

Service  
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**14PV360/01/07/39**  
**14PV365/01/07/39/58**

# Service Manual

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Chapter
Sec. 1: Adjustment Procedure
Schematic Diagrams and CBA's
Exploded Views
Mechanical and Electrical Parts Lists
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Disassembly / Assembly of Mechanism
Deck Exploded Views

## Survey of versions:

/01	PAL-BG, EURO
/07	PAL I, Ireland
/39	PAL/SECAM-BG+PAL/SECAM-L/L',FRANCE
/58	PAL-BG/DK+SECAM-BG/DK,EAST-EURO

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.



# MAIN SECTION

## TV-VCR COMBINATION

### Sec. 1: Main Section

- Adjustment Procedures
- Schematic Diagrams and CBA's
- Exploded Views
- Mechanical and Electrical Parts List

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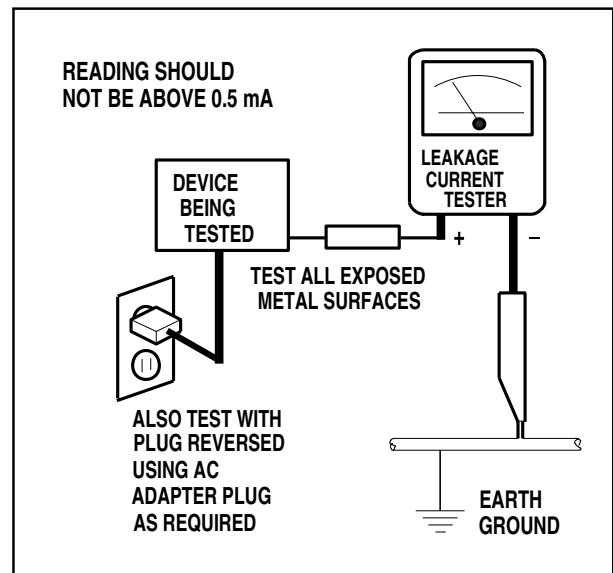
# IMPORTANT SAFETY PRECAUTIONS

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 droplets, 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	$\geq 3\text{mm}(d)$ $\geq 6\text{mm}(d')$

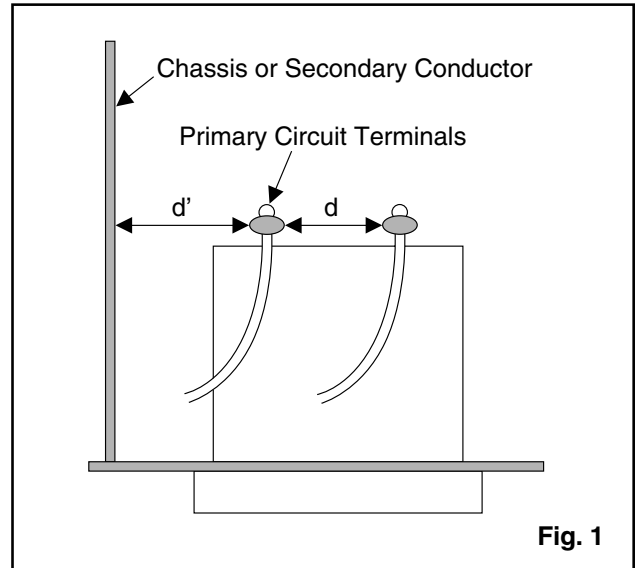
**Note:** This table is unofficial and for reference only. Be sure to confirm the precise values.

### 2. Leakage Current Test

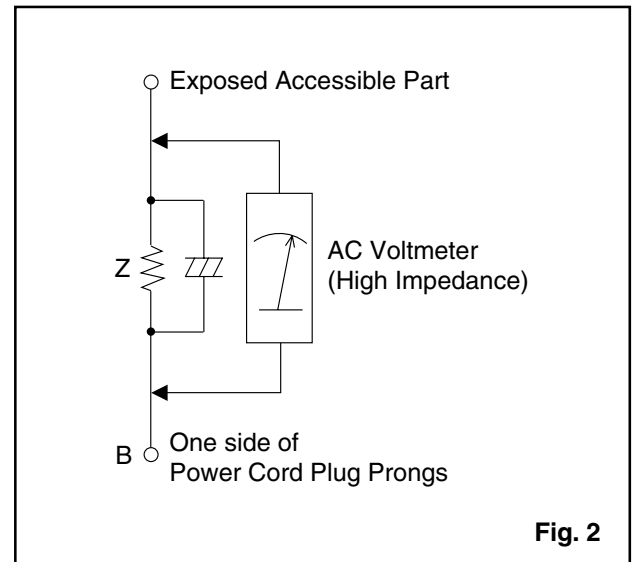
Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

#### 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**

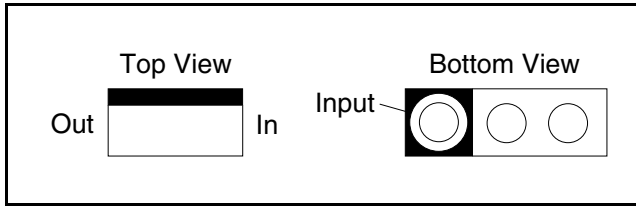
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2kΩ RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	RF or Antenna terminals
	50kΩ RES. Connected in parallel	$i \leq 0.7\text{mA AC Peak}$ $i \leq 2\text{mA DC}$	A/V Input,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

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

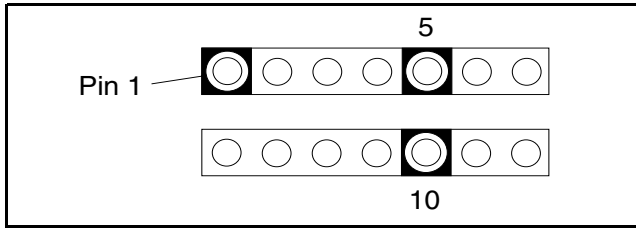
# STANDARD NOTES FOR SERVICING

## Circuit Board Indications

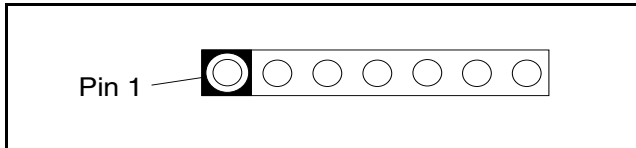
1. The output pin of the 3 pin Regulator ICs is indicated as shown:



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

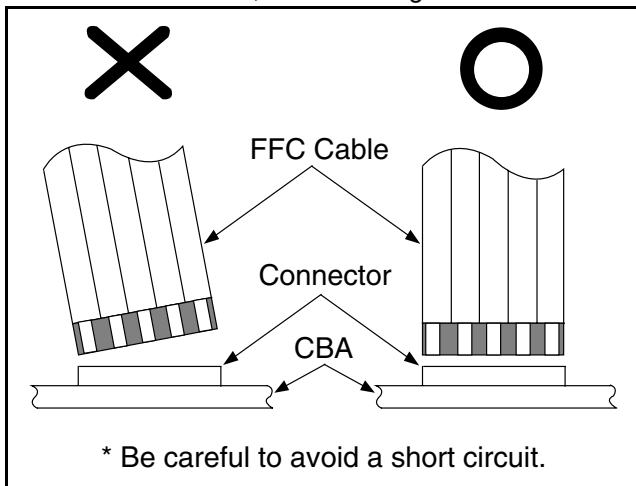


3. The 1st pin of every pin connector are indicated as shown:



## Instructions for Connectors

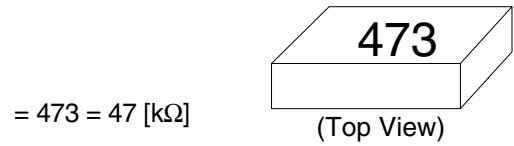
1. When you connect or disconnect FFC cable (connector), be sure to disconnect the AC cord.
2. FFC cable (connector) should be inserted parallel into the connector, not at an angle.



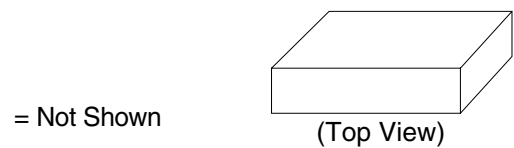
[ CBA= Circuit Board Assembly ]

## How to Read the Values of the Rectangular Type Chip Components

Example:  
(a) Resistor



(b) Capacitor



### Caution:

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

## 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

- a. Soldering Iron  
Use a pencil-type soldering iron (less than 30 watts).
- b. Solder  
Eutectic solder (Tin 63%, Lead 37%) is recommended.
- 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.)

### 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:**

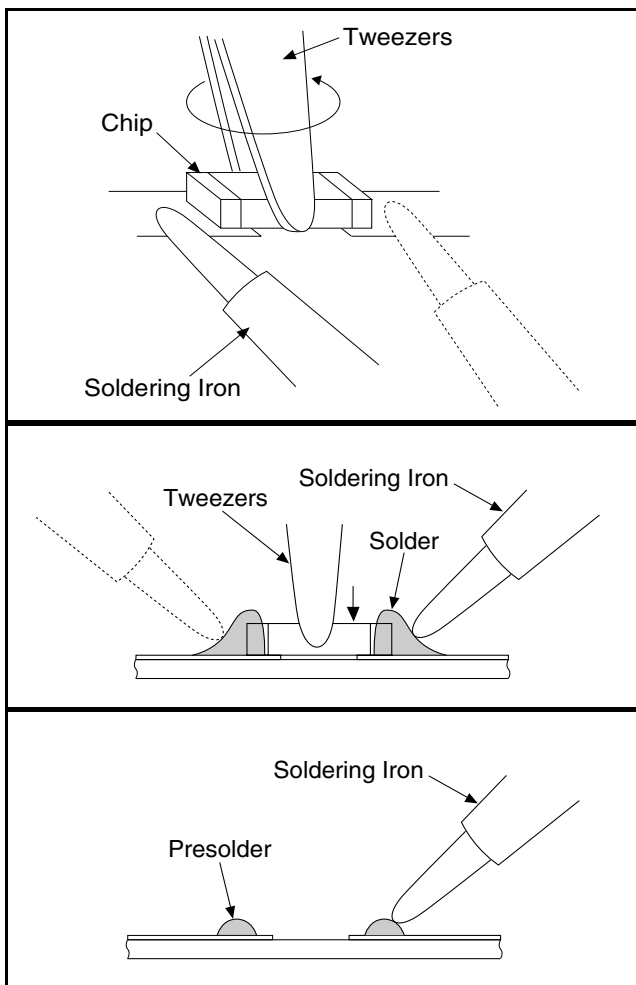
- a. Do not attempt to lift the component off the board until the component is completely disconnected from the board by the twisting action.
- b. Take care not to break the copper foil on the printed board

**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. 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)

- 2. 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.

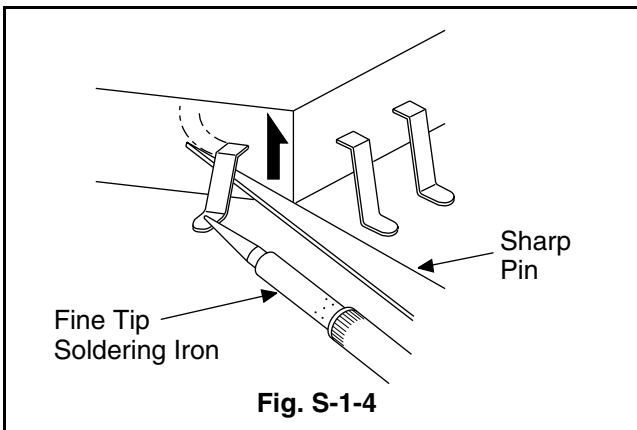
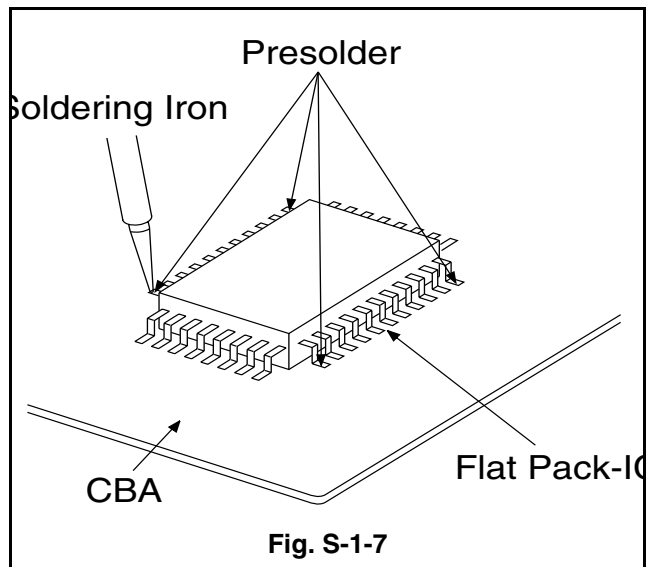
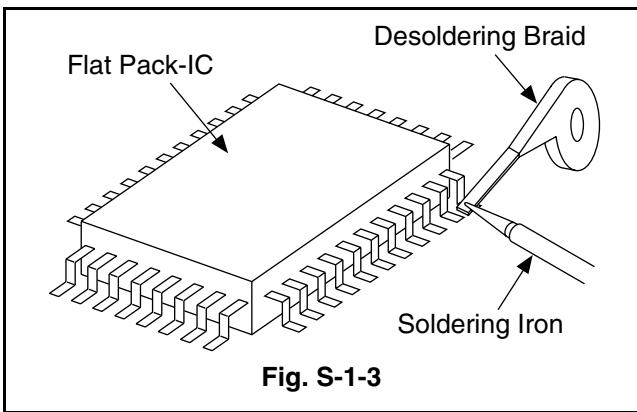
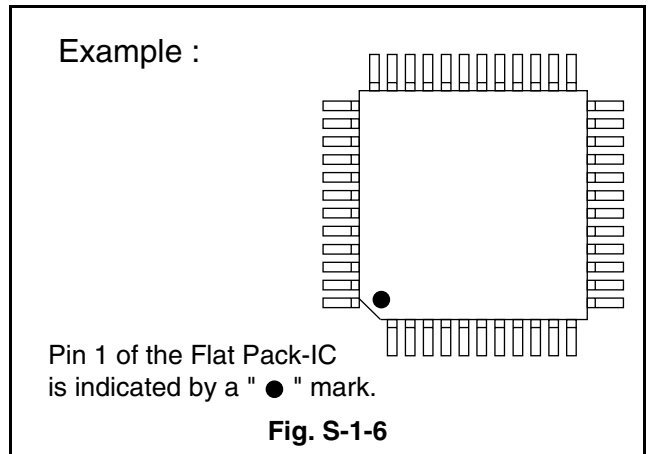
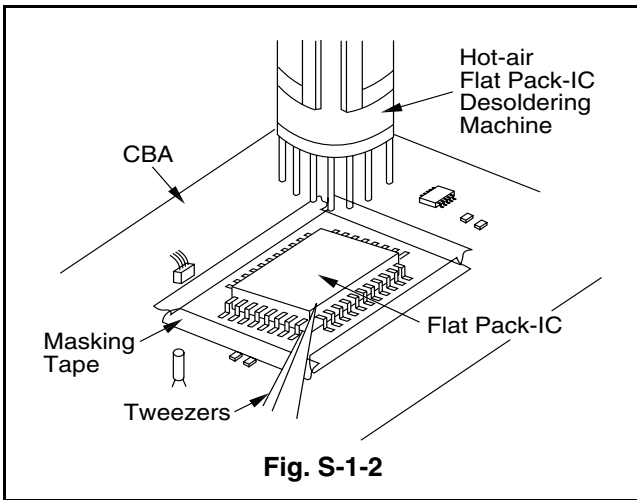
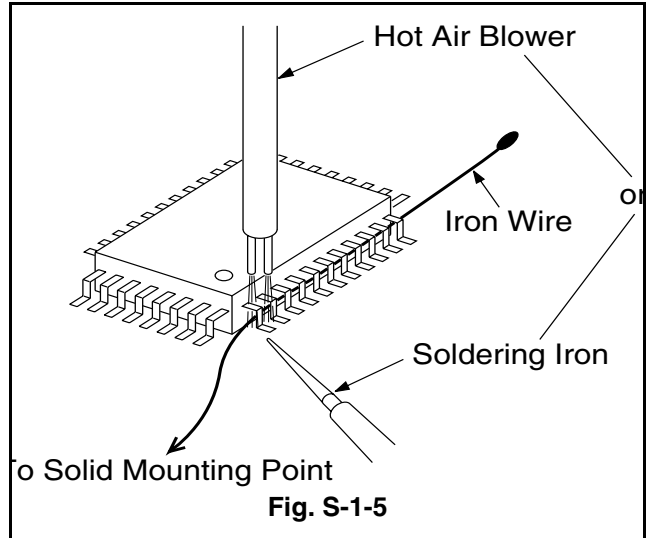
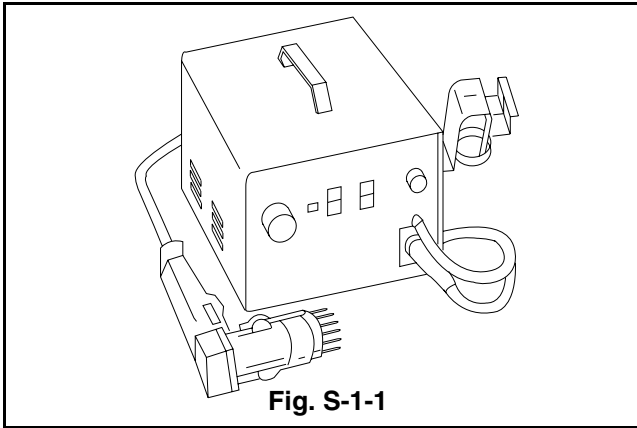
**Note:**

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.

