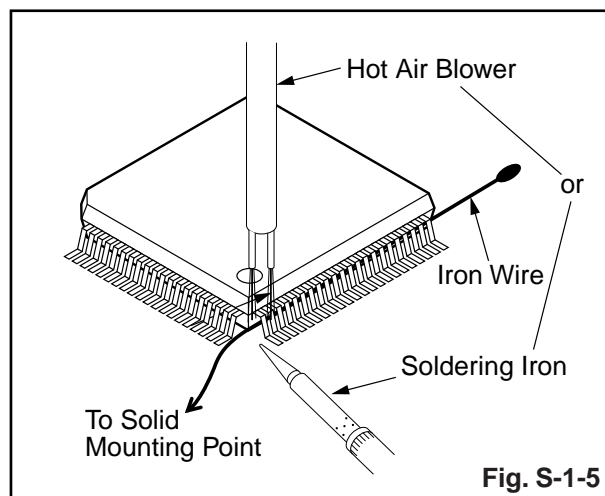
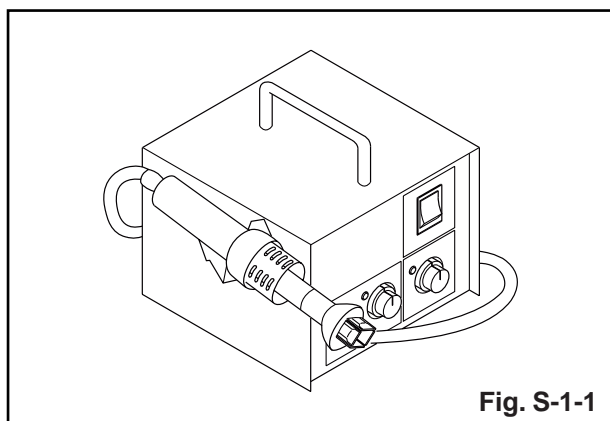
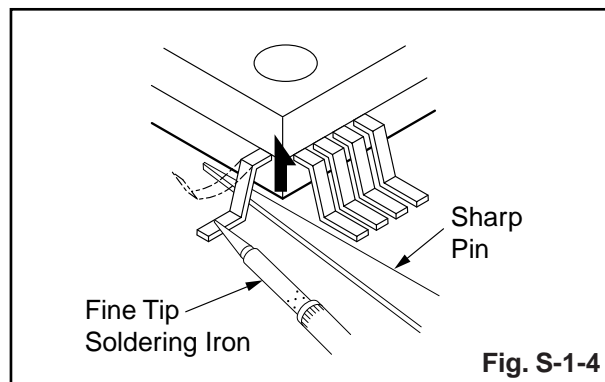
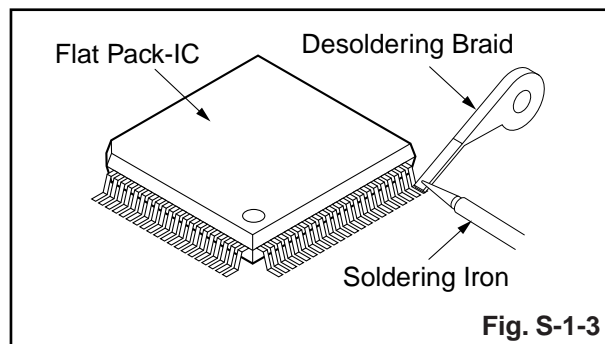
- b. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- c. Pull up on the wire as the solder melts so as to lift the IC leads from the CBA contact pads, while heating the pins using a fine tip soldering iron or hot air blower.

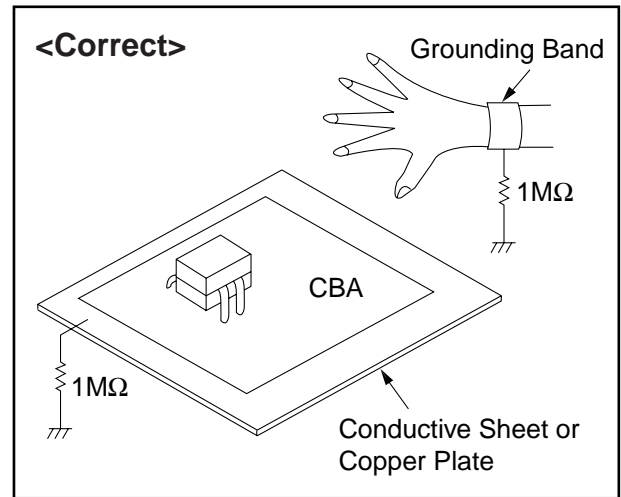
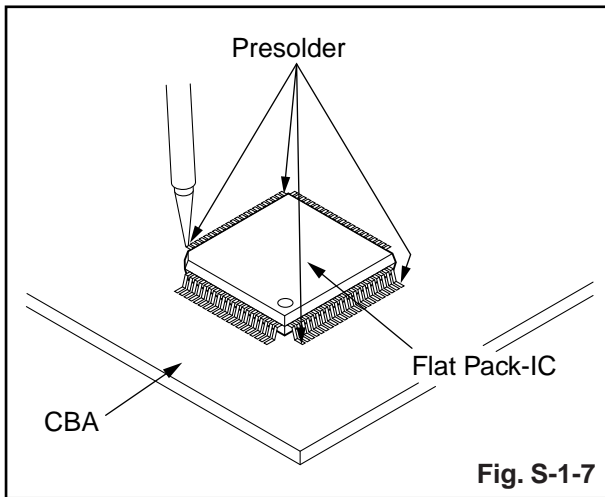
Note:

When using a soldering iron, care must be taken to ensure that the Flat Pack - IC is not being held by glue, or when it is removed from the CBA, it may be damaged if force is used.

2. Installation

- a. 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.
- b. The "●" mark on the Flat Pack - IC indicates pin 1 (See Fig. S-1-6). Make sure this mark matches the 1 on the CBA when positioning for installation. Then pre - solder the four corners of the Flat Pack - IC (See Fig. S-1-7).
- c. Solder all pins of the Flat Pack - IC. Make sure that none of the pins have solder bridges.





Instructions for Handling Semiconductors

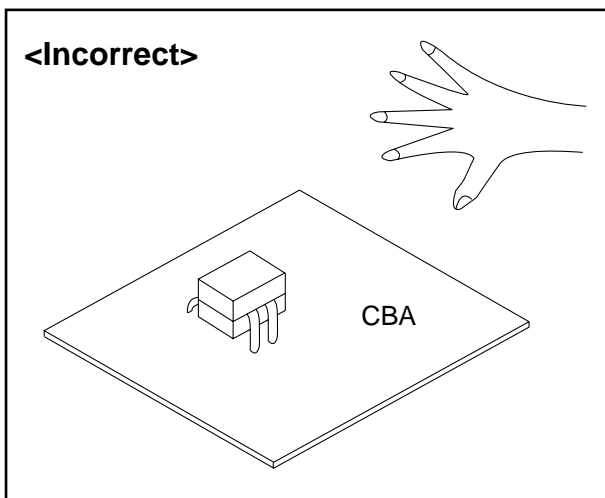
Electrostatic breakdown of the semiconductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

Ground for Human Body

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

Ground for Work Bench

Be sure to place a conductive sheet or copper plate with proper grounding (1MΩ) on the work bench or other surface, where the semiconductors are to be placed. Because the static electricity charge on the clothing will not escape through the body grounding band, be careful to avoid contacting semiconductors to clothing.



PREPARATION FOR SERVICING

How to Enter the Service Mode

Caution: 1

- Optical sensors system are used for Tape Start and End Sensor on this equipment. Read this page carefully and prepare as described on this page before starting to service; otherwise, the unit may operate unexpectedly.

Preparing: 1

- Cover Q202 (START SENSOR) and Q201 (END SENSOR) with Insulation Tape or enter the service mode to activate Sensor Inhibition automatically.

Note: Avoid playing, rewinding or fast forwarding the tape to its beginning or end, because both Tape End Sensors are not active.

How to Enter the Service Mode

- Turn the power on. (Use main power on the TV unit.)
- Press [STANDBY/ON], [2], [7], [1], and [MUTE] buttons on the remote control unit in that order within 5 seconds. When entering the service mode, "4" will display at corners of the screen.
- During the service mode, electrical adjustment mode can be selected by remote control key.

Details are as follows.

Key	Adjustment Mode
MENU	Picture adjustment mode: Press the MENU button to change from BRT (Bright), *CNT (Contrast), *COL (Color), *TNT (Tint) and SHP (SHARP). Press PROG+/PROG- key to adjust Initial Value. *Marked items are not necessary to adjust normally.
VOL-	SECAM Black Level adjustment mode: See adjustment instructions page 1-6-3. Cut-Off adjustment mode: See adjustment instructions page 1-6-4. White Balance adjustment mode: See adjustment instructions page 1-6-5.
0	C-Trap adjustment mode: See adjustment instructions page 1-6-3.
1	No need to use.
2	H adjustment mode: See adjustment instructions page 1-6-2.
3	Head switching point adjustment mode (Auto adjustment): See adjustment instructions page 1-6-7.
4	Auto record mode: Perform recording (15 Sec.)-->Stop-->Rewind (Zero return) automatically.
5	Head switching point adjustment mode (Manual adjustment): See adjustment instructions page 1-6-7.

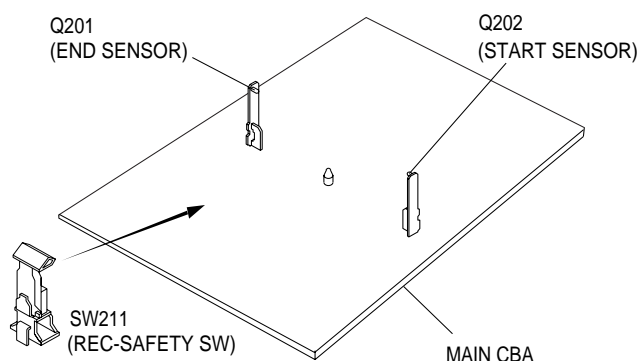
Key	Adjustment Mode
6	No need to use.
7	No need to use.
8	H. Shift adjustment mode: See adjustment instructions page 1-6-4.
9	V.size/V. shift adjustment: See adjustment instructions page 1-6-4.

Caution: 2

- The deck mechanism assembly is mounted on the Main CBA directly, and SW211 (REC-SAFETY SW) is mounted on the Main CBA. When deck mechanism assembly is removed from the Main CBA due to servicing, this switch can not be operated automatically.

Preparing: 2

- To eject the tape, press the STOP/EJECT button on the unit (or Remote Control).
- When you want to record during the Service mode, press the Rec button while depressing SW211 (REC-SAFETY SW) on the Main CBA.



CABINET DISASSEMBLY INSTRUCTIONS

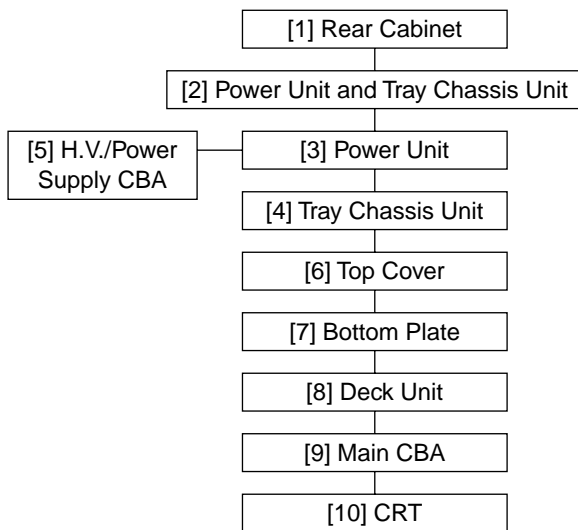
[T6605VF]

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.

Caution !!

When removing the CRT, be sure to discharge the Anode Lead of the CRT with the CRT Ground Wire before removing the Anode Cap.



2. Disassembly Method

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/ *UNHOOK/ UNLOCK/RELEASE/ UNPLUG/ DESOLDER	Note
[1]	Rear Cabinet	1,2,5	4(S-1), 2(S-2), *CN151	1
[2]	Power Unit and Tray Chassis Unit	3,4,5	Anode Cap, *CN501, *CN551, *CN601, CRT CBA, Power Knob	2
[3]	Power Unit	3,5	*CN502, *CN552, *CN602	3
[4]	Tray Chassis Unit	3	-----	-
[5]	H.V./Power Supply CBA	3	6(S-3)	4
[6]	Top Cover	3	5(S-4), CL604	5
[7]	Bottom Plate	3	(S-5)	6

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/ *UNHOOK/ UNLOCK/RELEASE/ UNPLUG/ DESOLDER	Note
[8]	Deck Unit	3, 5	7(S-6), (S-7), (S-8), Desolder *(CN201, CL401, CL402, CL403)	7
[9]	Main CBA	3	4(S-9)	8
[10]	CRT	4	4(S-10)	9

↓ ↓ ↓ ↓ ↓
 (1) (2) (3) (4) (5)

(1): Order of steps in Procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the identification (location) No. of parts in Figures.

(2): Parts to be removed or installed.

(3): Fig. No. showing Procedure of Part Location.

(4): Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

S=Screw, P=Spring, L=Locking Tab, CN=Connector, *=Unhook, Unlock, Release, Unplug, or Desolder

2(S-2) = two Screw (S-2)

(5): Refer to the following "Reference Notes in the Table."

Reference Notes in the Table

1. Removal of the Rear Cabinet.

Remove four screws (S-1) and two screws (S-2). Disconnect connector CN151 and remove the Rear Cabinet.

Caution !!

Discharge the Anode Lead of the CRT with the CRT Ground Wire before removing the Anode Cap.

2. Removal of the Power Unit and Tray Chassis Unit.

Discharge the Anode Lead of the CRT with the CRT Ground before removing the Anode Cap. Disconnect the following: Anode Cap, CN501, CN551, CN601, CRT CBA, and Power Button. Then pull the Power Unit and Tray Chassis Unit out backward.

3. Removal of the Power Unit.

Disconnect connectors CN502, CN552, and CN602. Then slide the Power Unit out.

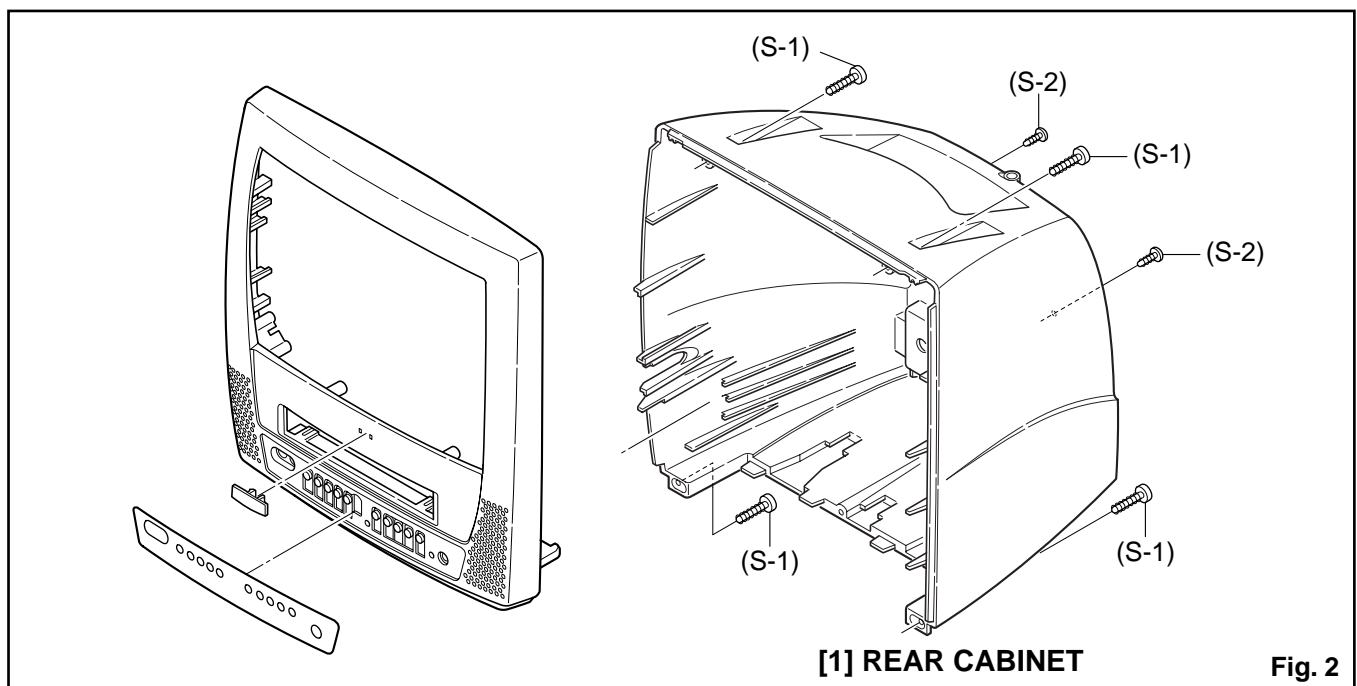
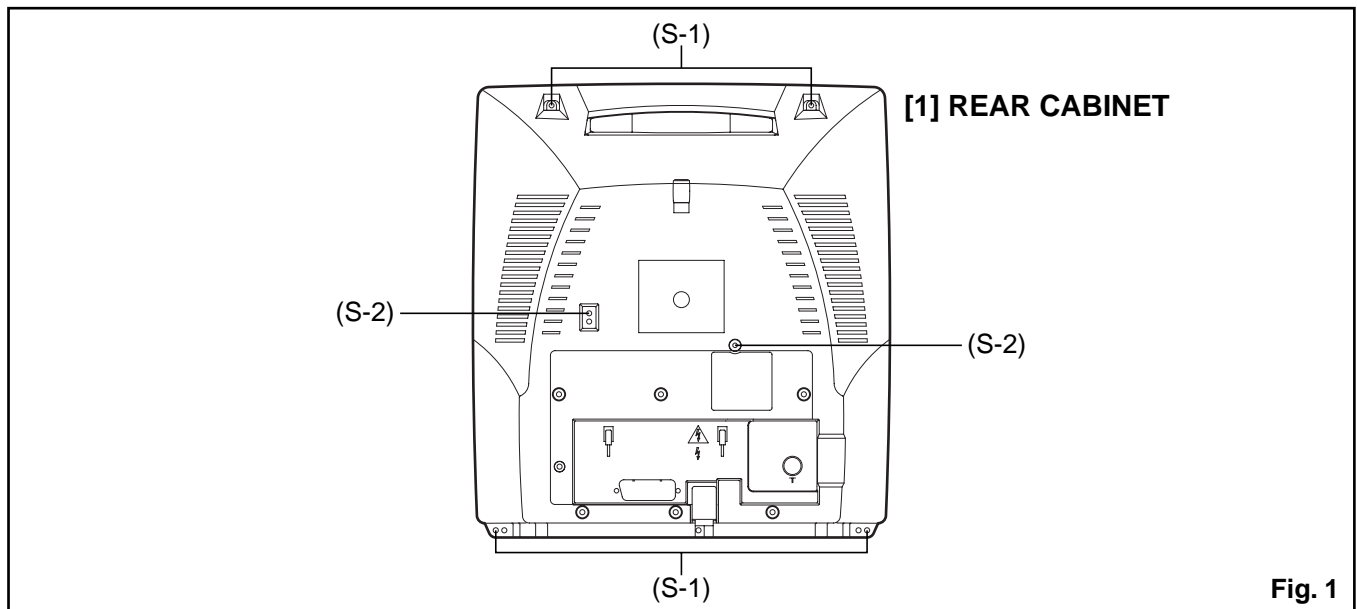
4. Removal of the H.V./Power Supply CBA.

Remove six screws (S-3) and pull up the H.V./Power Supply CBA.

5. Removal of the Top Cover.

Remove five screws (S-4) and CL604, and remove the Top Cover.

6. Removal of the Bottom Plate.
Remove a screw (S-5). Then slide the Bottom Plate out front.
7. Removal of the Deck Unit.
Remove seven screws (S-6), screw (S-7) and screw (S-8). Then, desolder connectors (CN201, CL401, CL402, CL403) and lift up the Deck Unit.
8. Removal of the Main CBA.
Remove four screws (S-9) and pull up the Main CBA.
9. Removal of the CRT.
Remove four screws (S-10) and pull the CRT backward.



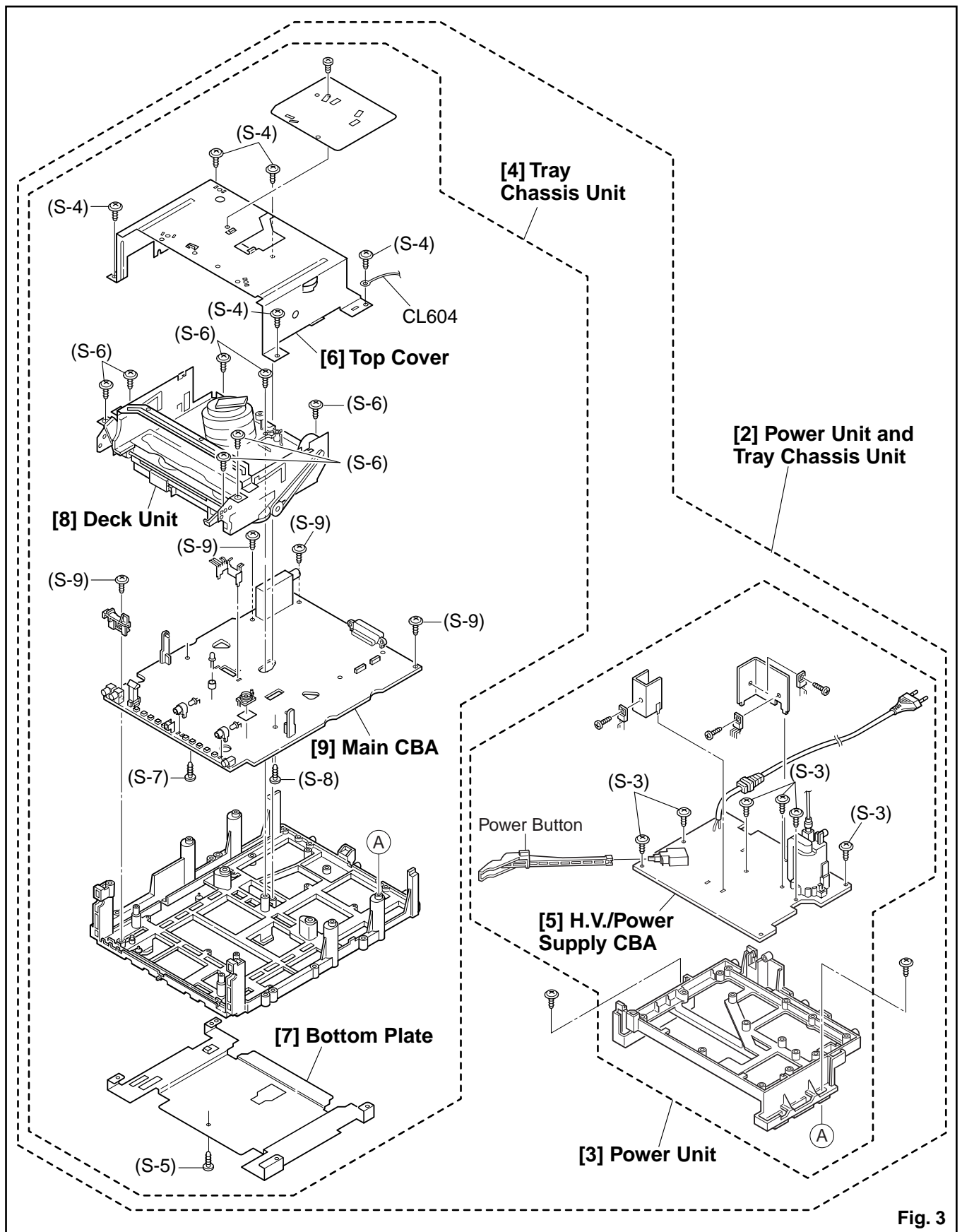


Fig. 3

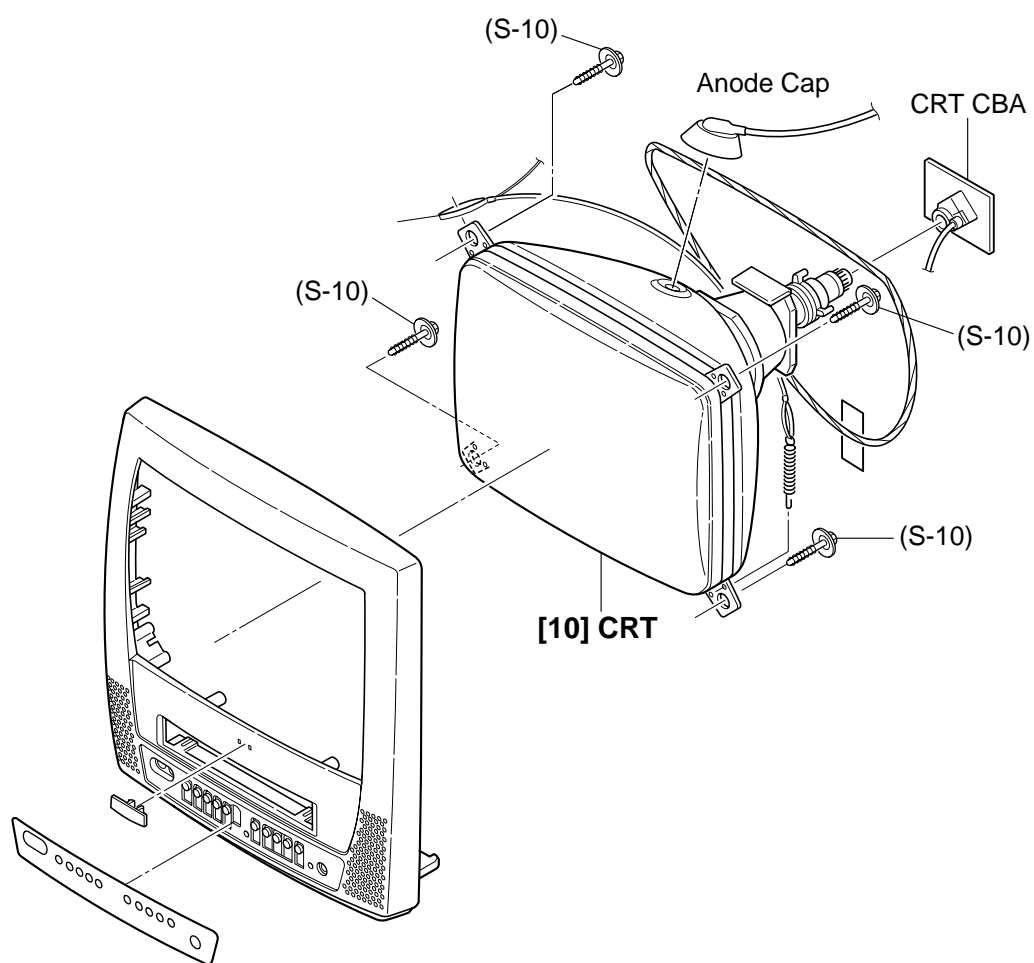


Fig. 4

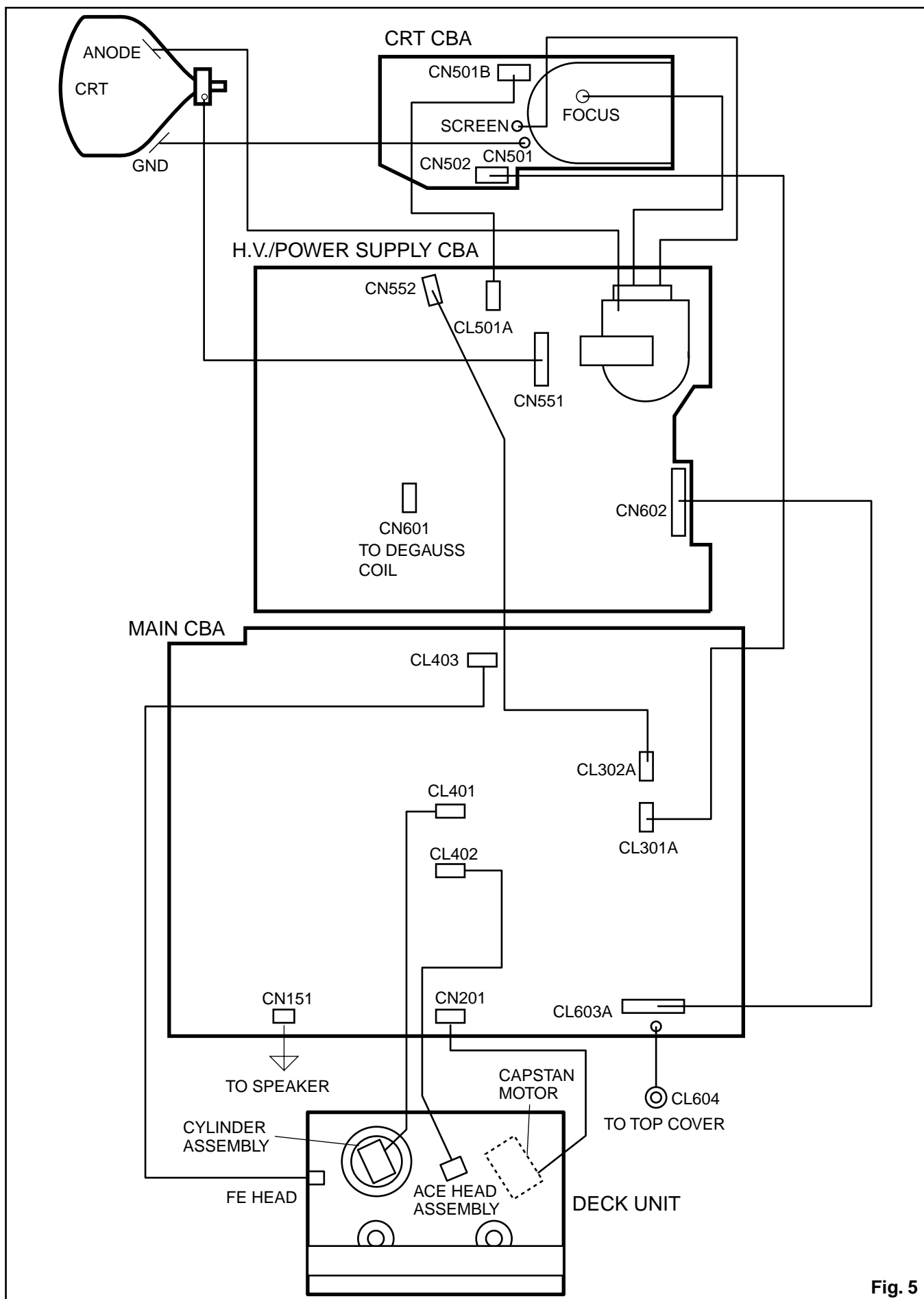


Fig. 5

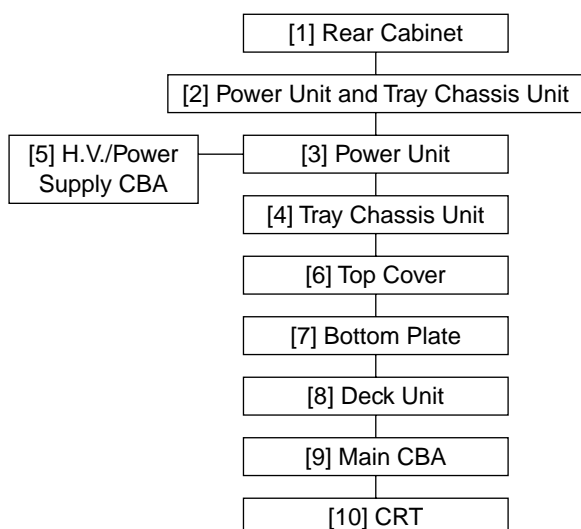
[T6607VF]

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.

Caution !!

When removing the CRT, be sure to discharge the Anode Lead of the CRT with the CRT Ground Wire before removing the Anode Cap.



2. Disassembly Method

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/ *UNHOOK/ UNLOCK/RELEASE/ UNPLUG/ DESOLDER	Note
[1]	Rear Cabinet	1,2,5	6(S-1), 2(S-2), *CN151	1
[2]	Power Unit and Tray Chassis Unit	3,4,5	Anode Cap, *CN501, *CN551, *CN601, CRT CBA, Power Knob	2
[3]	Power Unit	3,5	*CN502, *CN552, *CN602	3
[4]	Tray Chassis Unit	3	-----	-
[5]	H.V./Power Supply CBA	3	6(S-3)	4
[6]	Top Cover	3	5(S-4), CL604	5
[7]	Bottom Plate	3	(S-5)	6

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/ *UNHOOK/ UNLOCK/RELEASE/ UNPLUG/ DESOLDER	Note
[8]	Deck Unit	3, 5	7(S-6), (S-7), (S-8), Desolder *(CN201, CL401, CL402, CL403)	7
[9]	Main CBA	3	4(S-9)	8
[10]	CRT	4	4(S-10)	9

↓ ↓ ↓ ↓ ↓
 (1) (2) (3) (4) (5)

(1): Order of steps in Procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the identification (location) No. of parts in Figures.

(2): Parts to be removed or installed.

(3): Fig. No. showing Procedure of Part Location.

(4): Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

S=Screw, P=Spring, L=Locking Tab, CN=Connector, *=Unhook, Unlock, Release, Unplug, or Desolder

2(S-2) = two Screw (S-2)

(5): Refer to the following "Reference Notes in the Table."

Reference Notes in the Table

1. Removal of the Rear Cabinet.
Remove six screws (S-1) and two screws (S-2). Disconnect connector CN151 and remove the Rear Cabinet.

Caution !!

Discharge the Anode Lead of the CRT with the CRT Ground Wire before removing the Anode Cap.

2. Removal of the Power Unit and Tray Chassis Unit.
Discharge the Anode Lead of the CRT with the CRT Ground before removing the Anode Cap. Disconnect the following: Anode Cap, CN501, CN551, CN601, CRT CBA, and Power Button. Then pull the Power Unit and Tray Chassis Unit out backward.

3. Removal of the Power Unit.
Disconnect connectors CN502, CN552, and CN602. Then slide the Power Unit out.

4. Removal of the H.V./Power Supply CBA.
Remove six screws (S-3) and pull up the H.V./Power Supply CBA.

5. Removal of the Top Cover.
Remove five screws (S-4) and CL604, and remove the Top Cover.

6. Removal of the Bottom Plate.
Remove a screw (S-5). Then slide the Bottom Plate out front.
7. Removal of the Deck Unit.
Remove seven screws (S-6), screw (S-7) and screw (S-8). Then, desolder connectors (CN201, CL401, CL402, CL403) and lift up the Deck Unit.
8. Removal of the Main CBA.
Remove four screws (S-9) and pull up the Main CBA.
9. Removal of the CRT.
Remove four screws (S-10) and pull the CRT backward.

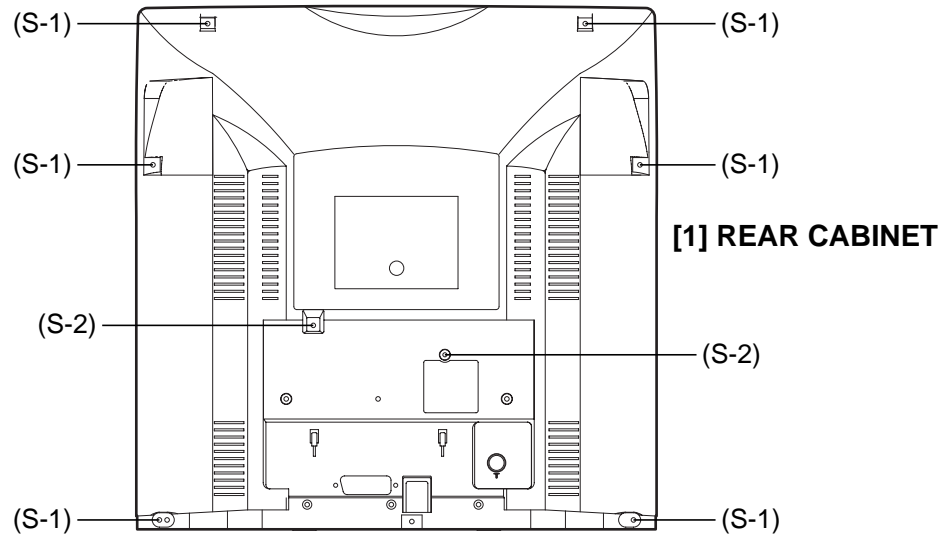


Fig. 1

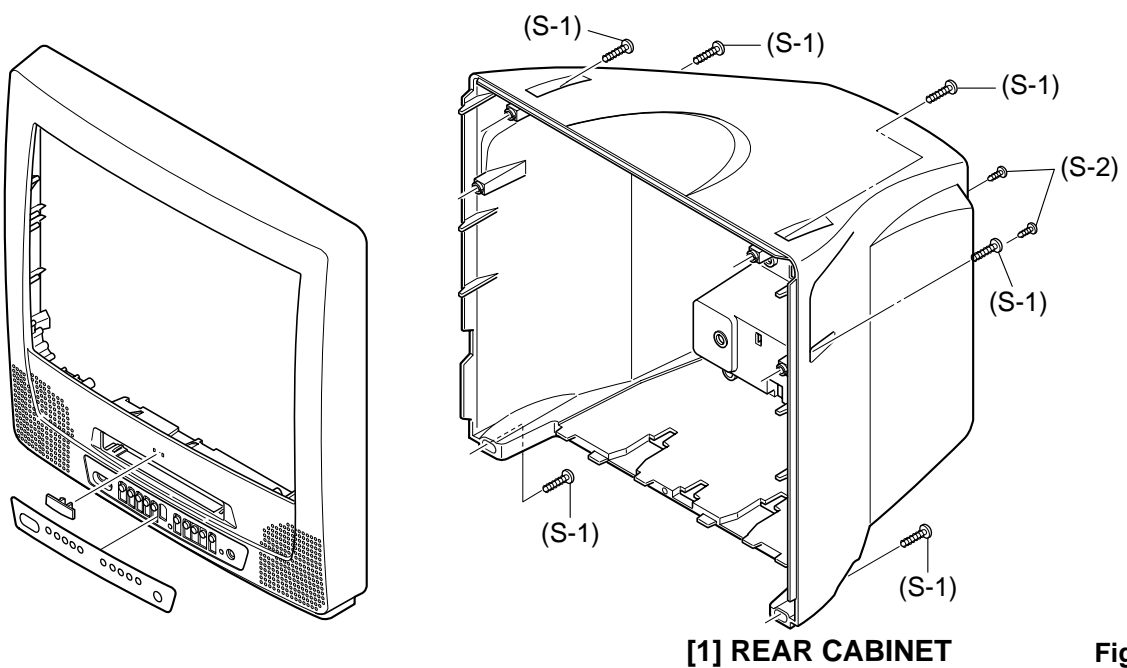


Fig. 2

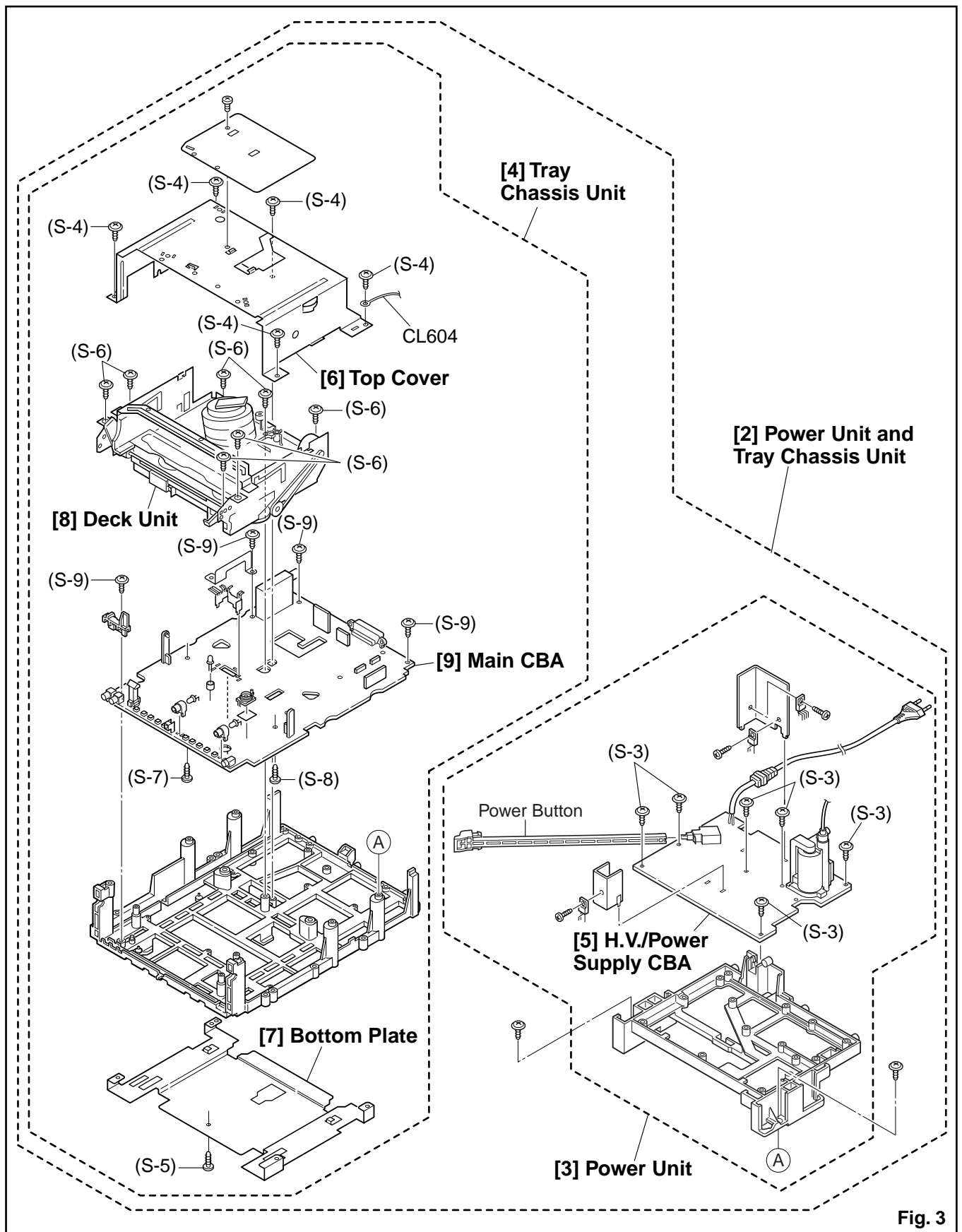


Fig. 3

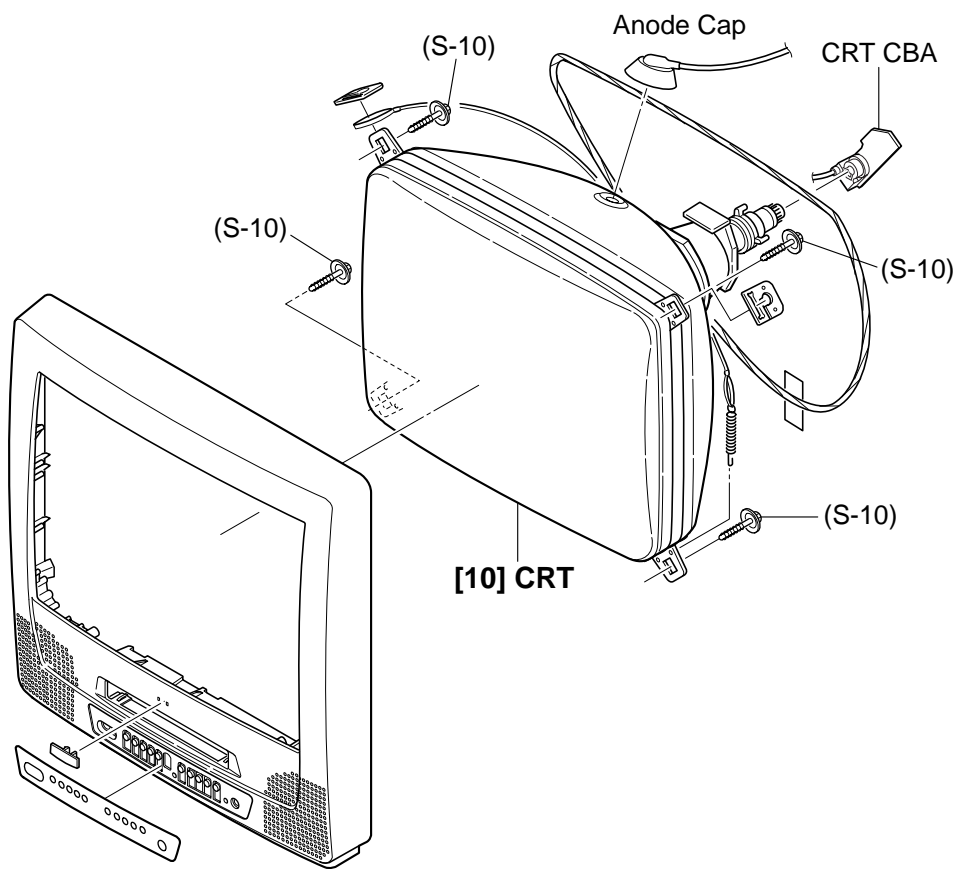


Fig. 4

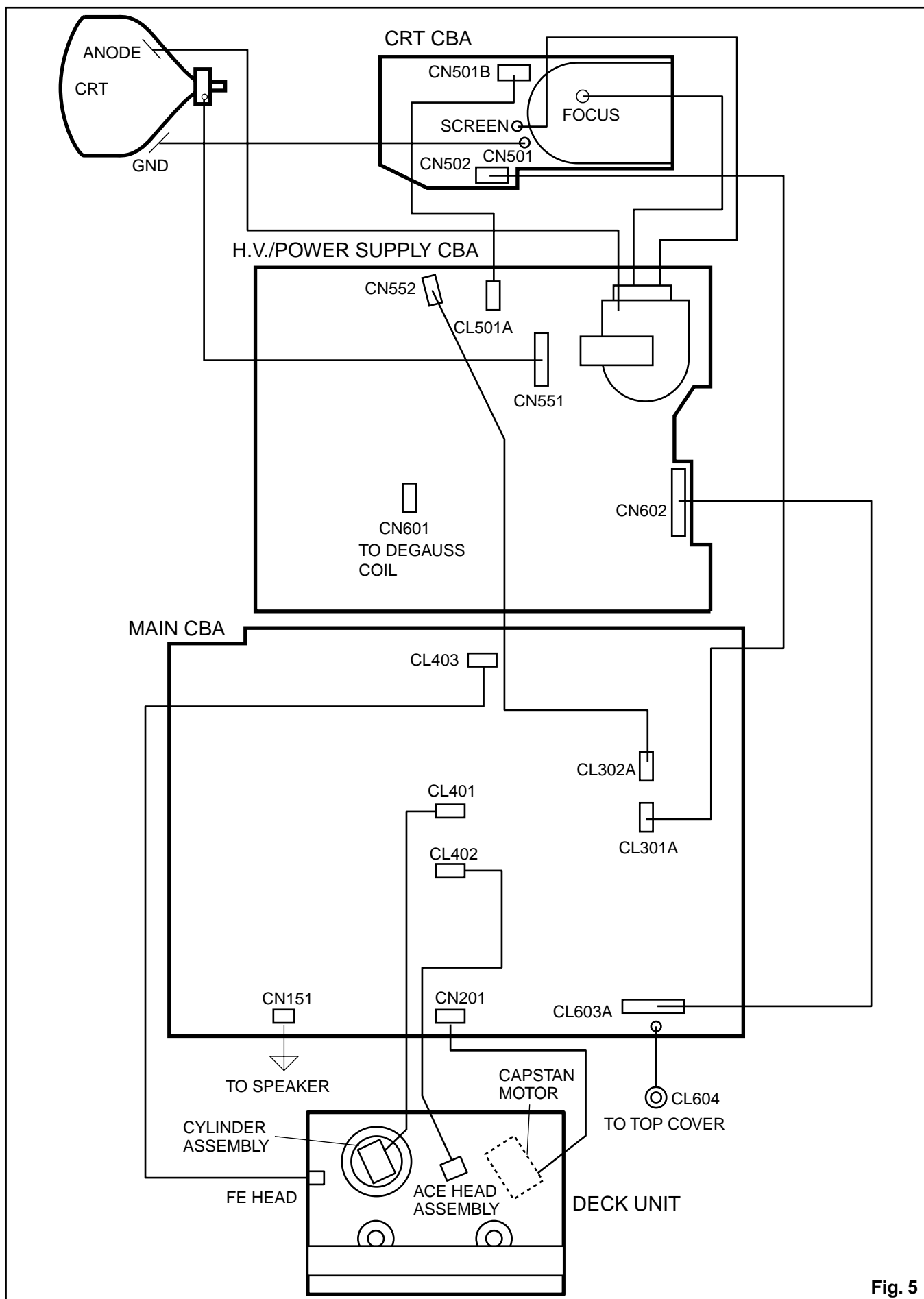


Fig. 5

ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note:

"CBA" is abbreviation for "Circuit Board Assembly."

NOTE:

Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed.

Also, do not attempt these adjustments unless the proper equipment is available.

Test Equipment Required

1. PAL Pattern Generator (Color Bar, Monoscope, Black Raster, White Raster, Sympte)
2. SECAM Pattern Generator (Gray Scale)
3. AC Milli Voltmeter (RMS)
4. Alignment Tape (FL6A), Blank Tape (E180)
5. DC Voltmeter
6. Oscilloscope: Dual-trace with 10:1 probe,
V-Range: 0.001~50V/Div,
F-Range: DC~AC-60MHz
7. Frequency Counter
8. Plastic Tip Driver
9. RF input (at each broadcasting system)
Receiving Channel : VHF Low
Input level : 80dB μ V
10. Ext.input
FRONT VIDEO-IN JACK or REAR SCART JACK

How to Set up the Service mode:

NOTE:

After replacing the IC202 (Memory) or Main CBA, the set value in IC202 (Memory) will be lost. So it is necessary to set up or adjust in the Service mode after its replacement.

Service Mode:

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

How to set up the option code

1. Enter the Service mode.
2. Press the [STATUS] button on the remote control unit. The option code appears on the display.
3. If needed, input the option code (0130) using number buttons on the remote control unit.
4. To reset the software, press [PAUSE] and [5] buttons on the remote control unit.
The option code is changed.

[T6605VF]

1. DC 105V (+B) Adjustment

Purpose: To obtain correct operation.

Symptom of Misadjustment: The picture is dark and unit does not operate correctly.

Test point	Adj. Point	Mode	Input
TP503 (+B), TP504 (GND)	VR601	RF (or Ext.)	Color Bar
Tape	M. EQ.	Spec.	
---	DC Voltmeter, Plastic Tip Driver	+105±0.5V DC	

Note: TP503(+B), TP504(GND), VR601 --- H.V./Power Supply CBA

1. Connect the unit to AC Power Outlet. (exact AC230V)
2. Input a color bar signal from RF (or Ext.) input and leave it for at least 20 minutes.
3. Connect DC Volt Meter to TP503(+B) and TP504(GND).
4. Adjust VR601 so that the voltage of TP503(+B) becomes +105±0.5V DC.

[T6705VF]

1. DC 114V (+B) Adjustment

Purpose: To obtain correct operation.

Symptom of Misadjustment: The picture is dark and unit does not operate correctly.

Test point	Adj. Point	Mode	Input
TP503 (+B), TP504 (GND)	VR601	RF (or Ext.)	Color Bar
Tape	M. EQ.	Spec.	
---	DC Voltmeter, Plastic Tip Driver	+114±0.5V DC	

Note: TP503(+B), TP504(GND), VR601 --- H.V./Power Supply CBA

1. Connect the unit to AC Power Outlet. (exact AC230V)
2. Input a color bar signal from RF (or Ext.) input and leave it for at least 20 minutes.
3. Connect DC Volt Meter to TP503(+B) and TP504(GND).
4. Adjust VR601 so that the voltage of TP503(+B) becomes +114±0.5V DC.

2. H Adjustment

Purpose: To get correct horizontal position and size of screen image.

Symptom of Misadjustment: Horizontal position and size of screen image may not be properly displayed.

Test point	Adj. Point	Mode	Input
R590	PROG+/PROG- buttons	Ext.	---
Tape	M. EQ.	Spec.	
---	Frequency Counter	15.625kHz±250Hz	

Note: R590 --- H.V./Power Supply CBA

1. Connect Frequency Counter to R590.
2. Set the unit to the Ext. mode and no input is necessary. Enter the Service mode.
(See page 1-6-1.)
3. Operate the unit for at least 20 minutes.
4. Press [2] button on the remote control unit and select H-Adj mode.
5. Press [PROG+/PROG-] buttons on the remote control unit so that the display will change [0] to [7.]
At this moment, choose display [0] to [7] when the Frequency counter display is closest to 15.625kHz±250Hz.
6. Turn the power off and on again.

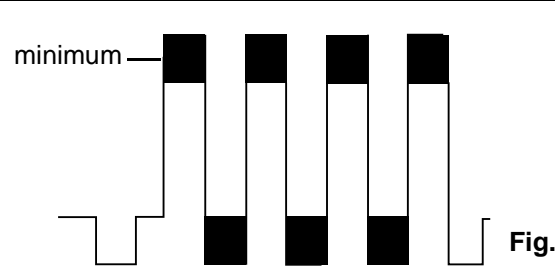
3. C-Trap Adjustment

Purpose: To get minimum leakage of the color signal carrier.

Symptom of Misadjustment: If C-Trap Adjustment is incorrect, stripes will appear on the screen.

Test point	Adj. Point	Mode	Input
J349F3 (B-OUT)	PROG+/PROG- buttons	RF (or Ext.)	Color Bar
Tape	M. EQ.	Spec.	
---	Oscilloscope, Pattern Generator	200mVp-p Max.	

Figure



The figure shows an oscilloscope waveform with four pulses. The first pulse is labeled 'minimum' and is the lowest in amplitude. The subsequent three pulses are higher and have black bars at their peaks. The label 'Fig. 1' is at the bottom right.

Note: J349F3 (B-Out)--- Main CBA

1. Connect Oscilloscope to J349F3.
2. Input a color bar signal from RF (or Ext.) input. Enter the Service mode. (See page 1-6-1.)
3. Press [0] button on the remote control unit and select C-TRAP mode.
4. Press [PROG+/PROG-] buttons on the remote control unit so that the carrier leakage B-Out (4.43MHz) value becomes minimum on the oscilloscope.
5. Turn the power off and on again.

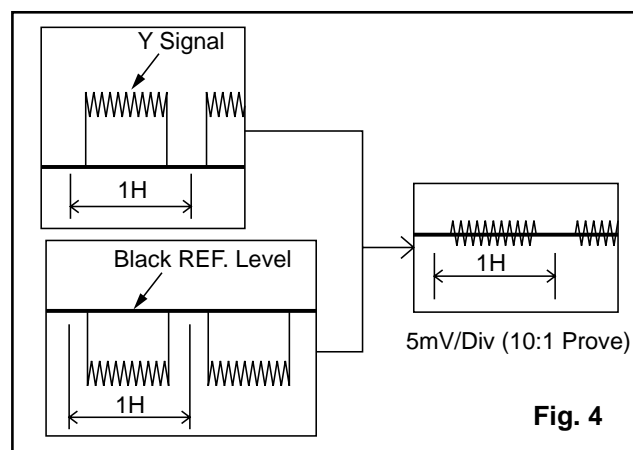
4. SECAM Black Level Adjustment

Purpose: To set Black Level of the SECAM signal R-Y/B-Y to Ref. level.

Symptom of Misadjustment: If Black Level of the SECAM signal R-Y/B-Y is incorrect, the picture is bluish or reddish in grayscale compared with PAL signal.

Test point	Adj. Point	Mode	Input
J361G4	PROG+/PROG- buttons	Ext.	SECAM Gray Scale
Tape	M. EQ.	Spec.	
---	Pattern Generator, Analog Oscilloscope (unusable Digital Oscilloscope)	---	

1. Degauss the CRT and allow CRT to operate for 20 minutes before starting the alignment.
2. Input the SECAM Gray Scale signal from Ext. input.
3. Enter the service mode. (See page 1-6-1.)
4. To enter the C/D/S mode, press [VOL-] on the remote control unit.
5. To select SBR (SECAM Black Level R-Y), press [6] button on the remote control unit.
6. Press [PROG+/PROG-] buttons to adjust Y signal to the black ref. level.
7. To select SBB (SECAM Black Level B-Y), press [7] button on the remote control unit.
8. Press [PROG+/PROG-] buttons to adjust Y signal to the black ref. level.



5. V. Size Adjustment

Purpose: To obtain correct vertical height of screen image.

Symptom of Misadjustment: If V. Size is incorrect, vertical height of image on the screen may not be properly displayed.

Test point	Adj. Point	Mode	Input
Screen	PROG+/PROG- buttons	RF (or Ext.)	Monoscope
Tape	M. EQ.	Spec.	
---	Pattern Generator	90±5%	

1. Enter the Service mode. (See page 1-6-1.)
Press [9] button on the remote control unit and select V-S mode. (Press [9] button then display will change to V-P and V-S).
2. Input monoscope pattern and leave it for at least 20 minutes.
3. Press [PROG+/PROG-] buttons on the remote control unit so that the monoscope pattern is 90±5% of display size and the circle is round.

6. V. Shift Adjustment

Purpose: To obtain correct vertical position of screen image.

Symptom of Misadjustment: If V. position is incorrect, vertical position of image on the screen may not be properly displayed.

Test point	Adj. Point	Mode	Input
Screen	PROG+/PROG- buttons	RF (or Ext.)	Monoscope
Tape	M. EQ.	Spec.	
---	Pattern Generator	90±5%	

1. Enter the Service mode. (See page 1-6-1.)
Press [9] button on the remote control unit and select V-P mode. (Press [9] button then display will change to V-P and V-S).
2. Input monoscope pattern and leave it for at least 20 minutes.
3. Press [PROG+/PROG-] buttons on the remote control unit so that the top and bottom of the monoscope pattern are equal to each other.

7. H. Shift Adjustment

Purpose: To obtain correct horizontal position and size of screen image.

Symptom of Misadjustment: Horizontal position and size of screen image may not be properly displayed.

Test point	Adj. Point	Mode	Input
Screen	PROG+/PROG- buttons	RF (or Ext.)	Monoscope
Tape	M. EQ.	Spec.	
---	Pattern Generator	90±5%	

1. Enter the Service mode. (See page 1-6-1.)
Press [8] button on the remote control unit and select H-P mode.
2. Input monoscope pattern and leave it for at least 20 minutes.
3. Press [PROG+/PROG-] buttons on the remote control unit so that the left and right side of the monoscope pattern are equal to each other.
4. Turn the power off and on again.

8. Cut-off Adjustment

Purpose: To adjust the beam current of R, G, B, and screen voltage.

Symptom of Misadjustment: White color may be reddish, greenish or bluish.

Test point	Adj. Point	Mode	Input
Screen	Screen-Control, PROG+/PROG- buttons	RF (or Ext.)	Black Raster
Tape	M. EQ.	Spec.	
---	Pattern Generator	See Reference Notes below	

Notes:

Screen Control (FBT) --- H.V./Power Supply CBA
FBT= Fly Back Transformer
Use the Remote Control Unit

1. Degauss the CRT and allow CRT to operate for 20 minutes before starting the alignment.
2. Set the screen control to minimum position. Input the Black raster signal from RF (or Ext.) input.
3. Enter the service mode. (See page 1-6-1.)
Dimmed horizontal line appears on the CRT.
4. To enter the C/D/S mode, press the [VOL-] button on the remote control unit.
5. To enter the CUT OFF (R) mode, press [1] button on the remote control unit.
6. Turn the screen control up until dimmed horizontal line appears.

7. Press the [PROG+/PROG-] buttons until the horizontal line becomes white.
8. To enter the CUT OFF (G) mode, press [2] button on the remote control unit.
9. Press the [PROG+/PROG-] buttons until the horizontal line becomes white.
10. To enter the CUT OFF (B) mode, press [3] button on the remote control unit.
11. Press the [PROG+/PROG-] buttons until the horizontal line becomes white.
12. Turn the screen control so that the horizontal line adjusted white looks lightly.
13. Turn the power off and on again.

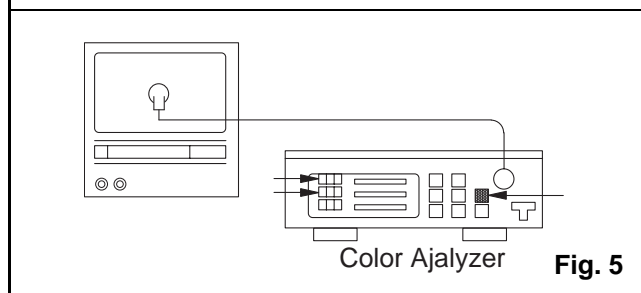
9. White Balance Adjustment

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	Screen-Control, PROG+/PROG- buttons	RF (or Ext.)	White Raster (APL 100%)
Tape	M. EQ.	Spec.	
---	Pattern Generator, Color analyzer	See below	

Figure



Note: Use remote control unit

1. Operate the unit more than 20 minutes.
2. Face the unit to east. Degauss the CRT using De-gaussing Coil.
3. Input the White Raster (APL 100%).
4. Set the color analyzer to the CHROMA mode and after zero point calibration, bring the optical receptor to the center on the tube surface (CRT).
5. Enter the Service mode. Press [VOL-] button on the remote control.
6. Press [4] button on the remote control unit for Red adjustment. Press [5] button on the remote control unit for Blue adjustment.
7. In each color mode, Press [PROG+/PROG-] buttons to adjust the values of color.
8. Adjusting Red and Blue color so that the temperature becomes 8500K (x : 290 / y : 300) $\pm 3\%$.
9. At this time, Re-check that Horizontal line is white. If not, Re-adjust Cut-off Adjustment until the Horizontal Line becomes pure white.
10. Turn off and on again to return to normal mode. Receive APL 100% white signal and Check Chroma temperatures become 8500K (x : 290 / y : 300) $\pm 3\%$.

Note: Confirm that Cut Off Adj. is correct after this adjustment, and attempt Cut Off Adj. if needed.

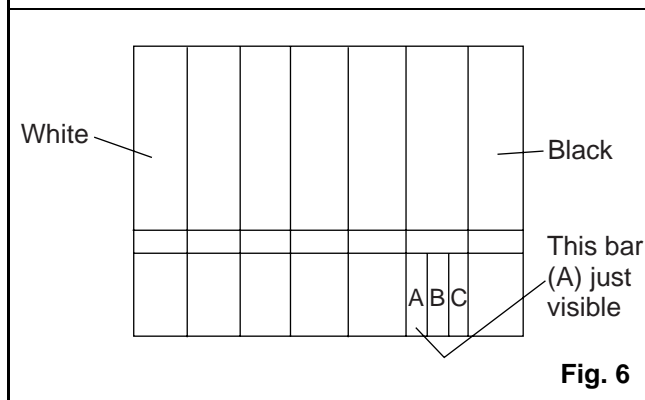
10. Sub-Brightness Adjustment

Purpose: To get proper brightness.

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

Test point	Adj. Point	Mode	Input
Screen	PROG+/PROG- buttons	RF (or Ext.)	SYMPTE
Tape	M. EQ.	Spec.	
---	Pattern Generator	See below	

Figure



Note: Bar (A) in Fig. 7 --- 0 IRE

1. Enter the service mode. (See page 1-6-1.) Then input SYMPTE signal from RF (or Ext.) input and leave it for at least 20 minutes.
2. Press [MENU] button. (Each time [MENU] button is pressed, display will change BRT, CNT, COL, TNT, and SHP in that order.) Select BRT and press [PROG+/PROG-] buttons so that the bar (A) in Fig. 6 is just visible.
3. Turn the power off and on again.

11. Setting for CONTRAST, COLOR, TINT and SHARP Data Values

General

1. Enter the Service mode. (See page 1-6-1)
2. Press [MENU] button. (Each time [MENU] button is pressed, display will change BRT, CNT, COL, TNT, and SHP in that order.)

CONTRAST (CNT)

1. Press [MENU] button on the remote control unit. Then select CNT display.
2. Press [PROG+/PROG-] buttons on the remote control unit so that the value of "CONTRAST" (CNT) becomes 83.

COLOR (COL)

1. Press [MENU] button on the remote control unit. Then select "COLOR" (COL) display.
2. Press [PROG+/PROG-] buttons on the remote control unit so that the value of "COLOR" (COL) becomes 65.

TINT (TNT)

1. Press [MENU] button on the remote control unit. Then select "TINT" (TNT) display.
2. Press [PROG+/PROG-] buttons on the remote control unit so that the value of "TINT" (TNT) becomes 68.

SHARP (SHP)

[T6605VF]

1. Press [MENU] button on the remote control unit. Then select "SHARP" (SHP) display.
2. Press [PROG+/PROG-] buttons on the remote control unit and select "1."

[T6705VF]

1. Press [MENU] button on the remote control unit. Then select "SHARP" (SHP) display.
2. Press [PROG+/PROG-] buttons on the remote control unit and select "0."

12. Focus Adjustment

Purpose: Set the optimum Focus.

Symptom of Misadjustment: If Focus Adjustment is incorrect, blurred images are shown on the display.

Test point	Adj. Point	Mode	Input
Screen	Focus Control	RF (or Ext.)	Monoscope
Tape	M. EQ.	Spec.	
---	Pattern Generator	See below.	

Note: Focus VR (FBT) --- H.V./Power Supply CBA

FBT= Fly Back Transformer

1. Operate the unit more than 30 minutes.
2. Face the unit to the East and degauss the CRT using a Degaussing Coil.
3. Input the monoscope pattern.
4. Adjust the Focus Control on the FBT to obtain clear picture.

13. Head Switching Position Adjustment

Purpose: Determine the Head Switching Position during Playback.

Symptom of Misadjustment: May cause Head Switching Noise or Vertical Jitter in the picture.

Note: Unit reads Head Switching Position automatically and displays it on the screen (Upper Left Corner).

Manual Adjustment

1. Enter the service mode. (See page 1-6-1.)
2. Playback the test tape (FL6A).
3. Press the number [5] button on the remote control unit.
4. The Head Switching position will display on the screen; if adjustment is necessary follow step 4. 7.0H (448μs) is preferable.
5. Press [PROG+/PROG-] buttons on the remote control unit if necessary. The value will be changed in 0.5H steps up or down. Adjustable range is up to 9.5H. If the value is beyond adjustable range, the display will change as:
Lower out of range: 0.0H
Upper out of range: -.H
6. Turn the power off and on again.

Auto Adjustment

1. Load the test tape (FL6A) that have been recorded the Head Switching Position Value.
2. Enter the service mode.
3. Press [3] button on the remote control unit in the tape stop mode. The unit playback and adjust the Head Switching Position automatically.
4. The adjusting report appears on upper left corner of the screen with blueback.
In case of adjusting correctly: the Head Switching Position Value recorded in the test tape (FL6A) is indicated with green.
In case of adjusting incorrectly: "NG" (red) is indicated with ejecting tape.

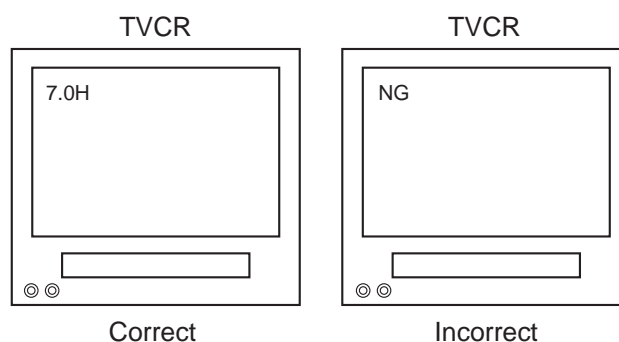
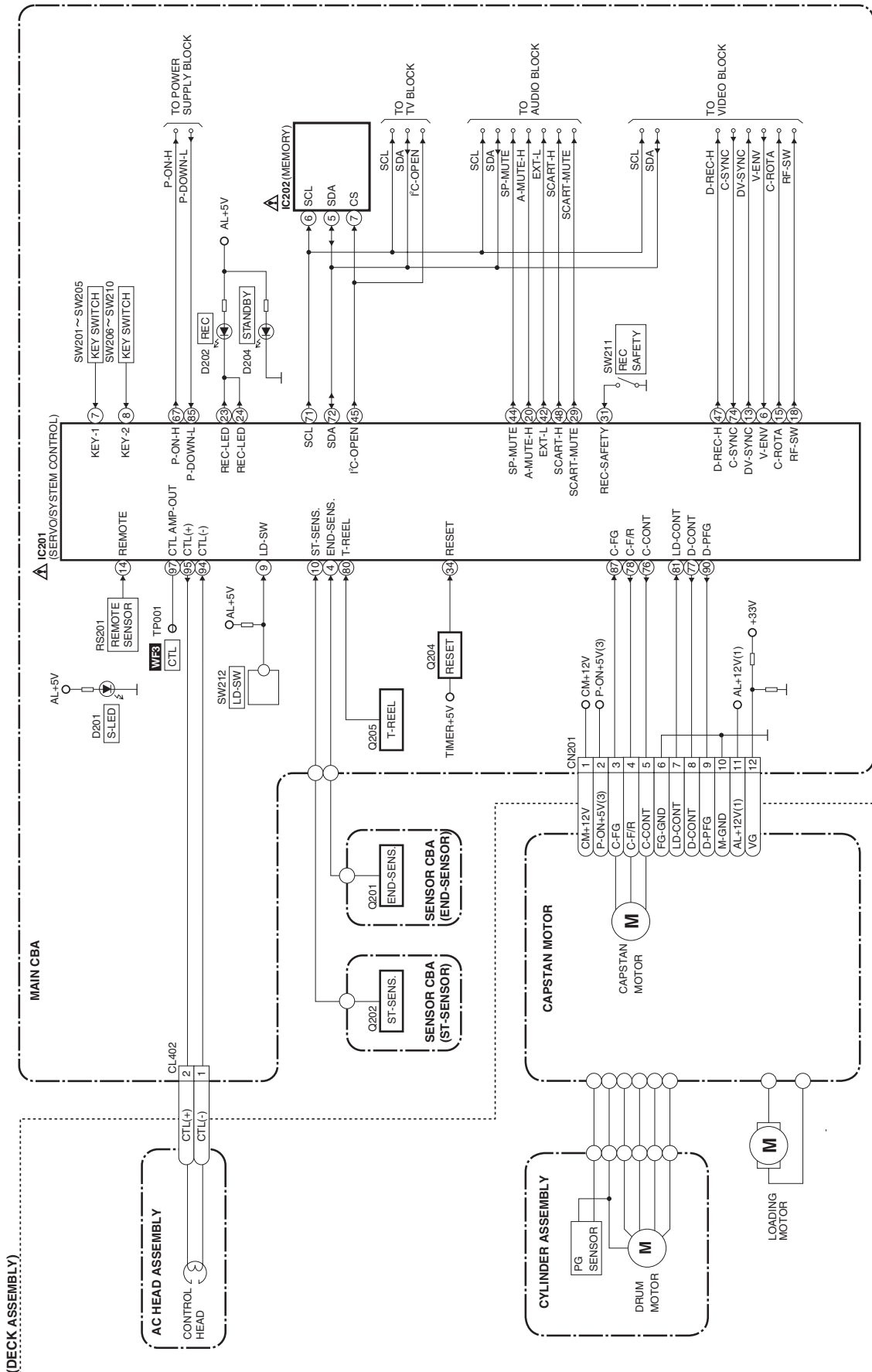
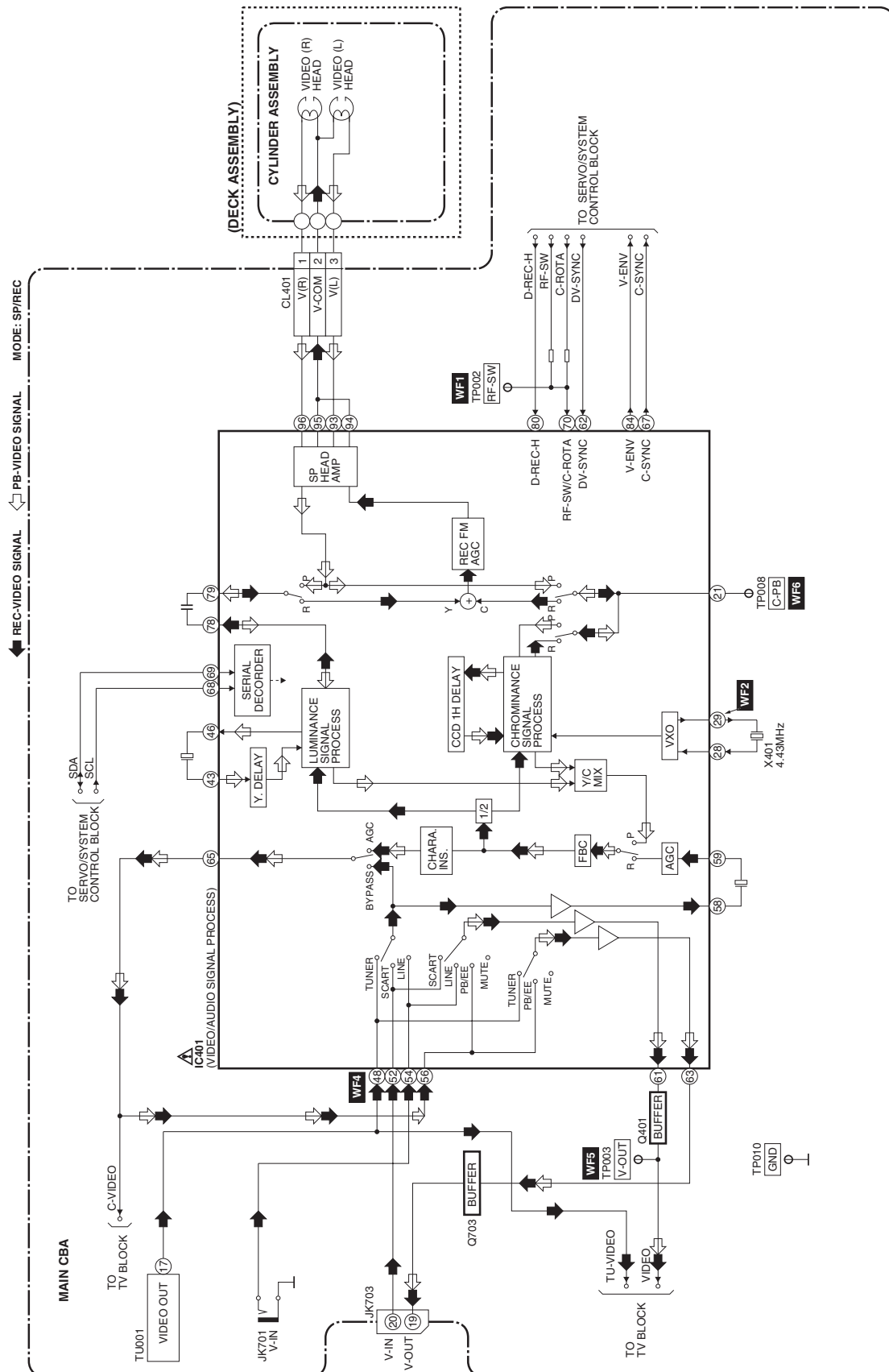


Fig. 7

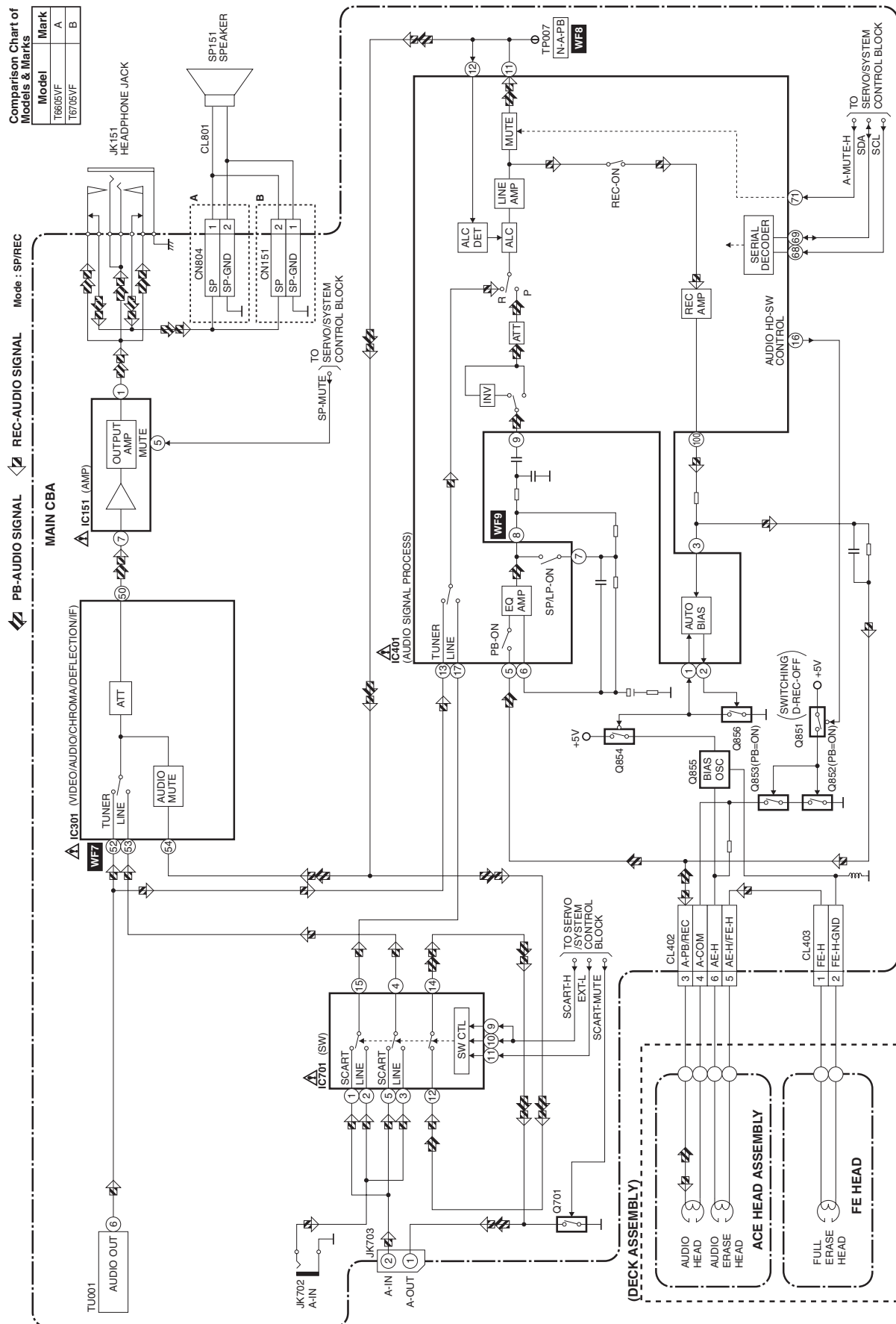
Servo/System Control Block Diagram



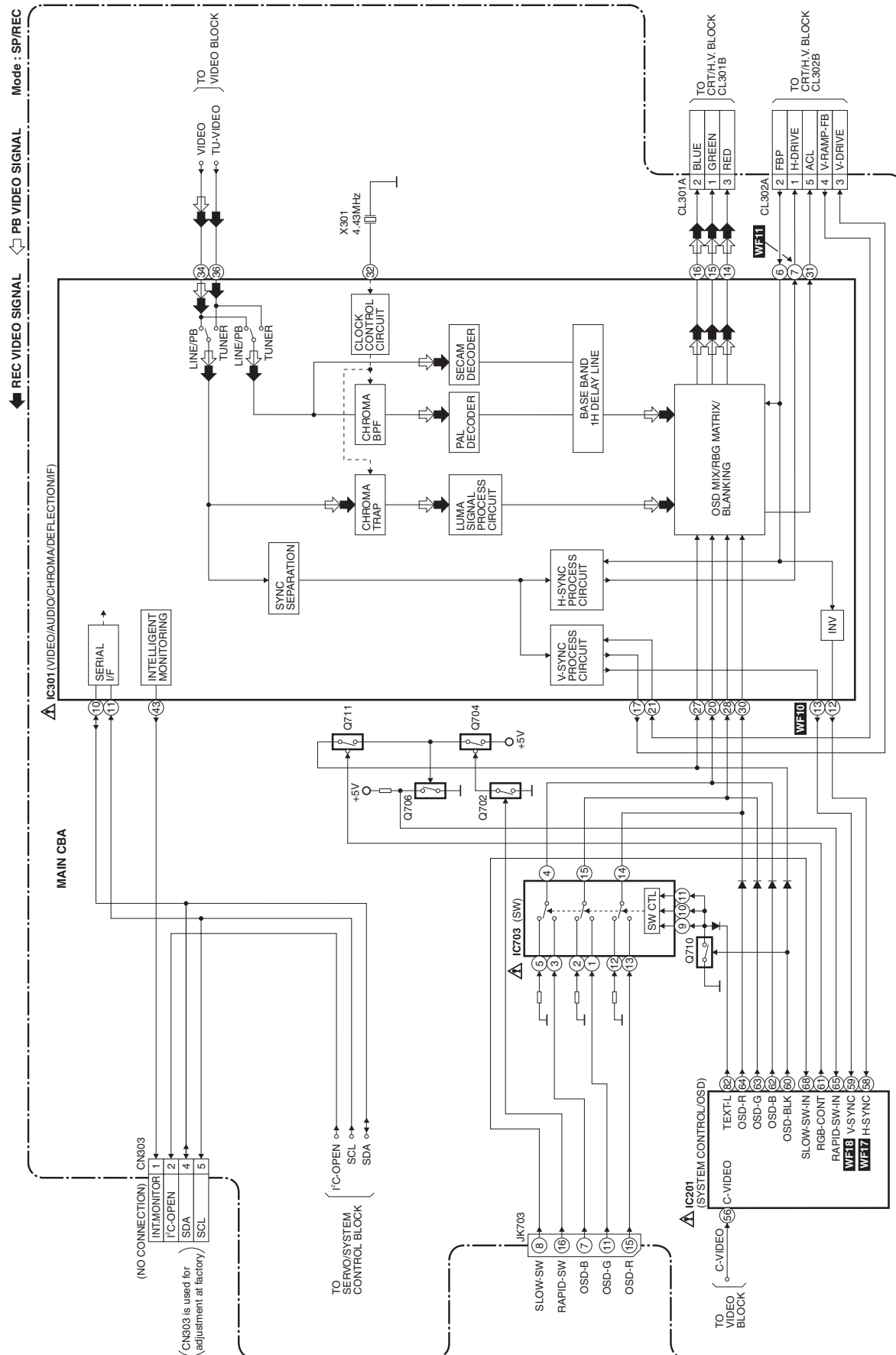
Video Block Diagram



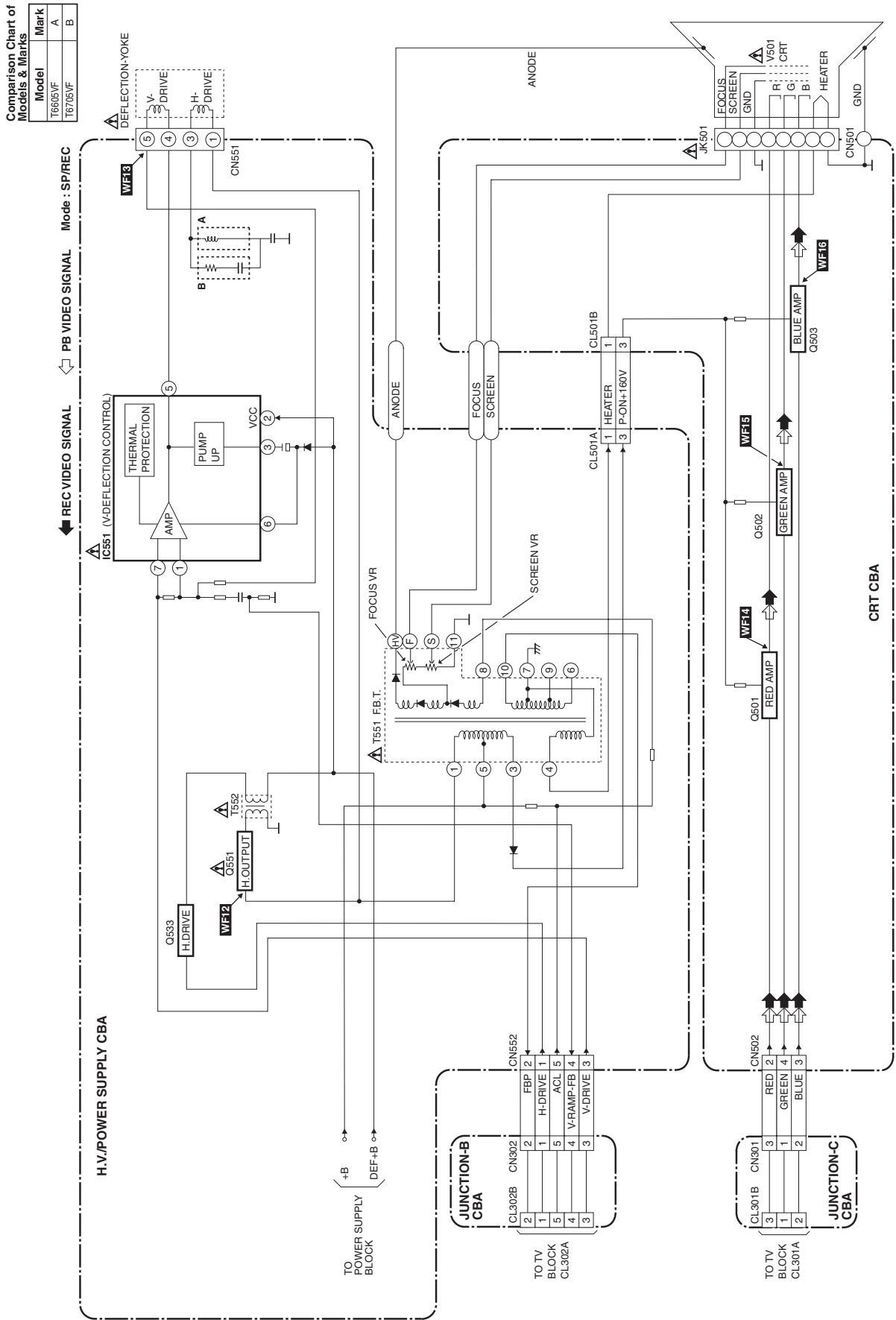
Audio Block Diagram



TV Block Diagram



CRT/H.V. Block Diagram



Power Supply Block Diagram

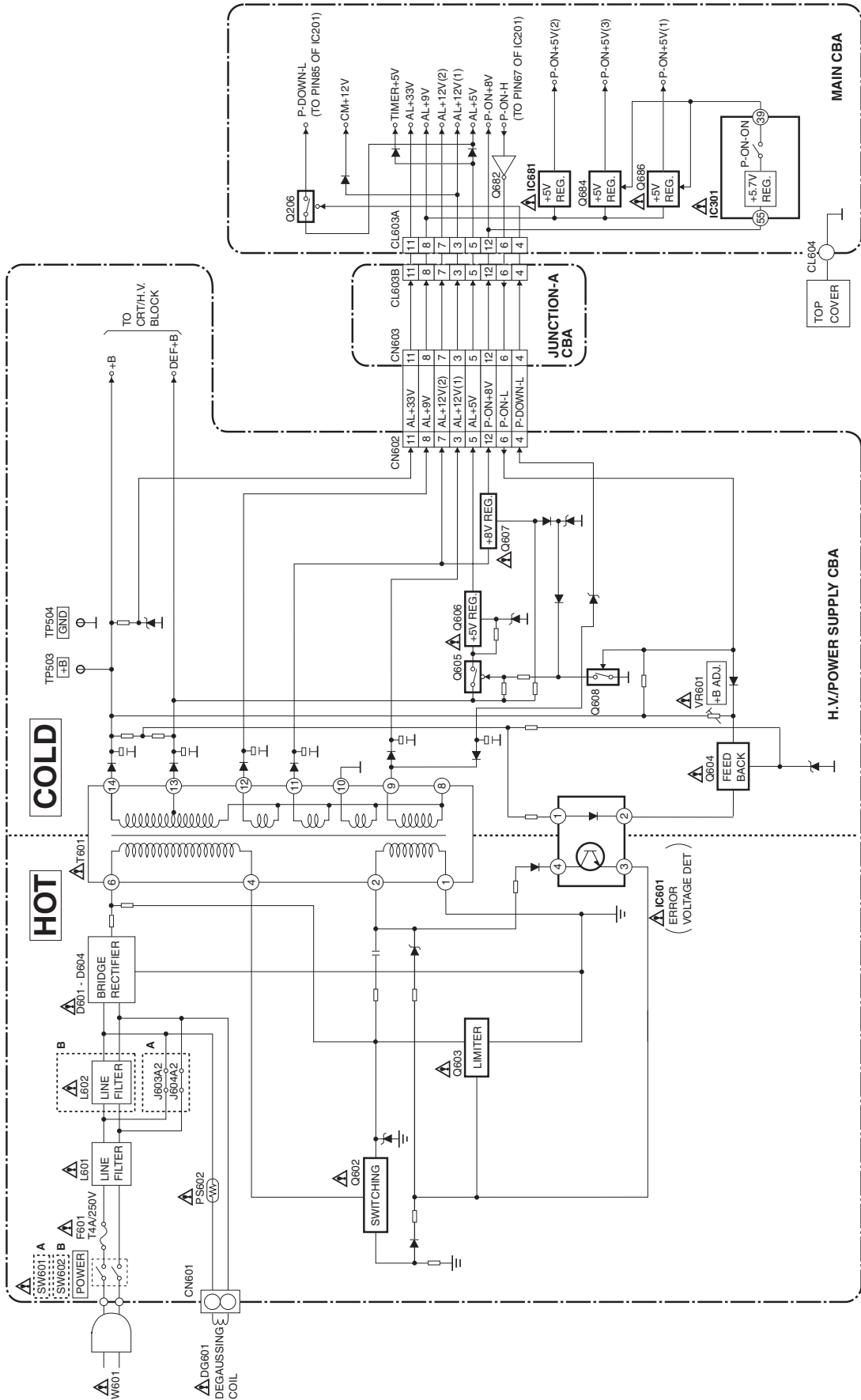
Comparison Chart of Models & Marks

Model	Mark
T6605VF	A
T6705VF	B

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

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE T4A/250V FUSE.

CAUTION !
Fixed voltage 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.



MECHANICAL TROUBLE INDICATOR

1, Each Malfunction Indication

If the MONITOR is turned ON right after the Mechanical Malfunction occurs or POWER SAFETY/X-RAY is turned ON, display the following character to show Malfunction after the EJECT display.

Immediately preceding Malfunction	Display character
REEL Malfunction	R
DRUM Malfunction	D
CASSETTE LOADING Malfunction	C
TAPE LOADING Malfunction	T
P-SAFETY 1	1
P-SAFETY 2	2
X-RAY	X

Example: If REEL Malfunction

EJECT R

2, Each Malfunction evaluation method

X-RAY protect

If X-RAY port becomes continuously 2.5V or more for 120 msec. (4 times 40 msec. interval), the unit shall immediately turn OFF the POWER/MONITOR and switch over to the Mechanical Malfunction mode with POWER OFF.

(To return from this mode shall become possible only by POWER Key as in the case of the Mechanical Malfunction).

POWER SAFETY

1) POWER SAFETY 1

If P-SAFETY 1 port becomes continuously 2.5V or less for 120 msec. (4 times 40 msec. interval) when MONITOR is ON, the unit shall be assumed to be the Power Malfunction 1 and immediately turn OFF the POWER/MONITOR and switch over the Mechanical Malfunction mode with POWER OFF.

(To return from this mode shall become possible only by POWER Key as in the case of the Mechanical Malfunction).

* However the POWER SAFETY 1 function shall be disabled during 500 msec. right after the MONITOR turns ON.

2) POWER SAFETY 2

If P-SAFETY 2 port becomes continuously 2.5V or less for 120 msec. (4 times 40 msec. interval) when P-ON-H port is ON, the unit shall be assumed to be the Power Malfunction 2 and immediately turn OFF the POWER/MONITOR and switch over the Mechanical Malfunction mode with POWER OFF.

(To return from this mode shall become possible only by POWER Key as in the case of the Mechanical Malfunction).

* However the POWER SAFETY 2 function shall be disabled during 500 msec. right after the P-ON-H port turns ON.

Mechanical Malfunction determination

1) REEL Malfunction detection

Countermeasure for REEL and CAPSTAN motor rotation malfunction (Except CASSETTE LOADING function)

After the Malfunction detection with REEL/CAPSTAN sensor, the unit shall switch over to STOP (B) and be REEL Mechanical Malfunction.

- a) If the T-REEL pulse is not impressed after a lapse of 7 sec. at SP, 14 sec. at LP, or more in the REEL Rotation Mode like PLAY/REC, FS/RS Mode, and the T-REEL or S-REEL pulse is not impress after a lapse of 4 sec. or more in REEL Rotation Mode of FF/REW, it shall be assumed to stop the rotation and switch over to STOP (B) position, then POWER be turned OFF and the unit be REEL Mechanical Malfunction. (T-REEL and S-REEL for the models on S-REEL and only T-REEL for other models)
- b) If the C-FG pulse is not impressed for a lapse of 1 sec. or more during the CAPSTAN MOTOR rotation, it shall be MOTOR Rotation Malfunction (REEL Malfunction).

2) DRUM Malfunction detection

Detect the DRUM rotation at the D-FG input terminal.

If the variation of D-FG input level is not detected for a lapse of 1 sec. or more when D-CONT is "H", it shall be assumed to be Rotation Malfunction and be DRUM Malfunction.

When detect Drum Malfunction, POWER shall be turned OFF after the unit switches over to STOP (B) Mode.

3) Countermeasure for TAPE LOADING Malfunction

Detect the Malfunction with the LOADING Switch.

a) TAPE LOADING Malfunction

If LD-SW does not go to the established position after a lapse of 7 sec. or more from TAPE LOADING or TAPE UNLOADING start, the LOADING function shall immediately be stopped and POWER be turned OFF, and inform the Timer about the LOADING Mechanical Malfunction.

b) LD-SW Position Malfunction at each mode

When the unit operates at each mode, even if the LD-SW position changes from the established one in its mode, it keeps the function according to its mode.

4) Countermeasure for CASSETTE LOADING Malfunction

a) CASSETTE IN operating Malfunction

If LD-SW does not go to SB position after a lapse of 5 sec. or more from the CASSETTE insertion start, the unit starts the CASSETTE OUT operation.