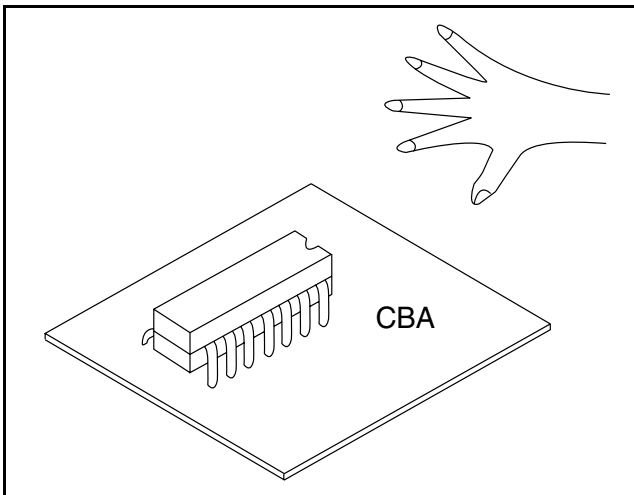
### Ground for Human Body

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

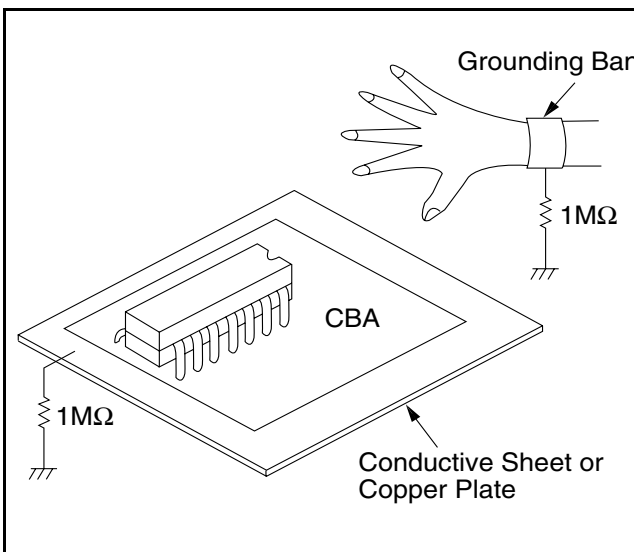
### Ground for Work Bench

Be sure to place a conductive sheet or copper plate with proper grounding ( $1M\Omega$ ) 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.

#### Incorrect



#### Correct



# 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, "F" 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. Press P+/P- key to display Initial Value. *Marked items are not necessary to adjust normally.
◀ ▼	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 1-6-2.
1	DSPC adjustment mode: See adjustment instructions page 1-6-3.
2	H adjustment mode: See adjustment instructions page 1-6-2.
3	No need to use.
4	Auto record mode: Perform recording (15 Sec.)-->Stop-->Rewind (Zero return) automatically.

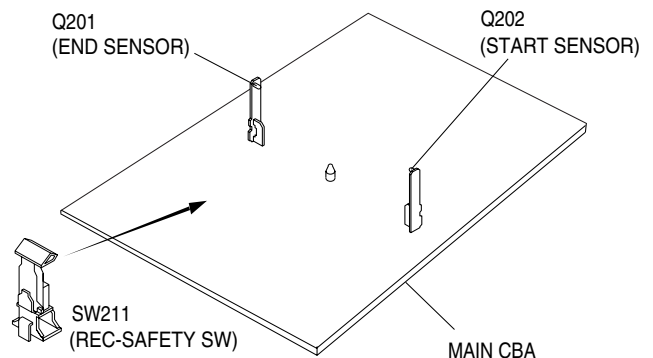
Key	Adjustment Mode
5	Head switching point adjustment mode: See adjustment instructions page 1-6-6.
6	No need to use.
7	Purity check mode: Shows Red, Green, Blue or White cyclically on the screen each time the [7] key is pressed.
8	H. Shift adjustment mode: See adjustment instructions page 1-6-4.
9	V.size/V. 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.

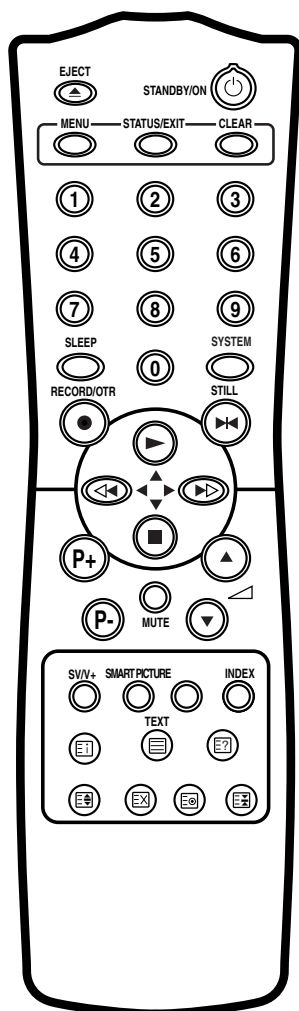
### Preparing: 2

- 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.



# OPERATING CONTROLS AND FUNCTIONS

## The remote control



**EJECT** To eject the cassette.

**CLEAR** To delete last entry/Clear programmed recording (TIMER).

**RECORD/OTR** To record the TV channel selected at this moment or press repeatedly to start a One-Touch Recording.

**STILL** To stop the tape and show a still picture.

**P+** **P-** To select the programme number. During normal or slow motion playback, press to adjust the tracking or vertical jitter.

**MUTE** To eliminate the sound. Press again to restore the volume.

To adjust the volume.

**SYSTEM** Doesn't work in these models.

**SLEEP** To select the switch-off time in 30 minutes intervals.

**TEXT** To switch TELETEXT on or off, or transparent mode.

: enlarge font

: switch TELETEXT decoder off temporarily

: select TELETEXT sub-page

: recall hidden information

: stop page changes

: go back to start page.

**SV/V+ Red button** / To programme recordings with VIDEO Plus+ system or to alter / clear programmed TIMER recordings. Select TELETEXT function when you are in TELETEXT mode.

**SMART PICTURE Green button** / To call up preset picture settings. Select TELETEXT function when you are in TELETEXT mode.

**Yellow button** / Select TELETEXT function when you are in TELETEXT mode.

**INDEX Blue button** / Search for the previous/next recording code on the tape in combination with / . Select TELETEXT function when you are in TELETEXT mode.

**STANDBY/ON** To switch TVCR On or Off or to interrupt menu function.

**MENU** To call up main menu of TVCR.

**STATUS/EXIT** To access or remove the TVCR's on-screen status display. To exit on-screen menus.

**0..9** Press to select channels.

When tape playback is stopped, press to fast forward the tape at high speed. During playback, press to fast forward the tape while the picture stay on the screen. To store or confirm entry in the menu. Press to adjust the controls of TVCR menu.

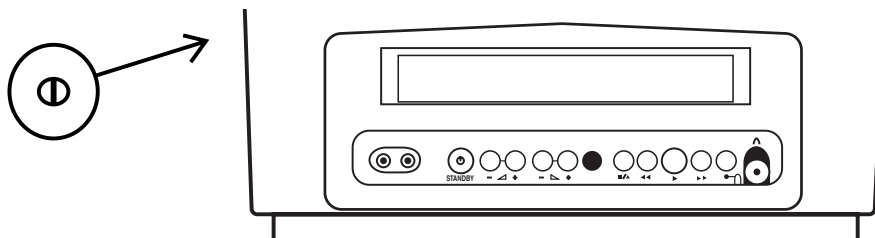
When tape playback is stopped, press to rewind the tape at high speed. During playback, press to rewind the tape while the picture stay on the screen. To return the cursor in the menu. Press to adjust the controls of TVCR menu.

To play a tape, select an item in the menu of TVCR.

To stop the tape, select an item in the menu of TVCR.


---




## Front of the device



 **Power switch:** To switch the TV-Video Combi off.


**Caution:** If you switch off using the power switch, TIMER-recordings are impossible!

 **Standby/on:** To switch TVCR On or Off or to interrupt a menu function.


 **Volume:** In connection with the button ,  to adjust the volume.

 **Programme number minus:** previous programme number


 **Programme number plus:** next programme number

 **Record:** To record the programme currently selected.

 **Playback:** To play a recorded cassette.

 **Pause/Stop, eject cassette:** To stop the tape; If this key is depressed while in STOP, the cassette is then ejected from the machine.

 When tape playback is stopped, press to fast forward the tape at high speed.

 When tape playback is stopped, press to rewind the tape at high speed.

 **Sockets on the front:**

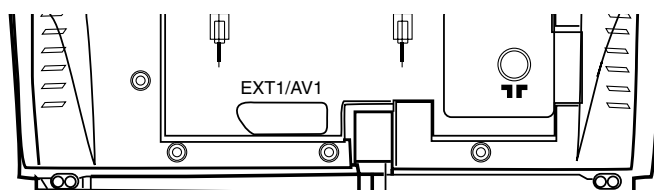
**White socket / AUDIO input socket:** To connect a camcorder or video games (audio).

**Yellow socket / VIDEO input socket:** To connect a camcorder or video games (video).

**Small socket /  socket for headphones:** To connect headphones.

---

## Back of the set




 **Aerial input socket:** To connect the aerial cable.

 **Scart socket :** To connect a satellite receiver, decoder, video recorder, etc.

---

## The control lights at the front of machine

**STANDBY**  **Standby LED:** lights up when the TV-Video Combi has been switched On by means of the main switch.

**RECORD**  **Recording LED:** lights up during recording.

Fast blink: RECORDING PAUSE; TIMER RECORDING NOT STAND-BY.

Slow blink: TIMER RECORDING is stored in a timer block.

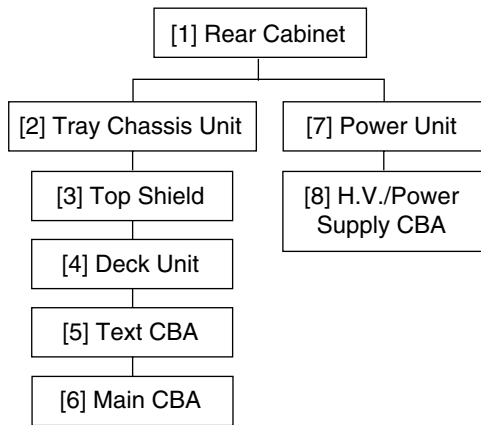
# CABINET DISASSEMBLY INSTRUCTIONS

## 1. Disassembly Flowchart

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

### 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/DESOL- DER	Note
[1]	Rear Cabinet	1, 2	4(S-1), 2(S-2), *CN801	1
[2]	Tray Chassis Unit	3, 6	*CN701, *CN702, *CN503, *CN504, *CN601, *CN602	2
[3]	Top Shield	3, 6	5(S-3)	3
[4]	Deck Unit	3, 6	7(S-4), 2(S-5), Desolder *(CN201, CL401, CL402, CL403)	4
[5]	Text CBA	3, 6	*CN751, *CN752	5
[6]	Main CBA	3, 6	6(S-6)	6
[7]	Power Unit	4,5, 6	Anode Cap, *CN501, CRT CBA, *CN571, 2(S-7)	7

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/ *UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOL- DER	Note
[8]	H.V./Power Supply CBA	4, 6	4(S-8)	8
[9]	CRT	5	4(S-9)	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). Then, disconnect connector CN801.
2. Removal of the Tray Chassis Unit.  
Disconnect connectors CN701, CN702, CN503, CN504, CN601 and CN602. Then pull the Tray Chassis Unit out.
3. Removal of the Top Shield.  
Remove five screws (S-3).
4. Removal of the Deck Unit.  
Remove seven screws (S-4) and two screws (S-5). Then, desolder connectors (CN201, CL401, CL402, CL403) and lift up the Deck Unit.
5. Removal of the Text CBA.  
Disconnect connectors CN751 and CN752. Then, lift the Text CBA up.

- Removal of the Main CBA.  
Remove six screws (S-6) and pull up the Main CBA.

**Caution !!**

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

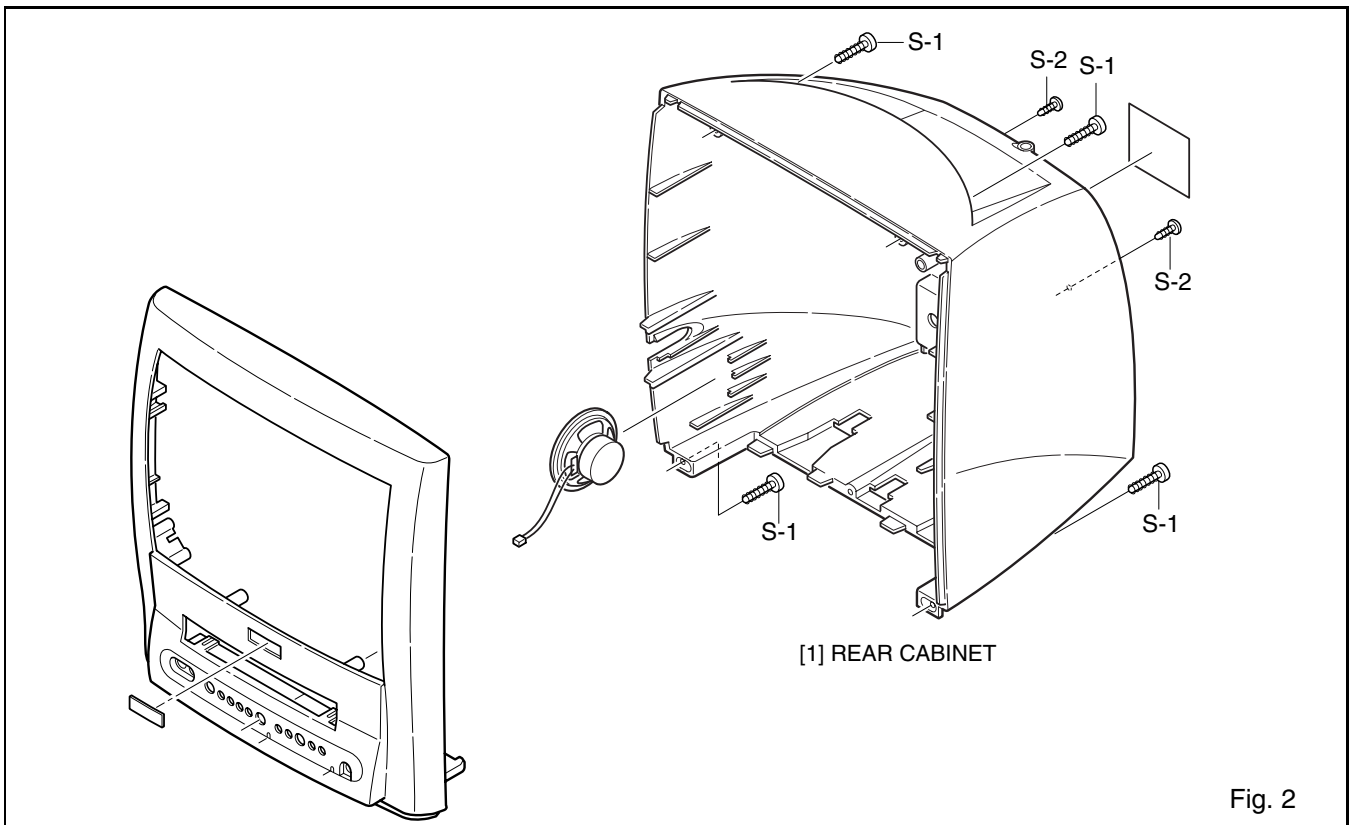
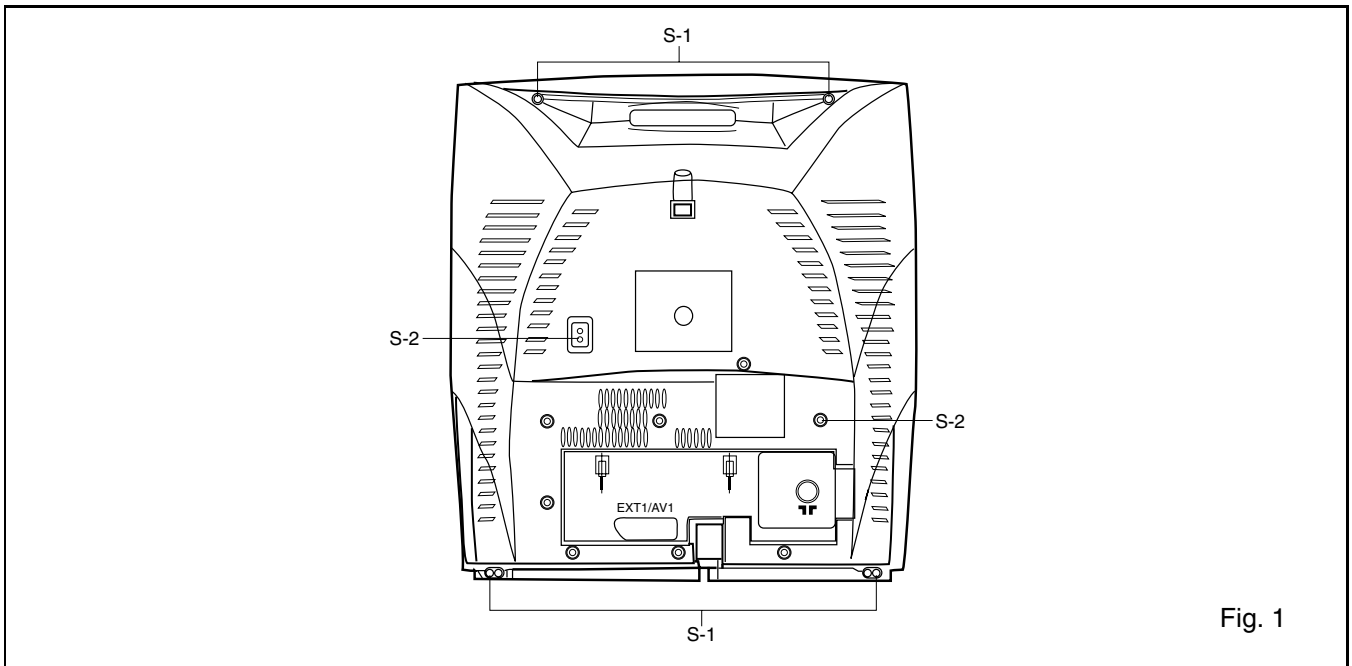
- Removal of the Power Unit.

First, discharge the Anode Lead of the CRT with the CRT Ground before removing the Anode Cap.  
Disconnect the following: Anode Cap, CN501, CRT

- CBA and CN571. Second, remove two screws (S-7). Then, pull the Power Unit backward.

- Removal of the H.V./Power Supply CBA.  
Remove four screws (S-8) and pull up the H.V./Power Supply CBA.

- Removal of the CRT.  
Remove four screws (S-9) and pull the CRT backward.