After switch over to CASSETTE OUT operation and then a lapse of 5 sec. or more from the CASSETTE OUT operation start, if LD-SW does not go to the EJ position or if START Sensor and END Sensor does not turn "ON" at the EJ position, the unit starts again to insert CASSETTE.

(However in S-INH state, the START/END Sensor shall be disabled).

b) CASSETTE OUT operating Malfunction

After a lapse of 5 sec. or more from CASSETTE OUT operation start, if LD-SW does not go to the EJ position or if START Sensor and END Sensor does not turn "ON" at the EJ position, the unit starts to insert CASSETTE.

(However in S-INH state, the START/END Sensor shall be disabled).



When the unit switches over to CASSETTE insertion at CASSETTE IN or CASSETTE OUT Malfunction, if LD-SW does not go to the SB position after a lapse of 5 sec. or more from CASSETTE insertion start, the function shall immediately be stopped and POWER be turned OFF, and the unit be CASSETTE LOADING Malfunction.

- c) When POWER is turned ON, if the CL position or GC position cannot be detected after 5 sec. LD-REV operation and 5 sec. LD-FWD operation, the function shall immediately be stopped and POWER be turned OFF, and the unit be CASSETTE LOADING Malfunction.

- d) When POWER is turned ON without CASSETTE (EJ position) and LD-SW is monitored all the time, if the CL or GC position is detected continuously for 1 sec. or more, the POWER shall be turned OFF and the unit be CASSETTE LOADING Malfunction.

Countermeasure for Mechanical Malfunction

If the unit detects Mechanical Malfunction, turn the POWER OFF. If the unit is Mechanical Malfunction, Key input except POWER key shall be disabled and CASSETTE insertion disabled. When POWER Key is entered, the POWER is turned ON and the unit switches over the EJECT Mode. (Return with POWER ON)

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.

Note:

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.

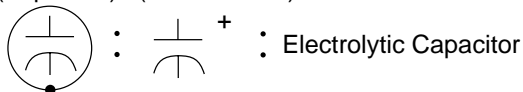
Capacitor Temperature Markings

Mark	Capacity change rate	Standard temperature	Temperature range
(B)	$\pm 10\%$	20°C	-25~+85°C
(F)	+30 -80%	20°C	-25~+85°C
(SR)	$\pm 15\%$	20°C	-25~+85°C
(Z)	+30 -80%	20°C	-10~+70°C

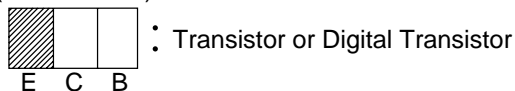
Capacitors and transistors are represented by the following symbols.

CBA Symbols

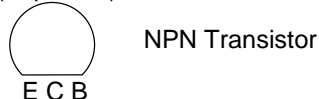
(Top View) (Bottom View)



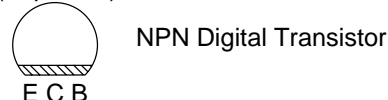
(Bottom View)



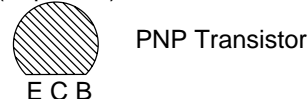
(Top View)



(Top View)



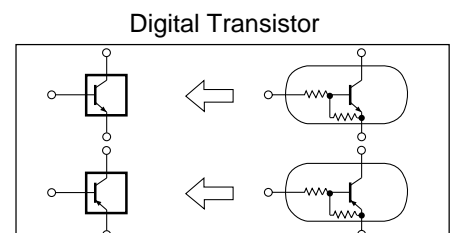
(Top View)



(Top View)



Schematic Diagram Symbols



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:

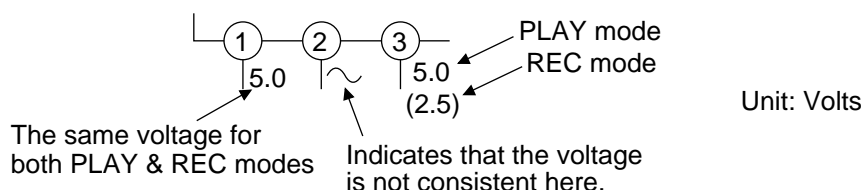
- (1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
- (2) To maintain original function and reliability of repaired units, use only original replacement parts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

4. Wire Connectors

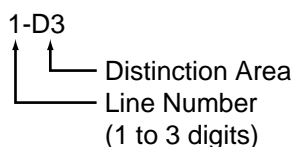
- (1) Prefix symbol "CN" means "connector" (can disconnect and reconnect).
- (2) Prefix symbol "CL" means "wire-solder holes of the PCB" (wire is soldered directly).

5. Mode: SP/REC

6. Voltage indications for PLAY and REC modes on the schematics are as shown below:

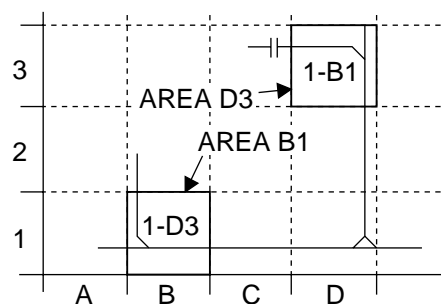


7. How to read converged lines



Examples:

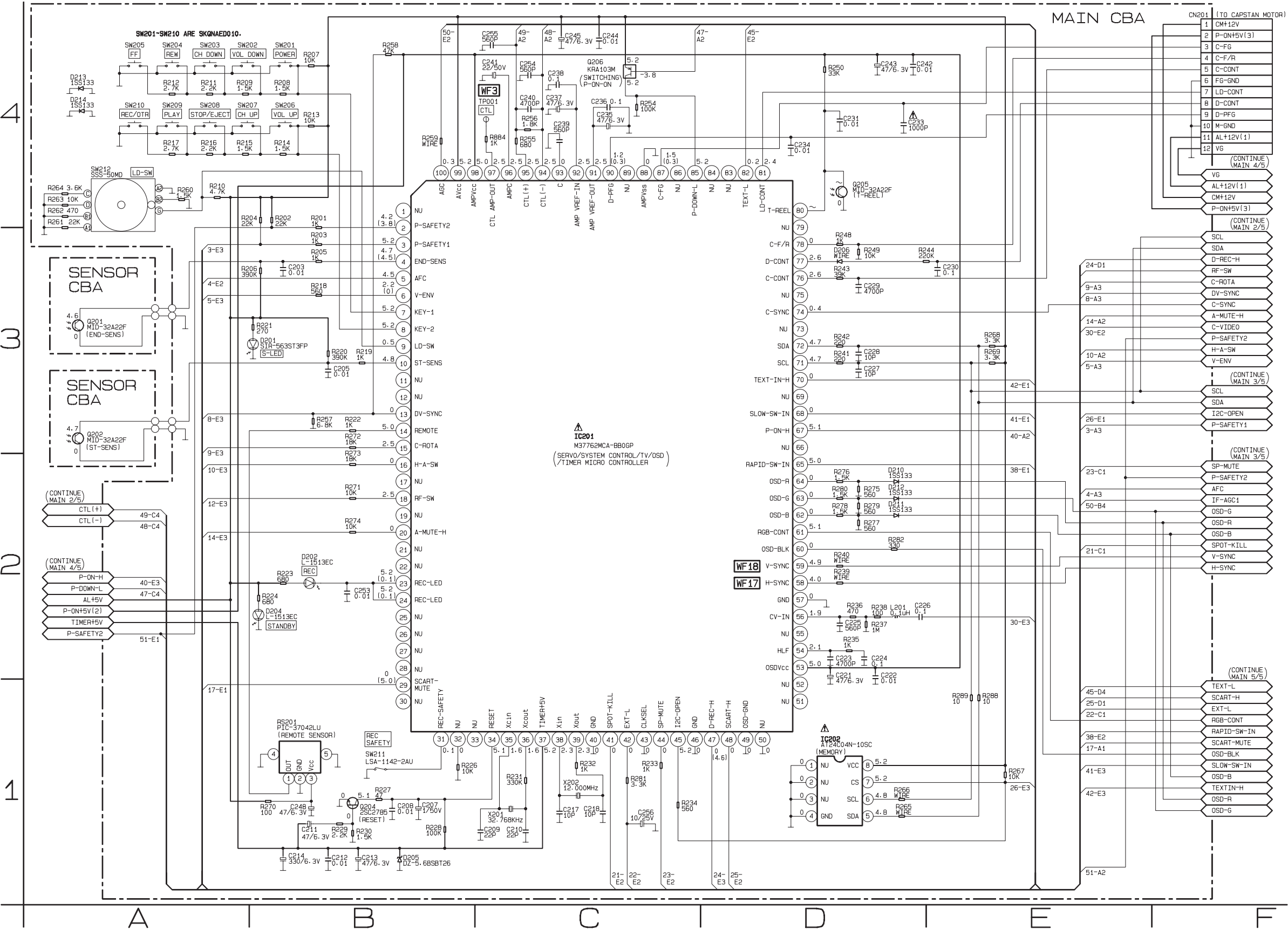
1. "1-D3" means that line number "1" goes to area "D3".
2. "1-B1" means that line number "1" goes to area "B1".



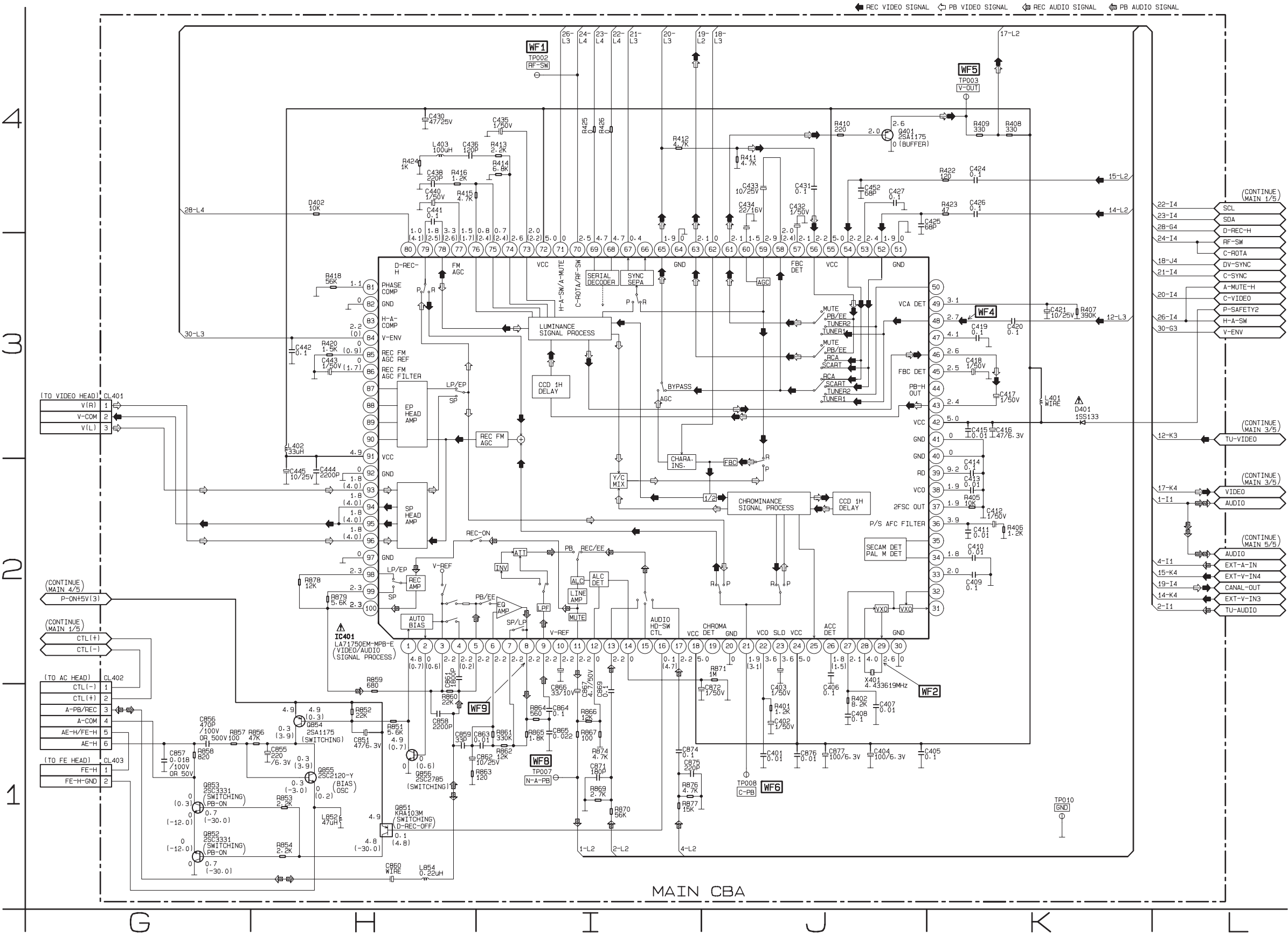
8. Test Point Information

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

Main 1/5 Schematic Diagram



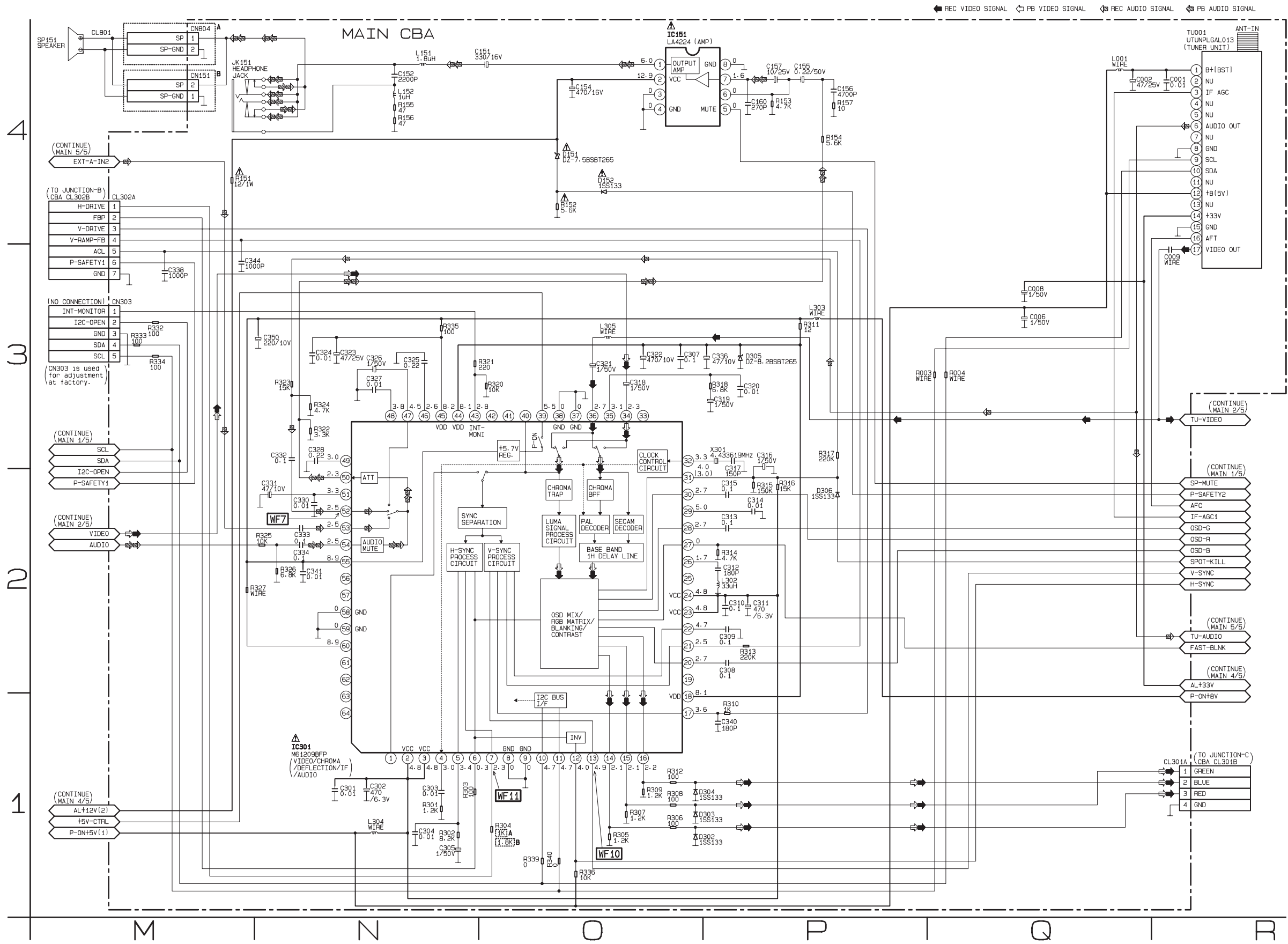
Main 2/5 Schematic Diagram



Main 3/5 Schematic Diagram

Comparison Chart of Models and Marks

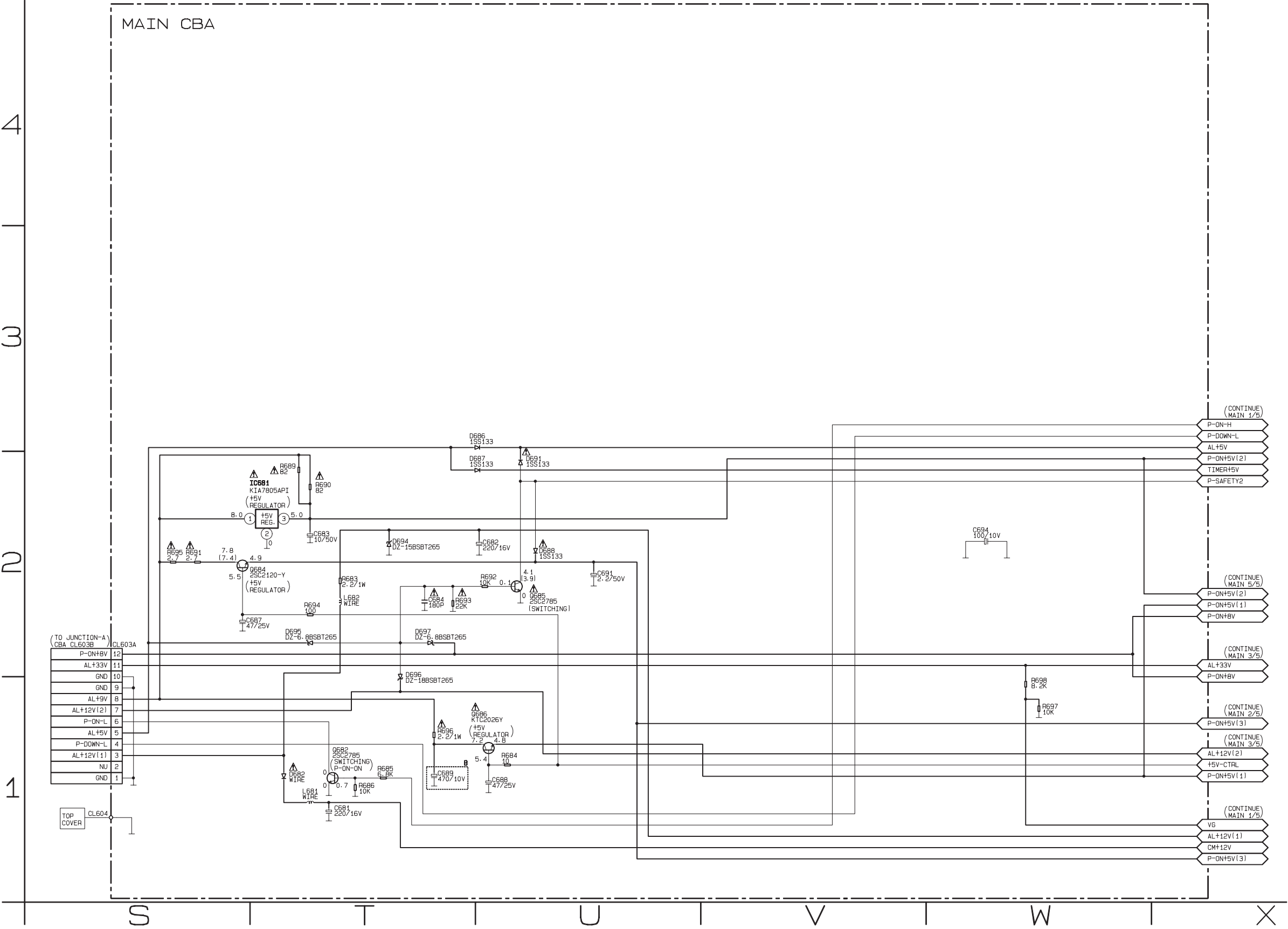
MODEL	MARK
T6605VF	A
T6705VF	B



Main 4/5 Schematic Diagram

Comparison Chart of Models and Marks

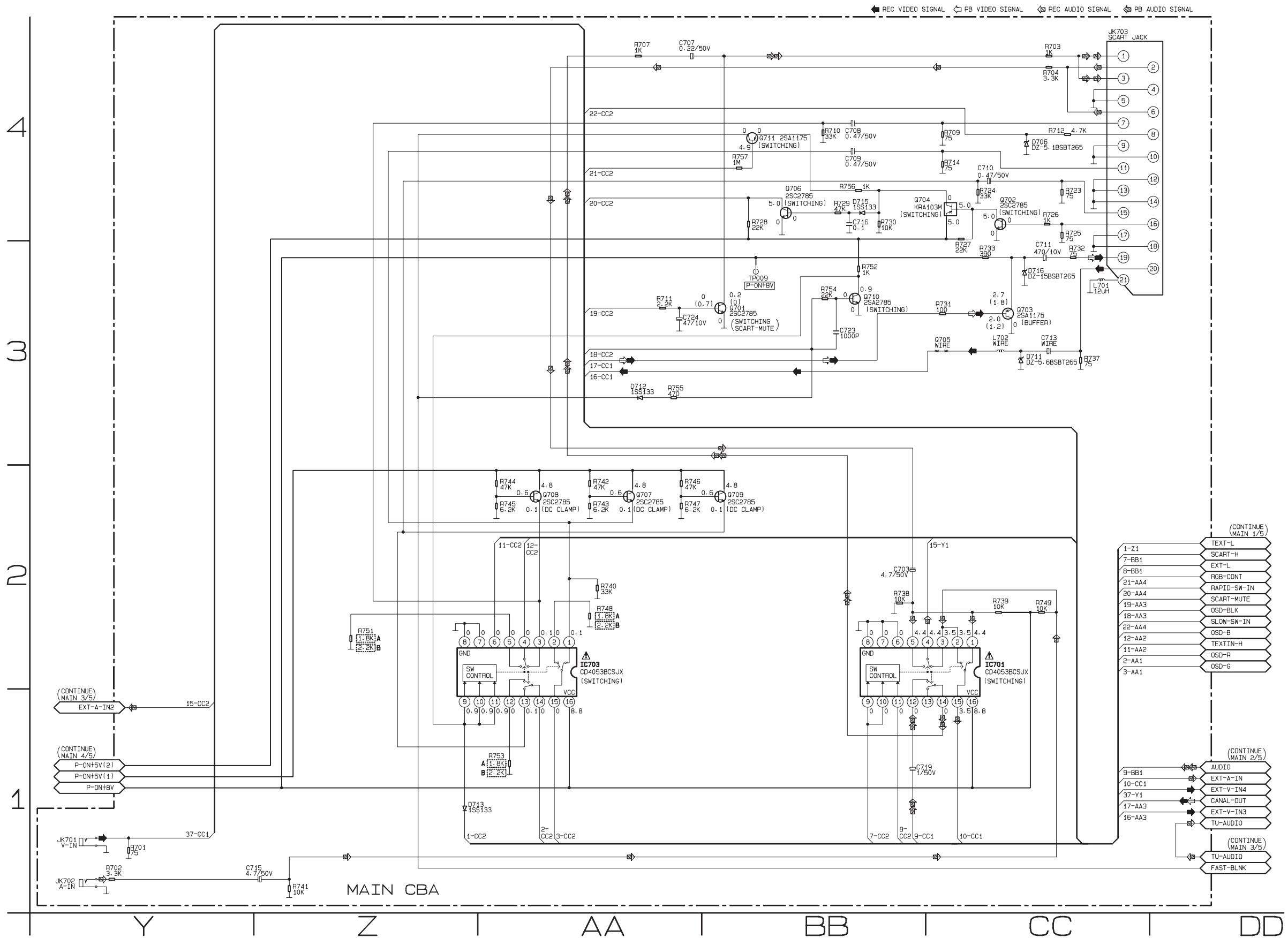
MODEL	MARK
T6605VF	A
T6705VF	B



Main 5/5 Schematic Diagram

Comparison Chart of Models and Marks

MODEL	MARK
T6605VF	A
T6705VF	B



H.V./Power Supply 1/2 Schematic Diagram

CAUTION !

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

CAUTION

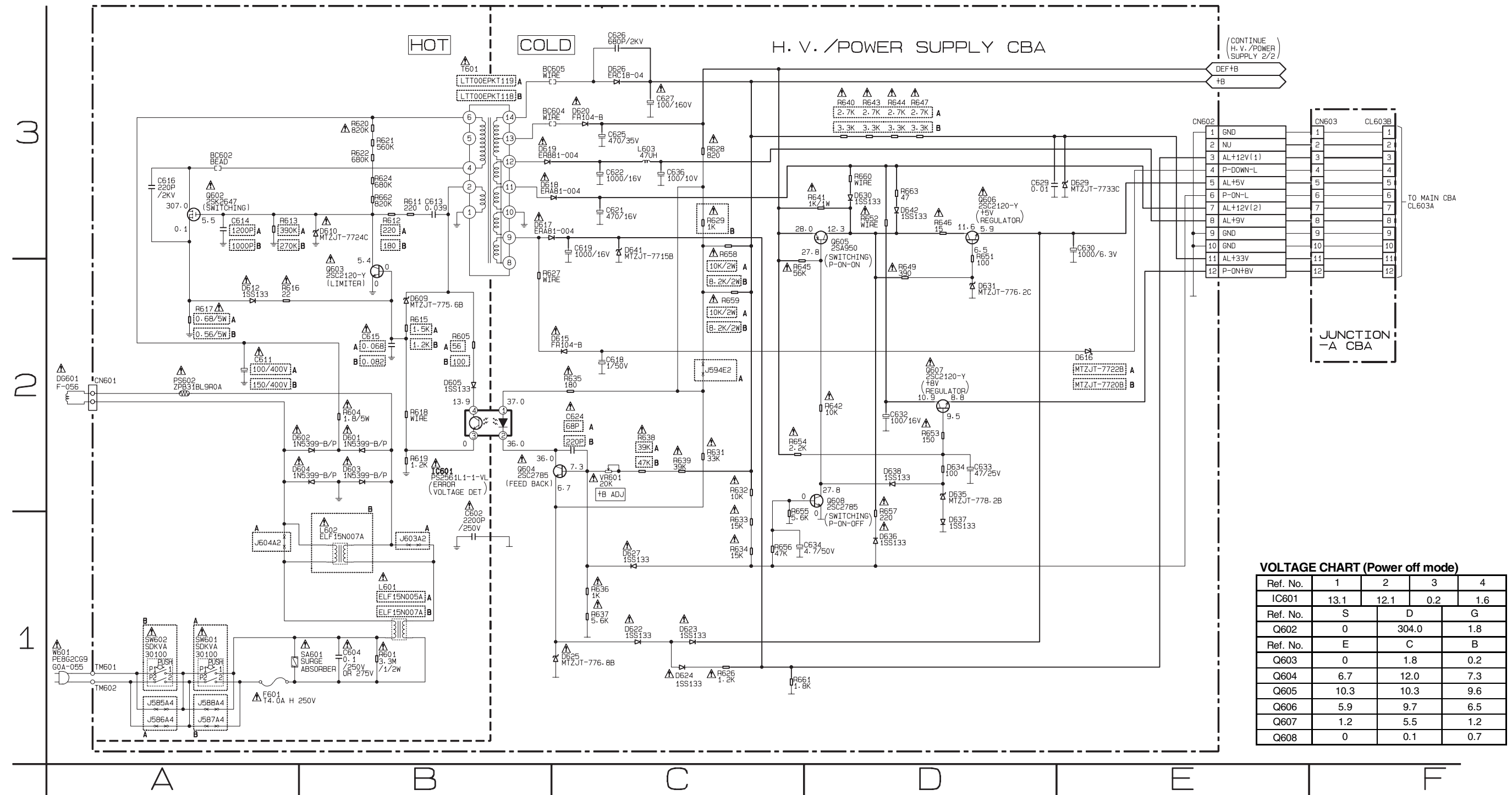
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE.

NOTE :

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

Comparison Chart of Models and Marks

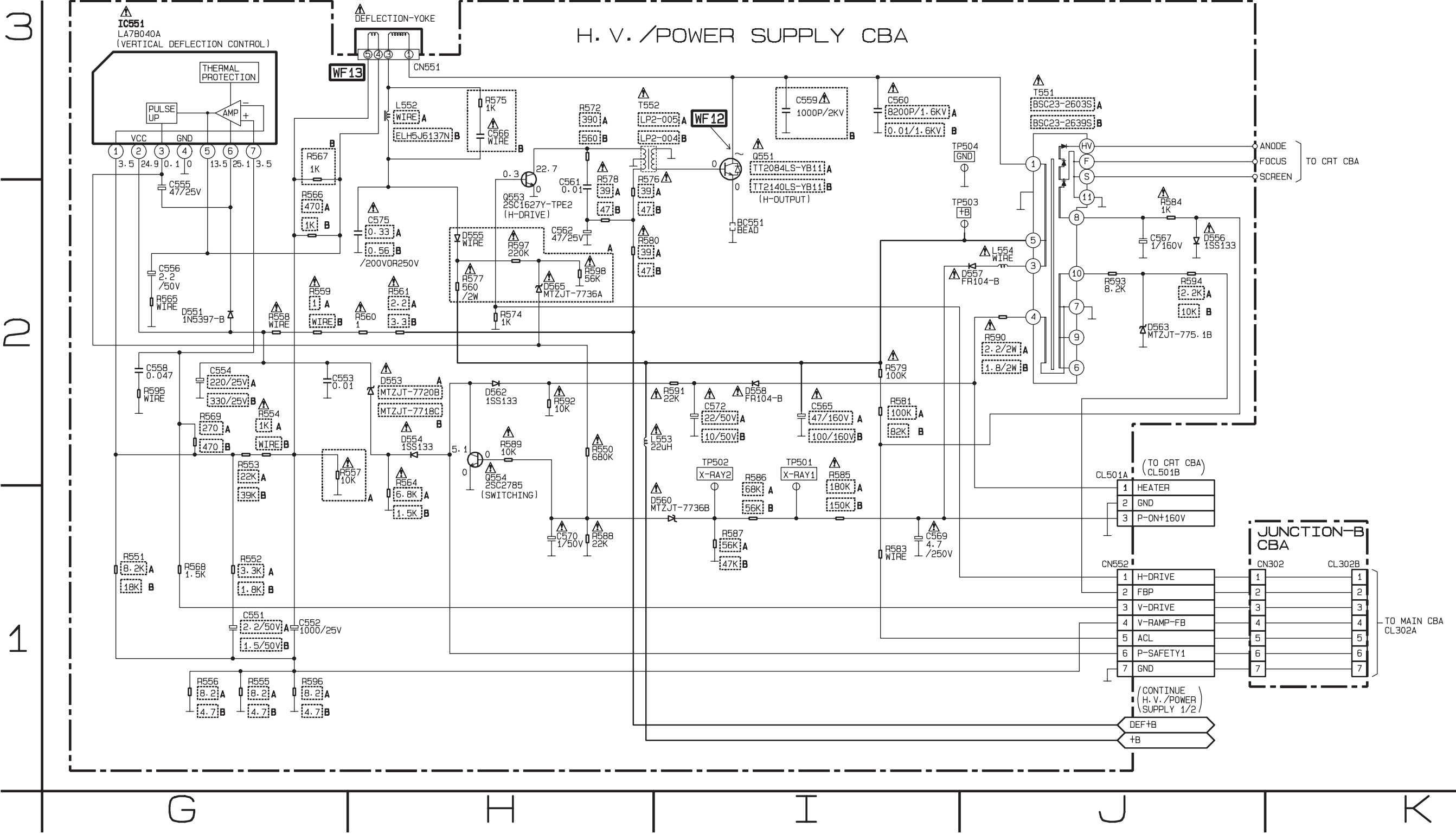
MODEL	MARK
T6605VF	A
T6705VF	B



H.V./Power Supply 2/2 Schematic Diagram

Comparison Chart of Models and Marks

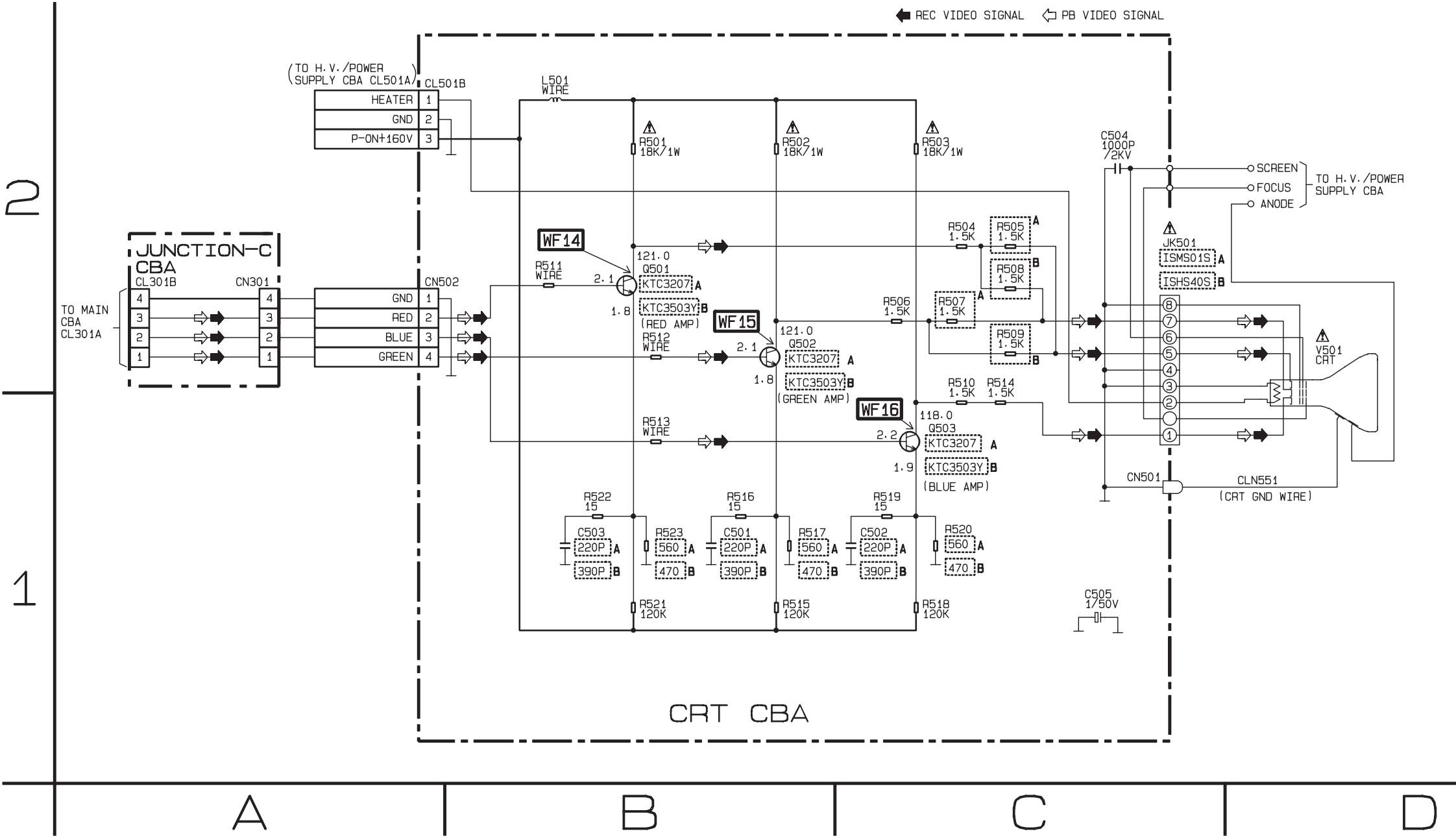
MODEL	MARK
T6605VF	A
T6705VF	B



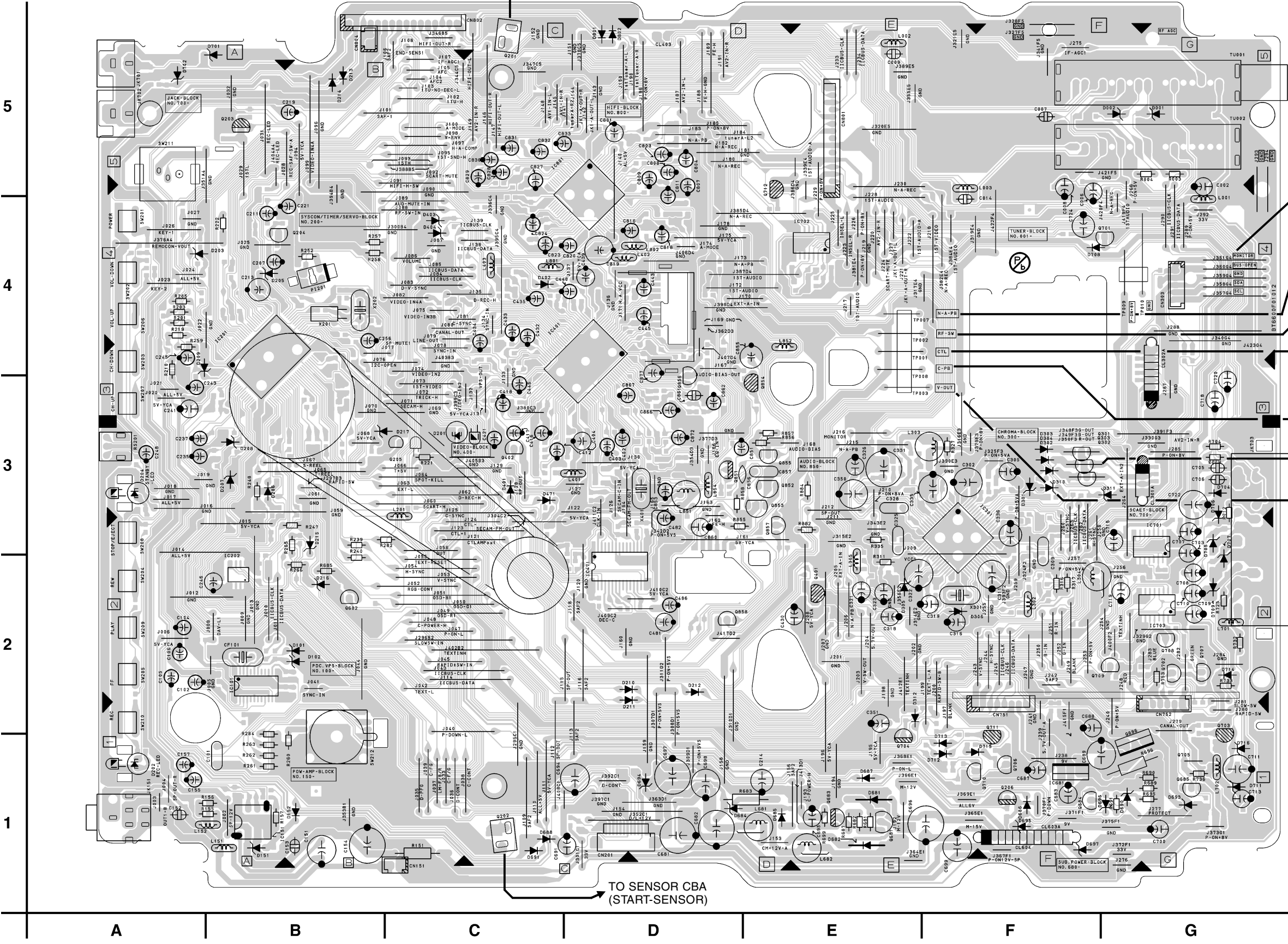
CRT Schematic Diagram

Comparison Chart of Models and Marks

MODEL	MARK
T6605VF	A
T6705VF	B



Main CBA Top View



5

4

3

2

1

A

B

C

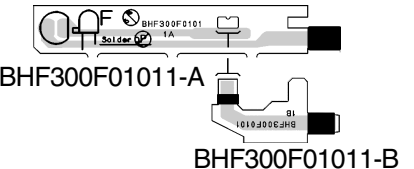
D

E

F

G

Sensor CBA Top View



J361G4
(SECAM Black Level
Adjustment)

WF8
TP007
N-A-PB

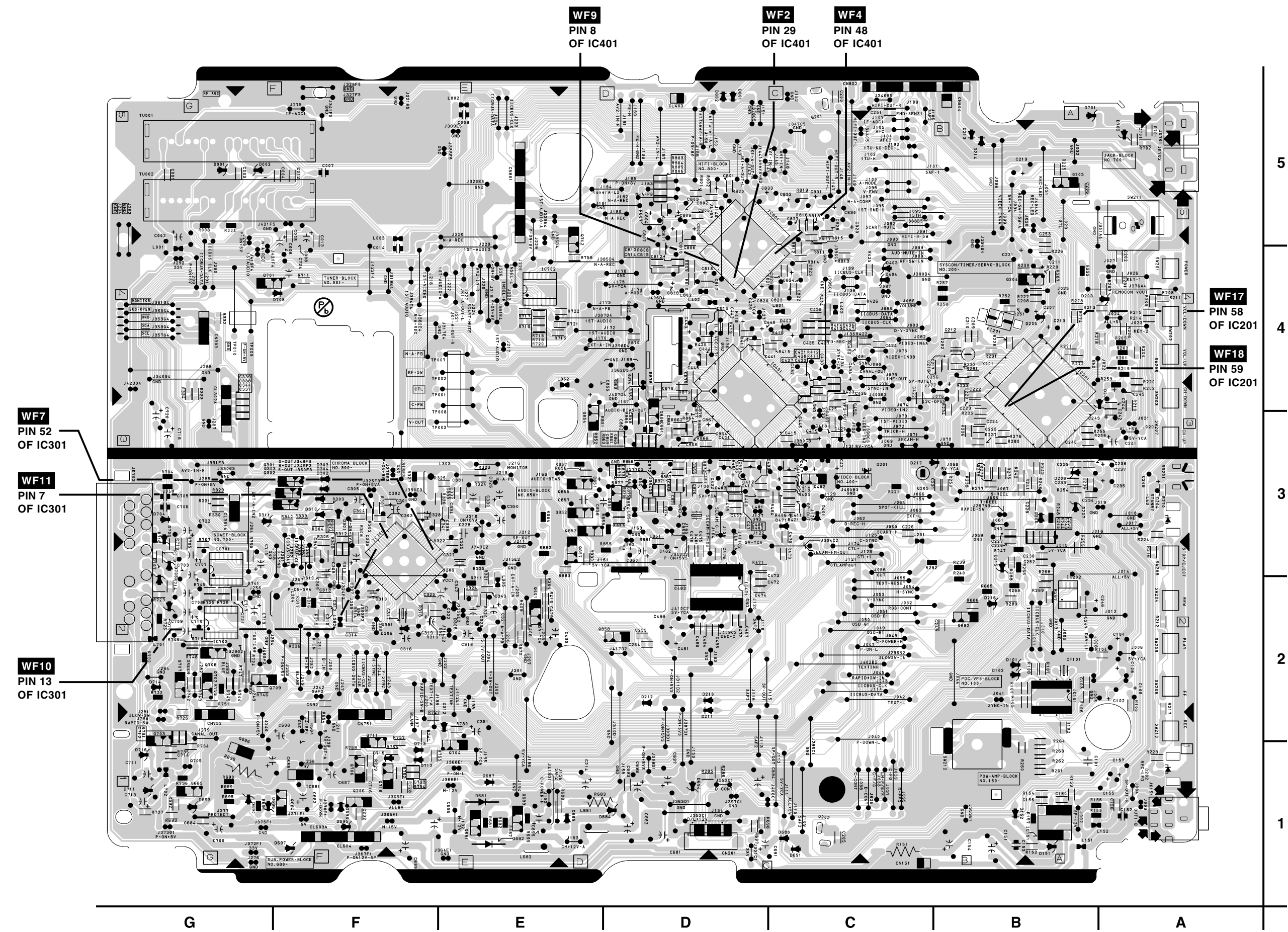
WF1
TP002
RF-SW

WF3
TP001
CTL

WF6
TP008
C-PB

J349F3
(C-Trap Adjustment)
WF5
TP003
V-OUT

Main CBA Bottom View



H.V./Power Supply CBA Top View

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.

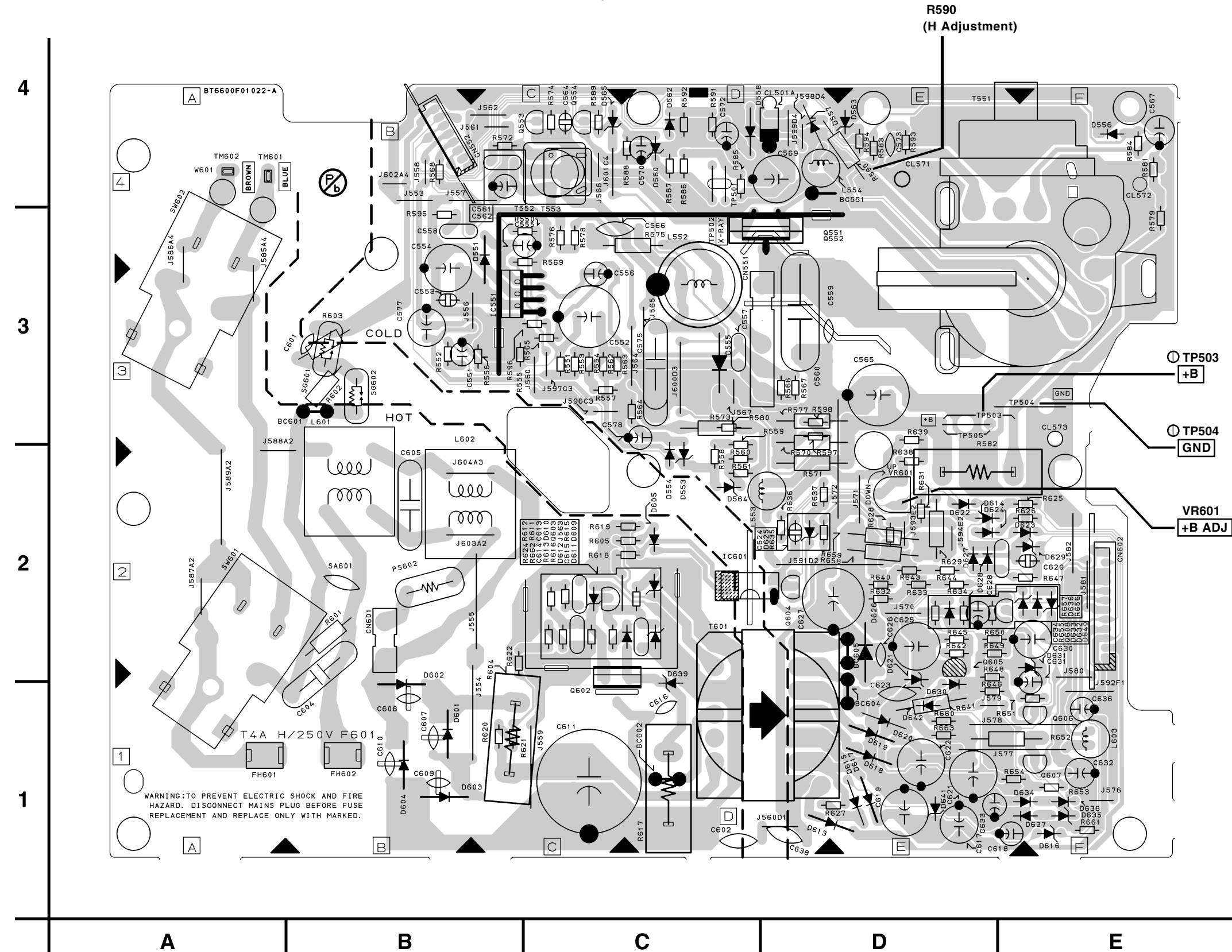
CAUTION

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.

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.



H.V./Power Supply CBA Bottom View

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.

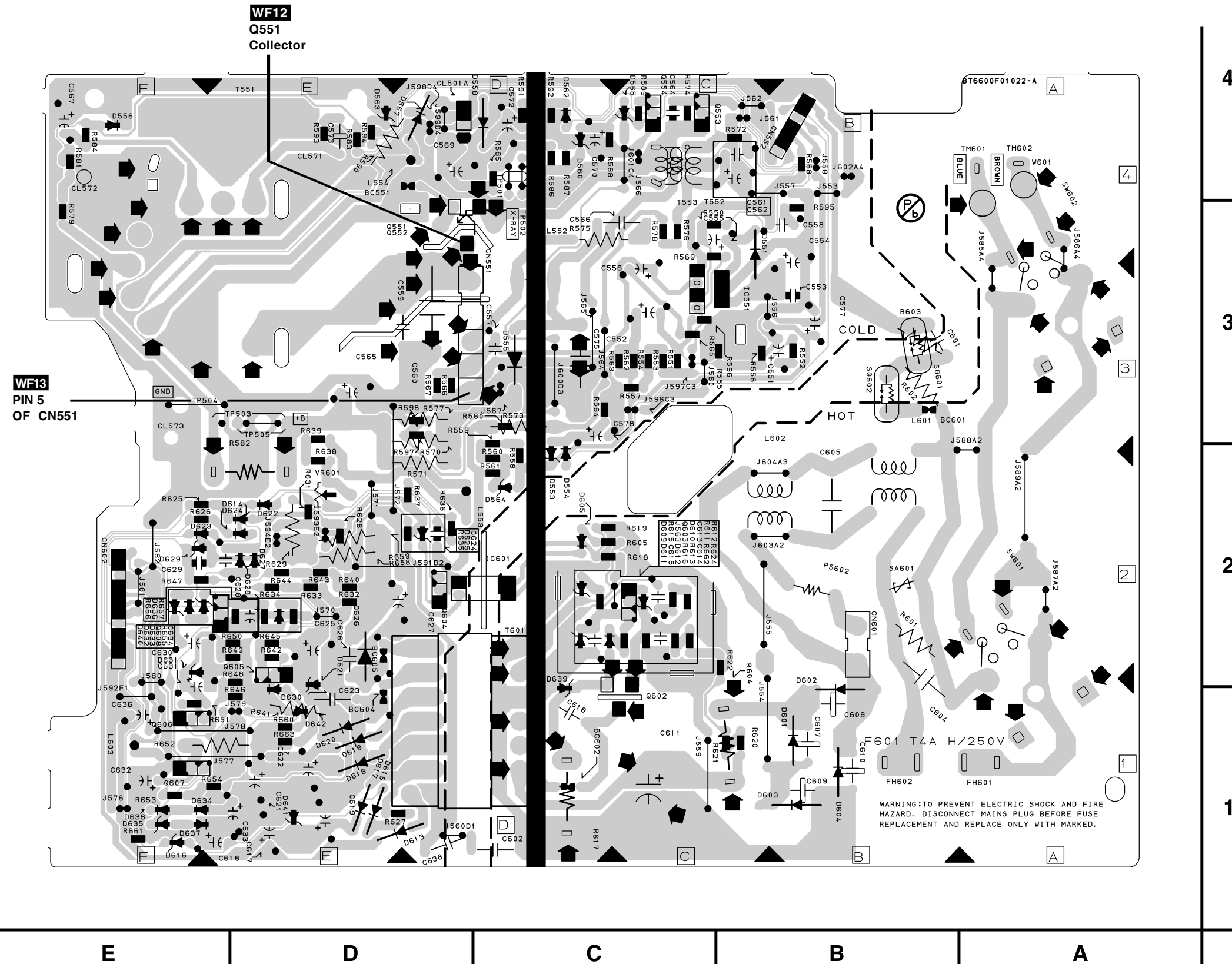
CAUTION

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

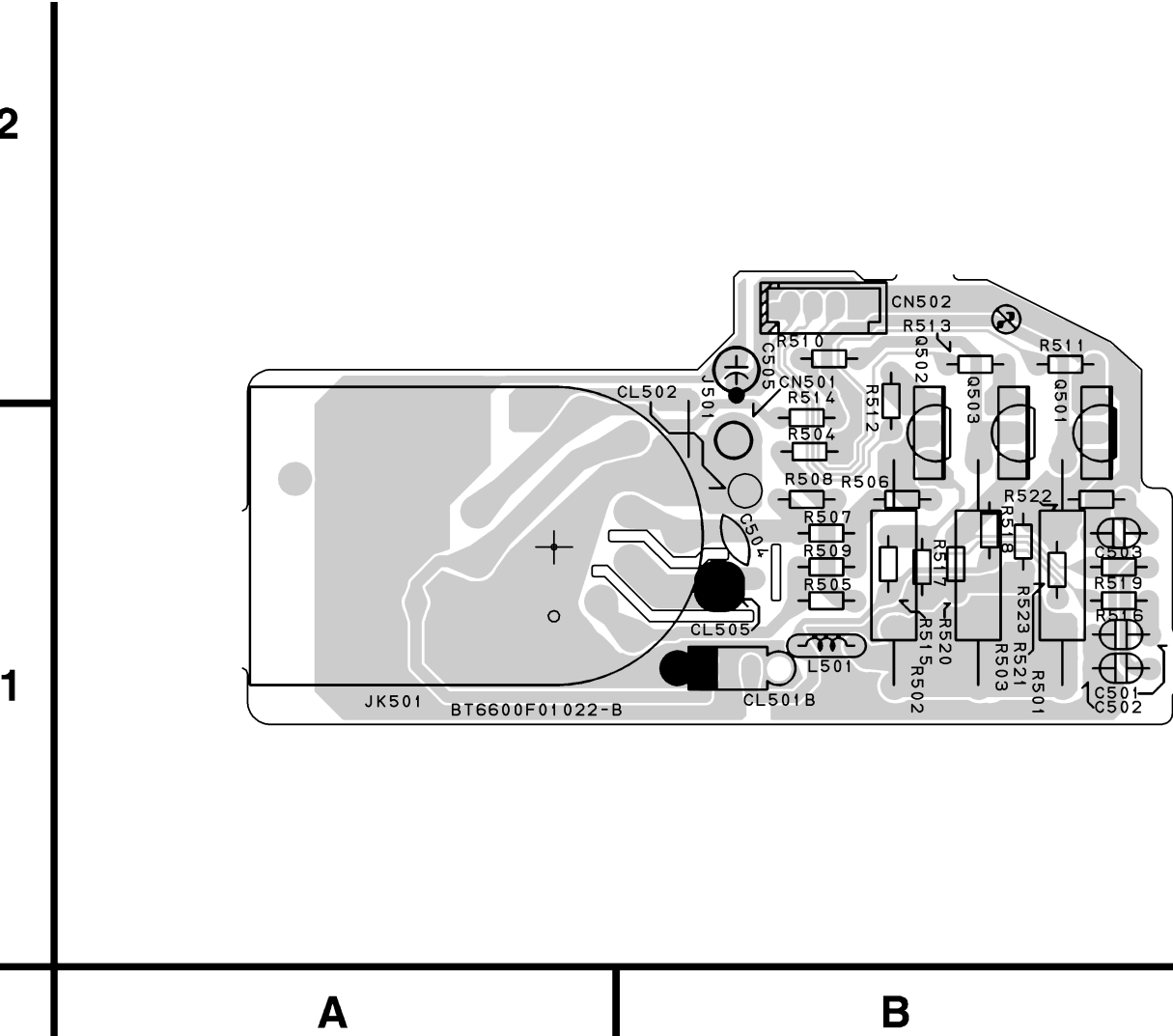
NOTE :

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

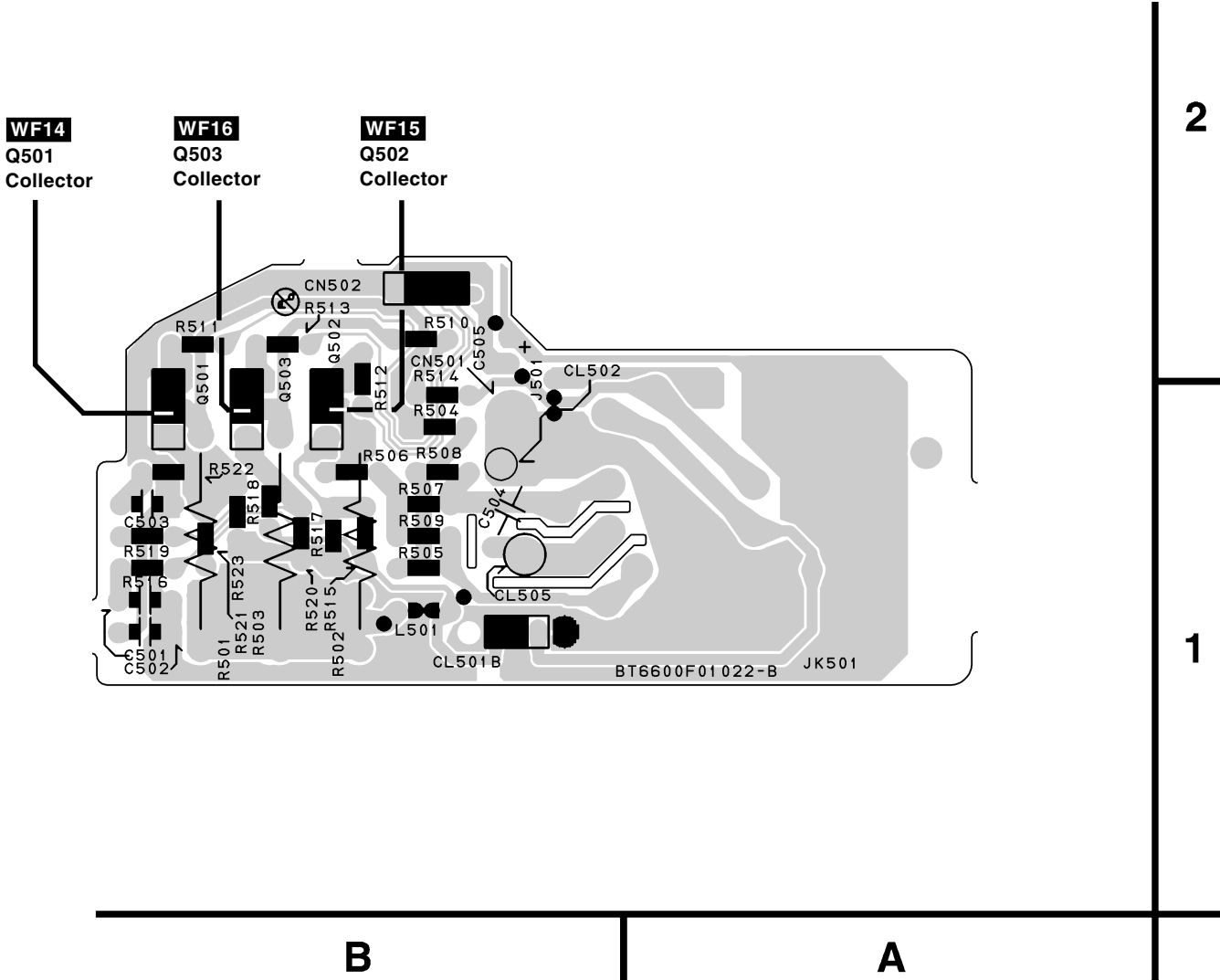
BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED. ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT, A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.



CRT CBA Top View

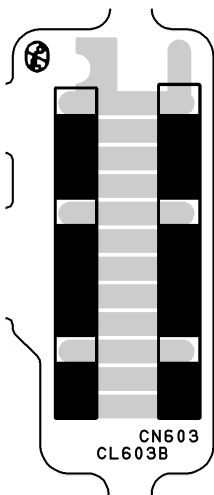
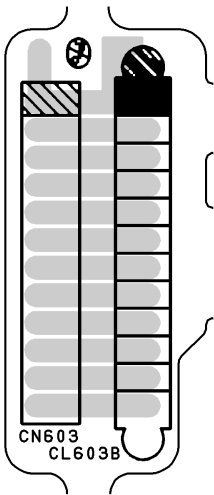


CRT CBA Bottom View



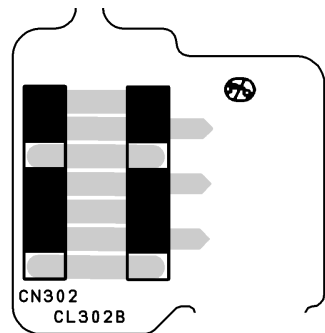
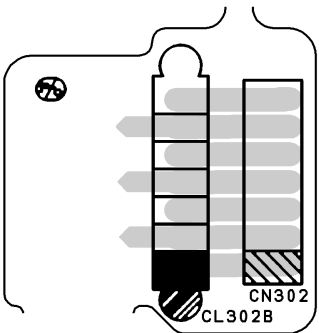
Junction-A CBA Top View

Junction-A CBA Bottom View



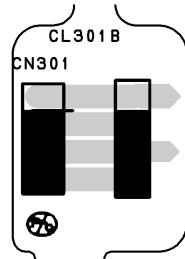
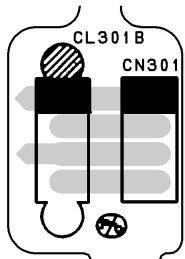
Junction-B CBA Top View

Junction-B CBA Bottom View



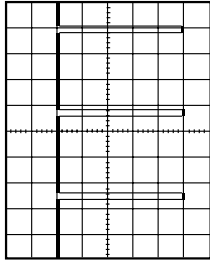
Junction-C CBA Top View

Junction-C CBA Bottom View

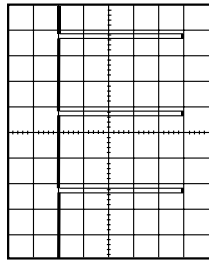


WAVEFORMS

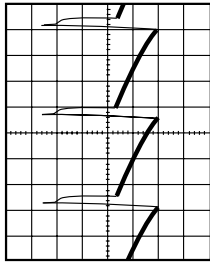
WAVEFORM NOTES
 INPUT: COLOR BAR SIGNAL
 OTHER CONTROLS: CENTER POSITION
 VOLTAGES SHOWN ARE RANGE OF
 OSCILLOSCOPE SETTING



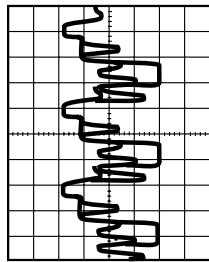
WF17 1DIV: 1V 20µs
IC201 PIN 58



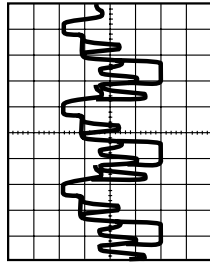
WF18 1DIV: 1V 5ms
IC201 PIN 59



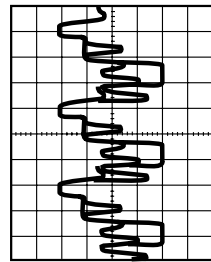
WF13 1DIV: 10V 5ms
CN551 PIN 5



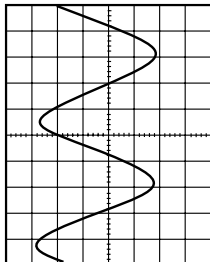
WF14 1DIV: 20V 20µs
Q501 COLLECTOR



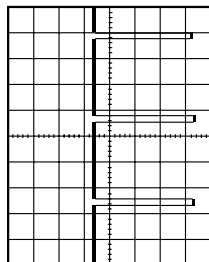
WF15 1DIV: 20V 20µs
Q502 COLLECTOR



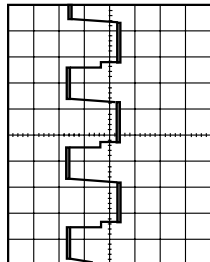
WF16 1DIV: 20V 20µs
Q503 COLLECTOR



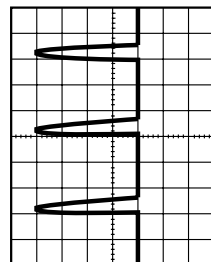
WF9 1DIV: 0.5V 0.5ms
IC401 PIN 8



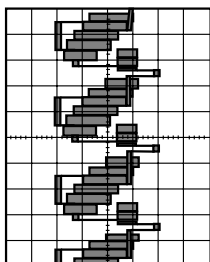
WF10 1DIV: 2V 5ms
IC301 PIN 13



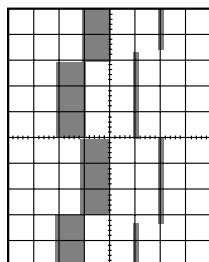
WF11 1DIV: 1V 20µs
IC301 PIN 7



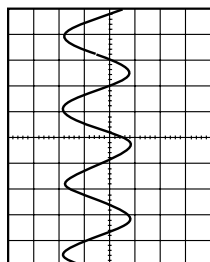
WF12 1DIV: 200V 20µs
Q551 COLLECTOR



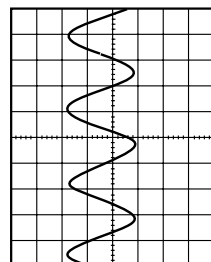
WF5 1DIV: 0.5V 20µs
TP003 V-OUT



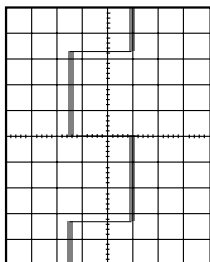
Upper: WF6 Lower: WF1
 1DIV: 0.2V 2DIV: 5V 5ms
 TP008 C-PB



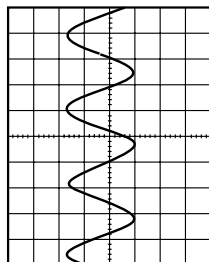
WF7 1DIV: 0.2V 0.5ms
IC301 PIN 52



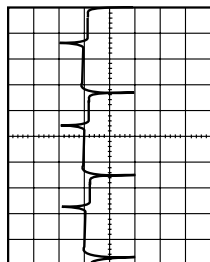
WF8 1DIV: 0.5V 0.5ms
TP007 N-A-PB



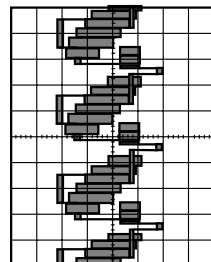
WF1 1DIV: 2V 5ms
TP002 RF-SW



WF2 1DIV: 0.2V 0.1µs
IC401 PIN 29



WF3 1DIV: 1V 10ms
TP001 CTL



WF4 1DIV: 0.25V 20µs
IC401 PIN 48

WIRING DIAGRAM

Comparison Chart of Models & Marks

Model	Mark
T6605VF	A
T6705VF	B

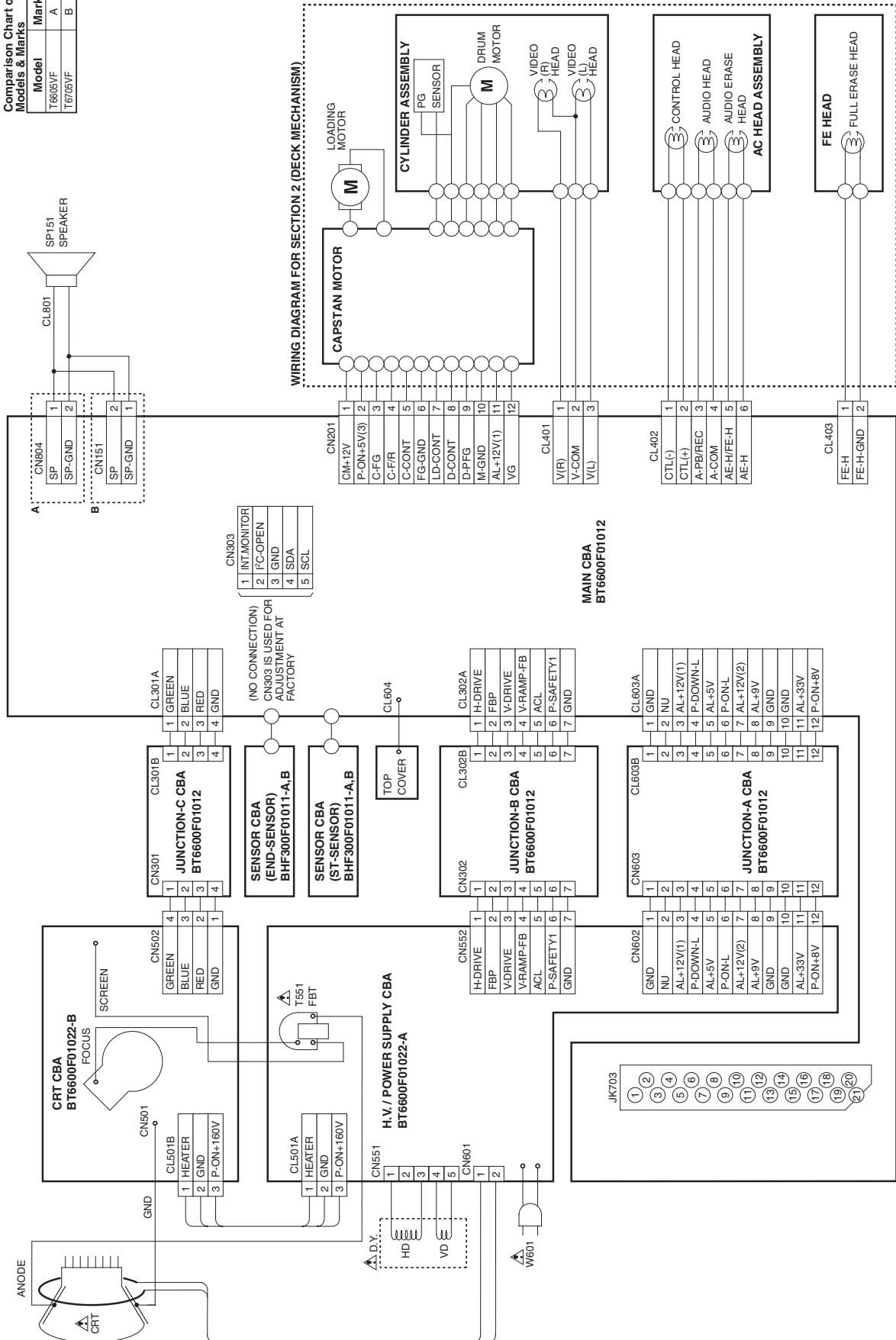
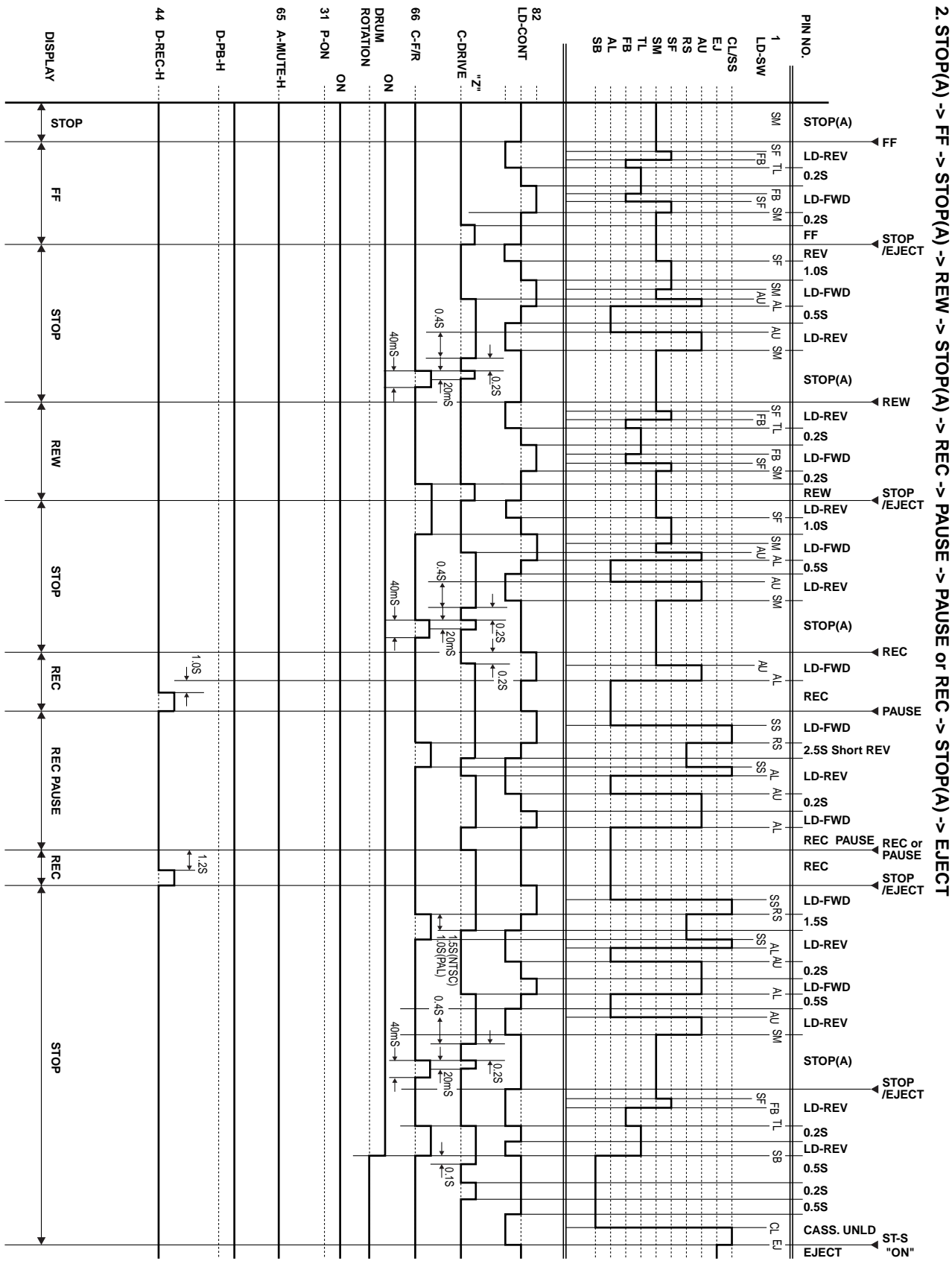


Chart 1

[illegible]

Chart 2



IC PIN FUNCTION DESCRIPTIONS

Comparison Chart of Models and Marks

Model	Mark
T6605VF	A
T6705VF	B

IC 201 (TV/VCR Micro Controller)

“H” ≥ 4.5V, “L” ≤ 1.0V

Pin No.	IN/OUT	Signal Name	Function
1	-	NU	Not Used
2	IN	P-SAFETY 2	Power Supply Failure Detection 2
3	IN	P-SAFETY 1	Power Supply Failure Detection 1
4	IN	END-SENS	End-Sensor
5	IN	AFC	Automatic Frequency Control Signal
6	IN	V-ENV	Video Envelope Input
7	IN	KEY-1	Key 1 Input
8	IN	KEY-2	Key 2 Input
9	IN	LD-SW	Loading Switch Input
10	IN	ST-SENS	Start-Sensor
11	-	NU	Not Used
12	-	NU	Not Used
13	IN/OUT	DV SYNC	Artificial V-Sync Output
14	IN	REMOTE	Remote Signal Input
15	OUT	C-ROTA	Color Phase Rotary Changeover Signal
16	OUT	H-A-SW	Video Head Amp Switching Pulse
17	-	NU	Not Used
18	OUT	RF-SW	Video Head Switching Pulse
19	-	NU	Not Used
20	OUT	A-MUTE-H	Audio Mute Control Signal (Mute = “H”)
21	-	NU	Not Used
22	-	NU	Not Used
23	IN/OUT	REC-LED	Recording LED Control Signal
24	IN/OUT	REC-LED	Recording LED Control Signal
25	-	NU	Not Used
26	-	NU	Not Used
27	-	NU	Not Used
28	-	NU	Not Used

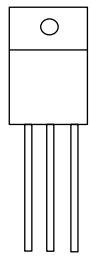
Pin No.	IN/OUT	Signal Name	Function
29	OUT	SCART-MUTE	RAPID-Switch Input Signal from Scart Jack
30	-	NU	Not Used
31	IN	REC-SAFETY	Record Protection Tab Detection
32	-	NU	Not Used
33	-	NU	Not Used
34	IN	RESET	System Reset Signal (Reset=“L”)
35	IN	XCIN	Sub Clock 32 kHz
36	OUT	XCOUT	Sub Clock 32 kHz
37	-	TIMER+5V	Vcc
38	IN	XIN	Main Clock Input
39	OUT	XOUT	Main Clock Output
40	-	GND	GND
41	OUT	SPOT-KILL	Counter-measure for Spot
42	OUT	EXT-L	External Input or Playback = Output
43	IN	CLKSEL	Clock Select (GND)
44	OUT	SP-MUTE	Speaker Mute Signal
45	IN/OUT	I2C-OPEN	White Balance Adjust Mode Judgment
46	-	GND	GND
47	OUT	D-REC-H	Delayed Record Signal
48	OUT	SCART-H	Switching Signal of Scart Jack and RCA Jack
49	-	OSD-GND	OSD GND
50	-	NU	Not Used
51	-	NU	Not Used
52	-	NU	Not Used
53	-	OSDVcc	OSDVcc
54	-	HLF	HLF
55	-	NU	Not Used
56	IN	CV-IN	Video Signal Input
57	-	GND	GND
58	IN	H-SYNC	H-SYNC Input
59	IN	V-SYNC	V-SYNC Input
60	OUT	OSD-BLK	Output for Picture Cut off
61	OUT	RGB-CONT	RGB Control Signal
62	OUT	OSD-B	Blue Output
63	OUT	OSD-G	Green Output

Pin No.	IN/ OUT	Signal Name	Function
64	OUT	OSD-R	Red Output
65	IN	RAPIT-SW-IN	RAPID-Switch Input Signal
66	-	NU	Not Used
67	OUT	P-ON-H	Power On Signal at High
68	IN	SLOW-SW-IN	Slow Switch Input Signal
69	-	NU	Not Used
70	OUT	TEXT-IN-H	Tele Text Input Signal at High
71	OUT	SCL	E2PROM/CHROMA IC Tuner Communication Clock
72	IN/ OUT	SDA	E2PROM/CHROMA IC Tuner Communication Data
73	-	NU	Not Used
74	IN	C-SYNC	C-Sync Input
75	-	NU	Not Used
76	OUT	C-CONT	Capstan Motor Control Signal
77	OUT	D-CONT	Drum Motor Control Signal
78	OUT	C-F/R	Capstan Motor FWD/ REV Control Signal (FWD="L"/REV="H")
79	-	NU	Not Used
80	IN/ OUT	T-REEL	Take Up Reel Rotation Signal
81	IN/ OUT	LD-CONT	Loading Motor Control Signal
82	OUT	TEXT-L	Teletext Control Signal
83	-	NU	Not Used
84	-	NU	Not Used
85	IN	P-DOWN-L	Power Voltage Down Detector Signal at Low
86	-	NU	Not Used
87	IN	C-FG	Capstan Motor Rotation Detection Pulse
88	-	AMPVss	AMPVss (GND)
89	-	NU	Not Used
90	IN	D-PFG	Drum Motor Phase/ Frequency Generator
91	OUT	AMP VREF- OUT	Standard Voltage Output
92	IN	AMP VREF- IN	Standard Voltage Input
93	-	C	C Terminal

Pin No.	IN/ OUT	Signal Name	Function
94	IN/ OUT	CTL (-)	CTL (-)
95	IN/ OUT	CTL (+)	CTL (+)
96	-	AMPC	AMPC
97	OUT	CTL AMP- OUT	Control Amp Output
98	-	AMPVcc	AMPVcc
99	-	AVcc	A/D Converter Power Input/ Standard Voltage Input
100	IN	AGC	Tuner IF Output Signal

LEAD IDENTIFICATIONS

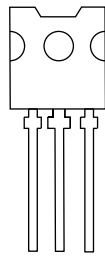
2SK2647



S D G

S: Source
D: Drain
G: Gate

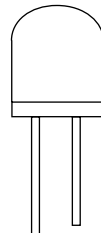
2SC3619
KTC3503Y



E C B

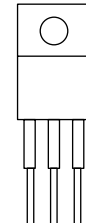
E: Emitter
C: Collector
B: Base

MID-32A22F
PT204-6B-12



E

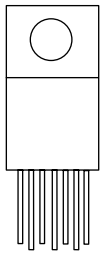
C



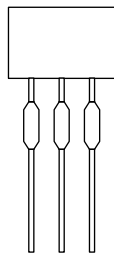
B C E

2SC5884000RF
2SD1913(R)
KTC2026Y
TT2084LS-YB11
TT2138LS-YB11
2SD2627LS-FEC-YB11

LA78040A

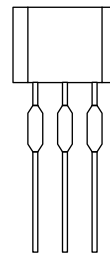


IN G OUT



E C B

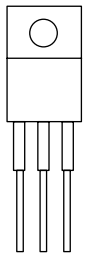
2SA1346
2SC1815-GR(TPE2)
2SC2120-O(TPE2)
2SC2120-Y(TPE2)
2SC3331(T,U)
KRA103M
KTA1266(GR)
KTC3203(Y)
KTC3207



E C B

2SA1015-GR(TPE2)
2SA1175(F)
2SA950(Y,O)
2SC1627Y-TPE2
2SC2482 TPE6
2SC2785(F,H,J)
2SC3468(D,E)-AE
BN1F4M-T
KTA1267(GR)
KTA1271(Y)
KTC3198(GR)
KTC3199(GR)

KA7805A
KIA7805API



IN G OUT

PS2561L1-1-VL
PS2561L1-1-VW



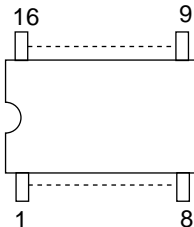
A

K

C

E

CD4053BCSJX
CD4053BNSR
TC4053BF(N)



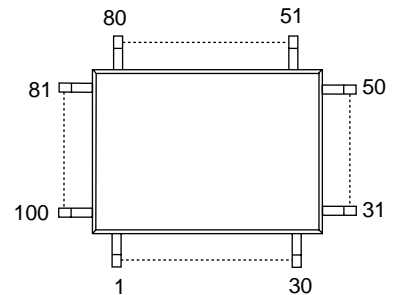
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LA71750EM-MPB-E
M37762MCA-BB0GP



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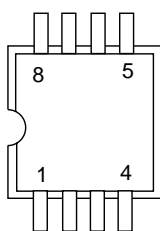
81

100

80

51

AT24C04N-10SC
BR24C04F
BR24C04F-W
BR24L04F-WE2
CAT24WC04JI
M24C04-MN6
M24C04-WMN6



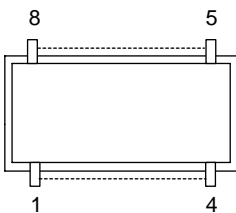
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LA4224



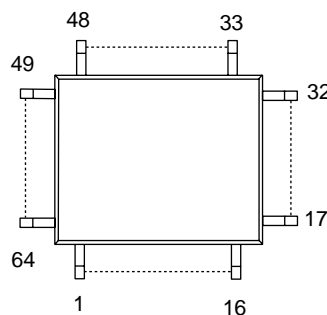
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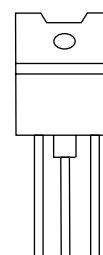
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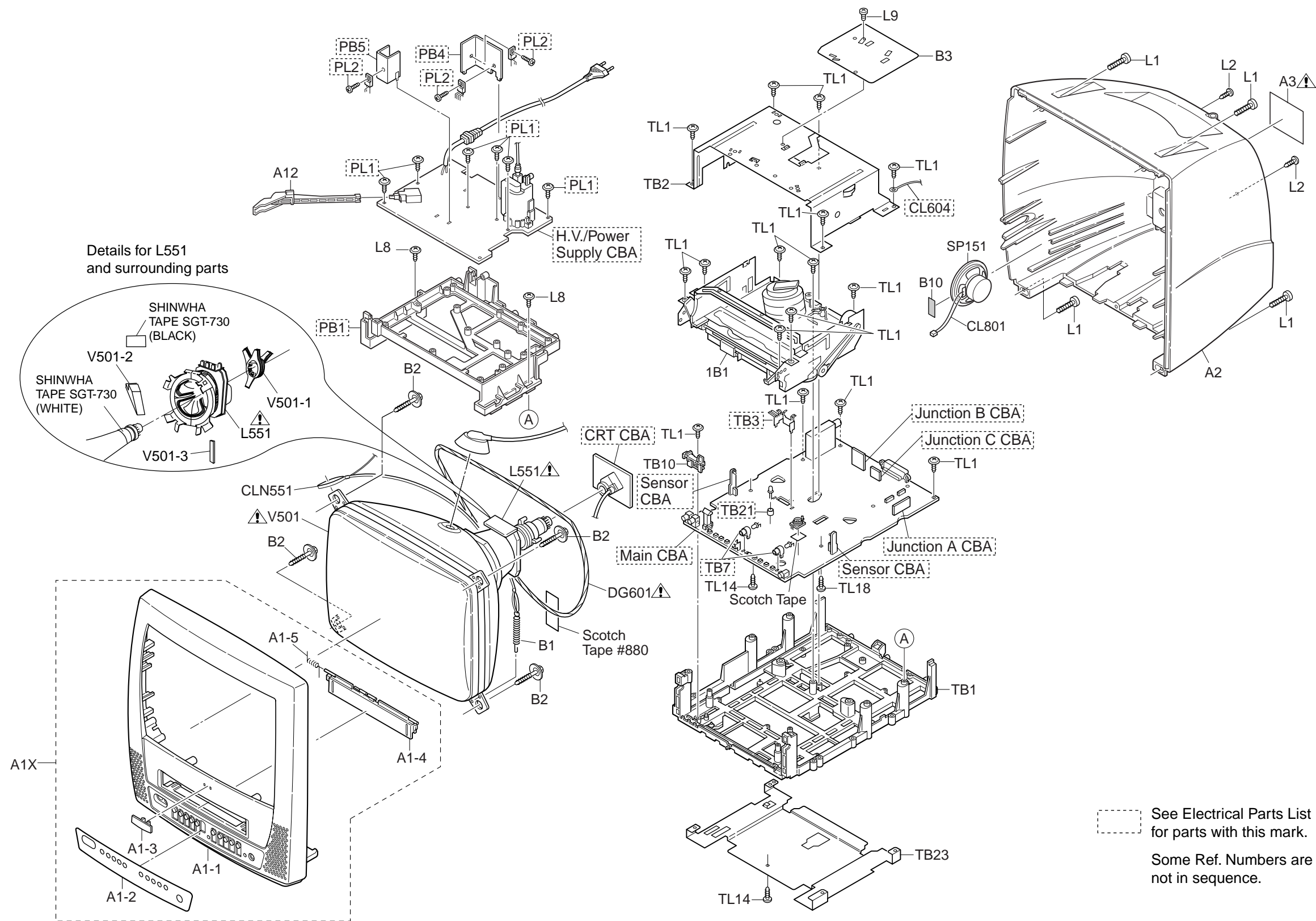
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TT2140LS-YB11

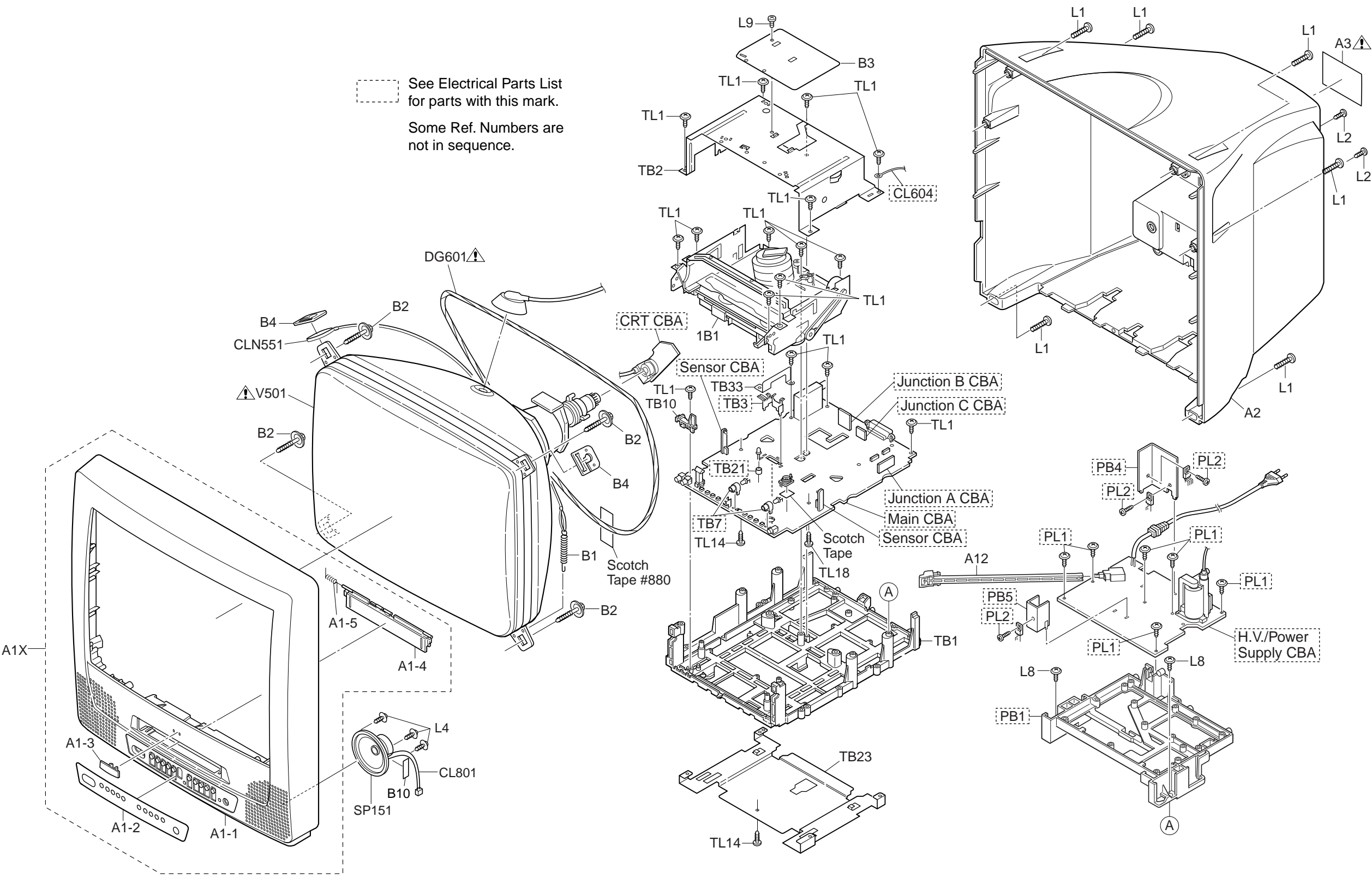


B C E

EXPLODED VIEWS

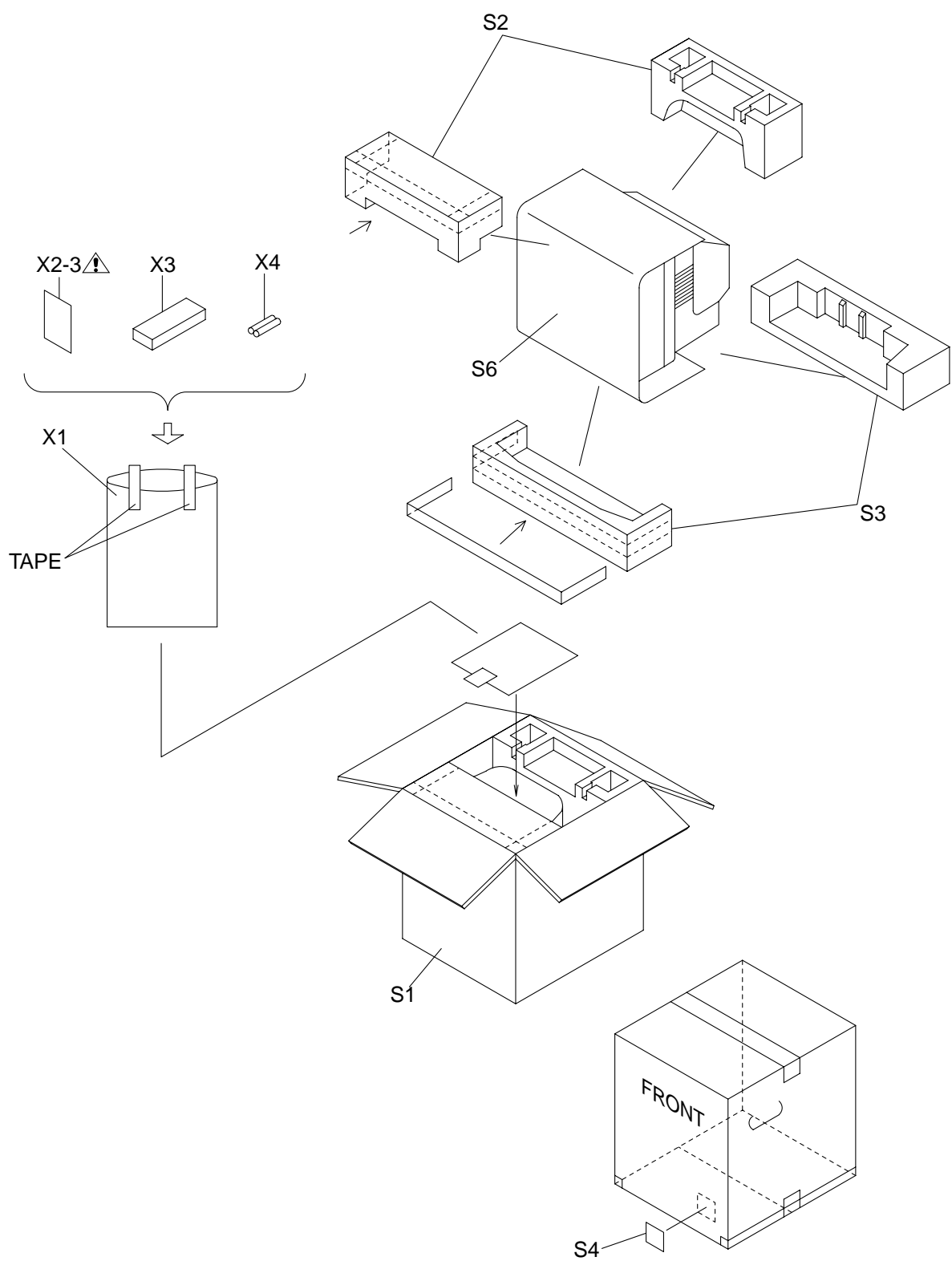
Cabinet [T6605VF]