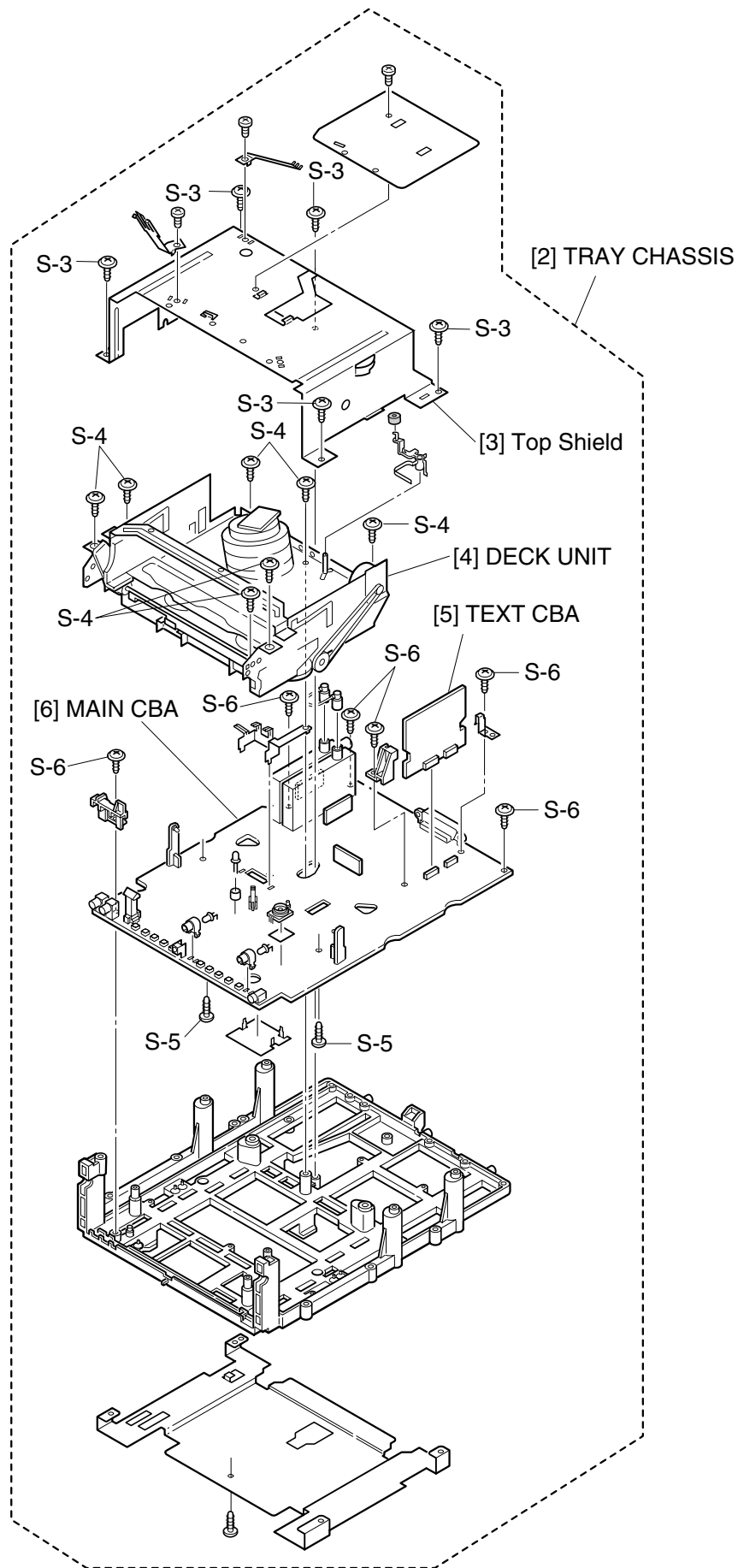


Fig. 3



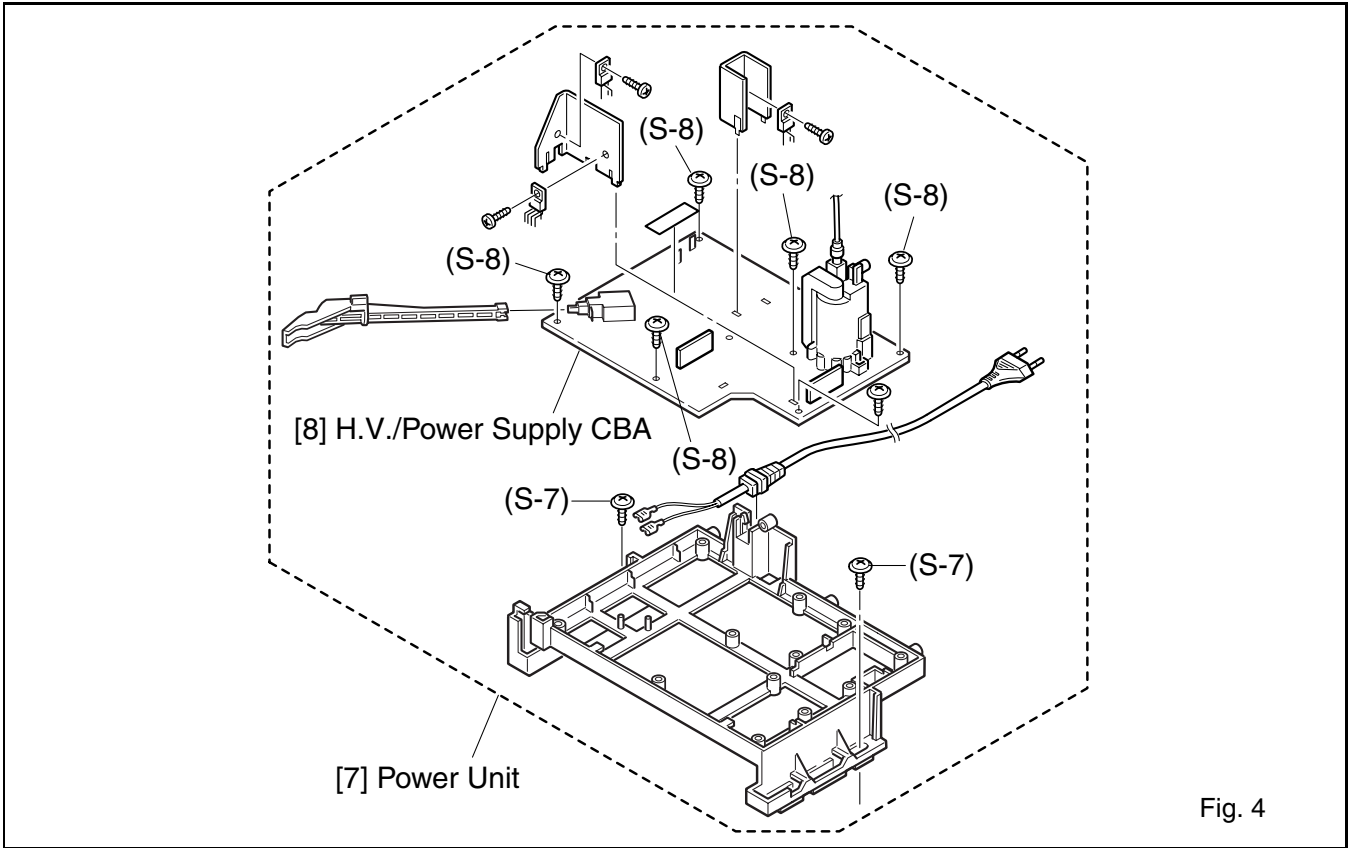


Fig. 4

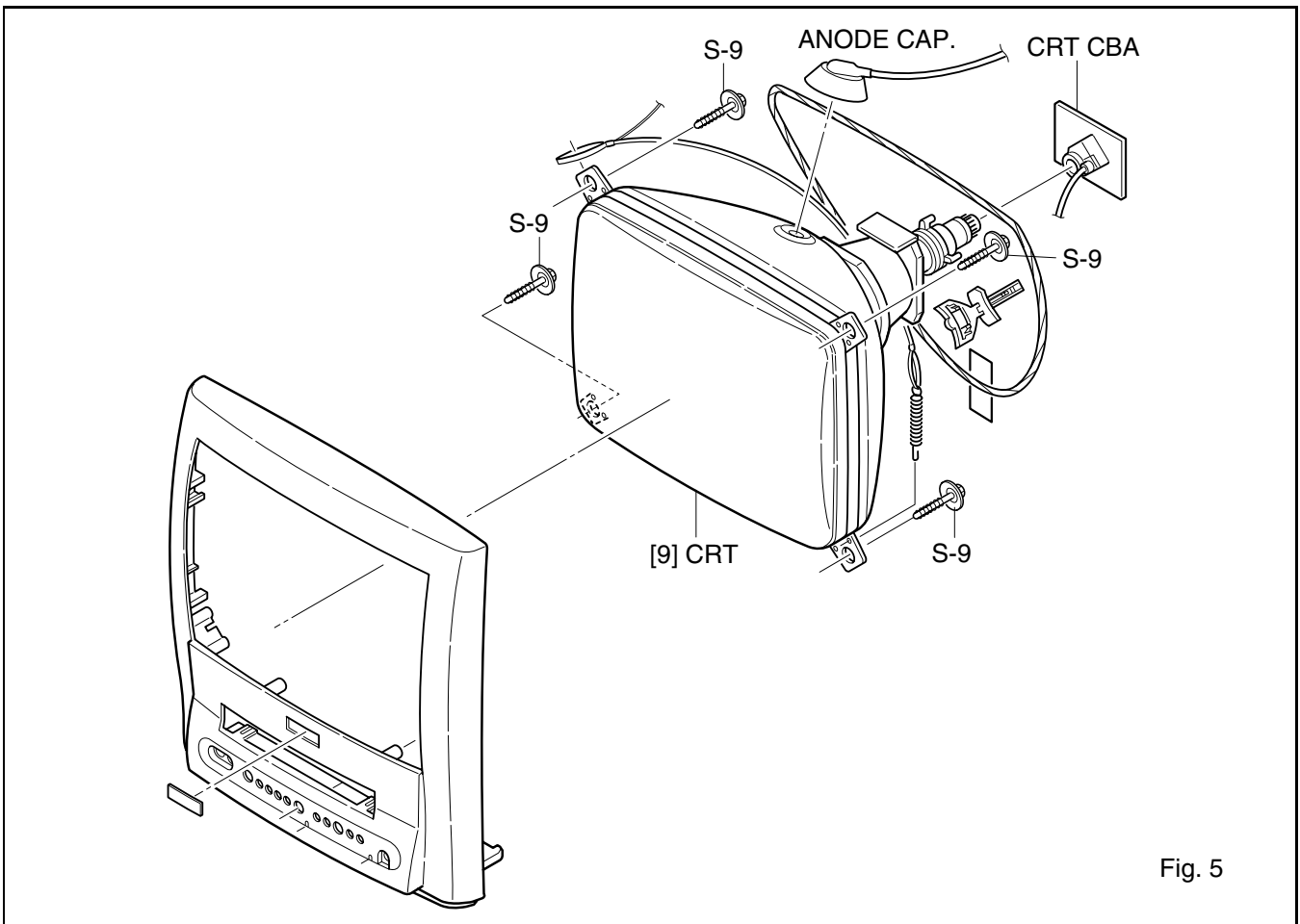


Fig. 5

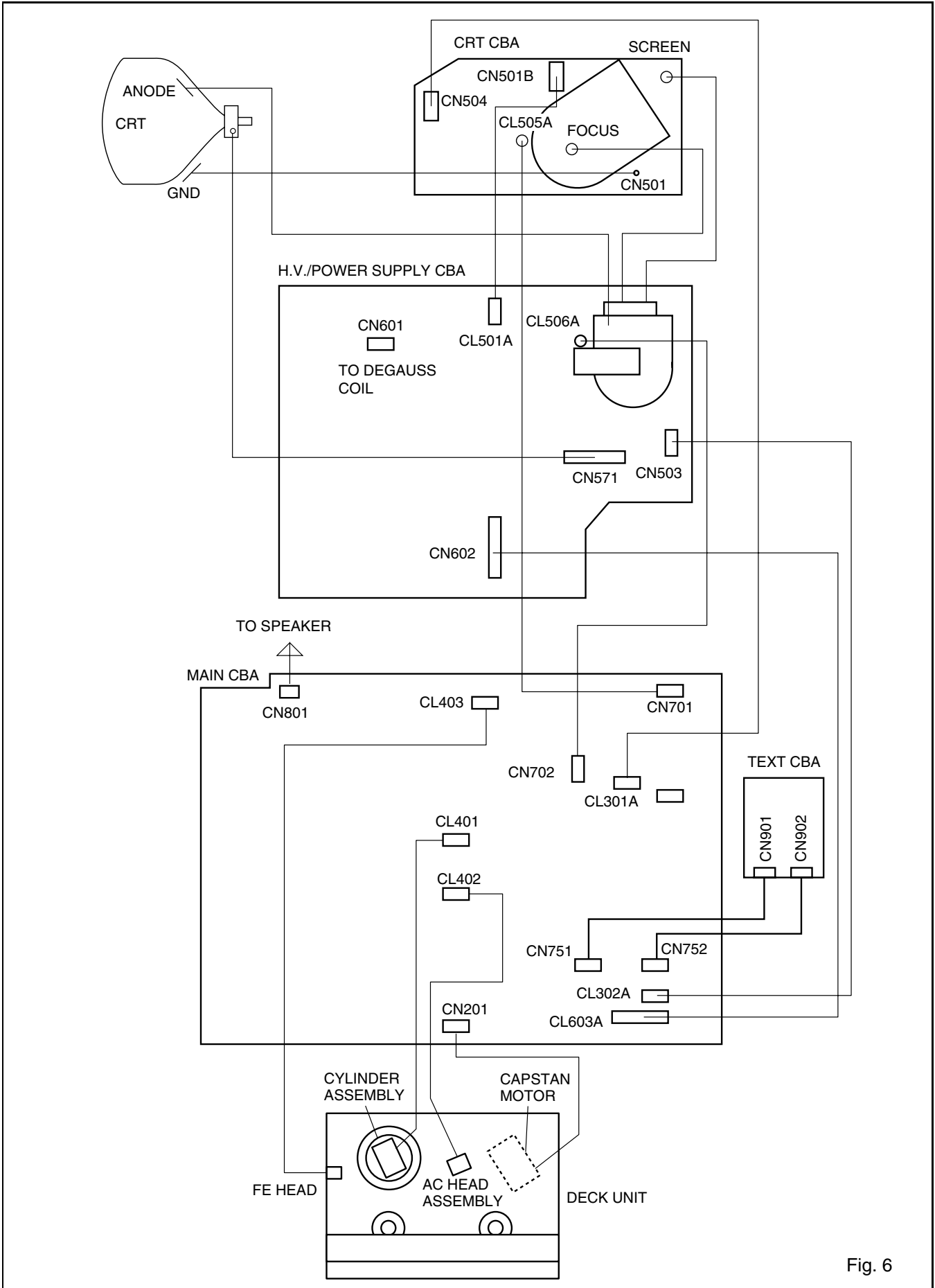


Fig. 6

# 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 W/White Window, Red Color, Dot Pattern, Gray Scale, Monoscope, Multi-Burst)
2. AC Milli Voltmeter (RMS)
3. Alignment Tape (FL6A), Blank Tape
4. DC Voltmeter
5. Oscilloscope: Dual-trace with 10:1 probe,  
V-Range: 0.001~50V/Div,  
F-Range: DC~AC-60MHz
6. Frequency Counter
7. Plastic Tip Driver

## 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/EXIT] button on the remote control unit. The option code appears on the display.
3. If needed, input the option code as shown below using number buttons on the remote control unit.

Model	Option Code
14PV360(365)/01	133566
14PV360(365)/07	133564
14PV360(365)/39	133565
14PV365/58	133567

4. To reset the software, press [PAUSE] and [5] buttons on the remote control unit.  
The option code is changed.

## 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	---	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.
2. Input a color bar signal from RF input and leave it for at least 20 minutes.  
Enter the Service mode. (See page 1-6-1.)
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.

## 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
R583	P+/P- buttons	Video	---
Tape	M. EQ.	Spec.	
---	Frequency Counter	15.625kHz±300Hz	

**Note:** R583 --- H.V./Power Supply CBA

1. Connect Frequency Counter to R583.
2. Set the unit to the VIDEO 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 [P+/P-] 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±300Hz.
6. Turn the power off and on again.

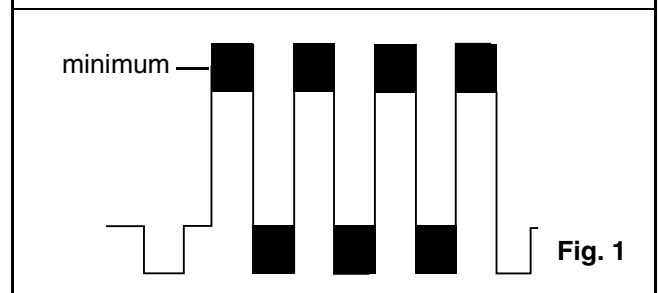
## 3. C-Trap Adjustment

**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
J219 (B-OUT)	P+/P- buttons	---	Color Bar
Tape	M. EQ.	Spec.	
---	Oscilloscope Pattern Generator	200mVp-p Max.	

Figure



**Note:** J219 (B-Out)--- Main CBA

1. Connect Oscilloscope to J219.
2. Input a color bar signal from RF 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 [P+/P-] 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. How to measure the standard V-ENV value of Digital Studio Picture Control

**Purpose:** To set the recording condition appropriate for the recording tape.

**Symptom of Misadjustment:** Recording or playing back picture quality may fall. The picture will be tinted.

1. Insert a new tape (type: TDK 180) for the DSPC alignment into the TV/VCR.
2. Input the black raster signal from the video input jack (VIDEO-IN).
3. Enter the Service Mode. (See page 1-6-1.)
4. To enter the DSPC mode, press [1] button on the remote control unit. Recording starts automatically and "DSPC" appears on the display.

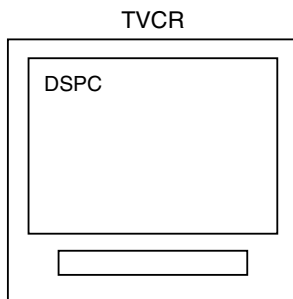


Fig. 2

5. Recording continues for 10 seconds in SP mode. After that, recording starts for 10 seconds in LP mode.
6. The tape is rewinded to the recording start point.
7. The unit enters the play mode automatically and the V-ENV levels of each SP and LP modes are memorized into the EEPROM.
8. "OK" appears on the screen with blueback for 5 seconds, the unit enters the stop mode, and is gone out from the factory mode.
9. If SYNC. and CTL are none, "NG" appears on the screen with blueback for 5 seconds, the unit ejects the cassette and is gone out from the factory mode. Or, also when the V-ENV level in either of the SP and LP mode is written, "NG" appears on the screen with blueback for 5 seconds, the unit ejects the cassette and is gone out from the factory model

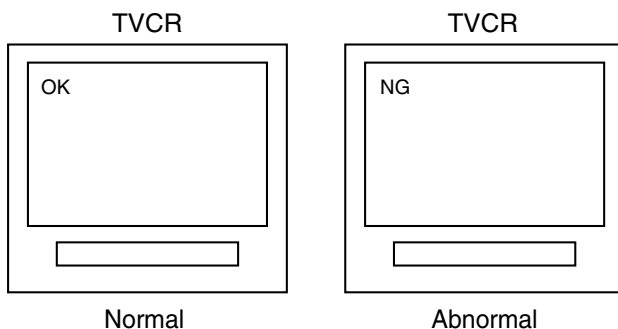


Fig. 3

## 5. 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
Pin 1 of CN303	P+/P- buttons	---	SECAM Gray Scale
Tape	M. EQ.	Spec.	
---	Pattern Generator	---	

1. Degauss the CRT and allow CRT to operate for 20 minutes before starting the alignment.
2. Input the SECAM Gray Scale signal from video input.
3. Enter the Service Mode. (See page 1-6-1.)
4. To enter the C/D/S mode, press [  $\blacktriangle$   $\blacktriangledown$  ] on the remote control unit.
5. To select SBR (SECAM Black Level R-Y), press [6] button on the remote control unit.
6. Press [P+/P-] 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 [P+/P-] buttons to adjust Y signal to the black ref. level.

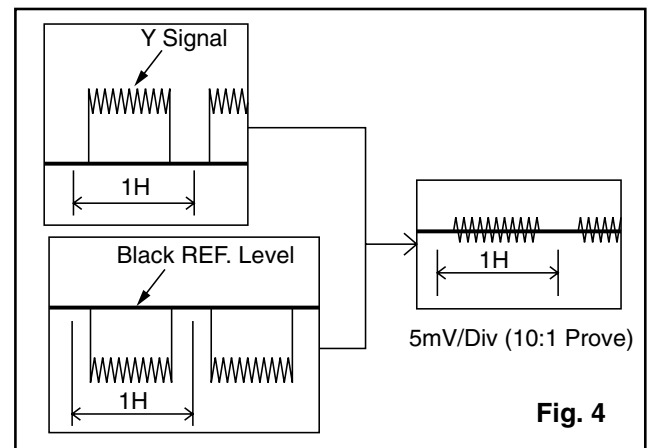


Fig. 4

## 6. 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	P+/P- buttons	---	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.
3. Press [P+/P-] buttons on the remote control unit so that the monoscope pattern is 90±5% of display size and the circle is round.

## 7. 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	P+/P- buttons	---	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.
3. Press [P+/P-] buttons on the remote control unit so that the top and bottom of the monoscope pattern are equal to each other.

## 8. 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	P+/P- buttons	---	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.
3. Press [P+/P-] 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.

## 9. 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 P+/P-buttons	Ext.	Black Raster
Tape	M. EQ.	Spec.	
---	Pattern Generator	See Reference Notes below	

Figure

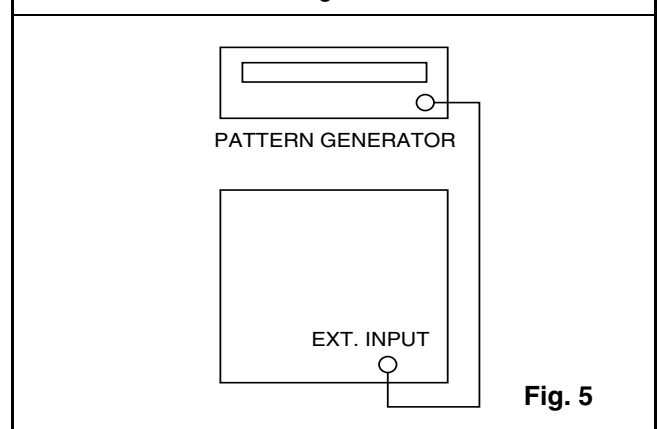


Fig. 5

**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 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 [  $\triangle$  ▼ ] 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 [P+/P-] buttons until the horizontal line becomes white.
8. To enter the C/D/S mode, press the [  $\triangle$  ▼ ] button on the remote control unit.
9. To enter the CUT OFF (G) mode, press [2] button on the remote control unit.
10. Press the [P+/P-] buttons until the horizontal line becomes white.
11. To enter the C/D/S mode, press the [  $\triangle$  ▼ ] button on the remote control unit.
12. To enter the CUT OFF (B) mode, press [3] button on the remote control unit.
13. Press the [P+/P-] buttons until the horizontal line becomes white.
14. Turn the screen control so that the horizontal line adjusted white looks lightly.
15. Turn the power off and on again.

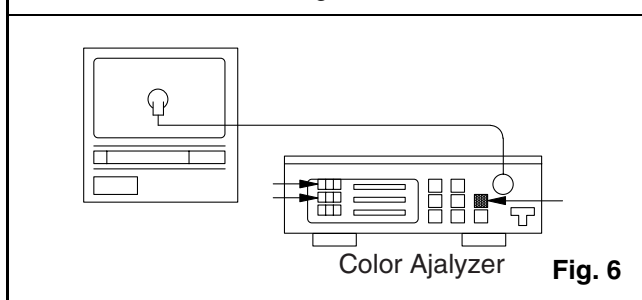
**10. White Balance Adjustment**

**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 P+/P- buttons	RF	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 [  $\triangle$  ▼ ] 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 [P+/P-] 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.

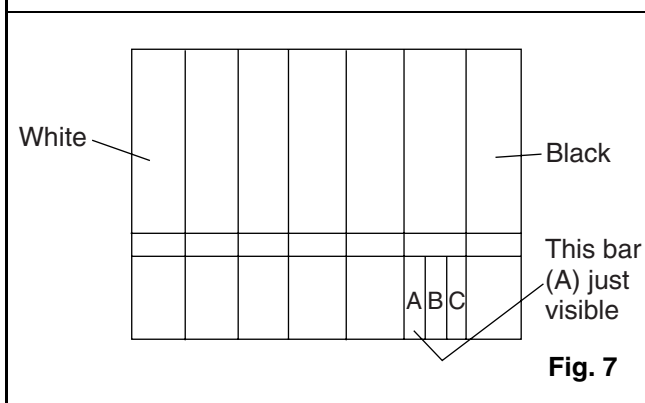
## 11. Sub-Brightness Adjustment

**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	P+/P- buttons	---	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 input.
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 [P+/P-] buttons so that the bar (A) in Fig. 7 is just visible.
3. Turn the power off and on again.

## 12. 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 [P+/P-] buttons on the remote control unit so that the value of "CONTRAST" (CNT) becomes 85.

### COLOR (COL)

1. Press "MENU" button on the remote control unit. Then select "COLOR" (CLR) display.
2. Press [P+/P-] buttons on the remote control unit so that the value of "COLOR" (COL) becomes 55.

### TINT (TNT)

1. Press "MENU" button on the remote control unit. Then select "TINT" (TNT) display.
2. Press [P+/P-] buttons on the remote control unit so that the value of "TINT" (TNT) becomes 57.

### SHARP (SHP)

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



### 13. 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	---	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.

### 14. Head Switching Position Adjustment

**Purpose:** Determine the Head Switching Point during Playback.

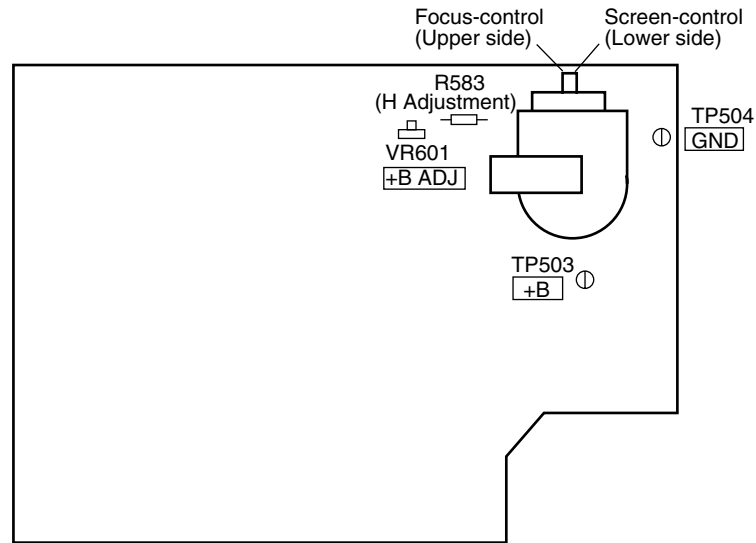
**Symptom of Misadjustment:** May cause Head Switching Noise or Vertical Jitter in the picture.

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

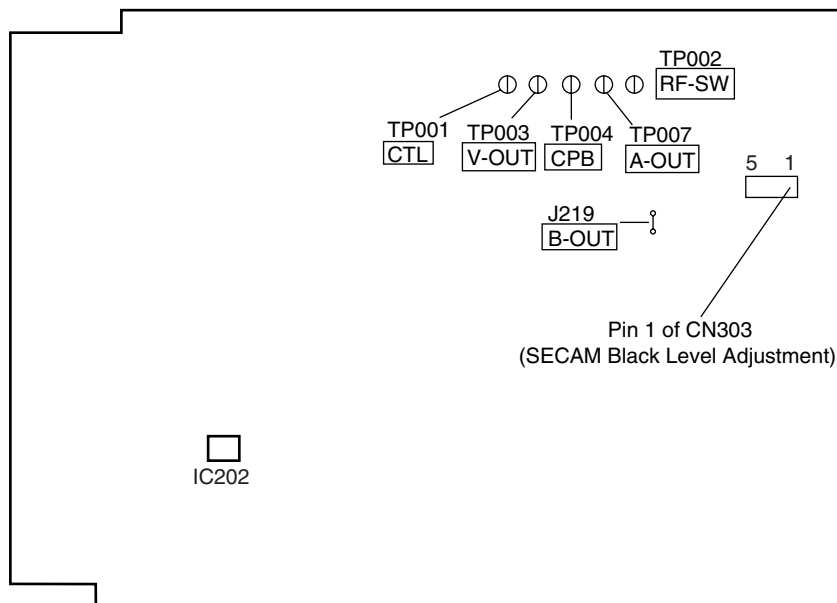
1. Enter the Service Mode. (See page 1-6-1.)  
Then press the number [5] button on the remote control unit.
2. Playback the test tape (FL6A).
3. The Head Switching position will display on the screen; if adjustment is necessary follow step 4. 6.5H(412.7µs) is preferable.
4. Press [P+/P-] buttons on the 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
5. Turn the power off and on again.