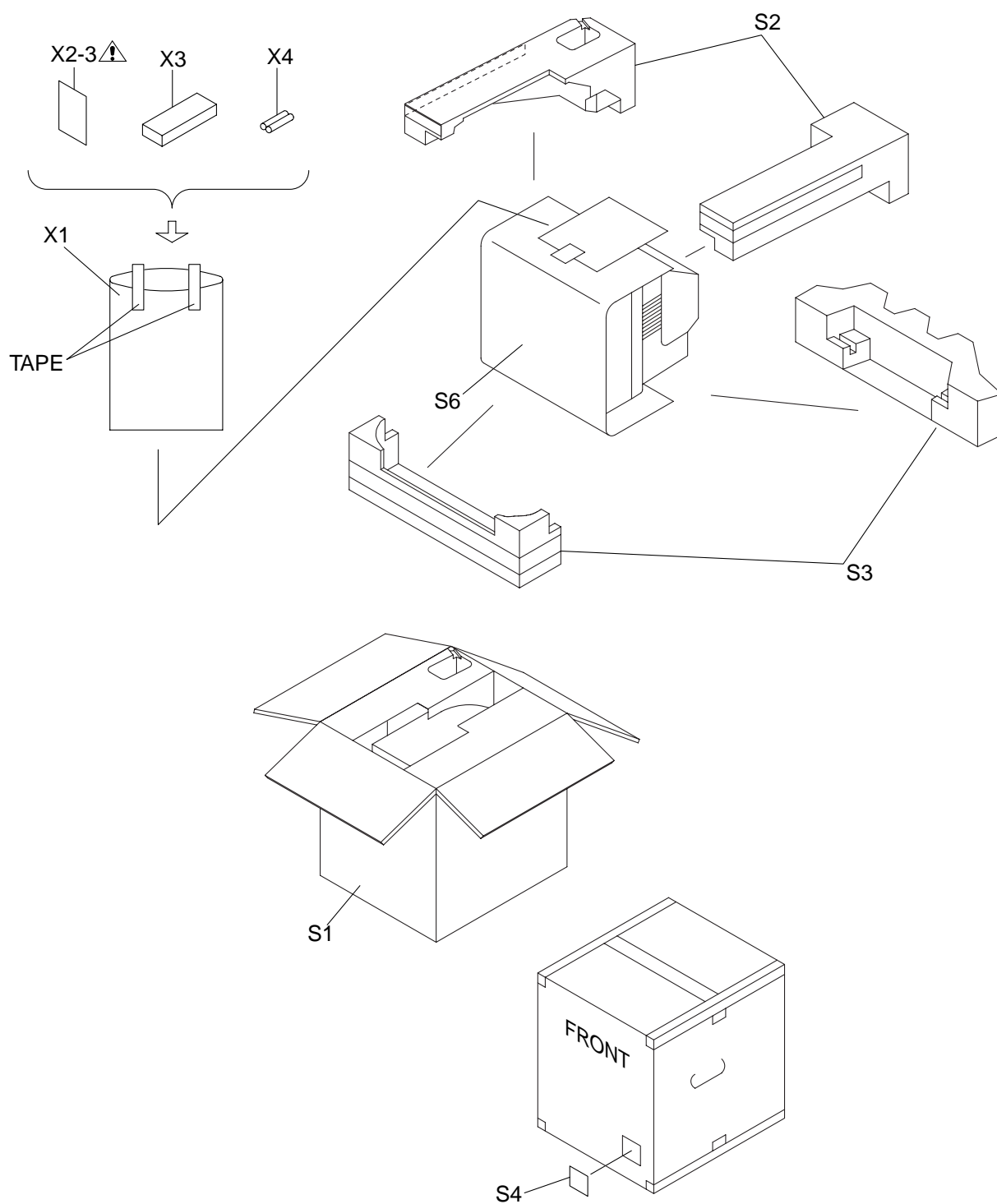


Packing


[T6605VF]



[T6705VF]



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
T6605VF	A
T6705VF	B

Ref. No.	Mark	Description	Part No.
A1X	A	FRONT CABINET ASSEMBLY T6605VF	0EM101475
A1X	B	FRONT CABINET ASSEMBLY T6705VF	0EM101476
A1-1	A	FRONT CABINET T6605VF	0EM000936
A1-1	B	FRONT CABINET T6705VF	0EM000937
A1-2	A	CONTROL PLATE T6605VF	0EM201851
A1-2	B	CONTROL PLATE T6705VF	0EM201852
A1-3		BRAND BADGE TD006CGDURABRAND	0EM301865
A1-4		CASSETTE DOOR T6600EA	0EM408804
A1-5		SPRING DOOR(Z10) T5200UA	0EM406687
A2	A	REAR CABINET REAR CABINET	0EM101490
A2	B	REAR CABINET REAR CABINET	0EM000956
A3, 	A	RATING LABEL T6605VF	-----
A3, 	B	RATING LABEL T6705VF	-----
A12	A	POWER BUTTON POWER BUTTON	0EM302129
A12	B	POWER BUTTON POWER BUTTON	0EM302130
CL801		WIRE ASSEMBLY (SPEAKER) 2P/200	WX1T6300-002
CLN551	A	CRT GND WIRE CRT GND	WX1L7270-001
CLN551	B	CRT WIRE WX1T7180-005	WX1T7180-005
DG601, 	A	DEGAUSSING COIL F-056	LLBH00ZTM056
DG601, 	B	DEGAUSSING COIL F-057	LLBH00ZTM057
L1		SCREW, P-TIGHT 4X18 BIND HEAD +	GBMP4180
L2		SCREW, P-TIGHT M4X12 BIND HEAD+	GBUP4120
L4	B	SCREW, ASSEMBLED 12:M3X12	0EM406746
L8		FLAT HEAD SCREW T4000UA	0EM404793
L9		SCREW, S-TIGHT 3X4 BIND HEAD+	GBMS3040
L551, 	A	DEFLECTION YOKE LLBY00ZSY005 or	LLBY00ZSY005
	A	DEFLECTION YOKE KDY3GDA82X	LLBY00ZMS011
1B1		DECK ASSEMBLY CZD013/VM2326	N2326FT
B1		SPRING TENSION B0080B0:EM40808	26VH006
B2	A	M5 CRT SCREW(B) B4000UA	0VM403923
B2	B	SCREW M7 CRT(D22) T7205UF	0EM406573
B3	A	SHIELD PLATE (PAL 14V) T6600EA	0EM408803
B3	B	SHIELD PLATE (PAL 21V) T6500RA	0EM407921
B4	B	DEGAUSS HOLDER T7100UA	0EM405476
B10		CLOTH(10X30XT0.5) B5900UA	0EM404486
SP151		SPEAKER S08F02B or	DSD0808XQ010
		SPEAKER J-F097-C5	DSD0808DCP01
TB1		TRAY CHASSIS T6400RA	0EM000697
TB2		TOP COVER T6300RA	0EM101155

Ref. No.	Mark	Description	Part No.
TB10	A	RCA HOLDER T6400RA	0EM407753
TB10	B	RCA HOLDER(B) T6500RA	0EM407833
TB23		BOTTOM PLATE T6300RA	0EM101156
TB33	B	EARTH HOLDER(TU) T6310EZ	0EM406959
TL1		SCREW, P-TIGHT 3X12 WASHER HEAD+	GCMP3120
TL14		SCREW, B-TIGHT M3X8 BIND HEAD+	GBMB3080
TL18		SCREW, P-TIGHT M3X8 BIND HEAD+	GBCP3080
V501, 	A	CRT A34AGT13X	TCRT190CP036
V501, 	B	CRT A51AEZ90X25 K	TCRT190CP047
V501-1	A	C.PMAGNET JH225-FN-00	XM04000BV003
V501-2	A	WEDGE FT-00110W or	XV10000T4001
	A	WEDGE DB25SR	XV10000D9001
V501-3	A	RUBBER MAGNET 20X10X1.2	XM05000BV001
PACKING			
S1	A	CARTON T6605VF	0EM409176
S1	B	CARTON T6705VF	0EM409180
S2	A	STYROFOAM TOP ASSEMBLY T6600EA	0EM409185
S2	B	STYROFOAM TOP ASSEMBLY T6700EA	0EM409187
S3	A	STYROFOAM BOTTOM ASSEMBLY T6600EA	0EM409186
S3	B	STYROFOAM BOTTOM ASSEMBLY T6700EA	0EM409188
S4	A	SERIAL NO. LABEL T6605VF	-----
S4	B	SERIAL NO. LABEL T6705VF	-----
S6	A	SET SHEET B5506UG:800X1500	0EM402369
S6	B	SET SHEET B7500UA:1000X1700	0EM402178
ACCESSORIES			
X1		BAG POLYETHYLENE 235X365XT0.03	0EM408420
X2-3, 		OWNER'S MANUAL T6605VF:DE	0EMN02496
X3		REMOTE CONTROL 512/ERC001/NE136RD	NE136RD
X4		DRY BATTERY R6P UM3 or	XB0M451GH001
		DRY BATTERY R6P(AR)2PX or	XB0M451HU002
		DRY BATTERY R6P(AR)2P X ICI or	XB0M451HU003
		DRY BATTERY(SUNRISE) R6SSE/2S or	XB0M451MS002
		DRY BATTERY R6P/2S	XB0M451T0001

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
T6605VF	A
T6705VF	B

MMA CBA

Ref. No.	Mark	Description	Part No.
	A	MMA CBA	0ESA06014
	B	MMA CBA	0ESA06027
		Consists of the following	
		MAIN CBA	-----
		JUNCTION A CBA	-----
		JUNCTION B CBA	-----
		JUNCTION C CBA	-----
		SENDER CBA	0ESA06133

MAIN CBA

Ref. No.	Mark	Description	Part No.
		MAIN CBA Consists of the following	-----
CAPACITORS			
C001		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V	CZM1CZB0F103
C002		ELECTROLYTIC CAP. 47µF/25V M or	CE1EMASDL470
		ELECTROLYTIC CAP. 47µF/25V M	CE1EMASTL470
C006		ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL010
		ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1µF/50V M	CE1JMASTL1R0
C008		ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL010
		ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1µF/50V M	CE1JMASTL1R0
C009		PCB JUMPER D0.6-P5.0	JW5.0T
C151		ELECTROLYTIC CAP. 330µF/16V M or	CE1CMASDL331
		ELECTROLYTIC CAP. 330µF/16V M	CE1CMASTL331
C152		CERAMIC CAP.(AX) X M 2200pF/16V	CCA1CMT0X222
C154		ELECTROLYTIC CAP. 470µF/16V M or	CE1CMASDL471

Ref. No.	Mark	Description	Part No.
		ELECTROLYTIC CAP. 470µF/16V M	CE1CMASTL471
C155		ELECTROLYTIC CAP. 0.22µF/50V M H7	CE1JMAVSLR22
C156		CHIP CERAMIC CAP.(1608) B K 4700pF/50V or	CHD1JK30B472
		CHIP CERAMIC CAP. B K 4700pF/50V	CHD1JKB0B472
C157		ELECTROLYTIC CAP. 10µF/25V M H7	CE1EMAVSL100
C160		CHIP CERAMIC CAP.(1608) CH J 270pF/50V or	CHD1JJ3CH271
		CHIP CERAMIC CAP. CH J 270pF/50V	CHD1JJBCH271
C203		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V	CZM1CZB0F103
C205		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V	CZM1CZB0F103
C207		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C208		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V	CZM1CZB0F103
C209		CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
		CHIP CERAMIC CAP. CH J 22pF/50V	CHD1JJBCH220
C210		CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
		CHIP CERAMIC CAP. CH J 22pF/50V	CHD1JJBCH220
C211		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C212		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V	CZM1CZB0F103
C213		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C214		ELECTROLYTIC CAP. 330µF/6.3V M or	CE0KMASDL331
		ELECTROLYTIC CAP. 330µF/6.3V M	CE0KMASTL331
C217		CHIP CERAMIC CAP. CH D 10pF/50V or	CHD1JD3CH100
		CHIP CERAMIC CAP. CH D 10pF/50V	CHD1JDBCH100
C218		CHIP CERAMIC CAP. CH D 10pF/50V or	CHD1JD3CH100
		CHIP CERAMIC CAP. CH D 10pF/50V	CHD1JDBCH100
C221		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C222		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01µF/16V	CZM1CZB0F103
C223		CHIP CERAMIC CAP.(MELF) Y K 4700pF/16V or	CZM1CK30Y472
		CHIP CERAMIC CAP.(MELF) Y K 4700pF/16V	CZM1CKB0Y472
C224		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/50V	CHD1JZB0F104
C225		CHIP CERAMIC CAP. CH J 560pF/50V or	CHD1JJ3CH561
		CHIP CERAMIC CAP. CH J 560pF/50V	CHD1JJBCH561
C226		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/50V	CHD1JZB0F104
C227		CHIP CERAMIC CAP. CH D 10pF/50V or	CHD1JD3CH100
		CHIP CERAMIC CAP. CH D 10pF/50V	CHD1JDBCH100

Ref. No.	Mark	Description	Part No.
C228		CHIP CERAMIC CAP. CH D 10pF/50V or	CHD1JD3CH100
		CHIP CERAMIC CAP. CH D 10pF/50V	CHD1JDBCH100
C229		CHIP CERAMIC CAP.(MELF) Y K 4700pF/16V or	CZM1CK30Y472
		CHIP CERAMIC CAP.(MELF) Y K 4700pF/16V	CZM1CKB0Y472
C230		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C231		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V	CZM1CZB0F103
C233 [△]		CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V or	CZM1GK30Y102
[△]		CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V	CZM1GKB0Y102
C234		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C235		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C236		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C237		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C238		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C239		CHIP CERAMIC CAP. CH J 560pF/50V or	CHD1JJ3CH561
		CHIP CERAMIC CAP. CH J 560pF/50V	CHD1JJBCH561
C240		CHIP CERAMIC CAP.(MELF) Y K 4700pF/16V or	CZM1CK30Y472
		CHIP CERAMIC CAP.(MELF) Y K 4700pF/16V	CZM1CKB0Y472
C241		ELECTROLYTIC CAP. 22μF/50V M or	CE1JMASDL220
		ELECTROLYTIC CAP. 22μF/50V M	CE1JMASTL220
C242		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V	CZM1CZB0F103
C243		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C244		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V	CZM1CZB0F103
C245		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C248		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C253		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C254		CHIP CERAMIC CAP. CH J 560pF/50V or	CHD1JJ3CH561
		CHIP CERAMIC CAP. CH J 560pF/50V	CHD1JJBCH561
C255		CHIP CERAMIC CAP. CH J 560pF/50V or	CHD1JJ3CH561
		CHIP CERAMIC CAP. CH J 560pF/50V	CHD1JJBCH561
C256		ELECTROLYTIC CAP. 10μF/25V M H7	CE1EMAVSL100
C301		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V	CZM1CZB0F103
C302		ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471

Ref. No.	Mark	Description	Part No.
		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C303		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C304		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C305		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL010
		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C307		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C308		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C309		FILM CAP.(P) 0.1μF/50V J or	CA1J104MS029
		FILM CAP.(P) 0.1μF/50V J	CMA1JJS00104
C310		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C311		ELECTROLYTIC CAP. 470μF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASTL471
C312		CHIP CERAMIC CAP.(MELF) B K 180pF/50V or	CZM1JK30B181
		CHIP CERAMIC CAP.(MELF) B K 180pF/50V	CZM1JKB0B181
C313		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C314		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C315		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C316		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL010
		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C317		CHIP CERAMIC CAP. CH J 150pF/50V or	CHD1JJ3CH151
		CHIP CERAMIC CAP. CH J 150pF/50V	CHD1JJBCH151
C318		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL010
		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C319		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL010
		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C320		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C321		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL010

Ref. No.	Mark	Description	Part No.
		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C322		ELECTROLYTIC CAP. 470μF/10V M or	CE1AMASDL471
		ELECTROLYTIC CAP. 470μF/10V M	CE1AMASTL471
C323		ELECTROLYTIC CAP. 47μF/25V M or	CE1EMASDL470
		ELECTROLYTIC CAP. 47μF/25V M	CE1EMASTL470
C324		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V	CZM1CZB0F103
C325		FILM CAP.(P) 0.22μF/50V J or	CA1J224MS029
		MYLAR CAP. 0.22μF/50V J or	CMA1JJS00224
		TF CAP. 0.22μF/50V J	CT1J224MS045
C326		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL010
		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C327		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C328		FILM CAP.(P) 0.22μF/50V J or	CA1J224MS029
		MYLAR CAP. 0.22μF/50V J or	CMA1JJS00224
		TF CAP. 0.22μF/50V J	CT1J224MS045
C330		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V	CZM1CZB0F103
C331		ELECTROLYTIC CAP. 47μF/10V M or	CE1AMASDL470
		ELECTROLYTIC CAP. 47μF/10V M	CE1AMASTL470
C332		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C333		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C334		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C336		ELECTROLYTIC CAP. 47μF/10V M or	CE1AMASDL470
		ELECTROLYTIC CAP. 47μF/10V M	CE1AMASTL470
C338		CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V or	CZM1GK30Y102
		CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V	CZM1GKB0Y102
C340		CHIP CERAMIC CAP.(MELF) B K 180pF/50V or	CZM1JK30B181
		CHIP CERAMIC CAP.(MELF) B K 180pF/50V	CZM1JKB0B181
C341		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V or	CZM1CZ30F103
		CHIP CERAMIC CAP.(MELF) F Z 0.01μF/16V	CZM1CZB0F103
C344		CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V or	CZM1GK30Y102
		CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V	CZM1GKB0Y102
C350		ELECTROLYTIC CAP. 220μF/10V M or	CE1AMASDL221
		ELECTROLYTIC CAP. 220μF/10V M	CE1AMASTL221
C401		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103

Ref. No.	Mark	Description	Part No.
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C402		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C403		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C404		ELECTROLYTIC CAP. 100μF/6.3V H7	CE0KMAVSL101
C405		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C406		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C407		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C408		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C409		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C410		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C411		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C412		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C413		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C414		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C415		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C416		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C417		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C418		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C419		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C420		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C421		ELECTROLYTIC CAP. 10μF/25V M H7	CE1EMAVSL100
C424		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104

Ref. No.	Mark	Description	Part No.
		CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/50V	CHD1JZB0F104
C425		CHIP CERAMIC CAP. CH J 68pF/50V or	CHD1JJ3CH680
		CHIP CERAMIC CAP. CH J 68pF/50V	CHD1JJBCH680
C426		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/50V	CHD1JZB0F104
C427		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/50V	CHD1JZB0F104
C430		ELECTROLYTIC CAP. 47µF/25V M or	CE1EMASDL470
		ELECTROLYTIC CAP. 47µF/25V M	CE1EMASTL470
C431		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/50V	CHD1JZB0F104
C432		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C433		ELECTROLYTIC CAP. 10µF/25V M H7	CE1EMAVSL100
C434		ELECTROLYTIC CAP. 22µF/16V M H7	CE1CMAVSL220
C435		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C436		CHIP CERAMIC CAP. CH J 120pF/50V or	CHD1JJ3CH121
		CHIP CERAMIC CAP. CH J 120pF/50V	CHD1JJBCH121
C438		CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
		CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJBCH221
C440		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C441		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/50V	CHD1JZB0F104
C442		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/50V	CHD1JZB0F104
C443		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C444		CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C445		ELECTROLYTIC CAP. 10µF/25V M H7	CE1EMAVSL100
C452		CHIP CERAMIC CAP. CH J 68pF/50V or	CHD1JJ3CH680
		CHIP CERAMIC CAP. CH J 68pF/50V	CHD1JJBCH680
C681		ELECTROLYTIC CAP. 220µF/16V M or	CE1CMASDL221
		ELECTROLYTIC CAP. 220µF/16V M	CE1CMASTL221
C682		ELECTROLYTIC CAP. 220µF/16V M or	CE1CMASDL221
		ELECTROLYTIC CAP. 220µF/16V M	CE1CMASTL221
C683		ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
		ELECTROLYTIC CAP. 10µF/50V M	CE1JMASTL100
C684▲		CHIP CERAMIC CAP.(MELF) B K 180pF/50V or	CZM1JK30B181
▲		CHIP CERAMIC CAP.(MELF) B K 180pF/50V	CZM1JKB0B181
C687		ELECTROLYTIC CAP. 47µF/25V M or	CE1EMASDL470
		ELECTROLYTIC CAP. 47µF/25V M	CE1EMASTL470

Ref. No.	Mark	Description	Part No.
C688		ELECTROLYTIC CAP. 47µF/25V M or	CE1EMASDL470
		ELECTROLYTIC CAP. 47µF/25V M	CE1EMASTL470
C689	B	ELECTROLYTIC CAP. 470µF/10V M or	CE1AMASDL471
	B	ELECTROLYTIC CAP. 470µF/10V M	CE1AMASTL471
C691		ELECTROLYTIC CAP. 2.2µF/50V M or	CE1JMASDL2R2
		ELECTROLYTIC CAP. 2.2µF/50V M	CE1JMASTL2R2
C694		ELECTROLYTIC CAP. 100µF/10V M or	CE1AMASDL101
		ELECTROLYTIC CAP. 100µF/10V M	CE1AMASTL101
C703		ELECTROLYTIC CAP. 4.7µF/50V M or	CE1JMASDL4R7
		ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASTL4R7
C707		ELECTROLYTIC CAP. 0.22µF/50V M or	CE1JMASDLR22
		ELECTROLYTIC CAP. 0.22µF/50V M	CE1JMASTLR22
C708		ELECTROLYTIC CAP. 0.47µF/50V M or	CE1JMASDLR47
		ELECTROLYTIC CAP. 0.47µF/50V M	CE1JMASTLR47
C709		ELECTROLYTIC CAP. 0.47µF/50V M or	CE1JMASDLR47
		ELECTROLYTIC CAP. 0.47µF/50V M	CE1JMASTLR47
C710		ELECTROLYTIC CAP. 0.47µF/50V M or	CE1JMASDLR47
		ELECTROLYTIC CAP. 0.47µF/50V M	CE1JMASTLR47
C711		ELECTROLYTIC CAP. 470µF/10V M or	CE1AMASDL471
		ELECTROLYTIC CAP. 470µF/10V M	CE1AMASTL471
C713		PCB JUMPER D0.6-P5.0	JW5.0T
C715		ELECTROLYTIC CAP. 4.7µF/50V M or	CE1JMASDL4R7
		ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASTL4R7
C716		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/50V	CHD1JZB0F104
C719		ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL010
		ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1µF/50V M	CE1JMASTL1R0
C723		CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V or	CZM1GK30Y102
		CHIP CERAMIC CAP.(MELF) Y K 1000pF/35V	CZM1GKB0Y102
C724		ELECTROLYTIC CAP. 47µF/10V M or	CE1AMASDL470
		ELECTROLYTIC CAP. 47µF/10V M	CE1AMASTL470
C851		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C855		ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMAVSL221
C856		CERAMIC CAP. B K 470pF/100V or	CCD2AKS0B471
		CERAMIC CAP. B K 470pF/500V	CCD2JKS0B471
C857		FILM CAP.(P) 0.018µF/50V J or	CA1J183MS029
		FILM CAP.(P) 0.018µF/100V J	CMA2AJS00183
C858		CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JKB0B222
C859		CHIP CERAMIC CAP.(MELF) SL J 33pF/50V or	CZM1JJ3SL330
		CHIP CERAMIC CAP.(MELF) SL J 33pF/50V	CZM1JJB3SL330
C860		PCB JUMPER D0.6-P5.0	JW5.0T
C861		CERAMIC CAP.(AX) X M 1800pF/16V	CCA1CMT0X182
C862		ELECTROLYTIC CAP. 10µF/25V M H7	CE1EMAVSL100
C863		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01µF/50V	CHD1JKB0B103
C864		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1µF/50V	CHD1JZB0F104
C865		CHIP CERAMIC CAP.(1608) B K 0.022µF/25V or	CHD1EK30B223

Ref. No.	Mark	Description	Part No.
		CHIP CERAMIC CAP. B K 0.022μF/25V or	CHD1EKB0B223
		CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
		CHIP CERAMIC CAP. B K 0.022μF/50V	CHD1JKB0B223
C866		ELECTROLYTIC CAP. 33μF/10V H7	CE1AMAVSL330
C867		ELECTROLYTIC CAP. 4.7μF/50V M H7	CE1JMAVSL4R7
C869		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C871		CHIP CERAMIC CAP.(MELF) B K 180pF/50V or	CZM1JK30B181
		CHIP CERAMIC CAP.(MELF) B K 180pF/50V	CZM1JKB0B181
C872		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C874		CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/25V or	CHD1EZB0F104
		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP. F Z 0.1μF/50V	CHD1JZB0F104
C875		CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
		CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJBCH221
C876		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
		CHIP CERAMIC CAP. B K 0.01μF/50V	CHD1JKB0B103
C877		ELECTROLYTIC CAP. 100μF/6.3V H7	CE0KMAVSL101
CONNECTORS			
CN151	B	STRAIGHT PIN HEADER, 2P 173981-2 or	1770258
	B	STRAIGHT CONNECTOR BASE 00 8283 0212 00 000	J383C02UG002
CN201		FFC/FPC CONNECTOR, 12P 04 6232 112 103 800	JC62D12TM003
CN303		CONNECTOR BASE, 5P TUC-P05P-B1	J3TUA05TG001
CN804	A	STRAIGHT PIN HEADER, 2P 173981-2 or	1770258
	A	STRAIGHT CONNECTOR BASE 00 8283 0212 00 000	J383C02UG002
DIODES			
D151△		ZENER DIODE DZ-7.5BSBT265 or	NDTB0DZ7R5BS
△		ZENER DIODE MTZJT-777.5B	QDTB0MTZJ7R5
D152△		SWITCHING DIODE 1N4148 or	NDTZ001N4148
△		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D201		LED SIR-563ST3F P or	QPQPS1R563ST
		LED SIR-563ST3F Q	QPQQS1R563ST
D202		LED(RED) L-1513EC	NPQZ0L1513EC
D204		LED(RED) L-1513EC	NPQZ0L1513EC
D205		ZENER DIODE DZ-5.6BSBT265 or	NDTB0DZ5R6BS
		ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D206		PCB JUMPER D0.6-P5.0	JW5.0T
D210		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D211		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D212		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D213		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D214		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D302		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D303		SWITCHING DIODE 1N4148 or	NDTZ001N4148

Ref. No.	Mark	Description	Part No.
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D304		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D305		ZENER DIODE DZ-8.2BSBT265 or	NDTB0DZ8R2BS
		ZENER DIODE MTZJT-778.2B	QDTB0MTZJ8R2
D306		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D401△		SWITCHING DIODE 1N4148 or	NDTZ001N4148
△		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D402		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
D682△		PCB JUMPER D0.6-P10.0	JW10.0T
D686		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D687		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D688△		SWITCHING DIODE 1N4148 or	NDTZ001N4148
△		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D691△		SWITCHING DIODE 1N4148 or	NDTZ001N4148
△		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D694		ZENER DIODE DZ-15BSBT265 or	NDTB0DZ15BS
		ZENER DIODE MTZJT-7715B	QDTB0MTZJ15
D695		ZENER DIODE DZ-6.8BSBT265 or	NDTB0DZ6R8BS
		ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D696		ZENER DIODE DZ-18BSBT265 or	NDTB0DZ18BS
		ZENER DIODE MTZJT-7718B	QDTB0MTZJ18
D697		ZENER DIODE DZ-9.1BSBT265 or	NDTB0DZ9R1BS
		ZENER DIODE MTZJT-779.1B	QDTB0MTZJ9R1
D706		ZENER DIODE DZ-5.1BSBT265 or	NDTB0DZ5R1BS
		ZENER DIODE MTZJT-775.1B	QDTB0MTZJ5R1
D711		ZENER DIODE DZ-5.6BSBT265 or	NDTB0DZ5R6BS
		ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D712		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D713		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D715		SWITCHING DIODE 1N4148 or	NDTZ001N4148
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D716		ZENER DIODE MTZJT-7715B or	QDTB0MTZJ15
		ZENER DIODE DZ-15BSBT265	NDTB0DZ15BS
ICS			
IC151△		AUDIO AMP LA4224	QSZAA0SSY005
IC201△		MICRO COMPUTER M37762MCA-BB0GP	QSZAA0RHT016
IC202△		IC:MEMORY AT24C04N-10SC or	NSMMA0SAZ013
△		IC(EEPROM) M24C04-MN6 or	NSMMA0SSS029
△		IC(EEP-ROM) M24C04-WMN6 or	NSZAA0SSS005
△		IC:EEPROM CAT24WC04JI or	NSZBA0SBG002
△		IC:MEMORY BR24C04F-W or	QSMBA0SRM004
△		IC:MEMORY BR24C04F or	QSMMA0SRM004
△		IC:EEPROM(4K) BR24L04F-WE2	QSZBA0TRM066
IC301△		IC:CHROMA/IF 1 CHIP M61209BFP	QSZBA0RMB017
IC401△		IC:Y/C/A LA71750EM-MPB-E	QSZBA0RSY020
IC681△		VOLTAGE REGULATOR KIA7805API or	NSBBA0SJY011
△		VOLTAGE REGULATOR KA7805A	NSZBA0SF3052
IC701△		IC:ANALOG MULTIPLEXERS CD4053BCSJX or	NSZBA0TF3071
△		IC:ANALOG MULTIPLEXER CD4053BNSR or	NSZBA0TTY093
△		IC:SWITCH TC4053BF(N)	QSMBA0STS002
IC703△		IC:ANALOG MULTIPLEXERS CD4053BCSJX or	NSZBA0TF3071
△		IC:ANALOG MULTIPLEXER CD4053BNSR or	NSZBA0TTY093

Ref. No.	Mark	Description	Part No.
		IC:SWITCH TC4053BF(N)	QSMBA0STS002
COILS			
L001		PCB JUMPER D0.6-P5.0	JW5.0T
L151		INDUCTOR 1.8μH-J-26T or	LLAXJATTU1R8
		INDUCTOR 1.8μH-K-26T	LLAXKDTKA1R8
L152		INDUCTOR 1.0μH-J-26T or	LLAXJATTU010
		INDUCTOR 1.0μH-K-26T	LLAXKDTKA1R0
L201		INDUCTOR 0.10μH-K-26T or	LLAXKATTUR10
		INDUCTOR 0.1μH-M-26T	LLAXMDTKAR10
L302		INDUCTOR 33μH-J-26T or	LLAXJATTU330
		INDUCTOR 33μH-K-26T	LLAXKDTKA330
L303		PCB JUMPER D0.6-P7.5	JW7.5T
L304		PCB JUMPER D0.6-P7.5	JW7.5T
L305		PCB JUMPER D0.6-P5.0	JW5.0T
L401		PCB JUMPER D0.6-P5.0	JW5.0T
L402		INDUCTOR 33μH-J-26T or	LLAXJATTU330
		INDUCTOR 33μH-K-26T	LLAXKDTKA330
L403		INDUCTOR 100μH-J-26T or	LLAXJATTU101
		INDUCTOR 100μH-K-26T	LLAXKDTKA101
L681		PCB JUMPER D0.6-P7.5	JW7.5T
L682		PCB JUMPER D0.6-P7.5	JW7.5T
L701		INDUCTOR 12μH-J-26T or	LLAXJATTU120
		INDUCTOR 12μH-K-26T	LLAXKDTKA120
L702		PCB JUMPER D0.6-P5.0	JW5.0T
L852		INDUCTOR 47μH-K-5FT or	LLARKBSTU470
		INDUCTOR 47μH-K-5FT	LLARKDSKA470
L854		INDUCTOR 0.22μH-K-26T or	LLAXKATTUR22
		INDUCTOR 0.22μH-M-26T	LLAXMDTKAR22
TRANSISTORS			
Q204		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q205		PHOTO TRANSISTOR MID-32A22F or	NPWZ1D32A22F
		PHOTO TRANSISTOR PT204-6B-12	NPWZT2046B12
Q206		RES. BUILT-IN TRANSISTOR 2SA1346 or	2SA1346Z
		RES. BUILT-IN TRANSISTOR KRA103M or	NQSZ0KRA103M
		RES. BUILT-IN TRANSISTOR BN1F4M-T	QQSZ00BN1F4M
Q401		TRANSISTOR KTA1267(GR) or	NQS10KTA1267
		TRANSISTOR KTA1266(GR) or	NQS40KTA1266
		TRANSISTOR 2SA1015-GR(TPE2) or	QQS102SA1015
		TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q682		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q684		TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
		TRANSISTOR 2SC2120-O-TPE2 or	QQS002SC2120
		TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q685		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q686		TRANSISTOR KTC2026Y or	NQWY0KTC2026

Ref. No.	Mark	Description	Part No.
		TRANSISTOR 2SD1913(R)	Q2SD1913R***
Q701		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q702		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q703		TRANSISTOR KTA1267(GR) or	NQS10KTA1267
		TRANSISTOR KTA1266(GR) or	NQS40KTA1266
		TRANSISTOR 2SA1015-GR(TPE2) or	QQS102SA1015
		TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q704		RES. BUILT-IN TRANSISTOR 2SA1346 or	2SA1346Z
		RES. BUILT-IN TRANSISTOR KRA103M or	NQSZ0KRA103M
		RES. BUILT-IN TRANSISTOR BN1F4M-T	QQSZ00BN1F4M
Q705		PCB JUMPER D0.6-P5.0	JW5.0T
Q706		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q707		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q708		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q709		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q710		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q711		TRANSISTOR KTA1267(GR) or	NQS10KTA1267
		TRANSISTOR KTA1266(GR) or	NQS40KTA1266
		TRANSISTOR 2SA1015-GR(TPE2) or	QQS102SA1015
		TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q851		RES. BUILT-IN TRANSISTOR 2SA1346 or	2SA1346Z
		RES. BUILT-IN TRANSISTOR KRA103M or	NQSZ0KRA103M
		RES. BUILT-IN TRANSISTOR BN1F4M-T	QQSZ00BN1F4M
Q852		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC3331(T) or	QSC3331TNPAA
		TRANSISTOR 2SC3331(U)	QSC3331UNPAA

Ref. No.	Mark	Description	Part No.
Q853		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC3331(T) or	QSC3331TNPAA
		TRANSISTOR 2SC3331(U)	QSC3331UNPAA
Q854		TRANSISTOR KTA1267(GR) or	NQS10KTA1267
		TRANSISTOR KTA1266(GR) or	NQS40KTA1266
		TRANSISTOR 2SA1015-GR(TPE2) or	QQS102SA1015
		TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q855		TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
		TRANSISTOR 2SC2120-O-TPE2 or	QQS002SC2120
		TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q856		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQS02SC2785
RESISTORS			
R003		PCB JUMPER D0.6-P5.0	JW5.0T
R004		PCB JUMPER D0.6-P5.0	JW5.0T
R151△		METAL OXIDE FILM RES. 1W J 12 Ω or	RN01JZLZ0120
△		FIXED METAL OXIDE FILM RES. 1W J 12 Ω	RN01JZPZ0120
R152△		CHIP RES.(1608) 1/10W J 5.6k Ω or	RRXAJB5Z0562
△		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R153		CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R154		CHIP RES.(1608) 1/10W J 5.6k Ω or	RRXAJB5Z0562
		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R155		CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R156		CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R157		CARBON RES. 1/4W J 10 Ω	RCX4JATZ0100
R201		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R202		CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R203		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R204		CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R205		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R206		CHIP RES.(1608) 1/10W J 390k Ω or	RRXAJB5Z0394
		CHIP RES.(1608) 1/10W J 390k Ω	RRXAJR5Z0394
R207		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R208		CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152
		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R209		CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152
		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R210		CARBON RES. 1/4W G 4.7k Ω or	RCX4GATZ0472
		CARBON RES. 1/6W G 4.7k Ω	RCX6GATZ0472
R211		CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R212		CHIP RES.(1608) 1/10W J 2.7k Ω or	RRXAJB5Z0272
		CHIP RES.(1608) 1/10W J 2.7k Ω	RRXAJR5Z0272
R213		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R214		CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152
		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R215		CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152
		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R216		CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R217		CHIP RES.(1608) 1/10W J 2.7k Ω or	RRXAJB5Z0272

Ref. No.	Mark	Description	Part No.
		CHIP RES.(1608) 1/10W J 2.7k Ω	RRXAJR5Z0272
R218		CHIP RES.(1608) 1/10W J 560 Ω or	RRXAJB5Z0561
		CHIP RES.(1608) 1/10W J 560 Ω	RRXAJR5Z0561
R219		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R220		CHIP RES.(1608) 1/10W J 390k Ω or	RRXAJB5Z0394
		CHIP RES.(1608) 1/10W J 390k Ω	RRXAJR5Z0394
R221		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R222		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R223		CHIP RES.(1608) 1/10W J 680 Ω or	RRXAJB5Z0681
		CHIP RES.(1608) 1/10W J 680 Ω	RRXAJR5Z0681
R224		CHIP RES.(1608) 1/10W J 680 Ω or	RRXAJB5Z0681
		CHIP RES.(1608) 1/10W J 680 Ω	RRXAJR5Z0681
R226		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R227		CHIP RES.(1608) 1/10W J 47 Ω or	RRXAJB5Z0470
		CHIP RES.(1608) 1/10W J 47 Ω	RRXAJR5Z0470
R228		CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R229		CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R230		CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152
		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R231		CHIP RES.(1608) 1/10W J 330k Ω or	RRXAJB5Z0334
		CHIP RES.(1608) 1/10W J 330k Ω	RRXAJR5Z0334
R232		CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R233		CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R234		CHIP RES.(1608) 1/10W J 560 Ω or	RRXAJB5Z0561
		CHIP RES.(1608) 1/10W J 560 Ω	RRXAJR5Z0561
R235		CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R236		CHIP RES.(1608) 1/10W J 470 Ω or	RRXAJB5Z0471
		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R237		CHIP RES.(1608) 1/10W J 1M Ω or	RRXAJB5Z0105
		CHIP RES.(1608) 1/10W J 1M Ω	RRXAJR5Z0105
R238		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R239		PCB JUMPER D0.6-P5.0	JW5.0T
R240		PCB JUMPER D0.6-P5.0	JW5.0T
R241		CHIP RES.(1608) 1/10W J 220 Ω or	RRXAJB5Z0221
		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R242		CHIP RES.(1608) 1/10W J 220 Ω or	RRXAJB5Z0221
		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R243		CHIP RES.(1608) 1/10W J 39k Ω or	RRXAJB5Z0393
		CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R244		CHIP RES.(1608) 1/10W J 220k Ω or	RRXAJB5Z0224
		CHIP RES.(1608) 1/10W J 220k Ω	RRXAJR5Z0224
R248		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R249		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R250		CHIP RES.(1608) 1/10W J 33k Ω or	RRXAJB5Z0333
		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R254		CHIP RES.(1608) 1/10W J 100k Ω or	RRXAJB5Z0104
		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R255		CHIP RES.(1608) 1/10W J 680 Ω or	RRXAJB5Z0681
		CHIP RES.(1608) 1/10W J 680 Ω	RRXAJR5Z0681
R256		CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R257		CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R258		CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473

Ref. No.	Mark	Description	Part No.
R259		PCB JUMPER D0.6-P5.0	JW5.0T
R260		CARBON RES. 1/4W G 1.5k Ω or	RCX4GATZ0152
		CARBON RES. 1/6W G 1.5k Ω	RCX6GATZ0152
R261		CARBON RES. 1/4W G 22k Ω or	RCX4GATZ0223
		CARBON RES. 1/6W G 22k Ω	RCX6GATZ0223
R262		CARBON RES. 1/4W G 470 Ω or	RCX4GATZ0471
		CARBON RES. 1/6W G 470 Ω	RCX6GATZ0471
R263		CARBON RES. 1/4W G 10k Ω or	RCX4GATZ0103
		CARBON RES. 1/6W G 10k Ω	RCX6GATZ0103
R264		CARBON RES. 1/4W G 3.6k Ω or	RCX4GATZ0362
		CARBON RES. 1/6W G 3.6k Ω	RCX6GATZ0362
R265		PCB JUMPER D0.6-P5.0	JW5.0T
R266		PCB JUMPER D0.6-P5.0	JW5.0T
R267		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R268		CHIP RES.(1608) 1/10W J 3.3k Ω or	RRXAJB5Z0332
		CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R269		CHIP RES.(1608) 1/10W J 3.3k Ω or	RRXAJB5Z0332
		CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R270		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R271		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R272		CHIP RES.(1608) 1/10W J 18k Ω or	RRXAJB5Z0183
		CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R273		CHIP RES.(1608) 1/10W J 18k Ω or	RRXAJB5Z0183
		CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R274		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R275		CHIP RES.(1608) 1/10W J 560 Ω or	RRXAJB5Z0561
		CHIP RES.(1608) 1/10W J 560 Ω	RRXAJR5Z0561
R276		CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152
		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R277		CHIP RES.(1608) 1/10W J 560 Ω or	RRXAJB5Z0561
		CHIP RES.(1608) 1/10W J 560 Ω	RRXAJR5Z0561
R278		CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152
		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R279		CHIP RES.(1608) 1/10W J 560 Ω or	RRXAJB5Z0561
		CHIP RES.(1608) 1/10W J 560 Ω	RRXAJR5Z0561
R280		CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152
		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R281		CHIP RES.(1608) 1/10W J 3.3k Ω or	RRXAJB5Z0332
		CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R282		CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R288		CHIP RES.(1608) 1/10W J 10 Ω or	RRXAJB5Z0100
		CHIP RES.(1608) 1/10W J 10 Ω	RRXAJR5Z0100
R289		CHIP RES.(1608) 1/10W J 10 Ω or	RRXAJB5Z0100
		CHIP RES.(1608) 1/10W J 10 Ω	RRXAJR5Z0100
R301		CHIP RES.(1608) 1/10W J 1.2k Ω or	RRXAJB5Z0122
		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R302		CHIP RES.(1608) 1/10W J 8.2k Ω or	RRXAJB5Z0822
		CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R303		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R304	A	CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
	A	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R304	B	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	B	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R305		CHIP RES.(1608) 1/10W J 1.2k Ω or	RRXAJB5Z0122
		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R306		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101

Ref. No.	Mark	Description	Part No.
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R307		CHIP RES.(1608) 1/10W J 1.2k Ω or	RRXAJB5Z0122
		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R308		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R309		CHIP RES.(1608) 1/10W J 1.2k Ω or	RRXAJB5Z0122
		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R310		CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R311		CARBON RES. 1/4W J 12 Ω	RCX4JATZ0120
R312		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R313		CHIP RES.(1608) 1/10W J 220k Ω or	RRXAJB5Z0224
		CHIP RES.(1608) 1/10W J 220k Ω	RRXAJR5Z0224
R314		CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R315		CHIP RES.(1608) 1/10W J 150k Ω or	RRXAJB5Z0154
		CHIP RES.(1608) 1/10W J 150k Ω	RRXAJR5Z0154
R316		CARBON RES. 1/4W J 15k Ω	RCX4JATZ0153
R317		CARBON RES. 1/4W J 220k Ω	RCX4JATZ0224
R318		CHIP RES.(1608) 1/10W J 6.8k Ω or	RRXAJB5Z0682
		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R320		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R321		CHIP RES.(1608) 1/10W J 220 Ω or	RRXAJB5Z0221
		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R322		CHIP RES.(1608) 1/10W J 3.3k Ω or	RRXAJB5Z0332
		CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R323		CHIP RES.(1608) 1/10W J 15k Ω or	RRXAJB5Z0153
		CHIP RES.(1608) 1/10W J 15k Ω	RRXAJR5Z0153
R324		CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R325		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R326		CHIP RES.(1608) 1/10W J 6.8k Ω or	RRXAJB5Z0682
		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R327		PCB JUMPER D0.6-P5.0	JW5.0T
R332		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R333		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R334		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R335		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R336		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R339		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R340		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R401		CHIP RES.(1608) 1/10W J 1.2k Ω or	RRXAJB5Z0122
		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R402		CHIP RES.(1608) 1/10W J 8.2k Ω or	RRXAJB5Z0822
		CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R405		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R406		CHIP RES.(1608) 1/10W J 1.2k Ω or	RRXAJB5Z0122
		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R407		CHIP RES.(1608) 1/10W J 390k Ω or	RRXAJB5Z0394
		CHIP RES.(1608) 1/10W J 390k Ω	RRXAJR5Z0394
R408		CHIP RES.(1608) 1/10W J 330 Ω or	RRXAJB5Z0331

Ref. No.	Mark	Description	Part No.
		CHIP RES.(1608) 1/10W J 330 Ω	RRXAJR5Z0331
R409		CHIP RES.(1608) 1/10W J 330 Ω or	RRXAJB5Z0331
		CHIP RES.(1608) 1/10W J 330 Ω	RRXAJR5Z0331
R410		CHIP RES.(1608) 1/10W J 220 Ω or	RRXAJB5Z0221
		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R411		CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R412		CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R413		CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R414		CHIP RES.(1608) 1/10W J 6.8k Ω or	RRXAJB5Z0682
		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R415		CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R416		CHIP RES.(1608) 1/10W J 1.2k Ω or	RRXAJB5Z0122
		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R418		CHIP RES.(1608) 1/10W J 56k Ω or	RRXAJB5Z0563
		CHIP RES.(1608) 1/10W J 56k Ω	RRXAJR5Z0563
R420		CHIP RES.(1608) 1/10W J 1.5k Ω or	RRXAJB5Z0152
		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R422		CHIP RES.(1608) 1/10W J 120 Ω or	RRXAJB5Z0121
		CHIP RES.(1608) 1/10W J 120 Ω	RRXAJR5Z0121
R423		CHIP RES.(1608) 1/10W J 47 Ω or	RRXAJB5Z0470
		CHIP RES.(1608) 1/10W J 47 Ω	RRXAJR5Z0470
R424		CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R425		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R426		CHIP RES.(1608) 1/10W 0 Ω or	RRXAZB5Z0000
		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R683		METAL OXIDE FILM RES. 1W J 2.2 Ω or	RN012R2DP003
		METAL OXIDE FILM RES. 1W J 2.2 Ω	RN012R2ZU001
R684		CHIP RES.(1608) 1/10W J 10 Ω or	RRXAJB5Z0100
		CHIP RES.(1608) 1/10W J 10 Ω	RRXAJR5Z0100
R685		CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R686		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R689 [△]		CARBON RES. 1/4W J 82 Ω	RCX4JATZ0820
R690 [△]		CARBON RES. 1/4W J 82 Ω	RCX4JATZ0820
R691 [△]		CARBON RES. 1/4W J 2.7 Ω	RCX4JATZ02R7
R692		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R693 [△]		CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
[△]		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R694		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R695 [△]		CARBON RES. 1/4W J 2.7 Ω	RCX4JATZ02R7
R696 [△]		METAL OXIDE FILM RES. 1W J 2.2 Ω or	RN012R2DP003
[△]		METAL OXIDE FILM RES. 1W J 2.2 Ω	RN012R2ZU001
R697		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R698		CHIP RES.(1608) 1/10W J 8.2k Ω or	RRXAJB5Z0822
		CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R701		CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R702		CHIP RES.(1608) 1/10W J 3.3k Ω or	RRXAJB5Z0332
		CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R703		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R704		CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R707		CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102

Ref. No.	Mark	Description	Part No.
		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R709		CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R710		CHIP RES.(1608) 1/10W J 33k Ω or	RRXAJB5Z0333
		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R711		CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R712		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R714		CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R723		CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R724		CHIP RES.(1608) 1/10W J 33k Ω or	RRXAJB5Z0333
		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R725		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R726		CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R727		CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R728		CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R729		CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R730		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R731		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R732		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R733		CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R737		CHIP RES.(1608) 1/10W J 75 Ω or	RRXAJB5Z0750
		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R738		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R739		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R740		CHIP RES.(1608) 1/10W J 33k Ω or	RRXAJB5Z0333
		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R741		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R742		CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R743		CHIP RES.(1608) 1/10W J 6.2k Ω or	RRXAJB5Z0622
		CHIP RES.(1608) 1/10W J 6.2k Ω	RRXAJR5Z0622
R744		CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R745		CHIP RES.(1608) 1/10W J 6.2k Ω or	RRXAJB5Z0622
		CHIP RES.(1608) 1/10W J 6.2k Ω	RRXAJR5Z0622
R746		CHIP RES.(1608) 1/10W J 47k Ω or	RRXAJB5Z0473
		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R747		CHIP RES.(1608) 1/10W J 6.2k Ω or	RRXAJB5Z0622
		CHIP RES.(1608) 1/10W J 6.2k Ω	RRXAJR5Z0622
R748	A	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	A	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R748	B	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	B	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R749		CHIP RES.(1608) 1/10W J 10k Ω or	RRXAJB5Z0103
		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R751	A	CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
	A	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R751	B	CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
	B	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222