# Adjustment Points and Test Points

## H.V./Power Supply CBA Top View



## Main CBA Top View



### TEST POINT INFORMATION

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

### TEST POINTS NOT USED IN ELECTRICAL ADJUSTMENTS

Test Point	Used in:	Page No.
TP001	Mechanical Alignment Procedures	2-3-3
TP002	Mechanical Alignment Procedures	2-3-3, 2-3-4
TP004	Mechanical Alignment Procedures	2-3-3, 2-3-4
TP503	Electrical Adjustment Instructions	1-6-1
TP504	Electrical Adjustment Instructions	1-6-1



# Video Block Diagram

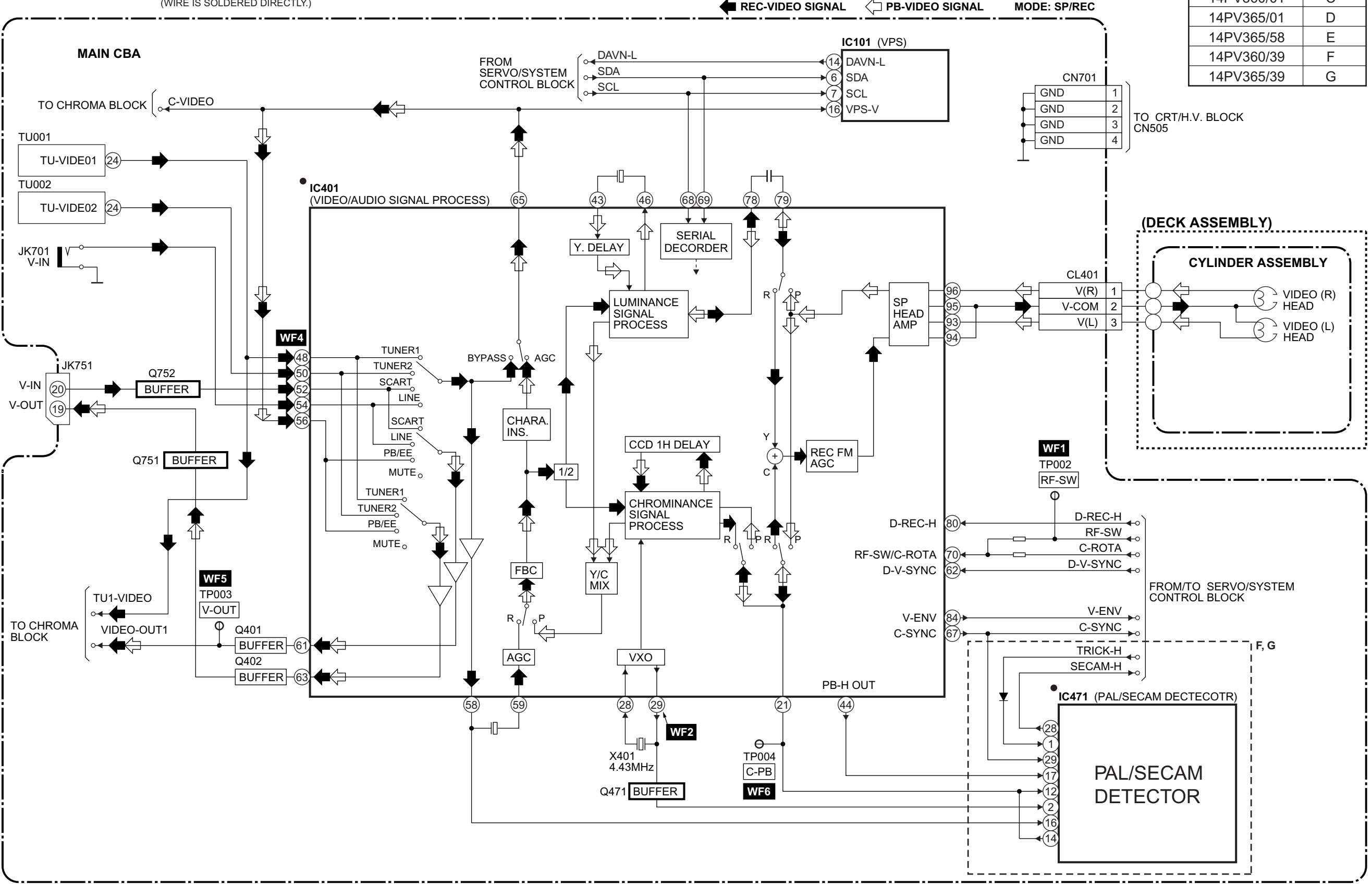
**NOTE FOR WIRE CONNECTORS:**  
 1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
 (CAN DISCONNECT AND RECONNECT.)  
 2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER  
 HOLES OF THE PCB.  
 (WIRE IS SOLDERED DIRECTLY.)

**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.

"●" = SMD

## Comparison Chart of Models & Marks

Model	Mark
14PV360/07	A
14PV365/07	B
14PV360/01	C
14PV365/01	D
14PV365/58	E
14PV360/39	F
14PV365/39	G



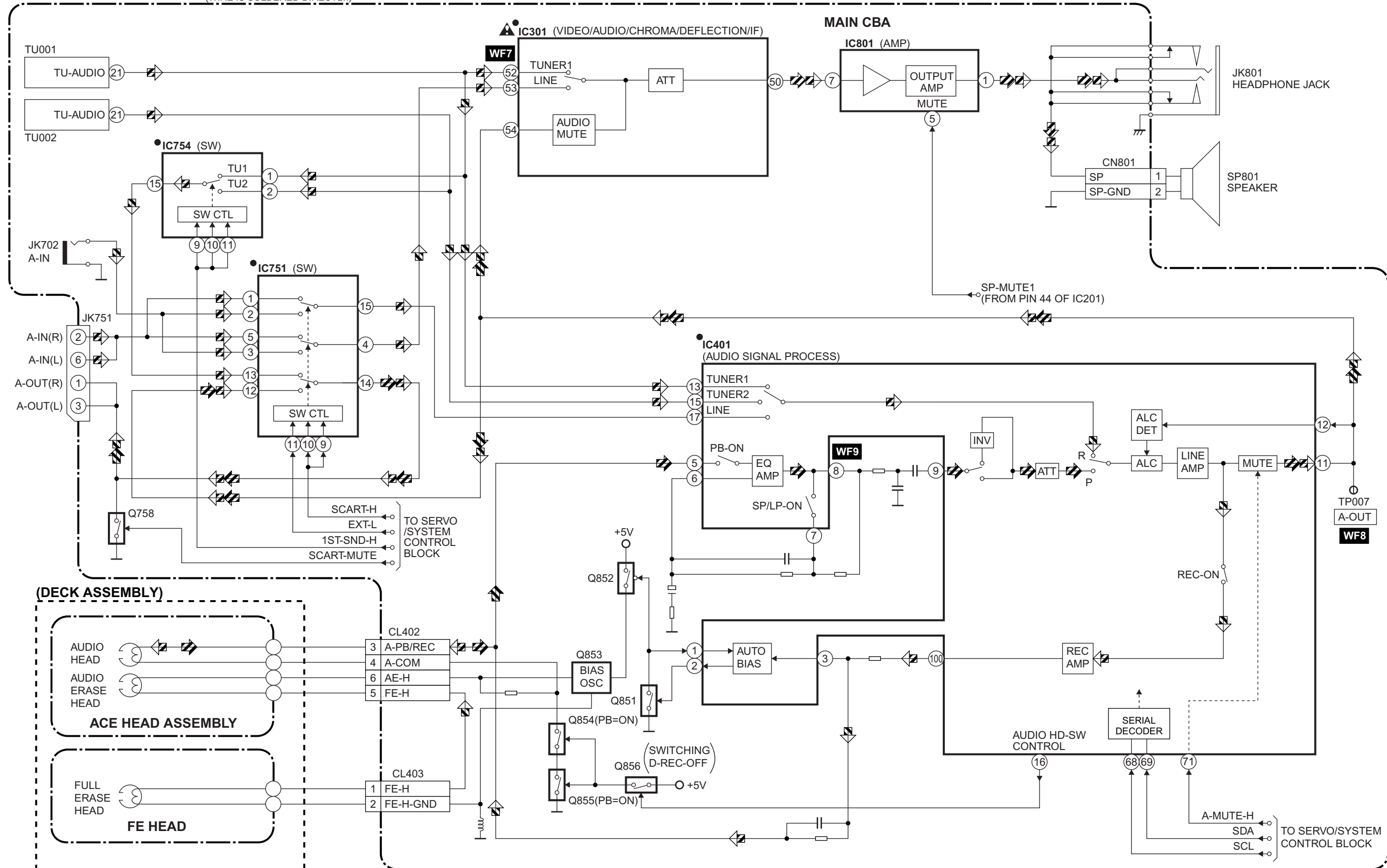
# Audio Block Diagram

**NOTE FOR WIRE CONNECTORS:**  
 1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
 (CAN DISCONNECT AND RECONNECT.)  
 2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER HOLES OF THE PCB.  
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 ● :USED TO INDICATE A TEST POINT WITH A TEST PIN.

● = SMD

↔ PB-AUDIO SIGNAL    ↔ REC-AUDIO SIGNAL    Mode : SP/REC



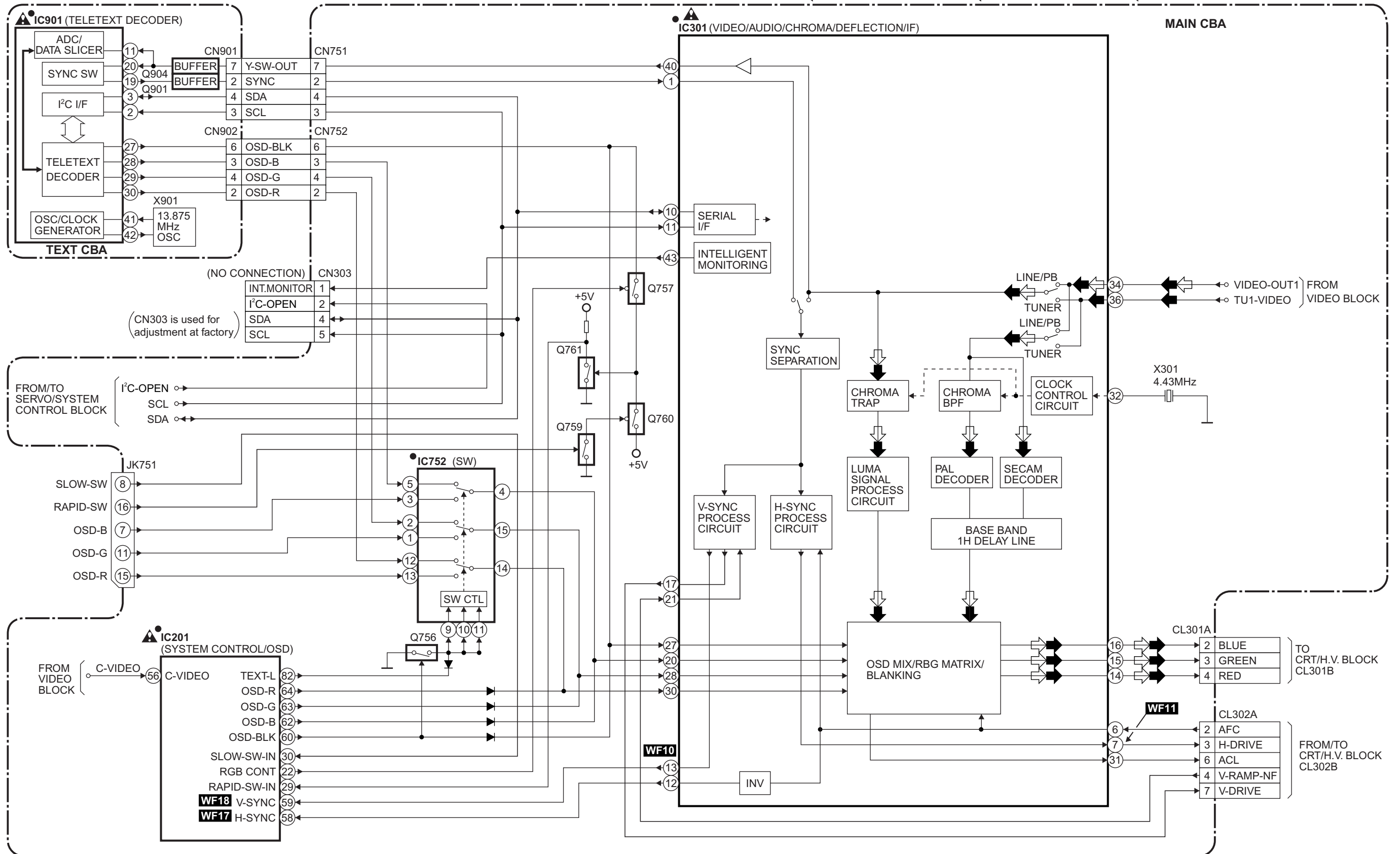
# Chroma Block Diagram

**NOTE FOR 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.)

**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.

"●" = SMD

← REC-AUDIO SIGNAL   ← REC VIDEO SIGNAL   ← PB VIDEO SIGNAL   Mode : SP/REC



# CRT/H.V. Block Diagram

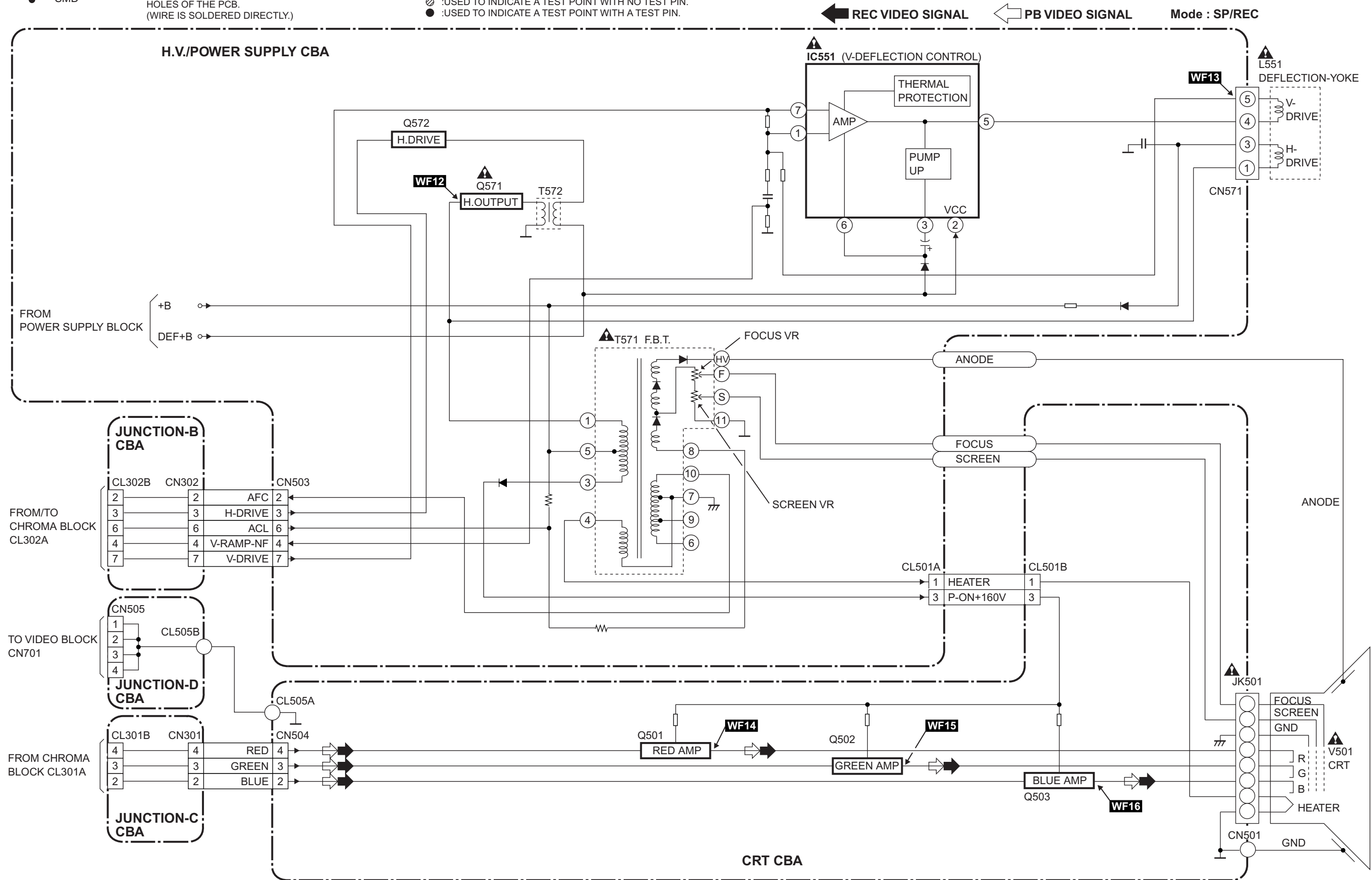
## NOTE FOR WIRE CONNECTORS:

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.)