Ref. No.	Mark	Description	Part No.
R752		CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R753	A	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R753	B	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R754		CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R755		CHIP RES.(1608) 1/10W J 470 Ω or	RRXAJB5Z0471
		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R756		CHIP RES.(1608) 1/10W J 1k Ω or	RRXAJB5Z0102
		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R757		CHIP RES.(1608) 1/10W J 1M Ω or	RRXAJB5Z0105
		CHIP RES.(1608) 1/10W J 1M Ω	RRXAJR5Z0105
R851		CHIP RES.(1608) 1/10W J 5.6k Ω or	RRXAJB5Z0562
		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R852		CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R853		CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R854		CHIP RES.(1608) 1/10W J 2.2k Ω or	RRXAJB5Z0222
		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R856		CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R857		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R858		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R859		CHIP RES.(1608) 1/10W J 680 Ω or	RRXAJB5Z0681
		CHIP RES.(1608) 1/10W J 680 Ω	RRXAJR5Z0681
R860		CHIP RES.(1608) 1/10W J 22k Ω or	RRXAJB5Z0223
		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R861		CHIP RES.(1608) 1/10W J 330k Ω or	RRXAJB5Z0334
		CHIP RES.(1608) 1/10W J 330k Ω	RRXAJR5Z0334
R862		CHIP RES.(1608) 1/10W J 12k Ω or	RRXAJB5Z0123
		CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R863		CHIP RES.(1608) 1/10W J 120 Ω or	RRXAJB5Z0121
		CHIP RES.(1608) 1/10W J 120 Ω	RRXAJR5Z0121
R864		CHIP RES.(1608) 1/10W J 560 Ω or	RRXAJB5Z0561
		CHIP RES.(1608) 1/10W J 560 Ω	RRXAJR5Z0561
R865		CHIP RES.(1608) 1/10W J 1.8k Ω or	RRXAJB5Z0182
		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R866		CHIP RES.(1608) 1/10W J 12k Ω or	RRXAJB5Z0123
		CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R867		CHIP RES.(1608) 1/10W J 100 Ω or	RRXAJB5Z0101
		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R869		CHIP RES.(1608) 1/10W J 2.7k Ω or	RRXAJB5Z0272
		CHIP RES.(1608) 1/10W J 2.7k Ω	RRXAJR5Z0272
R870		CHIP RES.(1608) 1/10W J 56k Ω or	RRXAJB5Z0563
		CHIP RES.(1608) 1/10W J 56k Ω	RRXAJR5Z0563
R871		CHIP RES.(1608) 1/10W J 1M Ω or	RRXAJB5Z0105
		CHIP RES.(1608) 1/10W J 1M Ω	RRXAJR5Z0105
R874		CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R876		CHIP RES.(1608) 1/10W J 4.7k Ω or	RRXAJB5Z0472
		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R877		CHIP RES.(1608) 1/10W J 15k Ω or	RRXAJB5Z0153
		CHIP RES.(1608) 1/10W J 15k Ω	RRXAJR5Z0153
R878		CHIP RES.(1608) 1/10W J 12k Ω or	RRXAJB5Z0123
		CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R879		CHIP RES.(1608) 1/10W J 5.6k Ω or	RRXAJB5Z0562
		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R884		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
SWITCHES			
SW201		TACT SWITCH SKQNAED010 or	SST0101AL055

Ref. No.	Mark	Description	Part No.
		TACTILE SWITCH KSHG612BT	SST0101HH027
SW202		TACT SWITCH SKQNAED010 or	SST0101AL055
		TACTILE SWITCH KSHG612BT	SST0101HH027
SW203		TACT SWITCH SKQNAED010 or	SST0101AL055
		TACTILE SWITCH KSHG612BT	SST0101HH027
SW204		TACT SWITCH SKQNAED010 or	SST0101AL055
		TACTILE SWITCH KSHG612BT	SST0101HH027
SW205		TACT SWITCH SKQNAED010 or	SST0101AL055
		TACTILE SWITCH KSHG612BT	SST0101HH027
SW206		TACT SWITCH SKQNAED010 or	SST0101AL055
		TACTILE SWITCH KSHG612BT	SST0101HH027
SW207		TACT SWITCH SKQNAED010 or	SST0101AL055
		TACTILE SWITCH KSHG612BT	SST0101HH027
SW208		TACT SWITCH SKQNAED010 or	SST0101AL055
		TACTILE SWITCH KSHG612BT	SST0101HH027
SW209		TACT SWITCH SKQNAED010 or	SST0101AL055
		TACTILE SWITCH KSHG612BT	SST0101HH027
SW210		TACT SWITCH SKQNAED010 or	SST0101AL055
		TACTILE SWITCH KSHG612BT	SST0101HH027
SW211		LEAF SWITCH LSA-1142-2AU or	SSC0101KB014
		LEAF SWITCH MXS00052MPP0 or	SSC0101MCE01
		LEAF SWITCH MXS00981MPP0	SSC0101MCE02
SW212		ROTARY MODE SWITCH SSS-50MD or	SSR0106KB002
		ROTARY MODE SWITCH R8100245	SSR0106U3002
MISCELLANEOUS			
CL301A	A	LEAD WIRE 4P/300	WX1T6300-102
CL301A	B	LEAD WIRE 4P/450	WX1T6500-104
CL302A	A	LEAD WIRE 7P/190	WX1T6450-103
CL302A	B	LEAD WIRE 7P/280	WX1T6700-102
CL603A		LEAD WIRE 12P/190	WX1T6450-102
CL604		WIRE ASSEMBLY 1P/45	WX1T6400-001
RS201		REMOTE RECEIVER PIC-37042LU	USESJRSKK033
JK151		HEADPHONE JACK MSJ-035-10A B or	JYSL020LY002
		HEADPHONE JACK DP3-26-7-001	JYSL020RPP001
JK701	A	RCA JACK(YELLOW) MSP-281V4-B or	JXRL010LY003
	A	RCA JACK(YELLOW) AV1-15-3	JXRL010RPP013
JK701	B	RCA JACK(YELLOW) MTJ-032-05B-20 or	JXRL010LY038
	B	RCA JACK 1P:YELLOW DA1-05A3N0S001	JXRL010RPP036
JK702	A	RCA JACK(WHITE) MSP-281V1-B or	JXRL010LY005
	A	RCA JACK(WHITE) AV1-15-4	JXRL010RPP014
JK702	B	RCA JACK(WHITE) MTJ-032-05B-22 or	JXRL010LY039
	B	RCA JACK 1P : WHITE DA1-05A4N0S001	JXRL010RPP037
JK703		SKIRT JACK 21P MRC-021-02 or	JXGL210LY001
		SKIRT JACK 21P MRC-021V-02 3.4 ABS or	JXGL210LY005
		SKIRT JACK 21P HRC-21V-02P or	JXGL210RPP001
		SKIRT JACK 21P DSS1020NPC001	JXGL210RPP002
TB3		HEAD SHIELD S T6400RA	0EM301753
TB7		LED HOLDER T6400RA	0EM407754
TB21		BUSH, LED(F) H3700UD	0VM409508
TP001		PCB JUMPER D0.6-P12.5	JW12.5T
TP002		PCB JUMPER D0.6-P12.5	JW12.5T
TP003		PCB JUMPER D0.6-P12.5	JW12.5T
TP007		PCB JUMPER D0.6-P10.0	JW10.0T
TP008		PCB JUMPER D0.6-P12.5	JW12.5T
TP009		PCB JUMPER D0.6-P12.5	JW12.5T
TP010		PCB JUMPER D0.6-P22.5	JW22.5T
TU001		TUNER UNIT TMQ22-303A	UTUNPLGAL013
X201		X'TAL 32.768kHz(20PPM) or	FXC323LCT001
		X'TAL 32.768kHz(20PPM) or	FXC323LDS002
		X'TAL 32.768kHz(20PPM) or	FXC323LJNY01

Ref. No.	Mark	Description	Part No.
		X'TAL 32.768kHz(20PPM)	FXC323LQUA01
X202		X'TAL 12.000MHz	FXD126LDS001
X301		X'TAL 4.433619MHz or	FXB445LCHE01
		X'TAL 4.433619MHz or	FXB445LDS002
		X'TAL 4.433619MHz	FXB445LNL001
X401		X'TAL 4.433619MHz or	1811388
		X'TAL 4.433619MHz	FXC445LLN001

JUNCTION A CBA

Ref. No.	Mark	Description	Part No.
		JUNCTION A CBA Consists of the following	-----
CONNECTOR			
CN603		CONNECTOR 12P TUC-P12X-B1	JCTUS12TG001

JUNCTION B CBA

Ref. No.	Mark	Description	Part No.
		JUNCTION B CBA Consists of the following	-----
CONNECTOR			
CN302		CONNECTOR, 7P TUC-P07X-B1	JCTUS07TG001

JUNCTION C CBA

Ref. No.	Mark	Description	Part No.
		JUNCTION C CBA Consists of the following	-----
CONNECTOR			
CN301		CONNECTOR 4P TUC-P04X-B1	JCTUS04TG001

SENSOR CBA

Ref. No.	Mark	Description	Part No.
		SENSOR CBA Consists of the following	0ESA06133
TRANSISTORS			
Q201		PHOTO TRANSISTOR MID-32A22F or	NPWZ1D32A22F
		PHOTO TRANSISTOR PT204-6B-12	NPWZT2046B12
Q202		PHOTO TRANSISTOR MID-32A22F or	NPWZ1D32A22F
		PHOTO TRANSISTOR PT204-6B-12	NPWZT2046B12

POWER CBA

Ref. No.	Mark	Description	Part No.
	A	POWER CBA	0ESA06011
	B	POWER CBA	0ESA06024
		Consists of the following	-----
		H.V./POWER SUPPLY CBA	-----
		CRT CBA	-----

H.V./POWER SUPPLY CBA

Ref. No.	Mark	Description	Part No.
		H.V./POWER SUPPLY CBA Consists of the following	-----
CAPACITORS			
C551	A	ELECTROLYTIC CAP. 2.2μF/50V LL or	CE1JMASLH2R2
	A	ELECTROLYTIC CAP. 2.2μF/50V M LL	CE1JMASLL2R2
C551	B	ELECTROLYTIC CAP. 1.5μF/50V LL or	CE1JMASLH1R5

Ref. No.	Mark	Description	Part No.
	B	ELECTROLYTIC CAP. 1.5μF/50V M LL	CE1JMASLL1R5
C552		ELECTROLYTIC CAP. 1000μF/25V M or	CE1EMZPDL102
		ELECTROLYTIC CAP. 1000μF/25V M	CE1EMZPTL102
C553		CERAMIC CAP.(AX) B K 0.01μF/50V	CA1J103TU011
C554	A	ELECTROLYTIC CAP. 220μF/25V M or	CE1EMASDL221
	A	ELECTROLYTIC CAP. 220μF/25V M	CE1EMASTL221
C554	B	ELECTROLYTIC CAP. 330μF/25V M or	CE1EMASDL331
	B	ELECTROLYTIC CAP. 330μF/25V M	CE1EMASTL331
C555		ELECTROLYTIC CAP. 47μF/25V M or	CE1EMASDL470
		ELECTROLYTIC CAP. 47μF/25V M	CE1EMASTL470
C556		ELECTROLYTIC CAP. 2.2μF/50V M or	CE1JMASDL2R2
		ELECTROLYTIC CAP. 2.2μF/50V M	CE1JMASTL2R2
C558		FILM CAP.(P) 0.047μF/50V J or	CA1J473MS029
		FILM CAP.(P) 0.047μF/50V J	CMA1JJS00473
C559 [△]	B	CERAMIC CAP. 1000pF/2KV or	CA3D102PAN04
[△]	B	CERAMIC CAP RB 1000pF/2KV or	CA3D102TE006
[△]	B	CERAMIC CAP. BN 1000pF/2KV or	CCD3DKA0B102
[△]	B	CERAMIC CAP. R K 1000pF/2KV	CCD3DKA0R102
C560 [△]	A	P.P. CAP 0.0082μF/1.6K J or	CA3C822VC010
[△]	A	PP CAP. 0.0082μF/1.6K J or	CBH3CJQ00822
[△]	A	METALLIZED FILM CAP. 0.0082μF/1.6KV J or	CT3C822F7004
[△]	A	PP CAP. 0.0082μF/1.6KV J	CT3C822MS039
C560 [△]	B	P.P. CAP 0.01μF/1.6K J or	CA3C103VC010
[△]	B	PP CAP. 0.01μF/1.6KV J or	CBH3CJQ00103
[△]	B	METALLIZED FILM CAP. 0.01μF/1.6KV J or	CT3C103F7004
[△]	B	PP CAP. 0.01μF/1.6KV J	CT3C103MS039
C561		FILM CAP.(P) 0.01μF/50V J or	CA1J103MS029
		FILM CAP.(P) 0.01μF/50V J	CMA1JJS00103
C562		ELECTROLYTIC CAP. 47μF/25V M or	CE1EMASDL470
		ELECTROLYTIC CAP. 47μF/25V M	CE1EMASTL470
C565 [△]	A	ELECTROLYTIC CAP. 47μF/160V M W/F or	CE2CMZPDL470
[△]	A	ELECTROLYTIC CAP. 47μF/160V M	CE2CMZPTL470
C565 [△]	B	ELECTROLYTIC CAP. 100μF/160V M or	CE2CMZPDL101
[△]	B	ELECTROLYTIC CAP. 100μF/160V M	CE2CMZPTL101
C566 [△]	B	PCB JUMPER D0.6-P10.0	JW10.0T
C567		ELECTROLYTIC CAP. 1μF/160V M or	CE2CMASDL1R0
		ELECTROLYTIC CAP. 1μF/160V M	CE2CMASTL010
C569 [△]		ELECTROLYTIC CAP. 4.7μF/250V M	CE2EMASDL4R7
C570 [△]		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL010
[△]		ELECTROLYTIC CAP. 1μF/50V M or	CE1JMASDL1R0
[△]		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASTL1R0
C572 [△]	A	ELECTROLYTIC CAP. 22μF/50V M or	CE1JMASDL220
[△]	A	ELECTROLYTIC CAP. 22μF/50V M	CE1JMASTL220
C572 [△]	B	ELECTROLYTIC CAP. 10μF/50V M or	CE1JMASDL100
[△]	B	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASTL100
C575 [△]	A	P.P. CAP 0.33μF/200V J or	CA2D334VC013
[△]	A	METALLIZED FILM CAP. 0.33μF/200V J or	CT2D334F7003
[△]	A	PP CAP. 0.33μF/250V J	CT2E334MS041
C575 [△]	B	P.P. CAP 0.56μF/200V J or	CA2D564VC013
[△]	B	METALLIZED FILM CAP. 0.56μF/200V J or	CT2D564F7003
[△]	B	PP CAP. 0.56μF/250V J	CT2E564MS041
C602 [△]		SAFETY CAP. 2200pF/250V KX	CA2E222MR050
C604 [△]		FILM CAP.(MP) 0.1μF/250V K or	CT2E104DC011
[△]		LINE ACROSS CAP. 0.1U/275V or	CT2E104DC016
[△]		METALLIZED FILM CAP. 0.1μF/275V K or	CT2E104HJE06
[△]		METALLIZED FILM CAP. 0.1μF/250V	CT2E104MS037
C611	A	ELECTROLYTIC CAP. 100μF/400V M or	CA2H101S6016
	A	ELECTROLYTIC CAP. 100μF/400V M	CE2HMZPTL101
C611	B	ELECTROLYTIC CAP. 150μF/400V (LQ TYPE)	CA2H151NC050

Ref. No.	Mark	Description	Part No.
C613		FILM CAP.(P) 0.039μF/50V J or FILM CAP.(P) 0.039μF/50V J	CA1J393MS029 CMA1JJS00393
C614	A	FILM CAP.(P) 0.0012μF/50V J or FILM CAP.(P) 0.0012μF/50V J	CA1J122MS029 CMA1JJS00122
C614	B	FILM CAP.(P) 0.001μF/50V J or FILM CAP.(P) 0.001μF/50V J	CA1J102MS029 CMA1JJS00102
C615	A	FILM CAP.(P) 0.068μF/50V J or FILM CAP.(P) 0.068μF/50V J	CA1J683MS029 CMA1JJS00683
C615	B	FILM CAP.(P) 0.082μF/50V J or FILM CAP.(P) 0.082μF/50V J	CA1J823MS029 CMA1JJS00823
C616		CERAMIC CAP. 220pF/2KV or CERAMIC CAP. RB 220pF/2KV or CERAMIC CAP. BN J 220pF/2KV or CERAMIC CAP. R K 220pF/2KV(HR)	CA3D221PAN04 CA3D221TE006 CCD3DKA0B221 CCD3DKA0R221
C618		ELECTROLYTIC CAP. 1μF/50V M or ELECTROLYTIC CAP. 1μF/50V M or ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL010 CE1JMASDL1R0 CE1JMASTL1R0
C619		ELECTROLYTIC CAP. 1000μF/16V M or ELECTROLYTIC CAP. 1000μF/16V M	CE1CMZPDL102 CE1CMZPTL102
C621		ELECTROLYTIC CAP. 470μF/16V M or ELECTROLYTIC CAP. 470μF/16V M	CE1CMASDL471 CE1CMASTL471
C622		ELECTROLYTIC CAP. 1000μF/16V M or ELECTROLYTIC CAP. 1000μF/16V M	CE1CMZPDL102 CE1CMZPTL102
C624	A	CERAMIC CAP.(AX) SL J 68pF/50V	CCA1JJS0680
C624	B	CERAMIC CAP.(AX) B J 220pF/50V	CCA1JJS0221
C625		ELECTROLYTIC CAP. 470μF/35V M or ELECTROLYTIC CAP. 470μF/35V M	CE1GMZPDL471 CE1GMZPTL471
C626		CERAMIC CAP. 680pF/2KV or CERAMIC CAP. RB 680pF/2KV or CERAMIC CAP. BN 680pF/2KV or CERAMIC CAP. R K 680pF/2KV(HR)	CA3D681PAN04 CA3D681TE006 CCD3DKA0B681 CCD3DKA0R681
C627		ELECTROLYTIC CAP. 100μF/160V M or ELECTROLYTIC CAP. 100μF/160V M	CE2CMZPDL101 CE2CMZPTL101
C629		CERAMIC CAP.(AX) B K 0.01μF/50V	CA1J103TU011
C630		ELECTROLYTIC CAP. 1000μF/6.3V M or ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASDL102 CE0KMASTL102
C632		ELECTROLYTIC CAP. 100μF/16V M or ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101 CE1CMASTL101
C633		ELECTROLYTIC CAP. 47μF/25V M or ELECTROLYTIC CAP. 47μF/25V M	CE1EMASDL470 CE1EMASTL470
C634		ELECTROLYTIC CAP. 4.7μF/50V M or ELECTROLYTIC CAP. 4.7μF/50V M	CE1JMASDL4R7 CE1JMASTL4R7
C636		ELECTROLYTIC CAP. 100μF/10V M or ELECTROLYTIC CAP. 100μF/10V M	CE1AMASDL101 CE1AMASTL101
CONNECTORS			
CN551		CONNECTOR BASE, 5P RTB-1.5-5P or CONNECTOR BASE, 5P TV-50P-05-V3	J3RTC05JG001 J3TVC05TG002
CN552		CONNECTOR BASE, 7P TUC-P07P-B1	J3TUA07TG001
CN601		CONNECTOR BASE, 2P RTB-1.5-2P or CONNECTOR BASE, 2P TV-50P-02-V3	J3RTC02JG001 J3TVC02TG002
CN602		CONNECTOR BASE 12P TUC-P12P-B1	J3TUA12TG001
DIODES			
D551		DIODE 1N5397-B or RECTIFIER DIODE ERB12-06	NDLZ001N5397 QDQZ0ERB1206
D553	A	ZENER DIODE DZ-20BSBT265 or ZENER DIODE MTZJT-7720B	NDTB00DZ20BS QDTB00MTZJ20
D553	B	ZENER DIODE DZ-18BSCT265 or ZENER DIODE MTZJT-7718C	NDTC00DZ18BS QDTC00MTZJ18
D554		SWITCHING DIODE 1N4148 or SWITCHING DIODE 1SS133(T-77)	NDTZ001N4148 QDTZ001SS133

Ref. No.	Mark	Description	Part No.
D555	A	PCB JUMPER D0.6-P12.5	JW12.5T
D556		SWITCHING DIODE 1N4148 or SWITCHING DIODE 1SS133(T-77)	NDTZ001N4148 QDTZ001SS133
D557		DIODE FR104-B or RECTIFIER DIODE ERA22-02 or RECTIFIER DIODE 10ELS2	NDLZ000FR104 QDPZ0ERA2202 QDQZ0010ELS2
D558		DIODE FR104-B or RECTIFIER DIODE ERA22-02 or RECTIFIER DIODE 10ELS2	NDLZ000FR104 QDPZ0ERA2202 QDQZ0010ELS2
D560		ZENER DIODE DZ-36BSBT265 or ZENER DIODE MTZJT-7736B	NDTB00DZ36BS QDTB00MTZJ36
D562		SWITCHING DIODE 1N4148 or SWITCHING DIODE 1SS133(T-77)	NDTZ001N4148 QDTZ001SS133
D563		ZENER DIODE DZ-5.1BSBT265 or ZENER DIODE MTZJT-775.1B	NDTB0DZ5R1BS QDTB0MTZJ5R1
D565	A	ZENER DIODE DZ-36BSAT265 or ZENER DIODE MTZJT-7736A	NDTA00DZ36BS QDTA00MTZJ36
D601		DIODE 1N5399-B/P	NDLZ001N5399
D602		DIODE 1N5399-B/P	NDLZ001N5399
D603		DIODE 1N5399-B/P	NDLZ001N5399
D604		DIODE 1N5399-B/P	NDLZ001N5399
D605		SWITCHING DIODE 1N4148 or SWITCHING DIODE 1SS133(T-77)	NDTZ001N4148 QDTZ001SS133
D609		ZENER DIODE DZ-5.6BSBT265 or ZENER DIODE MTZJT-775.6B	NDTB0DZ5R6BS QDTB0MTZJ5R6
D610		ZENER DIODE DZ-24BSCT265 or ZENER DIODE MTZJT-7724C	NDTC00DZ24BS QDTC00MTZJ24
D612		SWITCHING DIODE 1N4148 or SWITCHING DIODE 1SS133(T-77)	NDTZ001N4148 QDTZ001SS133
D615		DIODE FR104-B or RECTIFIER DIODE ERA22-02 or RECTIFIER DIODE 10ELS2	NDLZ000FR104 QDPZ0ERA2202 QDQZ0010ELS2
D616	A	ZENER DIODE DZ-22BSBT265 or ZENER DIODE MTZJT-7722B	NDTB00DZ22BS QDTB00MTZJ22
D616	B	ZENER DIODE DZ-20BSBT265 or ZENER DIODE MTZJT-7720B	NDTB00DZ20BS QDTB00MTZJ20
D617		SCHOTTKY BARRIER DIODE 11EQS04 or SCHOTTKY BARRIER DIODE ERA81-004	QD4Z011EQS04 QDPZERA81004
D618		SCHOTTKY BARRIER DIODE 11EQS04 or SCHOTTKY BARRIER DIODE ERA81-004	QD4Z011EQS04 QDPZERA81004
D619		SCHOTTKY BARRIER DIODE ERB81-004 or SCHOTTKY BARRIER DIODE 21DQ04	AERB81004*** QDQZ0021DQ04
D620		DIODE FR104-B or RECTIFIER DIODE ERA22-02 or RECTIFIER DIODE 10ELS2	NDLZ000FR104 QDPZ0ERA2202 QDQZ0010ELS2
D622		SWITCHING DIODE 1N4148 or SWITCHING DIODE 1SS133(T-77)	NDTZ001N4148 QDTZ001SS133
D623		SWITCHING DIODE 1N4148 or SWITCHING DIODE 1SS133(T-77)	NDTZ001N4148 QDTZ001SS133
D624		SWITCHING DIODE 1N4148 or SWITCHING DIODE 1SS133(T-77)	NDTZ001N4148 QDTZ001SS133
D625		ZENER DIODE DZ-6.8BSBT265 or ZENER DIODE MTZJT-776.8B	NDTB0DZ6R8BS QDTB0MTZJ6R8
D626		FAST RECOVERY DIODE CA201-4 or RECOVERY DIODE ERC18-04	QDWZ00CA2014 QDZZ0ERC1804
D627		SWITCHING DIODE 1N4148 or SWITCHING DIODE 1SS133(T-77)	NDTZ001N4148 QDTZ001SS133
D629		ZENER DIODE DZ-33BSCT265 or ZENER DIODE MTZJT-7733C	NDTC00DZ33BS QDTC00MTZJ33

Ref. No.	Mark	Description	Part No.
D630		SWITCHING DIODE 1N4148 or	NDT001N4148
		SWITCHING DIODE 1SS133(T-77)	QDT001SS133
D631		ZENER DIODE DZ-6.2BSCT265 or	NDTC0DZ6R2BS
		ZENER DIODE MTZJT-776.2C	QDTC0MTZJ6R2
D634		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
D635		ZENER DIODE DZ-8.2BSBT265 or	NDTB0DZ8R2BS
		ZENER DIODE MTZJT-778.2B	QDTB0MTZJ8R2
D636		SWITCHING DIODE 1N4148 or	NDT001N4148
		SWITCHING DIODE 1SS133(T-77)	QDT001SS133
D637		SWITCHING DIODE 1N4148 or	NDT001N4148
		SWITCHING DIODE 1SS133(T-77)	QDT001SS133
D638		SWITCHING DIODE 1N4148 or	NDT001N4148
		SWITCHING DIODE 1SS133(T-77)	QDT001SS133
D641		ZENER DIODE DZ-15BSBT265 or	NDTB00DZ15BS
		ZENER DIODE MTZJT-7715B	QDTB00MTZJ15
D642		SWITCHING DIODE 1N4148 or	NDT001N4148
		SWITCHING DIODE 1SS133(T-77)	QDT001SS133
ICS			
IC551		VERTICAL OUTPUT IC LA78040A	QSBBA0SSY003
IC601		PHOTOCOUPLER PS2561L1-1-VL or	QPEL2561L11V
		PHOTOCOUPLER PS2561L1-1-VW	QPEW2561L11V
COILS			
L552	A	PCB JUMPER D0.6-P7.5	JW7.5T
L552	B	LINEALITY COIL ELH5J6137N	LLBD00PMS009
L553		CHOKE COIL 22 μ H-K	LLBD00PKV006
L554		PCB JUMPER D0.6-P7.5	JW7.5T
L601	A	LINE FILTER LF-048 or	LLBG00ZKV008
	A	LINE FILTER ELF15N005A	LLBG00ZMS039
L601	B	LINE FILTER 10MH LF-046 or	LLBG00ZKV006
	B	LINE FILTER ELF15N007A	LLBG00ZMS041
L602	B	LINE FILTER 10MH LF-046 or	LLBG00ZKV006
	B	LINE FILTER ELF15N007A	LLBG00ZMS041
L603		CHOKE COIL 47 μ H-K or	LLBD00PKV005
		CHOKE COIL 47 μ H-K	LLBD00PKV007
TRANSISTORS			
Q551	A	TRANSISTOR TT2084LS-YB11 or	QQZZ00TT2084
	A	TRANSISTOR TT2138LS-YB11 or	QQZZ00TT2138
	A	TRANSISTOR 2SC5884000RF	QQZZ02SC5884
Q551	B	TRANSISTOR TT2140LS-YB11 or	QQZZ00TT2140
	B	TRANSISTOR 2SC5885000RF or	QQZZ02SC5885
	B	TRANSISTOR 2SD2627LS-FEC-YB11	QQZZ02SD2627
Q553		TRANSISTOR 2SC1627Y-TPE2	QQSY02SC1627
Q554		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q602		MOS FET 2SK2647	QFWZ02SK2647
Q603		TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
		TRANSISTOR 2SC2120-O-TPE2 or	QQS002SC2120
		TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q604		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
Q605		TRANSISTOR KTA1271(Y) or	NQSY0KTA1271
		TRANSISTOR 2SA950(O) or	Q2SA9500TPE2

Ref. No.	Mark	Description	Part No.
		TRANSISTOR 2SA950(Y)	Q2SA950YTPE2
Q606		TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
		TRANSISTOR 2SC2120-O-TPE2 or	QQS002SC2120
		TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q607		TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
		TRANSISTOR 2SC2120-O-TPE2 or	QQS002SC2120
		TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q608		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KTC3198(GR) or	NQS40KTC3198
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(J)	QQSJ02SC2785
RESISTORS			
R550		CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R551	A	CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R551	B	CARBON RES. 1/4W J 18k Ω	RCX4JATZ0183
R552	A	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R552	B	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R553	A	CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R553	B	CARBON RES. 1/4W J 39k Ω	RCX4JATZ0393
R554	A	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R554	B	PCB JUMPER D0.6-P5.0	JW5.0T
R555	A	CARBON RES. 1/4W J 8.2 Ω	RCX4JATZ08R2
R555	B	CARBON RES. 1/4W J 4.7 Ω	RCX4JATZ04R7
R556	A	CARBON RES. 1/4W J 8.2 Ω	RCX4JATZ08R2
R556	B	CARBON RES. 1/4W J 4.7 Ω	RCX4JATZ04R7
R557	A	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R558		PCB JUMPER D0.6-P5.0	JW5.0T
R559	A	CARBON RES. 1/4W J 1 Ω	RCX4JATZ01R0
R559	B	PCB JUMPER D0.6-P5.0	JW5.0T
R560		CARBON RES. 1/4W J 1 Ω	RCX4JATZ01R0
R561	A	CARBON RES. 1/4W J 2.2 Ω	RCX4JATZ02R2
R561	B	CARBON RES. 1/4W J 3.3 Ω	RCX4JATZ03R3
R564	A	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R564	B	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R565		PCB JUMPER D0.6-P5.0	JW5.0T
R566	A	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R566	B	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R567	B	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R568		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R569	A	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R569	B	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R572	A	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R572	B	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R574		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R575	B	METAL OXIDE FILM RES. 1W J 1k Ω or	RN01102DP003
	B	METAL OXIDE FILM RES. 1W J 1k Ω	RN01102ZU001
R576	A	CARBON RES. 1/4W J 39 Ω	RCX4JATZ0390
R576	B	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R577	A	METAL OXIDE FILM RES. 2W J 560 Ω or	RN02561DP004
	A	METAL OXIDE FILM RES. 2W J 560 Ω	RN02561ZU001
R578	A	CARBON RES. 1/4W J 39 Ω	RCX4JATZ0390
R578	B	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R579		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R580	A	CARBON RES. 1/4W J 39 Ω	RCX4JATZ0390
R580	B	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R581	A	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R581	B	CARBON RES. 1/4W J 82k Ω	RCX4JATZ0823
R583		PCB JUMPER D0.6-P5.0	JW5.0T

Ref. No.	Mark	Description	Part No.
R584 [△]		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R585 [△]	A	CARBON RES. 1/4W J 180k Ω	RCX4JATZ0184
R585 [△]	B	CARBON RES. 1/4W J 150k Ω	RCX4JATZ0154
R586 [△]	A	CARBON RES. 1/4W J 68k Ω	RCX4JATZ0683
R586 [△]	B	CARBON RES. 1/4W J 56k Ω	RCX4JATZ0563
R587 [△]	A	CARBON RES. 1/4W J 56k Ω	RCX4JATZ0563
R587 [△]	B	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R588 [△]		CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R589 [△]		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R590 [△]	A	METAL OXIDE FILM RES. 2W J 2.2 Ω or	RN022R2DP004
[△]	A	METAL OXIDE FILM RES. 2W J 2.2 Ω	RN022R2ZU001
R590 [△]	B	METAL OXIDE FILM RES. 2W J 1.8 Ω or	RN021R8DP004
[△]	B	METAL OXIDE FILM RES. 2W J 1.8 Ω	RN021R8ZU001
R591 [△]		CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R592 [△]		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R593		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R594	A	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R594	B	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R595		PCB JUMPER D0.6-P5.0	JW5.0T
R596	A	CARBON RES. 1/4W J 8.2 Ω	RCX4JATZ08R2
R596	B	CARBON RES. 1/4W J 4.7 Ω	RCX4JATZ04R7
R597	A	CARBON RES. 1/4W J 220k Ω	RCX4JATZ0224
R598	A	CARBON RES. 1/4W J 56k Ω	RCX4JATZ0563
R601 [△]		CARBON RES. 1/2W J 3.3M Ω or	RCX2335DP001
[△]		CARBON RES. 1/2W K 3.3M Ω or	RCX2335FS001
[△]		ANTI-SURGE RESISTOR 1/2W J 3.3M Ω or	RMX2335KA011
[△]		GLASS GLAZE RES. 1/2W J 3.3M Ω	RXX2JZLZ0335
R604 [△]		CEMENT RESISTOR 5W J 1.8 Ω or	RW051R8PAK10
[△]		CEMENT RES. 5W K 1.8 Ω or	RW051R8DP005
[△]		CEMENT RESISTOR 5W K 1.8 Ω	RW051R8PG001
R605	A	CARBON RES. 1/4W J 56 Ω	RCX4JATZ0560
R605	B	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R611		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R612	A	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R612	B	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R613	A	CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R613	B	CARBON RES. 1/4W J 270k Ω	RCX4JATZ0274
R615	A	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R615	B	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R616 [△]		CARBON RES. 1/4W J 22 Ω	RCX4JATZ0220
R617 [△]	A	CEMENT RESISTOR 5W J 0.68 Ω or	RW05R68PAK10
[△]	A	CEMENT RES. 5W K 0.68 Ω or	RW05R68DP005
[△]	A	CEMENT RESISTOR 5W K 0.68 Ω	RW05R68PG001
R617 [△]	B	CEMENT RESISTOR 5W J 0.56 Ω or	RW05R56PAK10
[△]	B	CEMENT RES. 5W K 0.56 Ω or	RW05R56DP005
[△]	B	CEMENT RES. 5W K 0.56 Ω	RW05R56PG001
R618		PCB JUMPER D0.6-P5.0	JW5.0T
R619		CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R620		CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R621		CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R622		CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R624		CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R626 [△]		CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R627		PCB JUMPER D0.6-P5.0	JW5.0T
R628 [△]		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R629 [△]	B	CARBON RES. 1/2W J 1k Ω or	RCX2102KA013
[△]	B	CARBON RES. 1/2W J 1k Ω	RCX2JZQZ0102
R631 [△]		CARBON RES. 1/4W J 33k Ω	RCX4JATZ0333
R632 [△]		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R633 [△]		CARBON RES. 1/4W J 15k Ω	RCX4JATZ0153

Ref. No.	Mark	Description	Part No.
R634 [△]		CARBON RES. 1/4W J 15k Ω	RCX4JATZ0153
R635 [△]		CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R636 [△]		CARBON RES. 1/4W G 1k Ω or	RCX4GATZ0102
[△]		CARBON RES. 1/6W G 1k Ω	RCX6GATZ0102
R637 [△]		CARBON RES. 1/4W G 5.6k Ω or	RCX4GATZ0562
[△]		CARBON RES. 1/6W G 5.6k Ω	RCX6GATZ0562
R638 [△]	A	CARBON RES. 1/4W G 39k Ω or	RCX4GATZ0393
[△]	A	CARBON RES. 1/6W G 39k Ω	RCX6GATZ0393
R638 [△]	B	CARBON RES. 1/4W G 47k Ω or	RCX4GATZ0473
[△]	B	CARBON RES. 1/6W G 47k Ω	RCX6GATZ0473
R639 [△]		CARBON RES. 1/4W G 39k Ω or	RCX4GATZ0393
[△]		CARBON RES. 1/6W G 39k Ω	RCX6GATZ0393
R640 [△]	A	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R640 [△]	B	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R641 [△]		METAL OXIDE FILM RES. 1W J 1k Ω or	RN01102DP003
[△]		METAL OXIDE FILM RES. 1W J 1k Ω	RN01102ZU001
R642 [△]		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R643 [△]	A	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R643 [△]	B	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R644 [△]	A	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R644 [△]	B	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R645 [△]		CARBON RES. 1/4W J 56k Ω	RCX4JATZ0563
R646 [△]		CARBON RES. 1/4W J 15 Ω	RCX4JATZ0150
R647 [△]	A	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R647 [△]	B	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R649 [△]		CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R651		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R652 [△]		PCB JUMPER D0.6-P15.0	JW15.0T
R653 [△]		CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R654 [△]		CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R655		CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R656		CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R657 [△]		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R658 [△]	A	METAL OXIDE FILM RES. 2W J 10k Ω or	RN02103DP004
[△]	A	METAL OXIDE FILM RES. 2W J 10k Ω	RN02103ZU001
R658 [△]	B	METAL OXIDE FILM RES. 2W J 8.2k Ω or	RN02822DP004
[△]	B	METAL OXIDE FILM RES. 2W J 8.2k Ω	RN02822ZU001
R659 [△]	A	METAL OXIDE FILM RES. 2W J 10k Ω or	RN02103DP004
[△]	A	METAL OXIDE FILM RES. 2W J 10k Ω	RN02103ZU001
R659 [△]	B	METAL OXIDE FILM RES. 2W J 8.2k Ω or	RN02822DP004
[△]	B	METAL OXIDE FILM RES. 2W J 8.2k Ω	RN02822ZU001
R660		PCB JUMPER D0.6-P5.0	JW5.0T
R661		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R662		CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R663		CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
SWITCHES			
SW601 [△]	A	POWER SWITCH AAPY2211 or	SPP0AAZMS003
[△]	A	POWER SWITCH SDKVA30100	SPP0AAZZAL001
SW602 [△]	B	POWER SWITCH AAPY2211 or	SPP0AAZMS003
[△]	B	POWER SWITCH SDKVA30100	SPP0AAZZAL001
MISCELLANEOUS			
BC551		BEAD INDUCTORS FBA04HA600VB-00	LLBF00STU026
BC602		BEAD INDUCTORS FBR07HA121TB-00	LLBF00ZTU021
BC604		PCB JUMPER D0.6-P5.0	JW5.0T
BC605		PCB JUMPER D0.6-P5.0	JW5.0T
F601 [△]		FUSE 4A/250V 215004	PAGF20BAG402
FH601		FUSE HOLDER FH-V-03078 or	XH01Z00DK001
		FUSE HOLDER MSF-015	XH01Z00LY001
FH602		FUSE HOLDER FH-V-03078 or	XH01Z00DK001
		FUSE HOLDER MSF-015	XH01Z00LY001

Ref. No.	Mark	Description	Part No.
PB1	A	POWER PCB HOLDER T6400RA	0EM000696A
PB1	B	POWER PCB HOLDER T6500RA	0EM000722
PB4	A	13V POW HEAT SINK PAL PHKT6400RA	0EM407687
PB4	B	21V POW HEAT SINK PAL PHLT6500RA	0EM407688
PB5		13V P H/S PAL PHM ASSEMBLY T6400RA	0EM407691
PL1		SCREW, P-TIGHT 3X12 WASHER HEAD+	GCMP3120
PL2		SCREW, B-TIGHT M3X8 BIND HEAD+	GBMB3080
PS602 [△]		THERMISTOR ZPB31BL9R0A	QNWZ31BL9R0A
SA601 [△]		SURGE ABSORBER 470V+-10PER	NVQZ10D471KB
T551 [△]	A	FLYBACK TRANS BSC23-2603S or	LTF00CPS2054
[△]	A	FLYBACK TRANSFORMER JF0501-3101B	LTF00CPXB039
T551 [△]	B	FLYBACK TRANS BSC23-2639S or	LTF00CPS2058
[△]	B	FLYBACK TRANSFORMER JF0501-19198A or	LTF00CPXB043
[△]	B	FLYBACK TRANSFORMER JF0501-3240	LTF00CPXB045
T552	A	HORIZONTAL DRIVE TRANS LP2-005	LTH00CPA5005
T552	B	HORIZONTAL DRIVE TRANS LP2-004	LTH00CPA5004
T601 [△]	A	SWITCHING TRANS 04705	LTT00EPKT119
T601 [△]	B	SWITCHING TRANS 04704	LTT00EPKT118
TP501		PCB JUMPER D0.6-P7.5	JW7.5T
TP502		PCB JUMPER D0.6-P7.5	JW7.5T
TP503		PCB JUMPER D0.6-P15.0	JW15.0T
TP504		PCB JUMPER D0.6-P15.0	JW15.0T
VR601 [△]		CARBON P.O.T. 20k Ω B or	VRCB203HH014
[△]		CARBON P.O.T. 20k Ω B	VRCB203KA011
W601 [△]		AC CORD PE8G2CG9G0A-055	WAE0162LW001

CRT CBA

Ref. No.	Mark	Description	Part No.
		CRT CBA Consists of the following	-----
CAPACITORS			
C501	A	CERAMIC CAP.(AX) B K 220pF/50V	CCA1JKT0B221
C501	B	CERAMIC CAP.(AX) B K 390pF/50V	CCA1JKT0B391
C502	A	CERAMIC CAP.(AX) B K 220pF/50V	CCA1JKT0B221
C502	B	CERAMIC CAP.(AX) B K 390pF/50V	CCA1JKT0B391
C503	A	CERAMIC CAP.(AX) B K 220pF/50V	CCA1JKT0B221
C503	B	CERAMIC CAP.(AX) B K 390pF/50V	CCA1JKT0B391
C504		CERAMIC CAP. B K 1000pF/2KV or	CA3D102MR030
		CERAMIC CAP. B K 1000pF/2KV or	CCD3DKD0B102
		CERAMIC CAP. B K 1000pF/2KV	CCD3DKP0B102
C505		ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
CONNECTORS			
CN501		CONNECTOR PIN, 1P LV or	1700576
		CONNECTOR PIN, 1P RT-01N-2.3A or	1730688
		PIN CONNECTOR 005P-5100	JTEA001TG001
CN502		CONNECTOR BASE, 4P TUC-P04P-B1	J3TUA04TG001
COIL			
L501		PCB JUMPER D0.6-P5.0	JW5.0T
TRANSISTORS			
Q501	A	TRANSISTOR KTC3207 or	NQSZ0KTC3207
	A	TRANSISTOR 2SC3468(D)-AE or	QQSD02SC3468
	A	TRANSISTOR 2SC3468(E)-AE or	QQSE02SC3468
	A	TRANSISTOR 2SC2482 TPE6	QQSZ02SC2482
Q501	B	TRANSISTOR KTC3503Y or	NQWY0KTC3503
	B	TRANSISTOR 2SC3619	QQ9Z02SC3619
Q502	A	TRANSISTOR KTC3207 or	NQSZ0KTC3207
	A	TRANSISTOR 2SC3468(D)-AE or	QQSD02SC3468
	A	TRANSISTOR 2SC3468(E)-AE or	QQSE02SC3468

Ref. No.	Mark	Description	Part No.
	A	TRANSISTOR 2SC2482 TPE6	QQSZ02SC2482
Q502	B	TRANSISTOR KTC3503Y or	NQWY0KTC3503
	B	TRANSISTOR 2SC3619	QQ9Z02SC3619
Q503	A	TRANSISTOR KTC3207 or	NQSZ0KTC3207
	A	TRANSISTOR 2SC3468(D)-AE or	QQSD02SC3468
	A	TRANSISTOR 2SC3468(E)-AE or	QQSE02SC3468
	A	TRANSISTOR 2SC2482 TPE6	QQSZ02SC2482
Q503	B	TRANSISTOR KTC3503Y or	NQWY0KTC3503
	B	TRANSISTOR 2SC3619	QQ9Z02SC3619
RESISTORS			
R501 [△]		METAL OXIDE FILM RES. 1W J 18k Ω or	RN01183DP003
[△]		METAL OXIDE FILM RES. 1W J 18k Ω	RN01183ZU001
R502 [△]		METAL OXIDE FILM RES. 1W J 18k Ω or	RN01183DP003
[△]		METAL OXIDE FILM RES. 1W J 18k Ω	RN01183ZU001
R503 [△]		METAL OXIDE FILM RES. 1W J 18k Ω or	RN01183DP003
[△]		METAL OXIDE FILM RES. 1W J 18k Ω	RN01183ZU001
R504		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R505	A	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R506		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R507	A	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R508	B	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R509	B	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R510		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R511		PCB JUMPER D0.6-P5.0	JW5.0T
R512		PCB JUMPER D0.6-P5.0	JW5.0T
R513		PCB JUMPER D0.6-P5.0	JW5.0T
R514		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R515		CARBON RES. 1/4W J 120k Ω	RCX4JATZ0124
R516		CARBON RES. 1/4W J 15 Ω	RCX4JATZ0150
R517	A	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R517	B	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R518		CARBON RES. 1/4W J 120k Ω	RCX4JATZ0124
R519		CARBON RES. 1/4W J 15 Ω	RCX4JATZ0150
R520	A	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R520	B	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R521		CARBON RES. 1/4W J 120k Ω	RCX4JATZ0124
R522		CARBON RES. 1/4W J 15 Ω	RCX4JATZ0150
R523	A	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R523	B	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
MISCELLANEOUS			
CL501A	A	LEAD WIRE 3P/230	WX1T6400-101
CL501A	B	LEAD WIRE 3P/260	WX1T6500-103
JK501 [△]	A	CRT SOCKET ISMS01S	JSCC220PK007
JK501 [△]	B	CRT SOCKET ISHS40S	JSCC290PK004

DECK MECHANISM SECTION

14"/21" COLOR TV/VCR COMBINATION

T6605VF/T6705VF

Sec. 2: Deck Mechanism Section
● Standard Maintenance
● Mechanism Alignment Procedures
● Disassembly / Assembly of Mechanism
● Deck Exploded Views
● Deck Parts List

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STANDARD MAINTENANCE

Service Schedule of Components

This maintenance chart shows you the standard of replacement and cleaning time for each part.
Because those may change depending on environment and purpose for use, use the chart for reference.

H: Hours ○: Cleaning ●: Change

Deck		Periodic Service Schedule			
Ref.No.	Part Name	1,000 H	2,000 H	3,000 H	4,000 H
B2	Cylinder Assembly	○	●	○	●
B3	Loading Motor Assembly			●	
B8	Pulley Assembly		●		●
B587	Tension Lever Assembly		●		●
B31	ACE Head Assembly			●	
B573, B574	Reel (SP)(D2), Reel (TU)(D2)			●	
B37	Capstan Motor		●		●
B52	Cap Belt		●		●
B73	FE Head			●	
B133, B134	Idler Gear, Idler Arm		●		●
B410	Pinch Arm(A) Assembly		●		●
B414	M Brake (SP) Assembly		●		●
B416	M Brake (TU) Assembly		●		●
B525	LDG Belt		●		●
B569 (2 head only)	Cam Holder		●		●
B593 (4 head, 4 head HiFi only)	Cam Holder Assembly		●		●

Notes:

- 1.Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / ACE Head / FE Head) using 90% Isopropyl Alcohol.
- 2.After cleaning the parts, do all DECK ADJUSTMENTS.
- 3.For the reference numbers listed above, refer to Deck Exploded Views.

Cleaning

Cleaning of Video Head

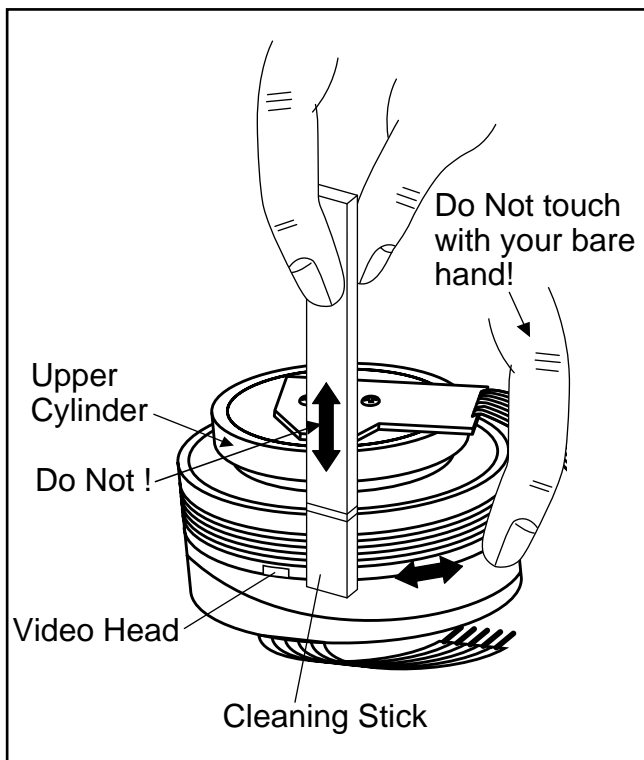
Clean the head with a head cleaning stick or chamois cloth.

Procedure

1. Remove the top cabinet.
2. Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
3. Put a few drops of 90% Isopropyl alcohol on the head cleaning stick or on the chamois cloth and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

Notes:

1. The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
2. Wait for the cleaned part to dry thoroughly before operating the unit.
3. Do not reuse a stained head cleaning stick or a stained chamois cloth.



Cleaning of ACE Head

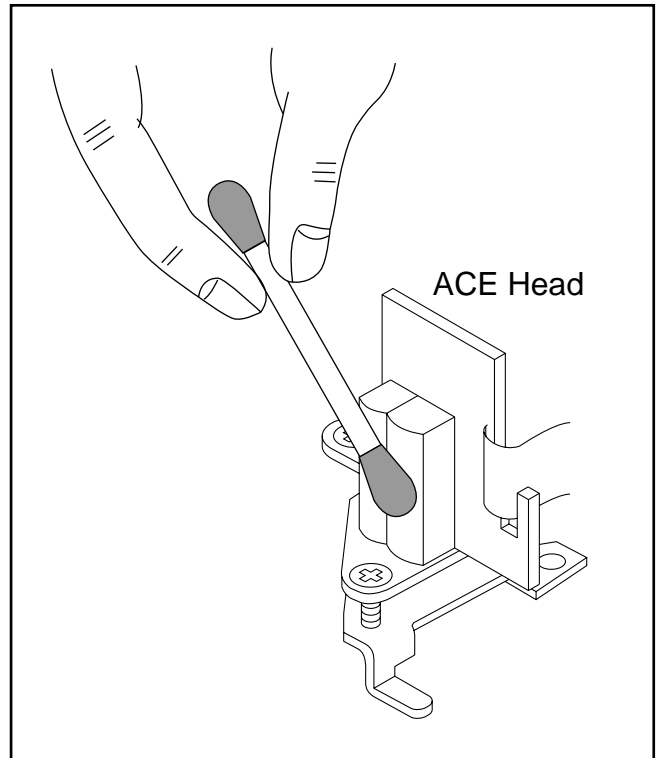
Clean the head with a cotton swab.

Procedure

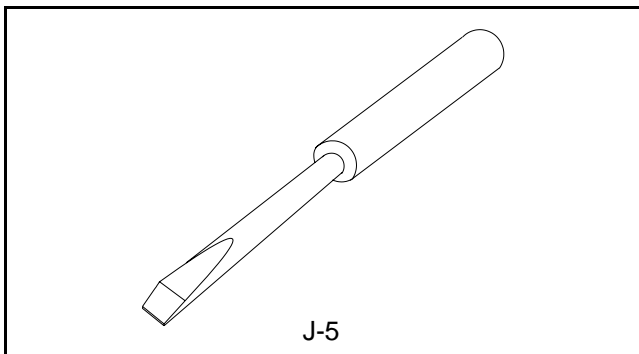
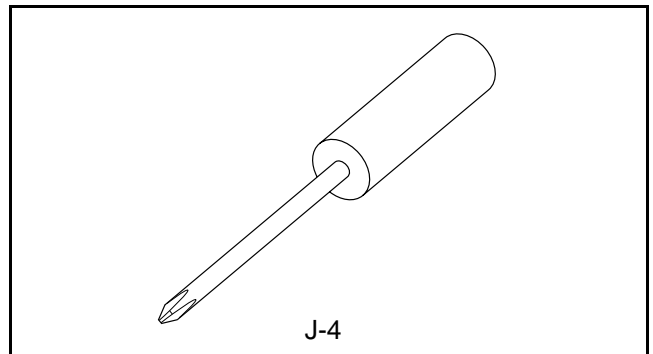
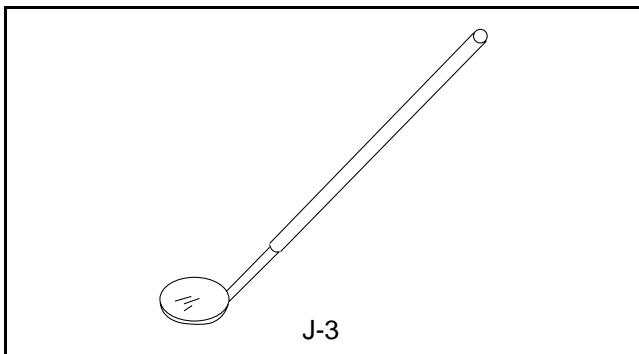
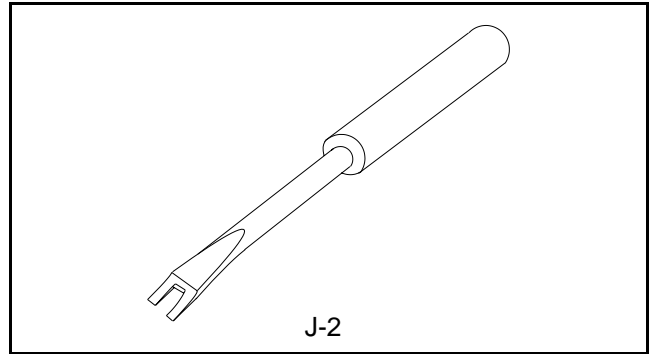
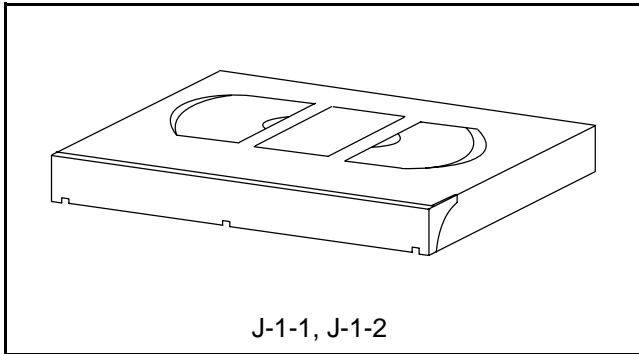
1. Remove the top cabinet.
2. Dip the cotton swab in 90% isopropyl alcohol and clean the ACE Head. Be careful not to damage the upper drum and other tape running parts.

Notes:

1. Avoid cleaning the ACE Head vertically.
2. Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.



SERVICE FIXTURE AND TOOLS



Ref. No.	Name	Part No.	Adjustment
J-1-1	Alignment Tape	FL6A	Head Adjustment of ACE Head
J-1-2	Alignment Tape	FL6N8 (2 Head model) FL6NS8 (4 Head model)	Azimuth and X Value Adjustment of ACE Head / Adjustment of Envelope Waveform
J-2	Guide Roller Adj. Screwdriver	Available Locally	Guide Roller
J-3	Mirror	Available Locally	Tape Transportation Check
J-4	Azimuth Adj. Screwdriver +	Available Locally	ACE Head Height
J-5	Flat Screwdriver -	Available Locally	X Value

MECHANICAL ALIGNMENT PROCEDURES

Explanation of alignment for the tape to correctly run starts on the next page. Refer to the information below on this page if a tape gets stuck, for example, in the mechanism due to some electrical trouble of the unit.

Service Information

A. Method for Manual Tape Loading/Unloading

To load a cassette tape manually:

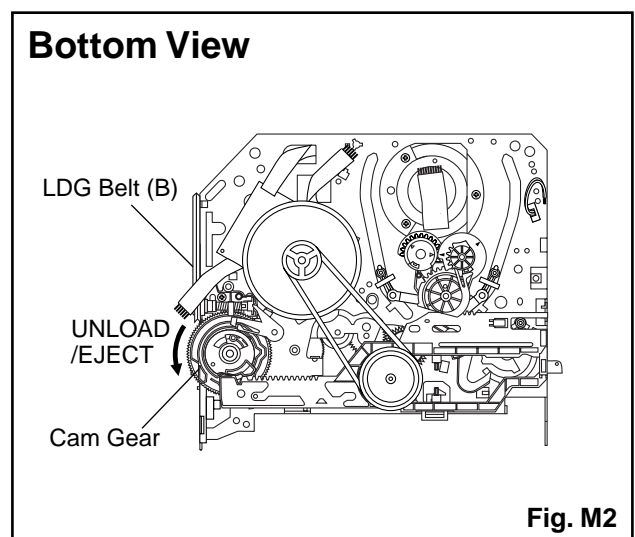
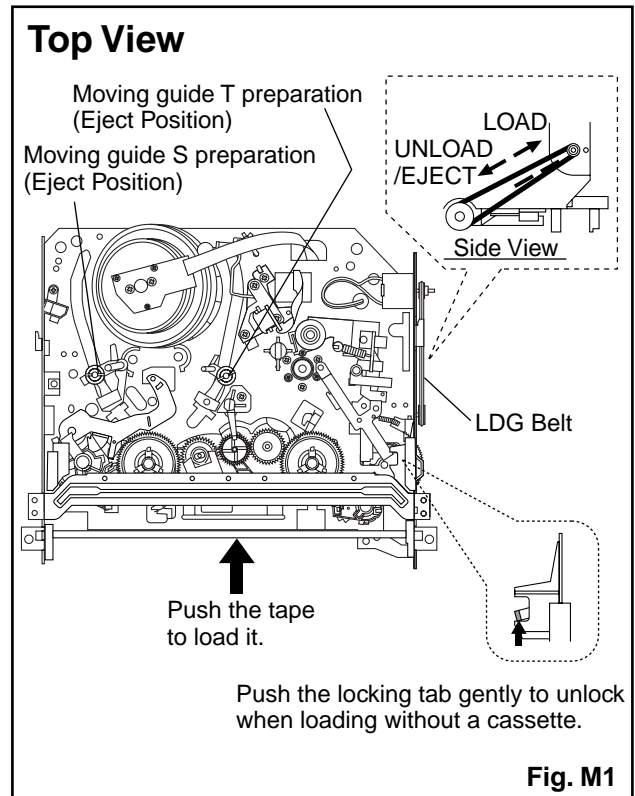
1. Disconnect the AC plug.
2. Remove the Top Case and Front Assembly.
3. Insert a cassette tape. Though the tape will not be automatically loaded, make sure that the cassette tape is all the way in at the inlet of the Cassette Holder. To confirm this, lightly push the cassette tape further in and see if the tape comes back out, by a spring motion, just as much as you have pushed in.
4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 for a minute or two to complete this task.

To unload a cassette tape manually:

1. Disconnect the AC plug.
2. Remove the Top Case and Front Assembly.
3. Make sure that the Moving guide preparations are in the Eject Position.
4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 until the Moving guide preparations come to the Eject Position. Stop turning when the preparations begin clicking or can not be moved further. However, the tape will be left wound around the cylinder.
5. Turn the LDG Belt in the appropriate direction continuously, and the cassette tape will be ejected. Allow a minute or two to complete this task.

B. Method to place the Cassette Holder in the tape-loaded position without a cassette tape

1. Disconnect the AC Plug.
2. Remove the Top Case and Front Assembly.
3. Turn the LDG Belt in the appropriate direction shown in Fig. M1. Release the locking tabs shown in Fig. M1 and continue turning the LDG Belt until the Cassette Holder comes to the tape-loaded position. Allow a minute or two to complete this task.



1. Tape Interchangeability Alignment

Note:

To do these alignment procedures, make sure that the Tracking Control Circuit is set to the preset position every time a tape is loaded or unloaded. (Refer to page 2-3-4, procedure 1-C, step 2.)

Equipment required:

Dual Trace Oscilloscope

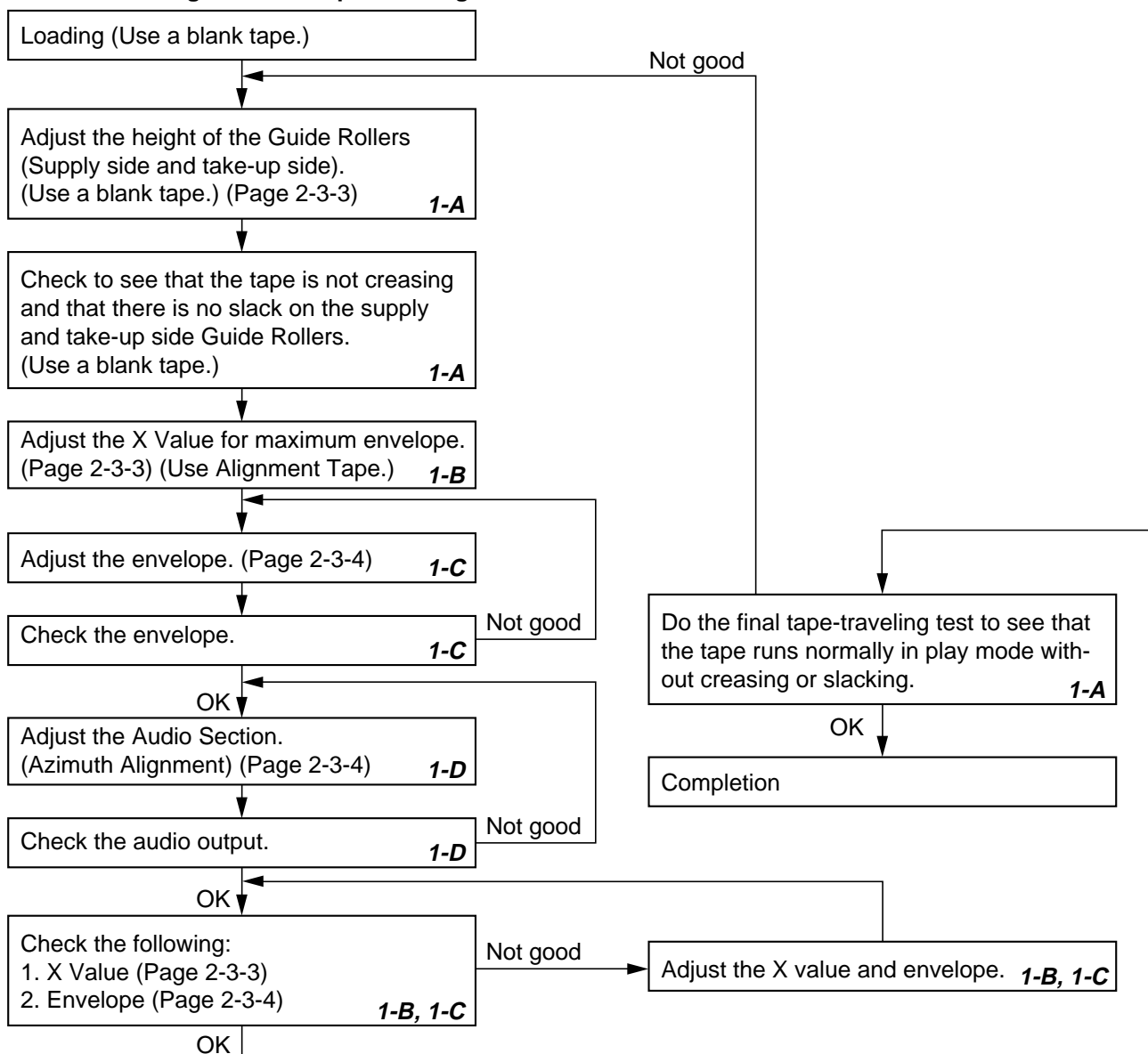
VHS Alignment Tape (FL6N8)

Guide Roller Adj. Screwdriver

Flat Screwdriver (Purchase Locally)

Note: Before starting this Mechanical Alignment, do all Electrical Adjustment procedures.

Flowchart of Alignment for tape traveling



1-A. Preliminary/Final Checking and Alignment of Tape Path

Purpose:

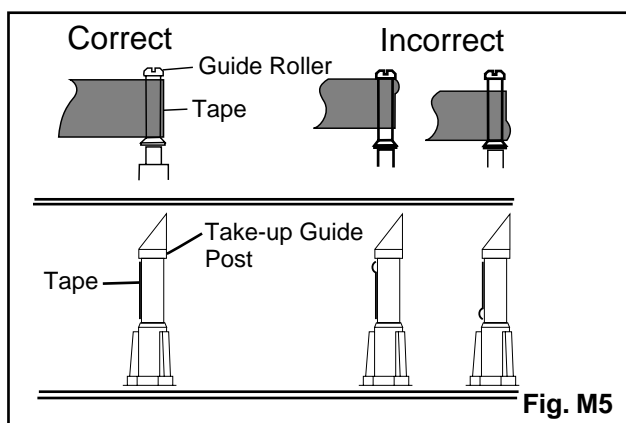
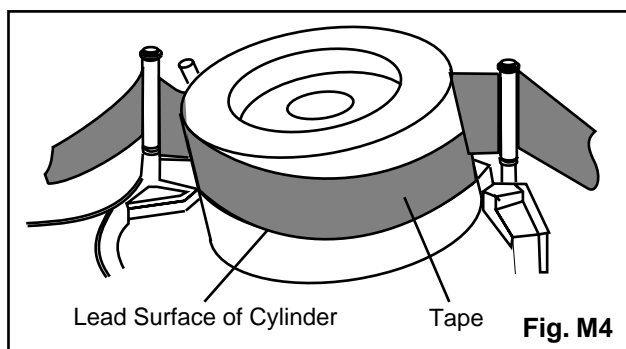
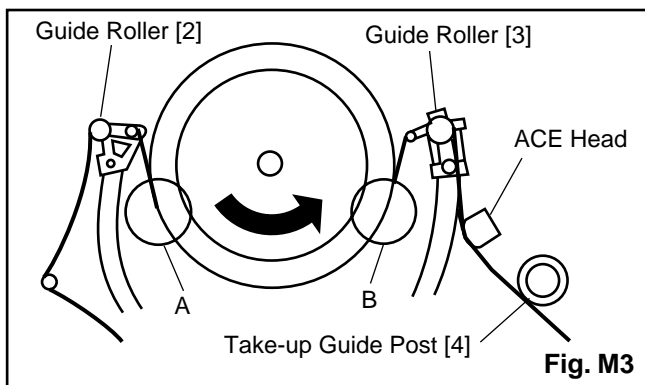
To make sure that the tape path is well stabilized.

Symptom of Misalignment:

If the tape path is unstable, the tape will be damaged.

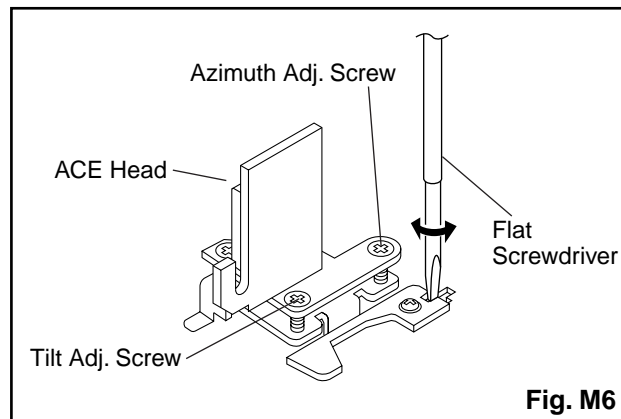
Note: Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

1. Playback a blank cassette tape and check to see that the tape runs without creasing at Guide Rollers [2] and [3], and at points A and B on the lead surface. (Refer to Fig. M3 and M4.)
2. If creasing is apparent, align the height of the guide rollers by turning the top of Guide Rollers [2] and [3] with a Guide Roller Adj. Screwdriver. (Refer to Fig. M3 and M5.)



3. Check to see that the tape runs without creasing at Take-up Guide Post [4] or without snaking between Guide Roller [3] and ACE Head. (Fig. M3 and M5)

4. If creasing or snaking is apparent, adjust the Tilt Adj. Screw of the ACE Head. (Fig. M6)



1-B. X Value Alignment

Purpose:

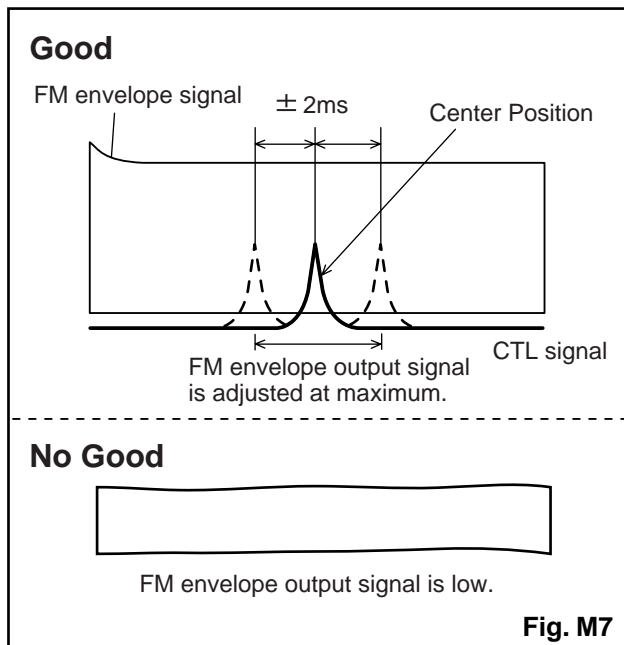
To obtain maximum PB FM envelope signal at the preset position of the Tracking Control Circuit, align the Horizontal Position of the ACE Head.

Symptom of Misalignment:

If the Horizontal Position of the ACE Head is not properly aligned, maximum PB FM envelope cannot be obtained at the preset position of the Tracking Control Circuit.

1. Connect the oscilloscope to TP008 (C-PB) and TP001 (CTL) on the Main CBA. Use TP002 (RF-SW) as a trigger.
2. Playback the Gray Scale of the Alignment Tape (FL6N8) and confirm that the PB FM signal is present.
3. Set the Tracking Control Circuit to the preset position by pressing CH UP button on the remote control unit then "PLAY" button on the unit. (Refer to note on bottom of page 2-3-4.)
4. Use the Flat Screwdriver so that the PB FM signal at TP008 (C-PB) is maximum. (Fig. M6)

5. To shift the CTL waveform, press CH UP or CH DOWN button on the remote control unit. Then make sure that the maximum output position of PB FM envelope signal become within $\pm 2\text{ms}$ from pre-set position.



6. Set the Tracking Control Circuit to the preset position by pressing CH UP button on the remote control unit. and then "PLAY" button.

1-C. Checking/Adjustment of Envelope Waveform

Purpose:

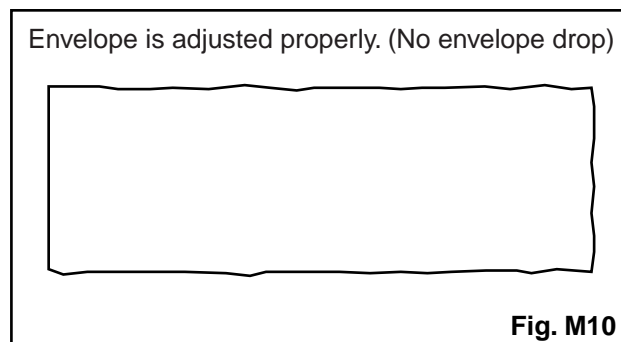
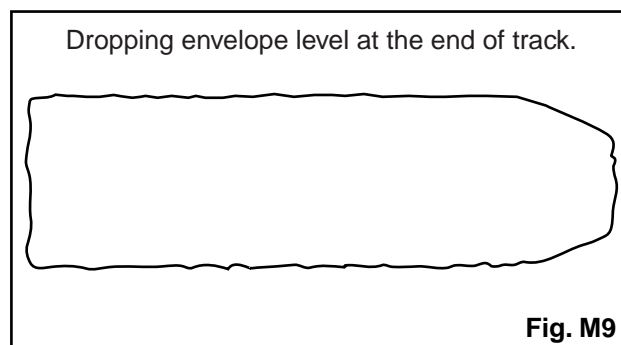
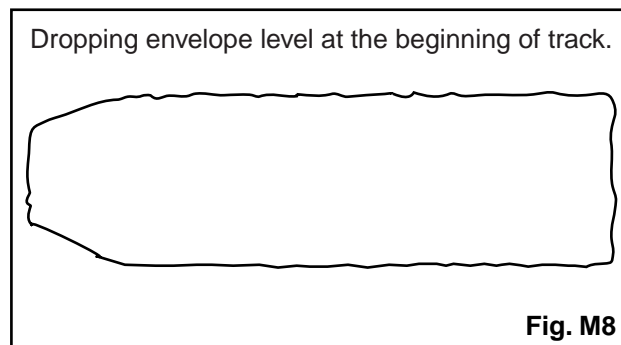
To achieve a satisfactory picture, adjust the PB FM envelope becomes as flat as possible.

Symptom of Misalignment:

If the envelope output is poor, noise will appear in the picture. The tracking will then lose precision and the playback picture will be distorted by any slight variation of the Tracking Control Circuit.

1. Connect the oscilloscope to TP008 (C-PB) on the Main CBA. Use TP002 (RF-SW) as a trigger.
2. Playback the Gray Scale on the Alignment Tape (FL6N8). Set the Tracking Control Circuit to the preset position by pressing CH UP button and then "PLAY" button on the unit. Adjust the height of Guide Rollers [2] and [3] (Fig. M3, Page 2-3-3) watching the oscilloscope display so that the envelope becomes as flat as possible. To do this adjustment, turn the top of the Guide Roller with the Guide Roller Adj. Screwdriver.
3. If the envelope is as shown in Fig. M7, adjust the height of Guide Roller [2] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
4. If the envelope is as shown in Fig. M8, adjust the height of Guide Roller [3] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.

5. When Guide Rollers [2] and [3] (Refer to Fig. M3) are aligned properly, there is no envelope drop either at the beginning or end of track as shown in Fig. M9.



Note: Upon completion of the adjustment of Guide Rollers [2] and [3] (Refer to Fig. M3), check the X Value by pushing the CH UP or DOWN buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure preset position. The number of pushes CH UP button to achieve 1/2 level of envelope should match the number of pushes CH DOWN button from center. If required, redo the "X Value Alignment."

1-D. Azimuth Alignment of Audio/Control/ Erase Head

Purpose:

To correct the Azimuth alignment so that the Audio/Control/Erase Head meets tape tracks properly.

Symptom of Misalignment:

If the position of the Audio/Control/Erase Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

1. Connect the oscilloscope to the audio output jack on the rear side of the deck.
2. Playback the alignment tape (FL6N8) and confirm that the audio signal output level is 8kHz.
3. Adjust Azimuth Adj. Screw so that the output level on the AC Voltmeter or the waveform on the oscilloscope is at maximum. (Fig. M6)

Note: Upon completion of the adjustment of Azimuth Adj. Screw, check the X Value by pushing the CH UP or DOWN buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure preset position. The number of pushes CH UP button to achieve 1/2 level of envelope should match the number of pushes CH DOWN button from center. If required, redo the "X Value Alignment."

DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

Before following the procedures described below, be sure to remove the deck assembly from the cabinet. (Refer to CABINET DISASSEMBLY INSTRUCTIONS on page 1-5-1 of Main Section.)

All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [41] and [42] in Fig. DM1 on page 2-4-3. When reassembling, follow the steps in reverse order.

STEP /LOC. No.	START- ING No.	PART		REMOVAL		INSTALLATION
				Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Guide Holder A	T	DM3	2(S-1)	
[2]	[1]	Cassette Holder Assembly	T	DM4	(S-10)	
[3]	[2]	Slider (SP)	T	DM5	(S-1A), *(L-1)	
[4]	[2]	Slider (TU)	T	DM5	*(L-2)	
[5]	[4]	Lock Lever	T	DM5	*(L-3), *(P-1)	
[6]	[2]	Cassette Plate	T	DM5		
[7]	[7]	Cylinder Assembly	T	DM1, DM6	Desolder, 3(S-2)	
[8]	[8]	Loading Motor Assembly	T	DM1, DM7	Desolder, LDG Belt, 2(S-3)	
[9]	[9]	ACE Head Assembly	T	DM1, DM7	(S-4)	
[10]	[2]	Tape Guide Arm Assembly	T	DM1, DM8-1	*(P-2)	
[11]	[10]	C Door Opener	T	DM1, DM8-1	(S-4A), *(L-4)	
[12]	[11]	Pinch Arm (B)	T	DM1, DM8-1, DM8-2	*(P-3)	
[13]	[12]	Pinch Arm (A) Assembly	T	DM1, DM8-1, DM8-2		
[14]	[14]	FE Head	T	DM1, DM9	(S-5)	
[15]	[15]	Prism	T	DM1, DM9	(S-6)	
[16]	[2],[15]	Sensor Gear	T	DM1, DM9		
[17]	[2]	Slider Shaft	T	DM10	*(L-5)	
[18]	[17]	C Drive Lever (SP)	T	DM10		
[19]	[17]	C Drive Lever (TU)	T	DM10	(S-7), *(P-4)	
[20]	[7],[8],[10]	Capstan Motor	B	DM2, DM11	3(S-8), Cap Belt	
[21]	[21]	Clutch Assembly	B	DM2, DM12	(C-1)	
[22]	[22]	Cam Holder Assembly	B	DM2, DM12	*(L-6)	
[23]	[23]	Cam Gear (B)	B	DM2, DM12	(C-2), *(P-5)	
[24]	[24]	Mode Gear	B	DM2, DM13-1	(C-3)	
[25]	[21],[23],[24]	Mode Lever	B	DM2, DM13-1, DM13-2	(C-4), *(L-8)	
[26]	[22]	Worm Holder	B	DM2, DM13-1	(S-9), *(L-9), *(L-10)	
[27]	[26]	Pulley Assembly	B	DM2, DM13-1		
[28]	[25],[26]	Cam Gear (A)	B	DM2, DM13-1, DM13-2		
[29]	[25]	Idler Gear	B	DM1, DM14		
[30]	[29]	Idler Arm	B	DM1, DM14	*(L-11)	
[31]	[25]	BT Arm	B	DM2, DM14	*(P-6)	

STEP /LOC. No.	START-ING No.	PART		REMOVAL		INSTALLATION
				Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[32]	[25]	Loading Arm (SP) Assembly	B	DM2, DM14		(+)Refer to Alignment Sec.Page 2-5-1
[33]	[32]	Loading Arm (TU) Assembly	B	DM2, DM14		(+)Refer to Alignment Sec.Page 2-5-1
[34]	[2],[25]	M Brake (TU) Assembly	T	DM1, DM15	*(P-7), Brake Belt	
[35]	[2],[25]	M Brake (SP) Assembly	T	DM1, DM15	*(P-8)	
[36]	[35]	Tension Lever Assembly	T	DM1, DM15		
[37]	[36]	T Lever Holder	T	DM15	*(L-12)	
[38]	[34]	Reel (TU)(D2)	T	DM1, DM15		
[39]	[38]	M Gear	T	DM1, DM15		
[40]	[36]	Reel (SP)(D2)	T	DM1, DM15		
[41]	[32],[36]	Moving Guide S Preparation	T	DM1, DM16		
[42]	[33]	Moving Guide T Preparation	T	DM1, DM16		
[43]	[19]	TG Post Assembly	T	DM1, DM16	*(L-13)	
[44]	[28]	Rack Assembly	R	DM17	*(P-9)	(+)Refer to Alignment Sec.Page 2-5-1
[45]	[44]	F Door Opener	R	DM17		
[46]	[46]	Cleaner Assembly	T	DM1, DM6		
[47]	[46]	CL Post	T	DM6	*(L-14)	
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)	↓ (6)	↓ (7)

(1): Follow steps in sequence. When reassembling, follow the steps in reverse order.

These numbers are also used as identification (location) No. of parts in the figures.

(2): Indicates the part to start disassembling with in order to disassemble the part in column (1).

(3): Name of the part

(4): Location of the part: T=Top B=Bottom R=Right L=Left

(5): Figure Number

(6): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

P=Spring, W=Washer, C=Cut Washer, S=Screw, *=Unhook, Unlock, Release, Unplug, or Desolder

e.g., 2(L-2) = two Locking Tabs (L-2).

(7): Adjustment Information for Installation

(+):Refer to Deck Exploded Views for lubrication.

Top View

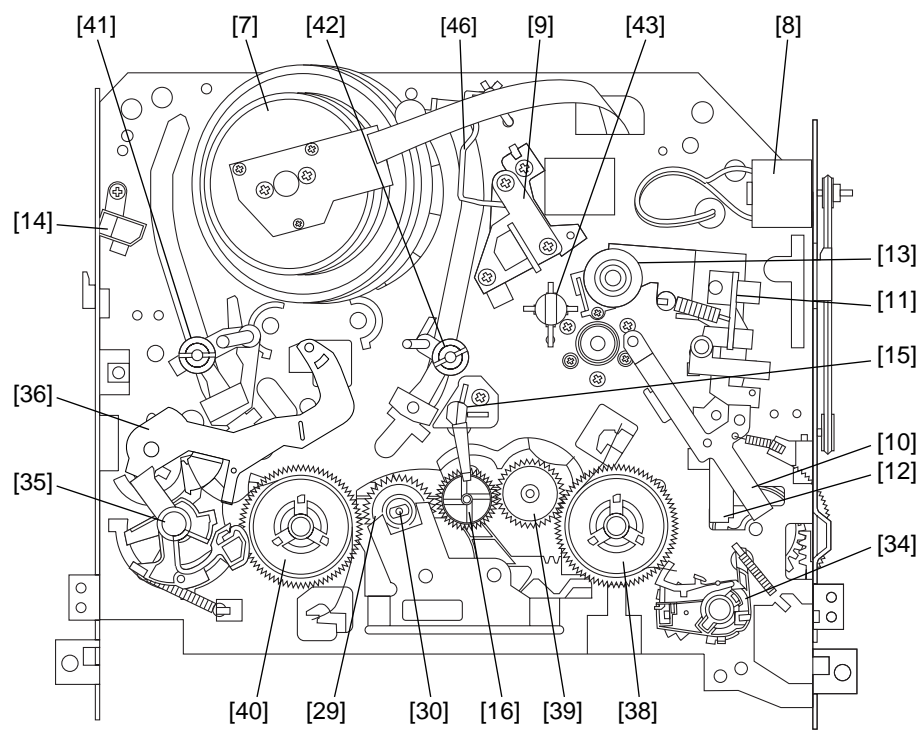


Fig. DM1

Bottom View

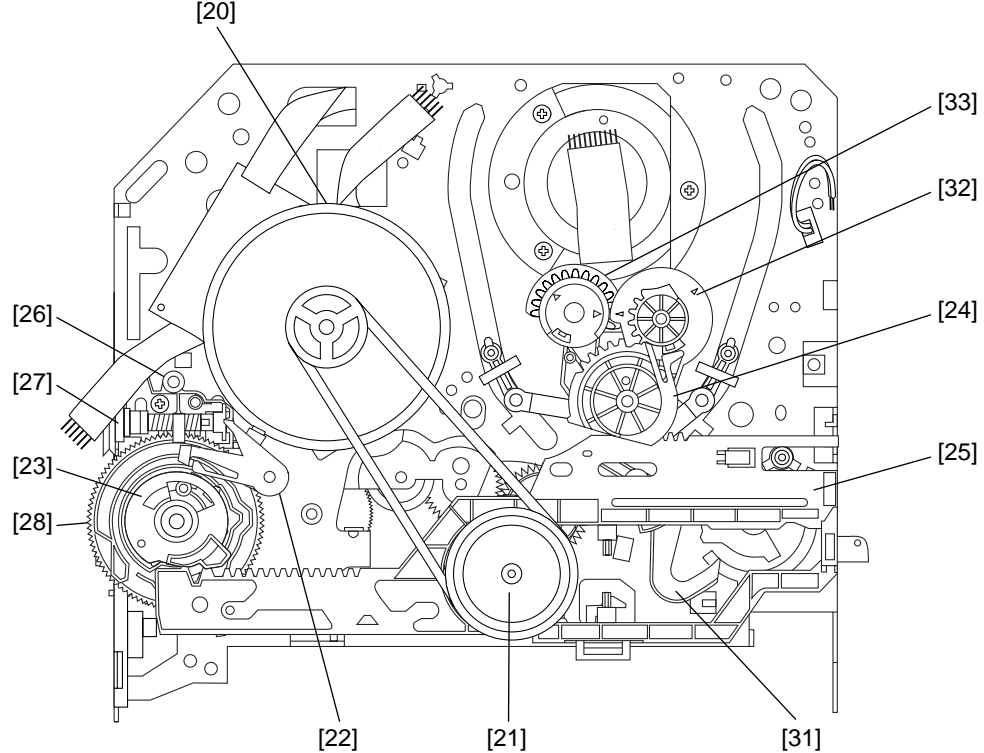
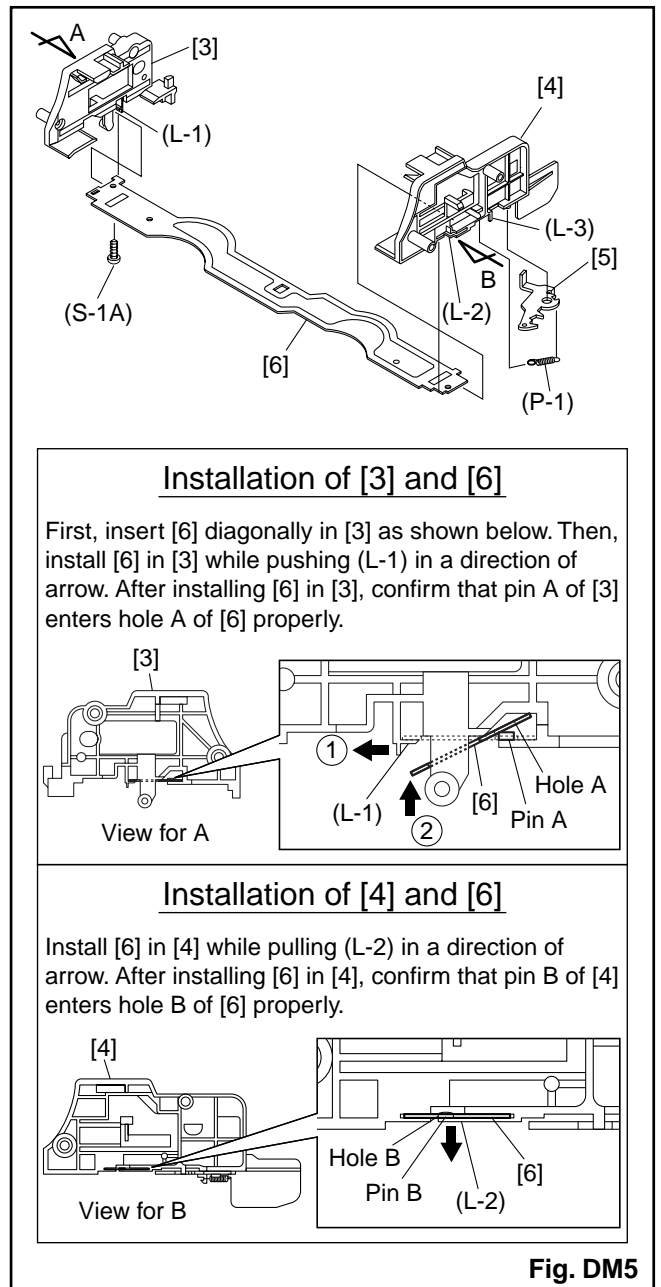
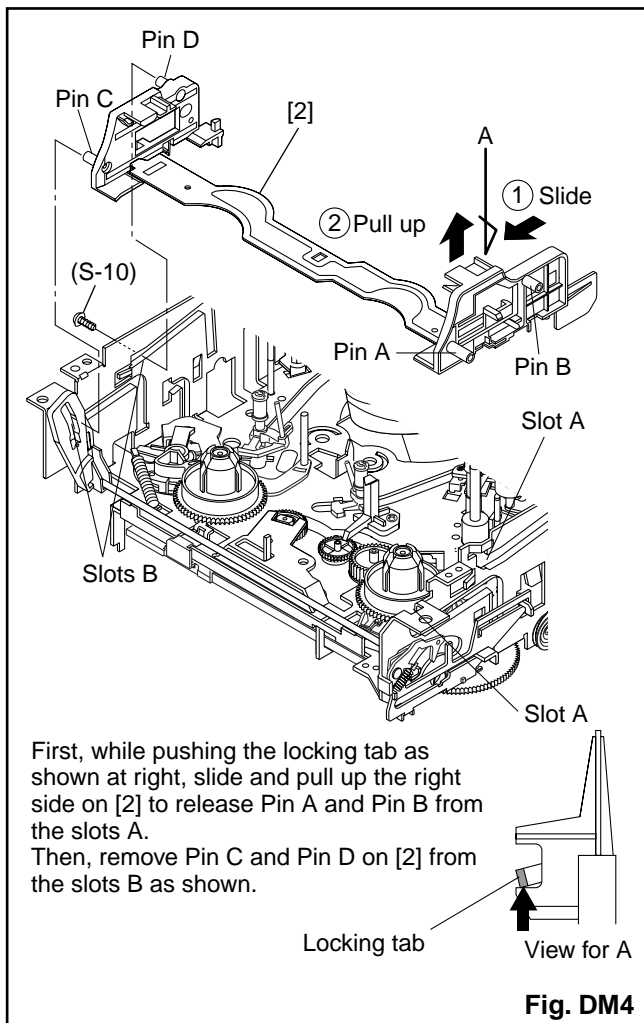
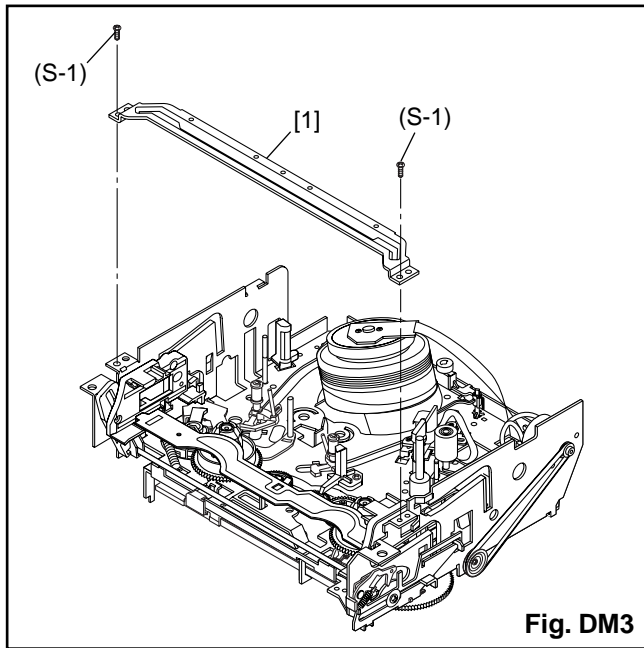
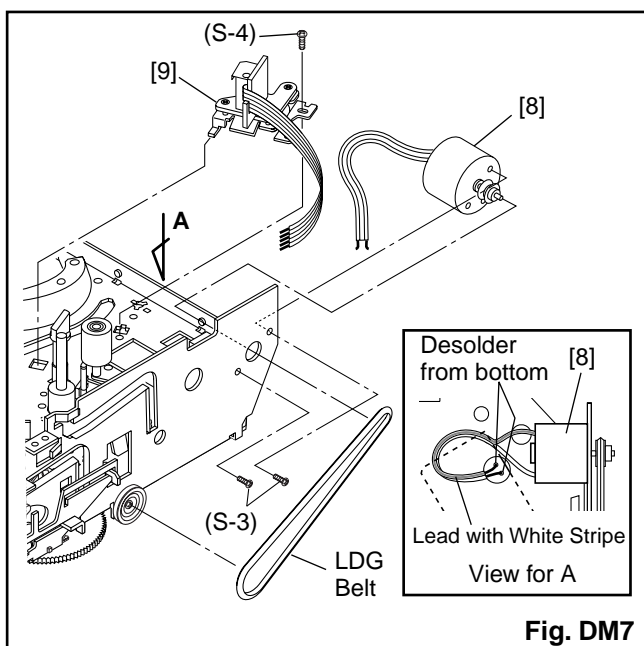
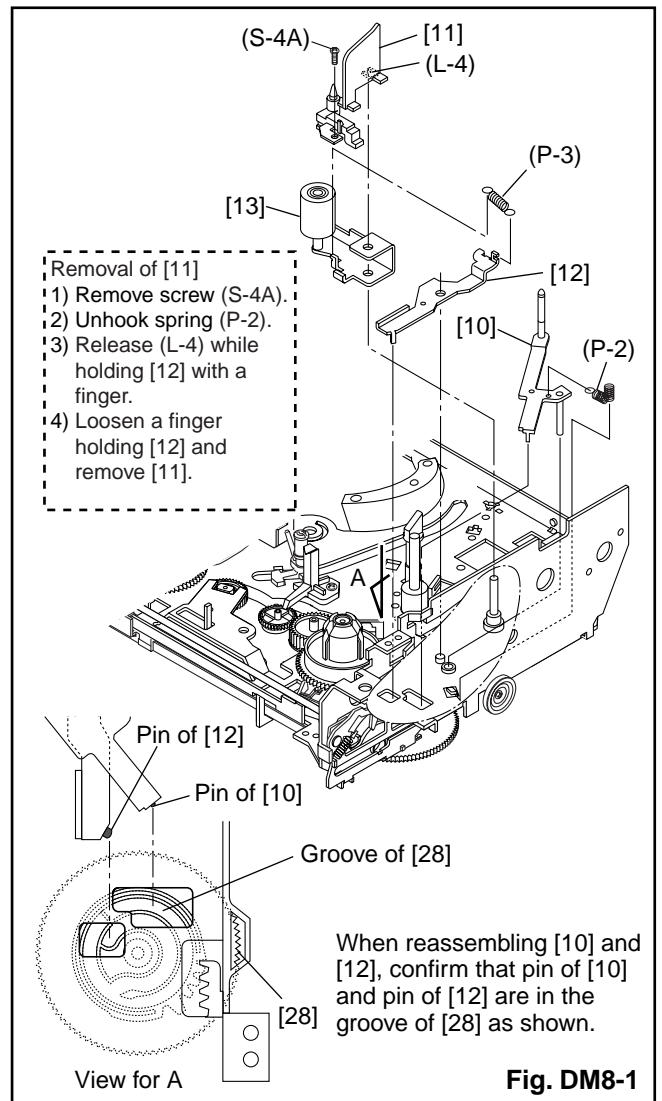
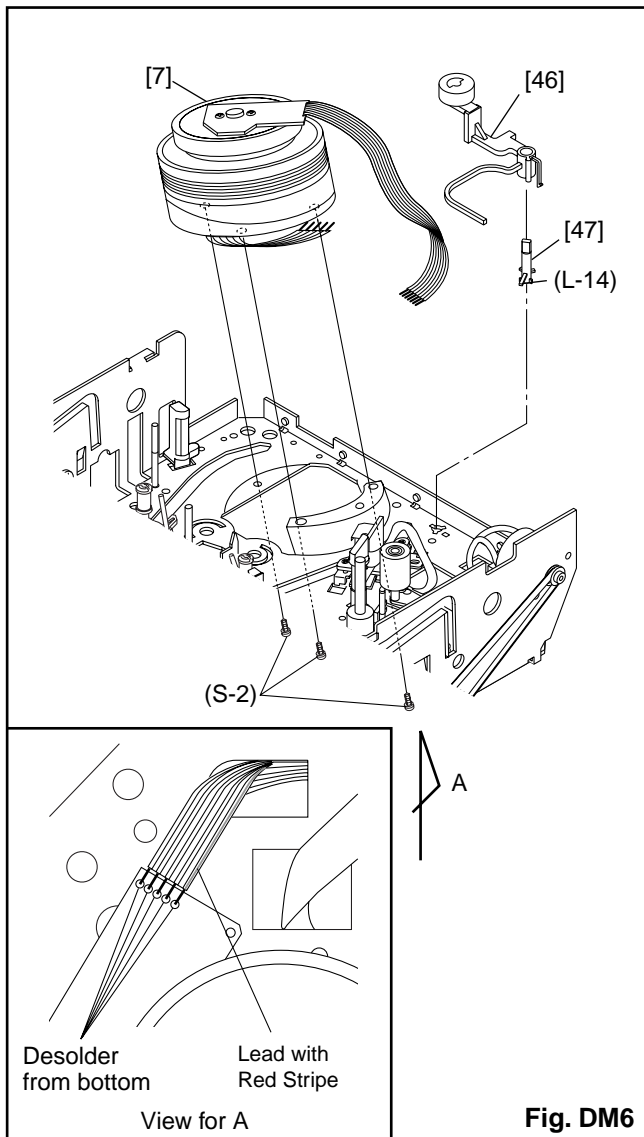


Fig. DM2





Installation of [13] and [12]

Hook spring (P-3) up to [12] and [13], then install then to the specified position so that [12] will be floated slightly while holding [12] and [13]. (Refer to Fig. A.)