"●" = SMD

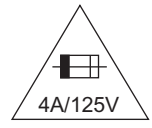
## TEST POINT INFORMATION

- ⊙ : INDICATES A TEST POINT WITH A JUMPER WIRE ACROSS A HOLE IN THE PCB.
- ⊞ : USED TO INDICATE A TEST POINT WITH A COMPONENT LEAD ON FOIL SIDE.
- ⊗ : USED TO INDICATE A TEST POINT WITH NO TEST PIN.
- : USED TO INDICATE A TEST POINT WITH A TEST PIN.



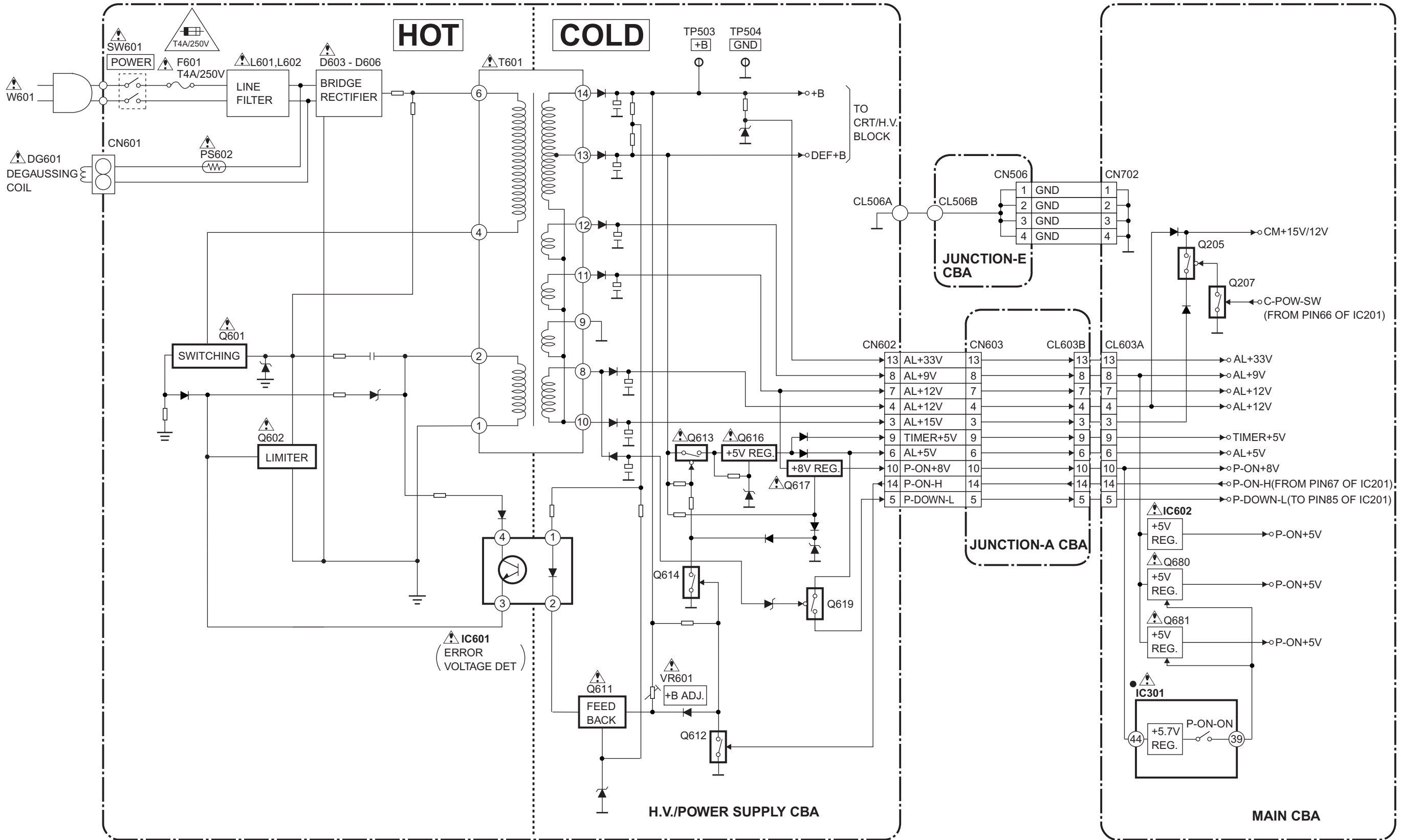
# Power Supply Block Diagram

**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.



**CAUTION**  
 FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,  
 REPLACE ONLY WITH THE SAME TYPE FUSE.  
 ATTENTION : POUR UNE PROTECTION CONTINUE LES RISQUES  
 D'INCELE N'UTILISER QUE DES FUSIBLE DE MEMO TYPE.  
**RISK OF FIRE-REPLACE FUSE AS MARKED.**  
 "This symbol means fast operating fuse."  
 "Ce symbole représente un fusible à fusion rapide."

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





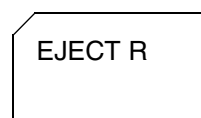
# MECHANICAL TROUBLE INDICATOR

## 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



## 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 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).

\* 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 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).

\* 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 laps 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

## Main 1/4 Schematic Diagram Parts Location Guide

### Standard Notes

#### WARNING

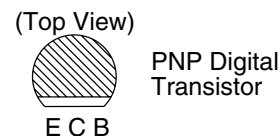
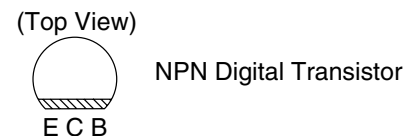
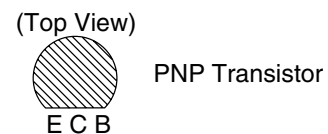
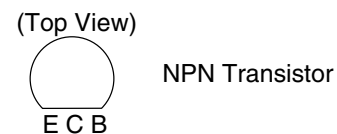
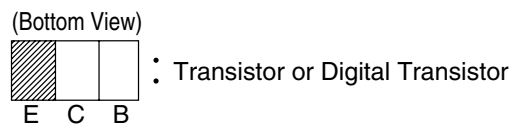
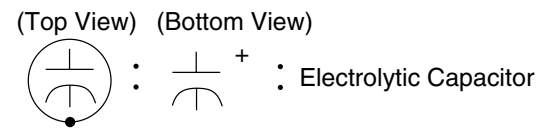
Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special 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.

#### Capacitor Temperature Markings

Mark	Capacity change rate	Standard temperature	Temperature range
(B)	±10%	20°C	-25~+85°C
(F)	+30 - 80%	20°C	-25~+85°C
(SR)	±15%	20°C	-25~+85°C
(Y)	±22.5%	20°C	-25~+85°C

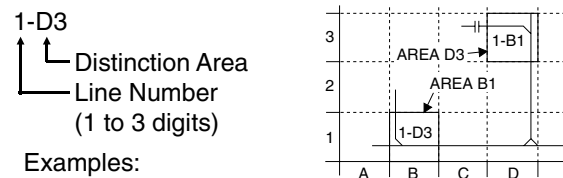
Capacitors and transistors are represented by the following symbols.

#### < PCB Symbols >



### Notes:

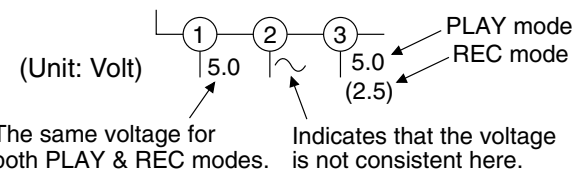
- Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
- To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.
- Prefix symbol "CN" means "connector" (can disconnect and reconnect). Prefix symbol "CL" means "wire-solder holes of the PCB" (wire is soldered directly).
- How to read converged lines.



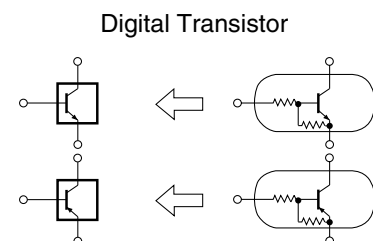
Examples:

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

- All resistance values are indicated in ohms ( $K=10^3$ ,  $M=10^6$ ).
- Resistor wattages are 1/4W or 1/6W unless otherwise specified.
- All capacitance values are indicated in  $\mu F$  ( $P=10^{-6} \mu F$ ).
- All voltages are DC voltages unless otherwise specified.
- Voltage indications for PLAY and REC modes on the schematics are as shown below.



#### < Schematic Diagram Symbols >



Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		DIODES		RESISTORS		RESISTORS	
C101	C-4	C247	E-5	D686	A-1	R218	A-4	R271	D-5
C102	C-4	C248	F-5	ICS		R219	A-4	R273	B-3
C103	B-5	C249	E-5	IC101	C-5	R220	A-4	R274	F-2
C104	B-5	C250	A-3	IC201	D-3	R221	C-3	R275	A-2
C105	C-5	C251	A-3	IC202	E-5	R222	C-3	R276	F-2
C106	C-5	C252	A-3	IC602	B-2	R223	C-3	R277	F-5
C107	B-5	C253	A-2	COILS		R224	C-4	R278	C-5
C201	C-4	C255	E-2	L101	C-5	R225	C-2	R283	C-4
C202	C-4	C256	F-2	L201	A-2	R226	C-3	R284	E-4
C203	C-4	C257	A-3	L202	F-2	R227	C-1	R285	F-4
C204	B-3	C259	D-5	L203	A-2	R228	C-2	R680	B-2
C205	B-3	C260	D-5	TRANSISTORS		R229	D-4	R681	B-2
C206	C-3	C261	A-2	Q201	A-4	R231	C-1	R682	B-1
C207	C-1	C262	C-4	Q202	A-5	R232	D-1	R683	B-1
C208	C-3	C681	B-2	Q205	A-2	R233	C-1	R684	B-1
C210	D-1	C682	B-1	Q206	E-4	R234	D-1	R685	B-1
C211	D-1	C683	B-1	Q207	A-2	R236	D-1	R686	B-1
C212	D-1	C684	B-1	Q208	D-1	R237	A-2	R687	B-1
C213	D-1	C685	B-1	Q680	B-1	R238	D-1	R688	B-2
C214	D-1	C687	B-1	Q681	B-1	R239	D-1	SWITCHES	
C215	D-1	CONNECTORS		Q682	B-2	R240	D-1	SW201	B-4
C216	D-1	CN201	A-3	RESISTORS		R241	D-2	SW202	A-4
C217	D-1	CL603A	A-1	R102	C-4	R242	E-1	SW203	A-4
C218	D-1	DIODES		R103	C-4	R243	A-2	SW204	A-4
C219	D-1	D201	C-3	R104	C-5	R244	A-2	SW205	A-4
C220	E-2	D202	C-2	R105	C-5	R245	E-1	SW206	B-3
C221	E-1	D203	C-2	R106	C-5	R246	F-2	SW207	A-3
C222	E-2	D206	E-5	R107	B-5	R247	E-2	SW208	A-3
C223	F-2	D207	E-5	R201	C-4	R248	E-2	SW209	A-3
C224	F-2	D208	A-2	R202	C-4	R249	E-2	SW210	A-3
C225	F-2	D210	A-3	R203	C-4	R250	E-2	SW211	C-2
C232	F-4	D211	B-3	R204	C-4	R257	E-3	SW212	A-4
C233	F-4	D212	E-4	R205	B-4	R258	E-3	TEST POINTS	
C234	E-4	D213	D-5	R206	B-4	R259	F-5	TP001	D-5
C235	E-5	D214	C-4	R207	A-4	R260	F-5	TP002	C-3
C236	E-4	D215	C-4	R208	A-4	R261	F-5	CRYSTAL OSCILLATORS	
C237	D-5	D216	E-1	R209	A-4	R262	F-5	X201	D-1
C238	D-5	D217	E-1	R210	B-3	R263	E-4	X202	D-1
C239	D-4	D218	C-4	R211	B-3	R264	F-4	MISCELLANEOUS	
C240	D-5	D680	C-2	R212	A-3	R265	E-4	CF101	B-4
C241	D-4	D681	C-1	R213	A-3	R266	F-4	PI201	F-4
C242	D-5	D682	B-2	R214	A-3	R267	F-4	RS201	C-2
C243	D-4	D683	C-1	R215	B-4	R268	E-5		
C245	D-5	D684	C-1	R216	B-4	R269	E-5		
C246	E-5	D685	B-2	R217	A-4	R270	D-4		

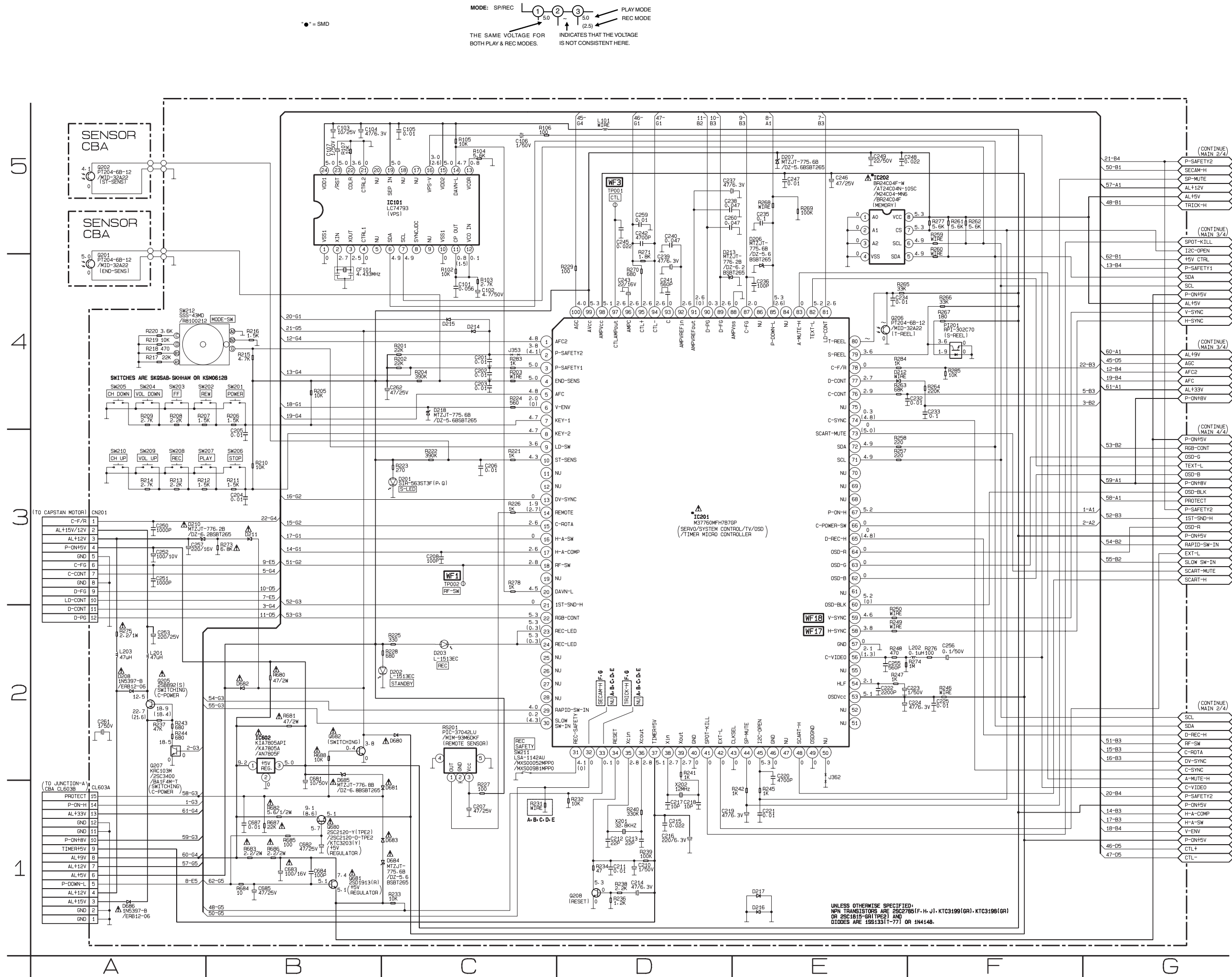
#### VOLTAGE CHART (Power off mode)

Ref. No.	1	2	3
IC602	3.2	0	1.9
Ref. No.	E	C	B
Q680	1.6	3.2	2.1
Q681	2.1	3.1	1.5
Q682	0	1.0	0

Main 1/4 Schematic Diagram

Comparison Chart of Models and Marks

MODEL	MARK
14PV360/07	A
14PV365/07	B
14PV360/01	C
14PV365/01	D
14PV365/58	E
14PV360/39	F
14PV365/39	G



5

4

3

2

1

A

B

C

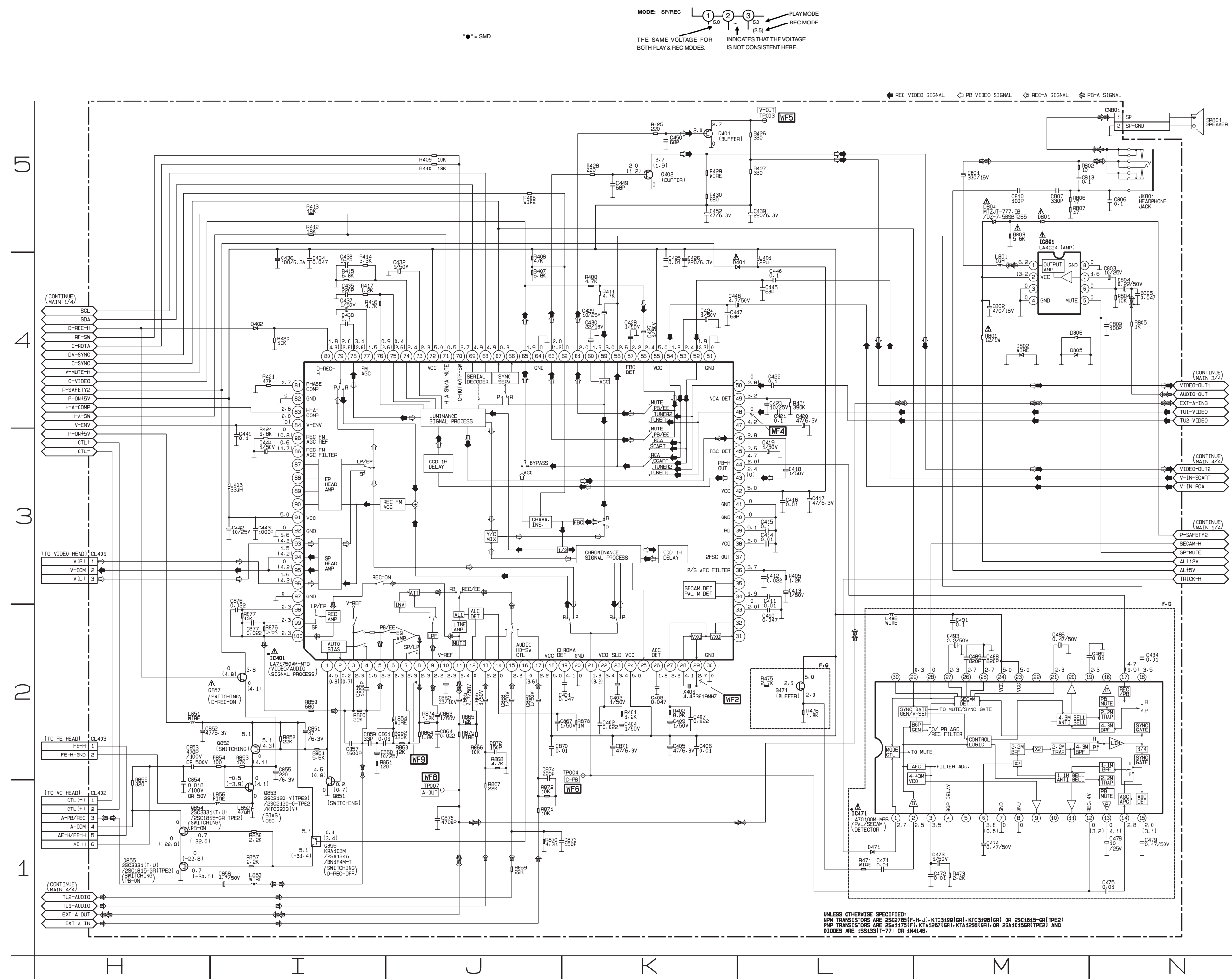
D

E

F

G

Main 2/4 Schematic Diagram



Comparison Chart of Models and Marks

MODEL	MARK
14PV360/07	A
14PV365/07	B
14PV360/01	C
14PV365/01	D
14PV365/58	E
14PV360/39	F
14PV365/39	G

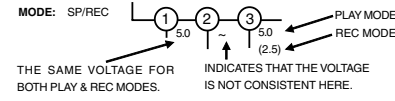
### Main 2/4 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		CAPACITORS		RESISTORS		RESISTORS	
C401	J-2	C452	K-5	C874	J-2	R406	J-5	R867	J-1
C402	K-2	C471	L-1	C875	J-1	R407	J-4	R868	J-2
C403	K-2	C472	M-1	C876	I-3	R408	J-4	R869	J-1
C404	K-2	C473	M-1	C877	I-2	R409	J-5	R870	J-1
C405	K-2	C474	M-1	CONNECTORS		R410	J-5	R871	J-1
C406	K-2	C475	N-1	CN801	N-5	R411	K-4	R872	J-1
C407	K-2	C478	N-1	CL401	H-3	R412	I-5	R874	J-2
C408	K-2	C479	N-1	CL402	H-1	R413	I-5	R875	J-2
C409	K-2	C484	N-2	CL403	H-2	R414	I-4	R876	I-2
C410	L-2	C485	N-2	DIODES		R415	I-4	R877	I-2
C411	L-3	C486	M-2	D401	K-4	R416	I-4	R878	K-2
C412	L-3	C488	M-2	D402	I-4	R417	I-4	CRYSTAL OSCILATOR	
C413	L-3	C489	M-2	D471	L-1	R420	I-4	X401	K-2
C414	L-3	C491	M-2	D801	M-5	R421	I-4	TEST POINTS	
C415	L-3	C493	M-2	D802	M-4	R424	I-3	TP003	L-5
C416	L-3	C801	M-5	D804	M-5	R425	K-5	TP004	K-2
C417	L-3	C802	M-4	D805	M-4	R426	L-5	TP007	J-1
C418	L-3	C803	N-4	D806	M-4	R427	L-5	MISCELLANEOUS	
C419	L-3	C804	N-4	ICS		R428	K-5	JK801	N-5
C420	L-4	C805	N-4	IC401	I-2	R429	K-5		
C421	L-4	C806	N-5	IC471	L-1	R430	K-5		
C422	L-4	C807	M-5	IC801	M-5	R431	L-4		
C423	L-4	C809	N-4	COILS		R471	L-1		
C424	K-4	C810	M-5	L401	L-4	R473	M-1		
C425	K-4	C813	M-5	L403	I-3	R475	L-2		
C426	K-4	C851	I-2	L485	L-2	R476	L-2		
C427	K-4	C852	H-2	L801	M-4	R801	M-5		
C428	K-4	C853	H-2	L851	H-2	R802	M-5		
C429	K-4	C854	H-1	L852	I-1	R803	M-5		
C430	K-4	C855	I-2	L853	I-1	R804	N-4		
C432	J-4	C856	J-2	L854	J-2	R805	N-4		
C433	I-4	C857	I-2	L856	I-1	R806	M-5		
C434	I-4	C858	I-1	TRANSISTORS		R807	M-5		
C435	I-4	C859	I-2	Q401	K-5	R851	I-2		
C436	I-4	C860	I-2	Q402	K-5	R852	I-2		
C437	I-4	C861	I-2	Q471	L-2	R853	I-2		
C438	I-4	C862	J-2	Q851	I-1	R854	I-2		
C439	I-5	C863	J-2	Q852	I-2	R855	H-2		
C441	I-3	C864	J-2	Q853	I-1	R856	I-1		
C442	I-3	C865	J-2	Q854	H-1	R857	I-1		
C443	I-3	C866	J-2	Q855	H-1	R859	I-2		
C444	I-3	C867	J-2	Q856	I-1	R860	I-2		
C445	L-4	C868	J-1	Q857	I-2	R861	I-2		
C446	L-4	C869	J-1	RESISTORS		R862	J-2		
C447	K-4	C870	J-2	R400	K-4	R863	J-2		
C448	K-4	C871	K-2	R401	K-2	R864	J-2		
C449	K-5	C872	J-2	R402	K-2	R865	J-2		
C450	K-5	C873	K-1	R405	L-3	R866	J-2		

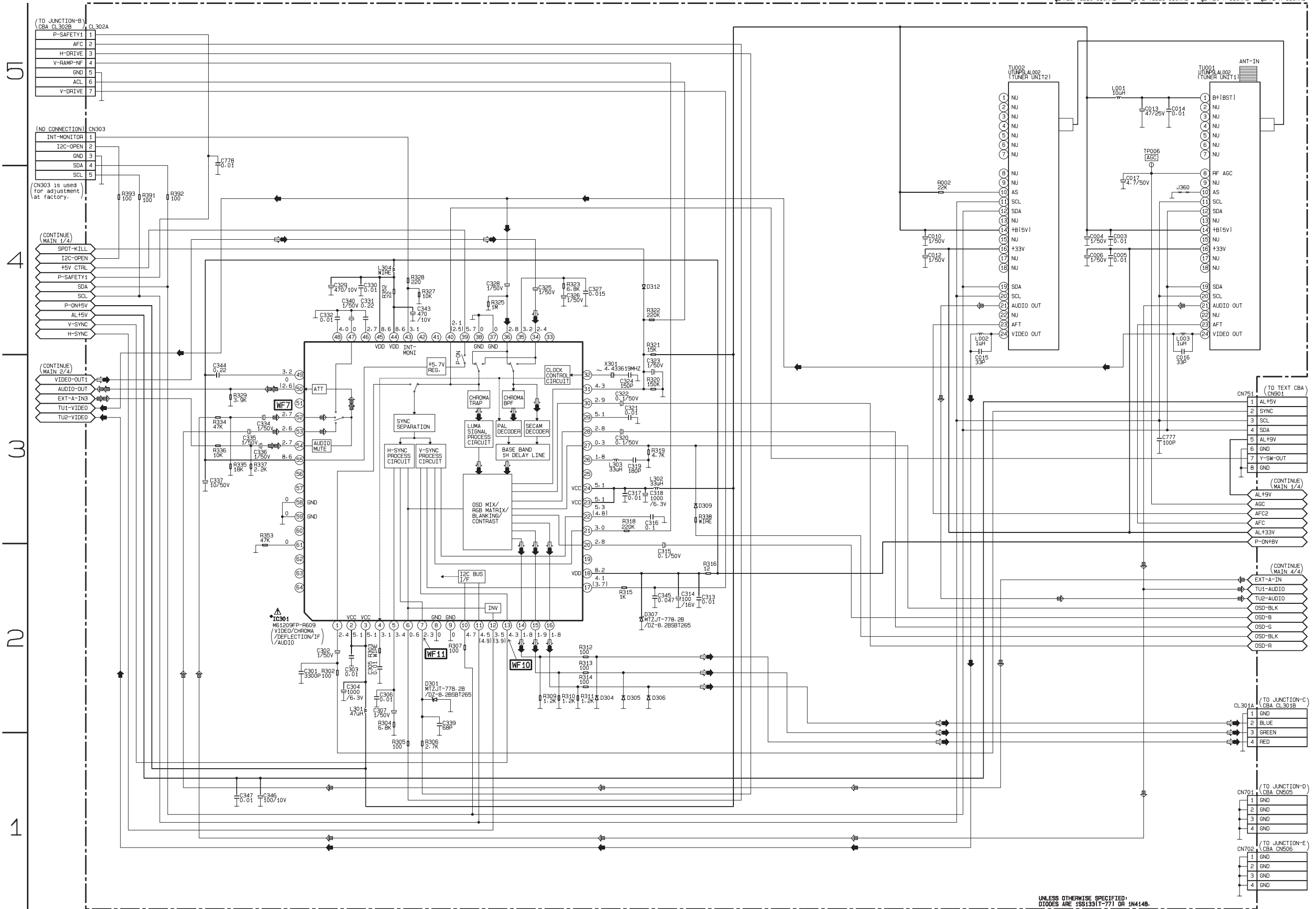
### Main 3/4 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		DIODES		RESISTORS	
C003	S-4	C323	R-3	D301	Q-2	R314	Q-2
C004	S-4	C324	R-3	D304	R-2	R315	R-2
C005	S-4	C325	Q-4	D305	R-2	R316	R-3
C006	S-4	C326	Q-4	D306	R-2	R318	R-3
C009	T-4	C327	Q-4	D307	R-2	R319	R-3
C010	T-4	C328	Q-4	D309	R-3	R320	R-3
C011	T-4	C329	P-4	D312	R-4	R321	R-4
C012	T-4	C330	P-4	IC		R322	R-4
C013	T-5	C331	P-4	IC301	P-2	R323	Q-4
C014	U-5	C332	P-4	COILS		R325	Q-4
C015	T-4	C334	P-3	L001	T-5	R327	Q-4
C016	U-3	C335	P-3	L002	T-4	R328	Q-4
C017	T-4	C336	P-3	L003	U-4	R329	P-3
C301	P-2	C337	O-3	L301	P-2	R334	O-3
C302	P-2	C339	Q-2	L302	R-3	R335	P-3
C303	P-2	C340	P-4	L303	R-3	R336	O-3
C304	P-2	C343	Q-4	L304	P-4	R337	P-3
C305	P-2	C344	O-3	RESISTORS		R338	R-3
C306	P-2	C345	R-2	R002	S-4	R352	P-4
C307	P-2	C346	P-1	R302	P-2	R353	P-3
C313	R-2	C347	P-1	R303	P-2	R391	O-4
C314	R-2	C777	U-3	R304	P-2	R392	O-4
C315	R-2	C778	P-5	R305	P-1	R393	O-4
C316	R-3	CONNECTORS		R306	Q-1	CRYSTAL OSCILATOR	
C317	R-3	CN303	O-5	R307	Q-2	X301	R-3
C318	R-3	CN701	U-1	R309	Q-2	MISCELLANEOUS	
C319	R-3	CN702	U-1?	R310	Q-2	TU001	U-5
C320	R-3	CN751	U-3	R311	Q-2	TU002	F-5
C321	R-3	CL301A	U-2	R312	Q-2	TEST POINTS	
C322	R-3	CL302A	O-5	R313	Q-2	TP006	T-5