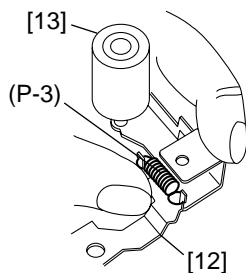


Fig. A

Install pin of [12] in groove of [28]. (Refer to Fig. B.)

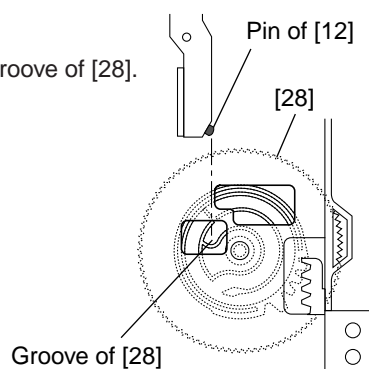


Fig. B (Top view)

Hold [12] and [13] till groove of pin of chassis looks and fit [13] in notch of chassis. Then, turn a few [13] while holding [12]. (Refer to Fig. C.)

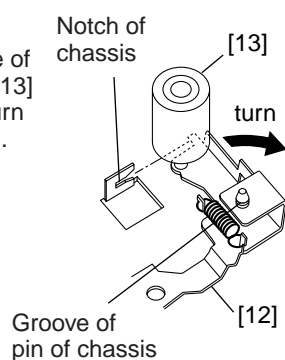


Fig. C

Install [11] and [10] while holding [12]. (Refer to Fig. DM8-1.)

Fig. DM8-2

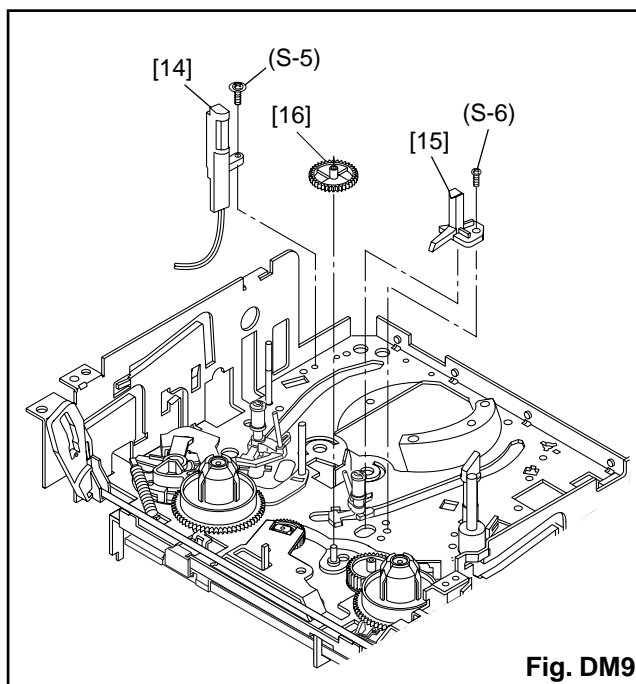


Fig. DM9

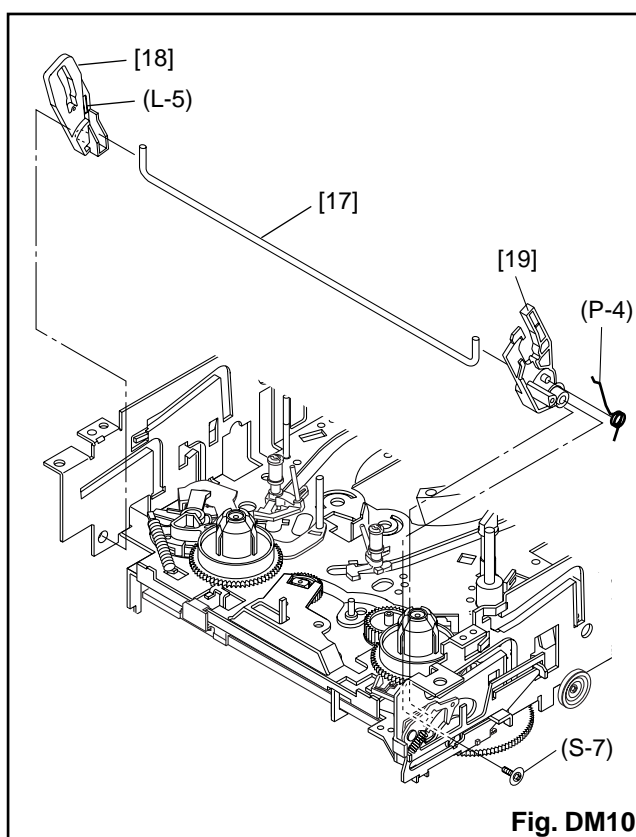
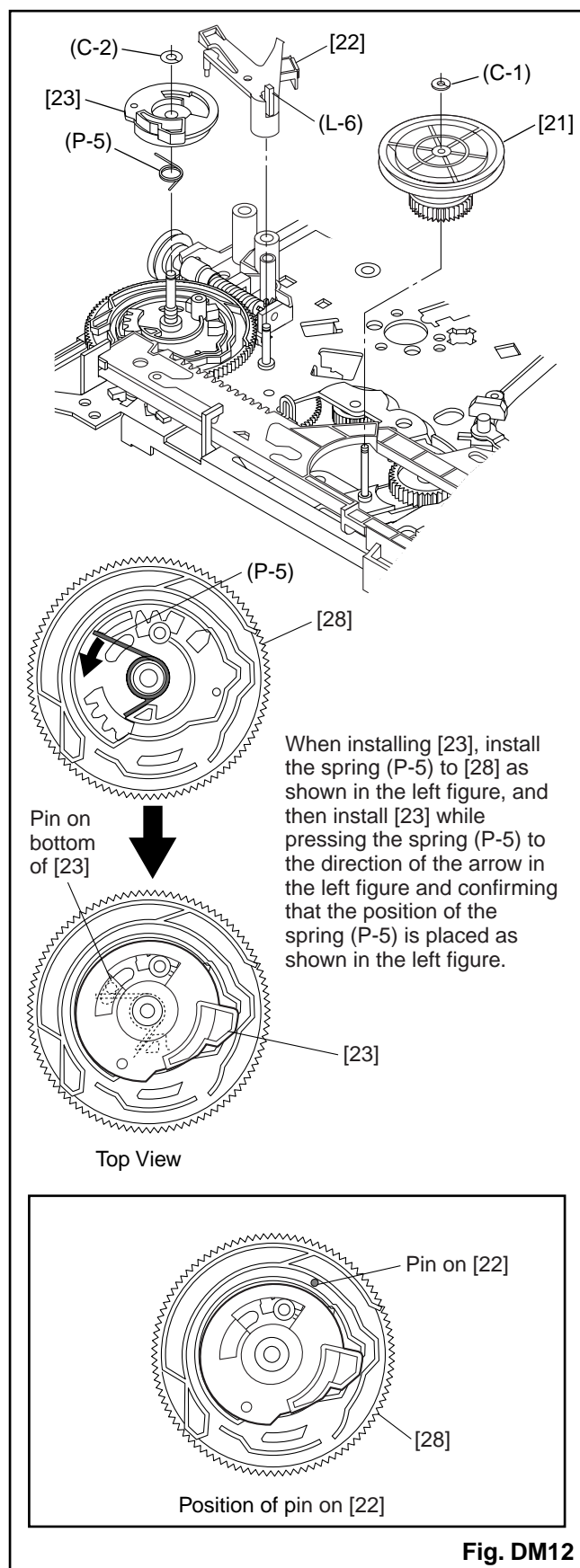
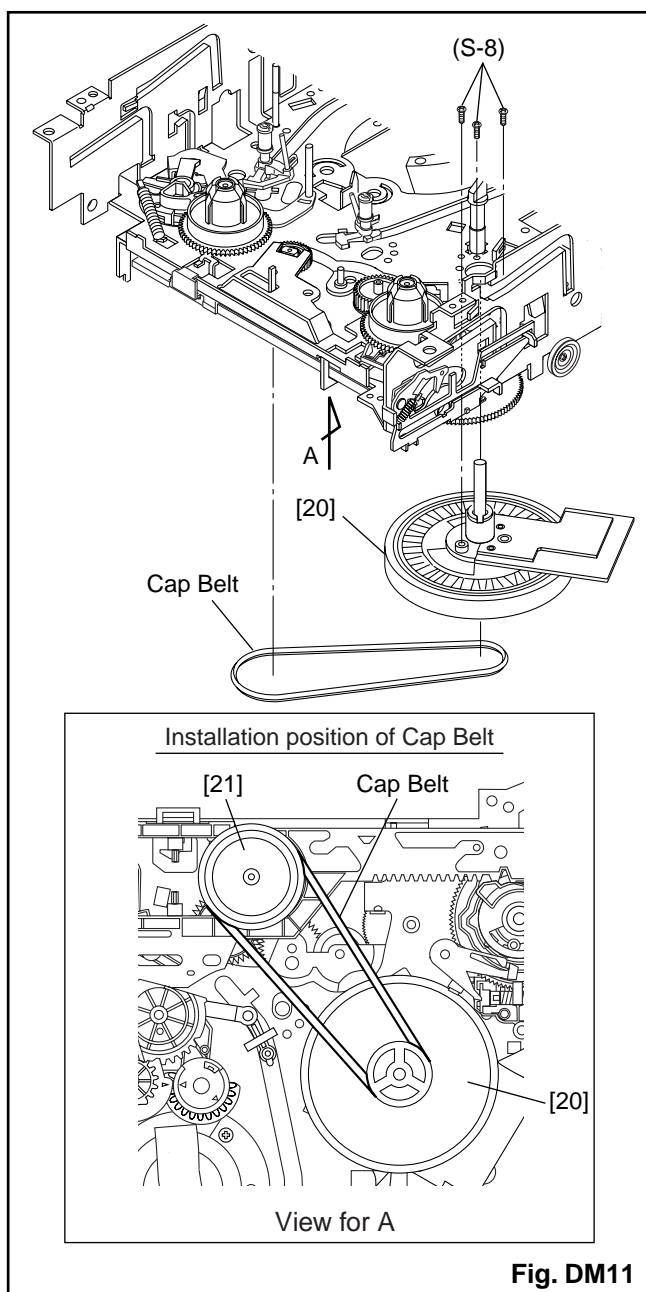
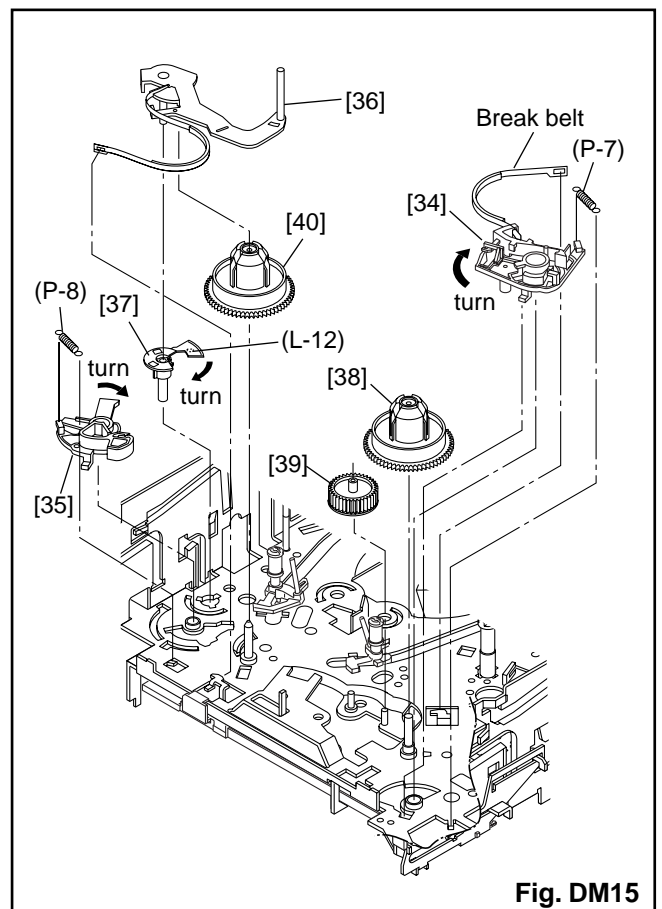
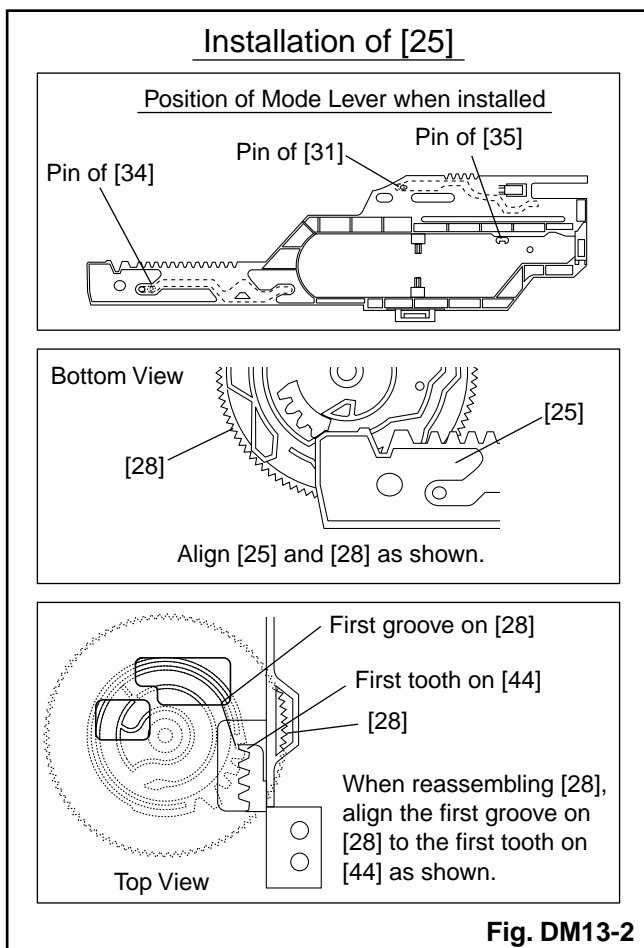
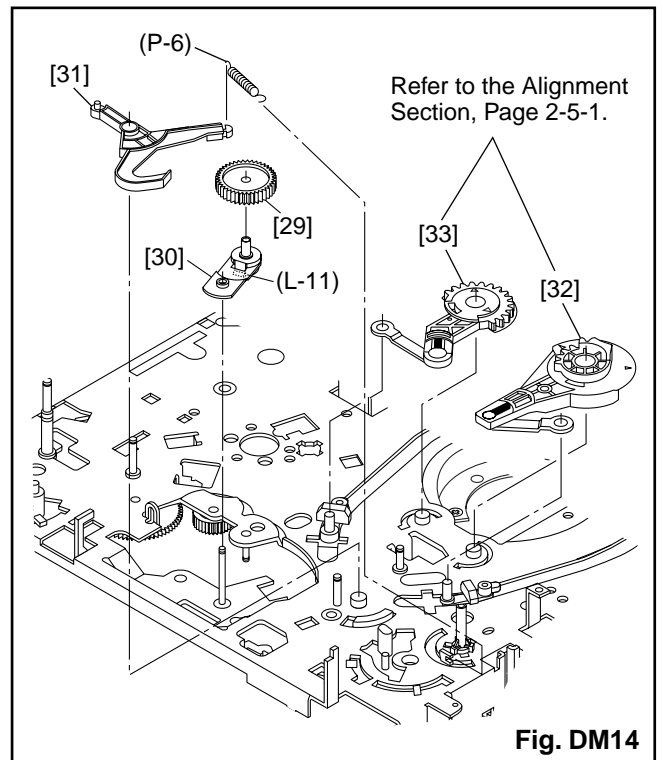
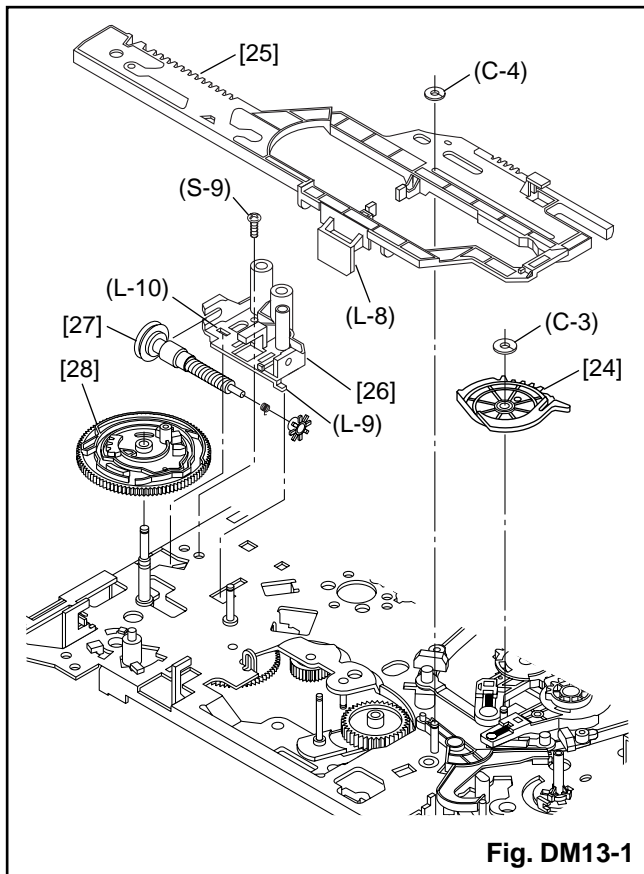
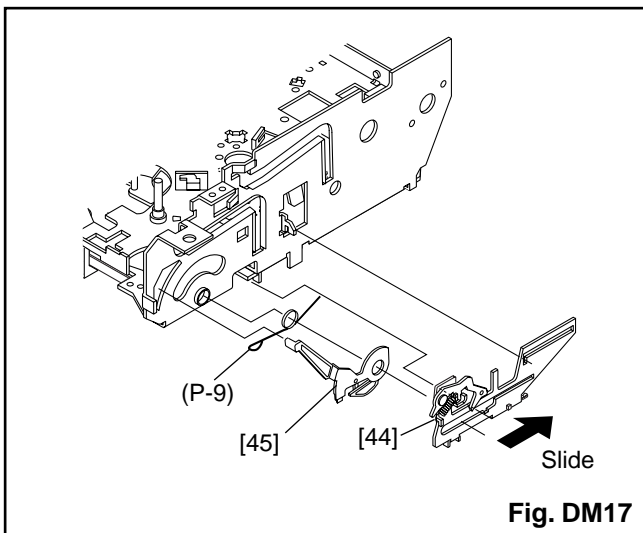
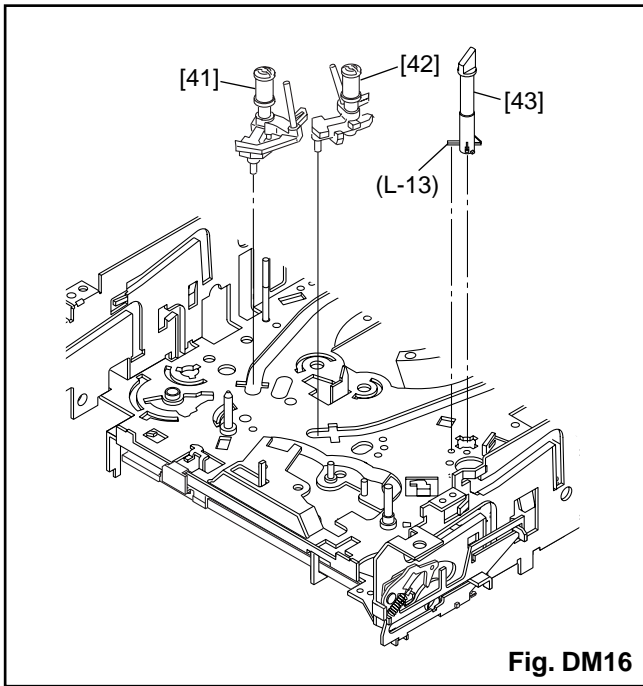


Fig. DM10







ALIGNMENT PROCEDURES OF MECHANISM

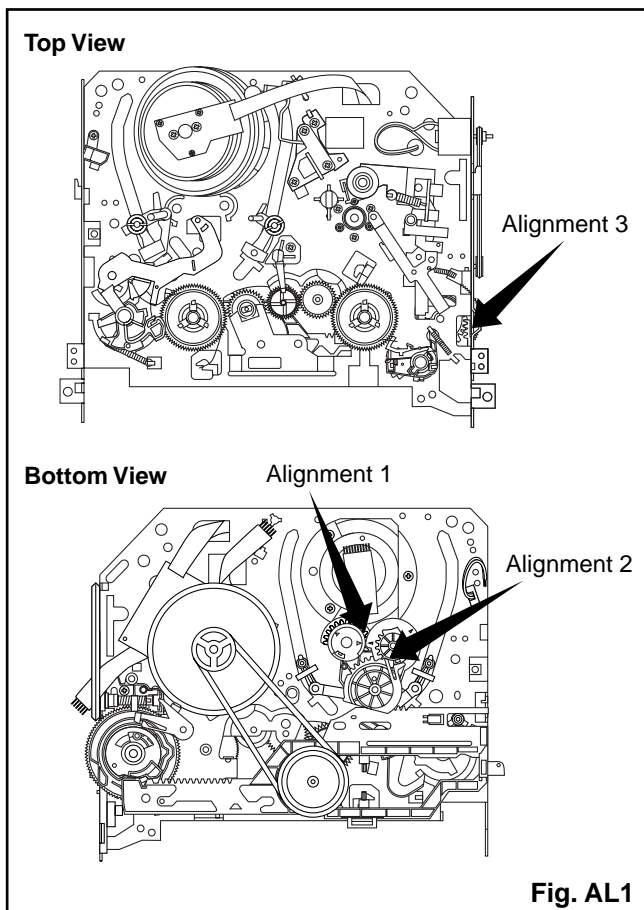
The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.

All alignments are to be performed with the mechanism in Eject mode, in the sequence given. Each procedure assumes that all previous procedures have been completed.

IMPORTANT:

If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

Alignment points in Eject Position



Alignment 1

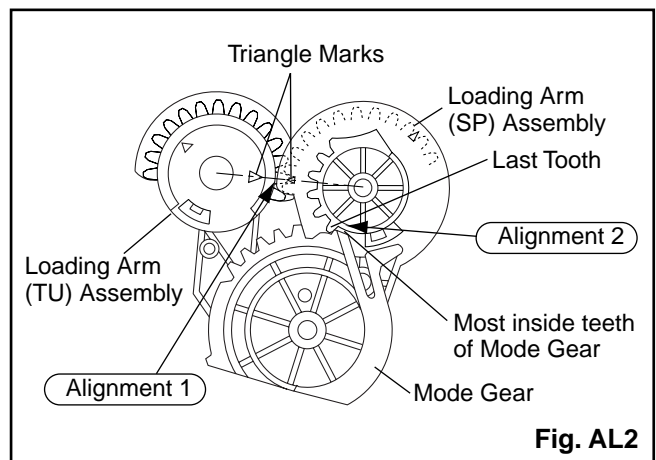
Loading Arm (SP) and (TU) Assembly

Install Loading Arm (SP) and (TU) Assembly so that their triangle marks point to each other as shown in Fig. AL2.

Alignment 2

Mode Gear

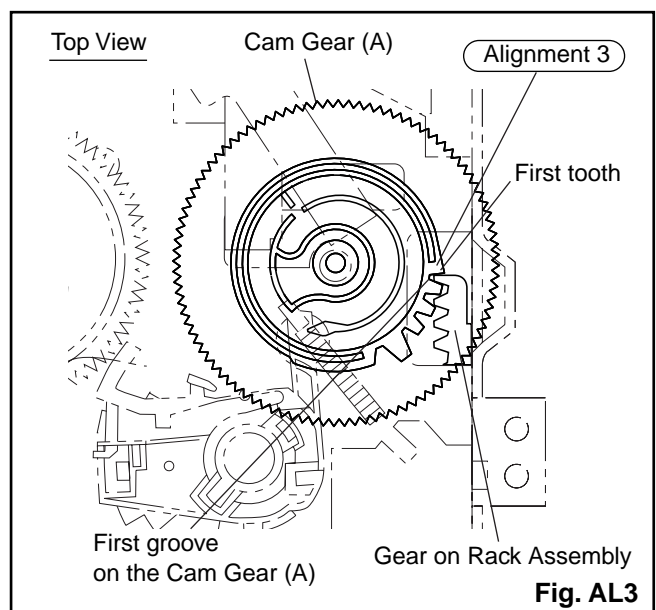
Keeping the two triangles pointing at each other, install the Loading Arm (SP) Assembly so that the last tooth of the gear meets the most inside teeth of the Mode Gear. See Fig. AL2.



Alignment 3

Cam Gear (A), Rack Assembly

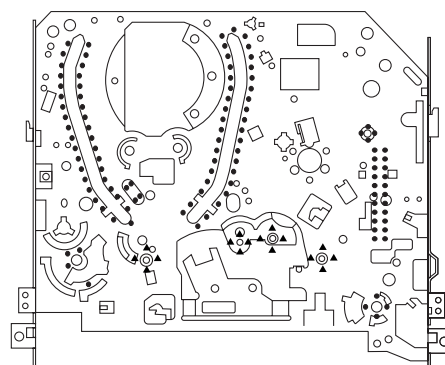
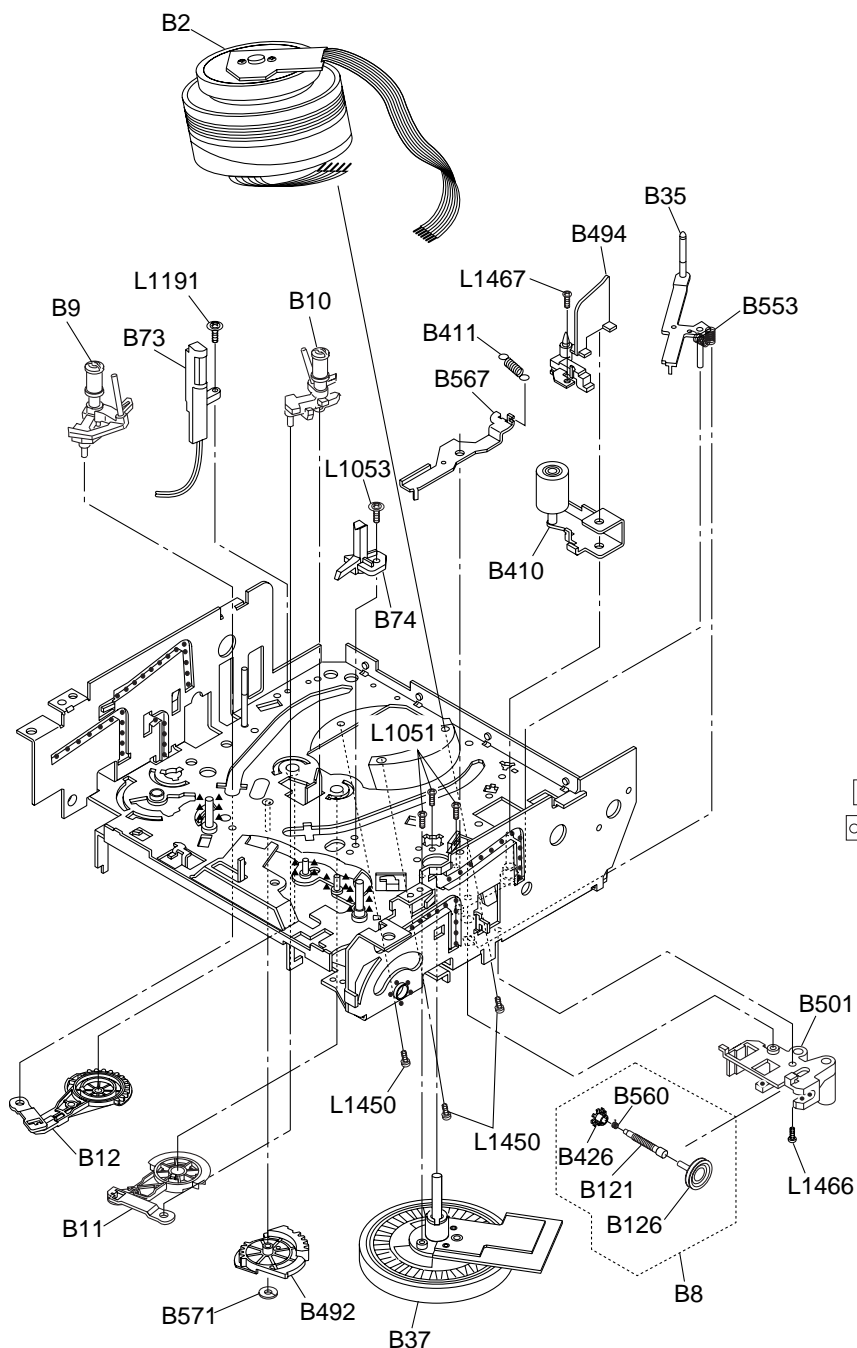
Install the Rack Assembly so that the first tooth on the gear of the Rack Assembly meets the first groove on the Cam Gear (A) as shown in Fig. AL3.



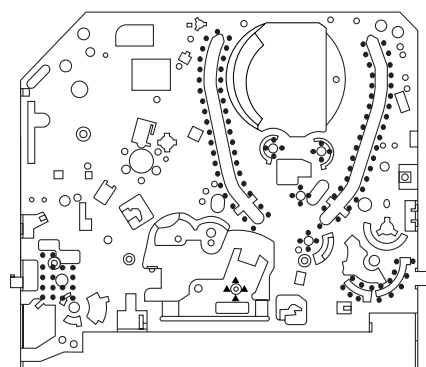
DECK EXPLODED VIEWS

Deck Mechanism View 1

Mark	Description
•••••	Floil G-684G or Multemp MH-D (Blue grease)
▲▲▲▲▲	SLIDUS OIL #150



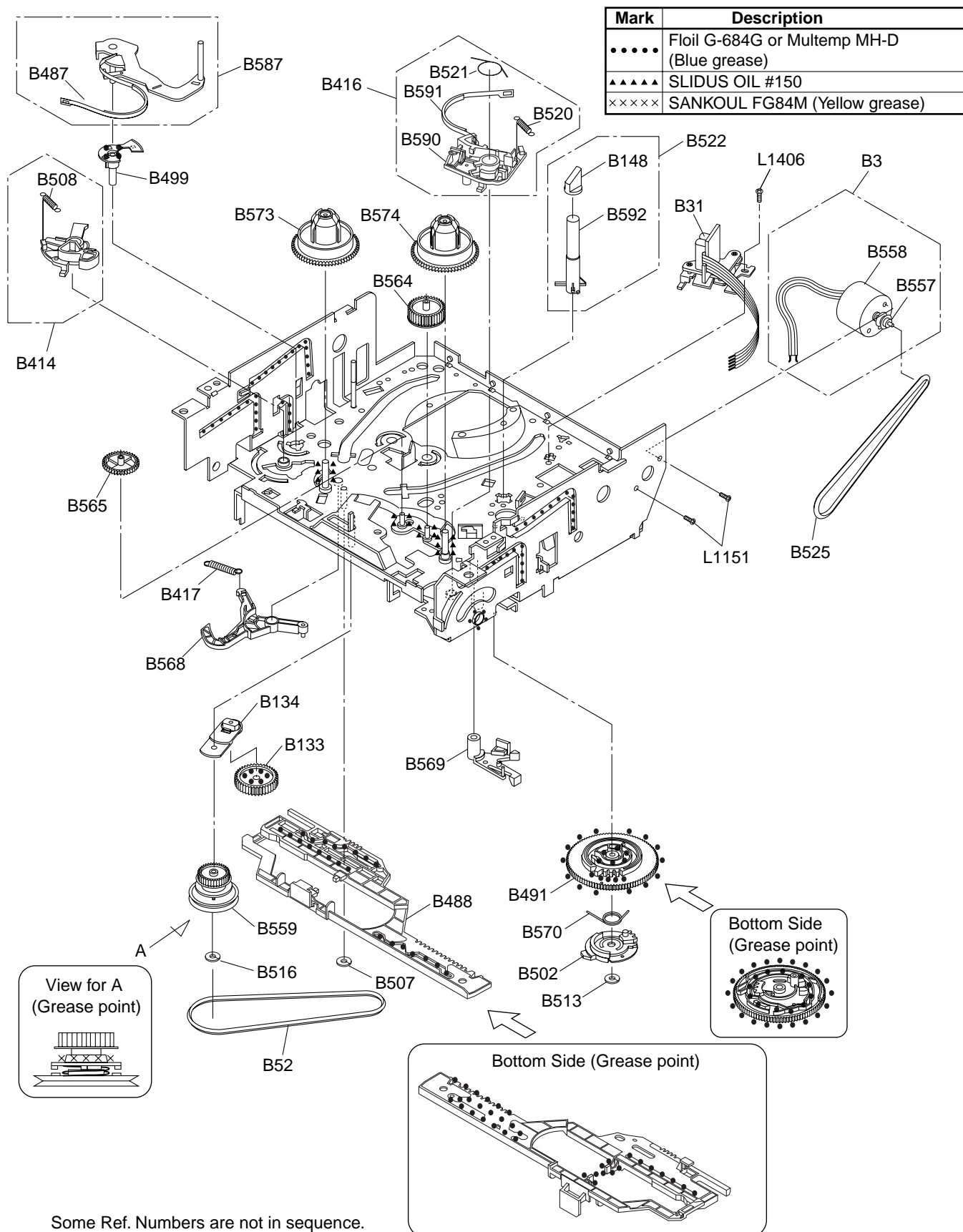
Chassis Assembly
Top View (Lubricating Point)



Chassis Assembly
Bottom View (Lubricating Point)

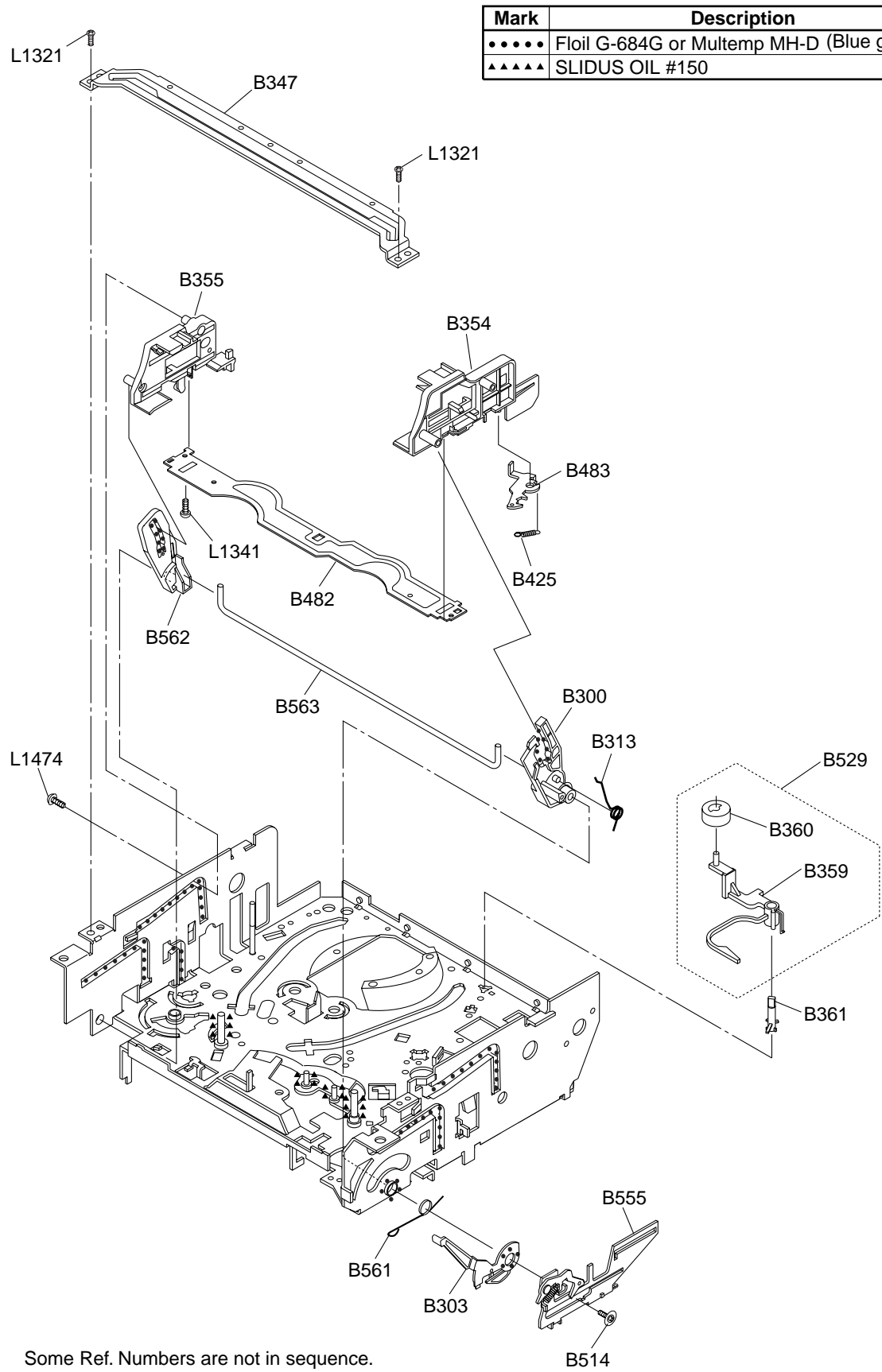
Some Ref. Numbers are not in sequence.

Deck Mechanism View 2



Some Ref. Numbers are not in sequence.

Deck Mechanism View 3



DECK PARTS LIST

NOTE:

Five different, but interchangeable, types of B558 (LOADING MOTOR) may be installed in these models. Please confirm B558 (LOADING MOTOR) type by a part number on it. B558 (LOADING MOTOR) type varies in combination with L1151. Please see Table 1 for details and combination.

Table 1 (B558 and L1151 Combination)

LOADING MOTOR (B558)		SCREW (L1151)	
Description	Parts No.	Description	Parts No.
LOADING MOTOR M31E-1 R-14 7376	MMDZB12MM003	SCREW, SEMS M2.6X4 PAN HEAD+	CPM39040
LOADING MOTOR M31E-1 R-14 7391	MMDZB12MM004		
LOADING MOTOR M31E-1 R-14 7377	MMDZB12MM006		
LOADING MOTOR MDB2B80	MMDZB12SJ008	SCREW, SEMS M3X4 PAN HEAD+	CPM33040
LOADING MOTOR MDB2B82	MMDZB10SJ001		

Ref. No.	Description	Part No.
B2	CYLINDER ASSEMBLY MK12.5 PAL 2HD 2SP	N2328CYL
B3	LOADING MOTOR ASSEMBLY MK11 TVCR	0VSA13465
B8	PULLEY ASSEMBLY MK12	0VSA13500
B9	MOVING GUIDE S PREPARATION MK12	0VSA13560
B10	MOVING GUIDE T PREPARATION MK12	0VSA13562
B11	LOADING ARM(TU) ASSEMBLY MK12	0VSA13300
B12	LOADING ARM(SP) ASSEMBLY MK12	0VSA13299
B31	AC HEAD ASSEMBLY(PB FREE) MK12(TVCR)	0VSA14902
B35	TAPE GUIDE ARM ASSEMBLY MK12.5	0VSA15014
B37	CAPSTAN MOTOR 288/VZC1303	N9683CML
B52	CAP BELT MK10	0VM411138
B73	FE HEAD ASSEMBLY MK11 or	N9742FEL
	FE HEAD ASSEMBLY MK11 or	N9743FEL
	FE HEAD(MK11) MH-131SF11 or	DHVEC01Z0005
	FE HEAD(MK11) VTR-1X2ERS11-148 or	DHVEC01TE004
	FE HEAD(MK12) VTR-1X2ERS11-155 or	DHVEC01TE005
	FE HEAD(MK12) HVFHP0047A	DHVEC01AL007
B74	PRISM MK10	0VM202870
B121	WORM MK12	0VM414091
B126	PULLEY MK12	0VM414330B
B133	IDLER GEAR MK12	0VM305738
B134	IDLER ARM MK12	0VM305739
B148	TG CAP MK11	0VM412972
B300	C DRIVE LEVER(TU) MK12	0VM203773
B303	F DOOR OPENER MK12	0VM203751C
B313	C DRIVE SPRING MK12	0VM414145
B347	GUIDE HOLDER A MK10	0VM304920
B354	SLIDER(TU) MK12	0VM101172F
B355	SLIDER(SP) MK12	0VM101182K
B359	CLEANER LEVER MK10	0VM304413
B360	CLEANER ROLLER MK9	0VM410032C
B361	CL POST MK10	0VM411114
B410	PINCH ARM(A) ASSEMBLY(4) MK12 or	0VSA13572

Ref. No.	Description	Part No.
	PINCH ARM(A) ASSEMBLY(5) MK12	0VSA13788
B411	PINCH SPRING MK12	0VM414644
B414	M BRAKE(SP) ASSEMBLY MK12.5	0VSA14994
B416	M BRAKE(TU) ASSEMBLY MK12	0VSA13283
B417	TENSION SPG(3002645) MK12.5	0VM414221G
B425	LOCK LEVER SPRING MK10	0VM411110
B426	KICK PULLEY MK10	0VM411095
B482	CASSETTE PLATE MK12	0VM203749
B483	LOCK LEVER MK12	0VM414095
B487	BAND BRAKE(SP) MK12	0VM305723
B488	MODE LEVER MK12.5	0VM101351
B491	CAM GEAR(A) MK12	0VM101174
B492	MODE GEAR MK12	0VM203769
B494	C DOOR OPENER MK12	0VM305719
B499	T LEVER HOLDER MK12	0VM305729
B501	WORM HOLDER MK12	0VM203767
B502	CAM GEAR(B) MK12	0VM305721
B507	REEL WASHER MK9 5*2.1*0.5	0VM410058
B508	S BRAKE SPRING MK10	0VM411121
B513	CAM WASHER MK12	0VM414741
B514	SCREW RACK MK10	0VM411535
B516	REEL WASHER MK9 5*2.1*0.5	0VM410058
B520	TU BRAKE SPRING MK12	0VM414285
B521	REV BRAKE SPRING MK12	0VM414222
B522	TG POST ASSEMBLY MK11	0VSA12080
B525	LDG BELT MK11	0VM412804
B529	CLEANER ASSEMBLY MK10	0VSA11161
B553	REV SPRING MK11	0VM412555
B555	RACK ASSEMBLY MK12	0VSA13289
B557	MOTOR PULLEY U5 or	0VM403205A
	MOTOR PULLEY U5	0VM403205A
B558	LOADING MOTOR MDB2B82 or	MMDZB10SJ001
	LOADING MOTOR MDB2B80 or	MMDZB12SJ008
	LOADING MOTOR M31E-1 R-14 7376 or	MMDZB12MM003
	LOADING MOTOR M31E-1 R14 7391 or	MMDZB12MM004
	LOADING MOTOR M31E-1 R-14 7377	MMDZB12MM006
B559	CLUTCH ASSEMBLY MK12 or	0VSA13284
	CLUTCH ASSEMBLY(64) MK12	0VSA14459
B560	KICK SPRING MK10	0VM411475A
B561	F DOOR SPRING MK10	0VM411430
B562	C DRIVE LEVER(SP) MK12	0VM203772
B563	SLIDER SHAFT MK12	0VM305762
B564	M GEAR MK12	0VM305735
B565	SENSOR GEAR MK12	0VM305736
B567	PINCH ARM(B) MK12	0VM305718
B568	BT ARM MK12	0VM305728
B569	CAM HOLDER(F) MK12	0VM305722
B570	CAM RACK SPRING(HI) MK11	0VM412923
B571	P.S.W CUT 1.6X4.0X0.5T	0VM408485A
B573	REEL(SP)(D2) MK12	0VM203755
B574	REEL(TU)(D2) MK12	0VM203756
B587	TENSION LEVER ASSEMBLY MK12	0VSA13279
B590	BRAKE ARM(TU) MK12	0VM203752E
B591	BAND BRAKE(TU) MK12	0VM305724C
B592	TG POST MK11	0VM412550
L1051	SCREW, B-TIGHT M2.6X6 PAN HEAD+	GPMB9060
L1053	SCREW, S-TIGHT M2.6X8 WASHER HEAD+	GCMS9080

Ref. No.	Description	Part No.
L1151	SCREW, SEMS M3X4 PAN HEAD + or	CPM33040
	SCREW, SEMS M2.6X4 PAN HEAD+	CPM39040
L1191	SCREW, S-TIGHT M2.6X8 WASHER HEAD+	GCMS9080
L1321	SCREW, S-TIGHT M3X6 BIND HEAD+	GBMS3060
L1341	SCREW, P-TIGHT M2X6 PAN HEAD+	GPMP2060
L1406	AC HEAD SCREW MK9	0VM410964
L1450	SCREW, SEMS M2.6X5 PAN HEAD+	CPM39050
L1466	SCREW, S-TIGHT M2.6X6 BIND HEAD+	GBMS9060
L1467	SCREW M2.6X5 WASHER HEAD+	SCM39050
L1474	SCREW, P-TIGHT M2.6X12 WASHER HEAD+	GCMP9120