Main 3/4 Schematic Diagram



• = SMD

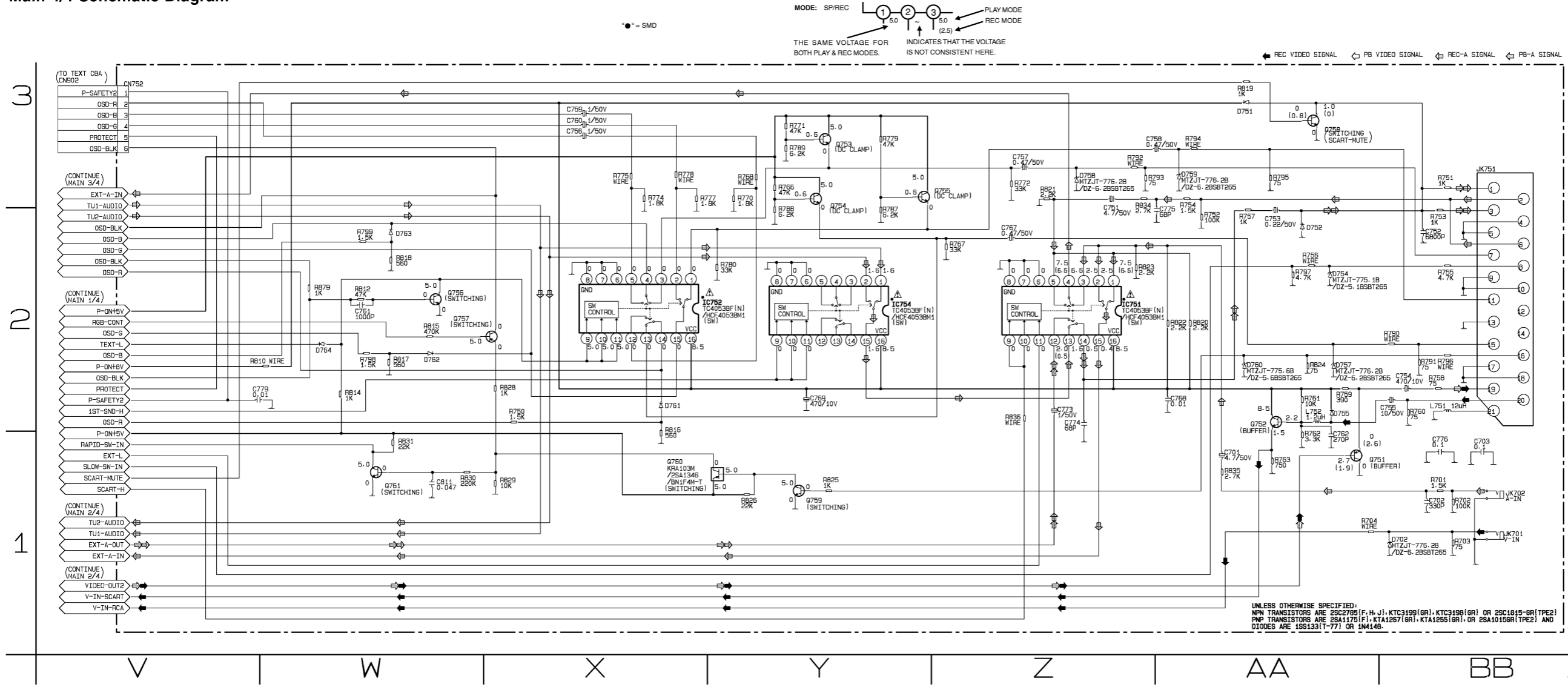


UNLESS OTHERWISE SPECIFIED: DIODES ARE 1SS133(1-77) OR 1N4148.

0  
4  
3  
2  
1

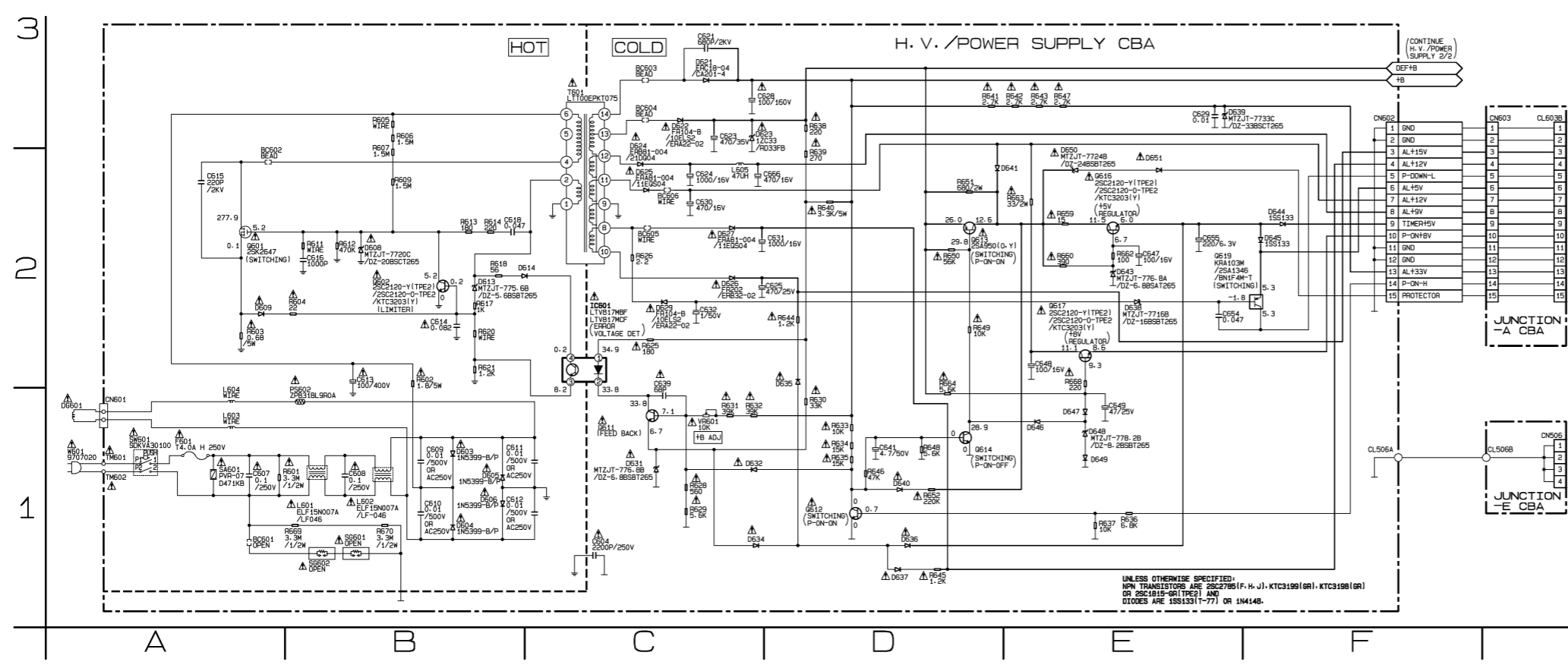
O      P      Q      R      S      T      U

Main 4/4 Schematic Diagram



T6300SCM4

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



**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.

**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.

**VOLTAGE CHART (Power off mode)**

Ref. No.	1	2	3	4
IC601	13.3	12.2	0.1	0.8
Ref. No.	S	D	G	
Q601	0	279.2	2.8	
Ref. No.	E	C	B	
Q602	0	2.8	0	
Q611	6.7	12.2	7.0	
Q612	0	7.6	0	
Q613	9.4	9.3	8.6	
Q614	0	0	0.7	
Q616	5.9	8.0	6.6	
Q617	3.7	5.4	1.4	
Q619	5.1	5.1	-1.6	

### Main 4/4 & H.V./Power Supply 1/2 Schematic Diagram Parts Location Guide

MAIN 4/4 SCHEMATIC DIAGRAM PARTS LOCATION GUIDE

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		DIODES		TRANSISTORS		RESISTORS		RESISTORS	
C701	AA-1	D702	BB-1	Q756	W-2	R767	Z-2	R814	W-2
C702	BB-1	D751	AA-3	Q757	W-2	R768	Y-3	R815	W-2
C703	BB-1	D752	AA-2	Q758	AA-3	R770	Y-3	R816	X-2
C751	Z-3	D754	AA-2	Q759	Y-1	R771	Y-3	R817	W-2
C752	BB-2	D755	AA-2	Q760	X-1	R772	Z-3	R818	W-2
C753	AA-2	D757	AA-2	Q761	W-1	R774	X-3	R819	AA-3
C754	BB-2	D758	Z-3	RESISTORS		R775	X-3	R820	AA-2
C755	BB-2	D759	AA-3	R701	BB-1	R777	X-3	R821	Z-3
C756	X-3	D760	AA-2	R702	BB-1	R778	X-3	R822	AA-2
C757	Z-3	D761	X-2	R703	BB-1	R779	Y-3	R823	Z-2
C758	Z-3	D762	W-2	R704	AA-1	R780	Y-2	R824	AA-2
C759	X-3	D763	W-2	R750	X-2	R787	Y-3	R825	Y-1
C760	X-3	D764	W-2	R751	BB-3	R788	Y-3	R826	Y-1
C761	W-2	ICS		R752	AA-2	R789	Y-3	R828	X-2
C762	AA-1	IC751	Z-2	R753	BB-2	R790	BB-2	R829	X-1
C767	Z-2	IC752	X-2	R754	AA-3	R791	BB-2	R830	W-1
C768	AA-2	IC754	Y-2	R755	BB-2	R792	Z-3	R831	W-1
C769	Y-2	COILS		R756	AA-2	R793	Z-3	R834	Z-3
C773	Z-2	L751	BB-2	R757	AA-2	R794	AA-3	R835	AA-1
C774	Z-2	L752	AA-2	R758	BB-2	R795	AA-3	R836	Z-2
C775	AA-2	TRANSISTORS		R759	AA-2	R796	BB-2	R879	W-2
C776	BB-1	Q751	AA-1	R760	BB-2	R797	AA-2	MISCELLANEOUS	
C779	V-2	Q752	AA-2	R761	AA-2	R798	W-2	JK701	BB-1
C811	W-1	Q753	Y-3	R762	AA-1	R799	W-2	JK702	BB-1
CONNECTOR		Q754	Y-3	R763	AA-1	R810	V-2	JK751	BB-3
CN752	V-3	Q755	Z-3	R766	Y-3	R812	W-2		

H.V./POWER SUPPLY 1/2 SCHEMATIC DIAGRAM PARTS LOCATION GUIDE

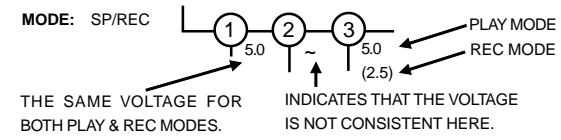
Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CONNECTORS		DIODES		TRANSISTORS		RESISTORS	
C604	C-1	CL506A	F-1	D646	E-1	R609	B-2	R649	D-2
C607	A-1	CL506A	F-1	D647	E-1	R611	B-2	R650	D-2
C608	B-1	DIODES		D648	E-1	R612	B-2	R651	D-2
C609	B-1	D603	B-1	D649	E-1	R613	B-2	R652	D-1
C610	B-1	D604	B-1	D650	E-2	R614	B-2	R659	E-2
C611	B-1	D605	B-1	D651	E-2	R617	B-2	R660	E-2
C612	B-1	D606	B-1	IC		R618	B-2	R662	E-2
C613	B-2	D608	B-2	IC601	C-2	R620	B-2	R663	E-2
C614	B-2	D609	A-2	COILS		R621	B-2	R664	D-2
C615	A-2	D613	B-2	L601	B-1	R625	C-2	R668	E-2
C616	B-2	D614	B-2	L602	B-1	R626	C-2	R669	B-1
C618	B-2	D621	C-3	L603	A-1	R628	C-1	R670	B-1
C621	C-3	D622	C-3	L604	A-1	R629	C-1	SWITCH	
C623	C-3	D623	C-3	L605	C-2	R630	D-1	SW601	A-1
C624	C-2	D624	C-3	TRANSISTORS		R631	C-1	MISCELLANEOUS	
C625	D-2	D625	C-2	Q601	A-2	R632	C-1	BC602	A-2
C628	C-3	D626	C-2	Q602	B-2	R633	D-1	BC603	C-3
C629	E-3	D627	C-2	Q611	C-1	R634	D-1	BC604	C-3
C630	C-2	D629	C-2	Q612	D-1	R635	D-1	BC605	C-2
C631	D-2	D631	C-1	Q613	D-2	R636	E-1	BC606	C-2
C632	C-2	D632	C-1	Q614	D-1	R637	E-1	F601	A-1
C639	C-2	D634	C-1	Q616	E-2	R638	D-3	PS602	B-1
C641	D-1	D635	D-2	Q617	E-2	R639	D-2	SA601	A-1
C647	E-2	D636	D-1	Q619	E-2	R640	D-2	T601	C-3
C648	E-2	D637	D-1	RESISTORS		R641	D-3	TM601	A-1
C649	E-1	D638	E-2	R601	A-1	R642	E-3	TM602	A-1
C654	E-2	D639	E-3	R602	B-2	R643	E-3	VARIABLE RESISTOR	
C655	E-2	D640	D-1	R603	A-2	R644	D-2	VR601	C-1
C666	D-2	D641	D-2	R604	B-2	R645	D-1		
CONNECTORS		D643	E-2	R605	B-3	R646	D-1		
CN602	F-3	D644	F-2	R606	B-3	R647	E-3		
CN601	A-1	D645	F-2	R607	B-3	R648	D-1		

### H.V./Power Supply 2/2 Schematic Diagram Parts Location Guide

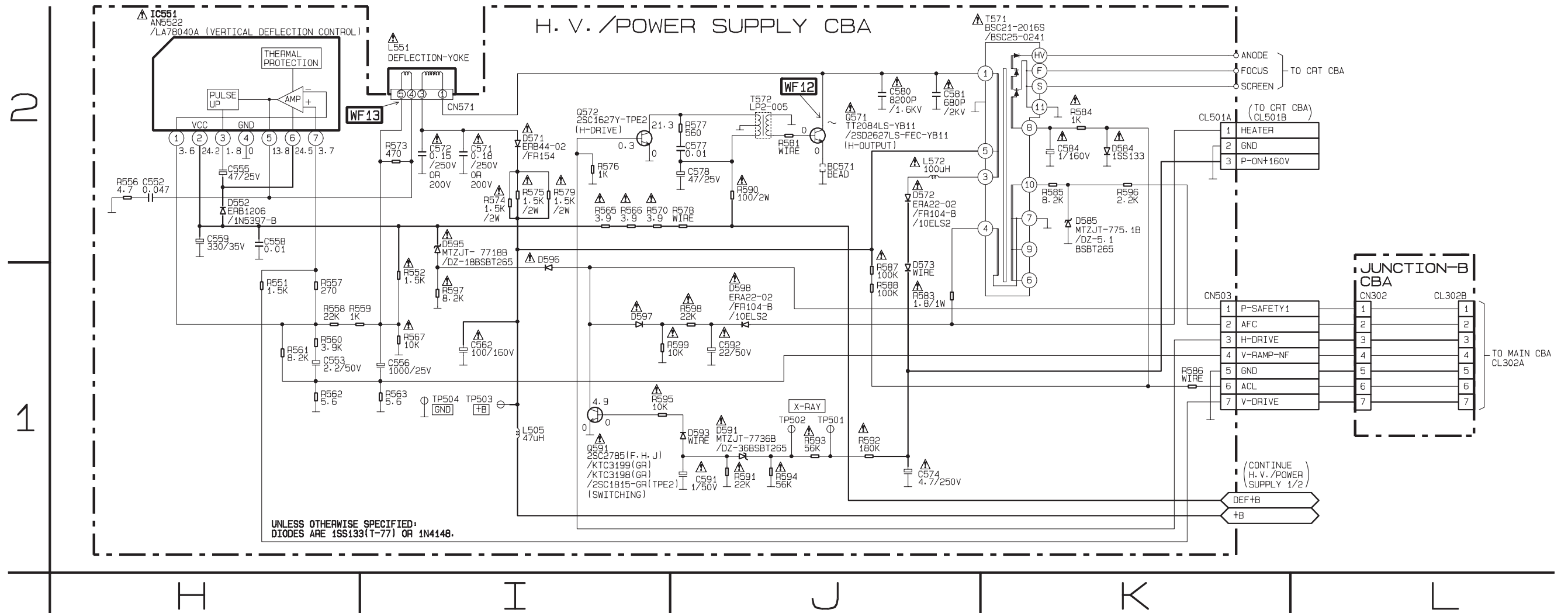
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CAPACITORS		DIODES		RESISTORS		RESISTORS	
C552	H-2	D571	I-2	R557	H-1	R588	J-1
C553	H-1	D572	J-2	R558	H-1	R590	J-2
C555	H-2	D573	J-1	R559	H-1	R591	J-1
C556	I-1	D584	K-2	R560	H-1	R592	J-1
C558	H-2	D585	K-2	R561	H-1	R593	J-1
C559	H-2	D591	J-1	R562	H-1	R594	J-1
C562	I-1	D593	J-1	R563	I-1	R595	I-1
C571	I-2	D595	I-2	R565	I-2	R596	K-2
C572	I-2	D596	I-2	R566	I-2	R597	I-1
C574	J-1	D597	I-1	R567	I-1	R598	J-1
C577	J-2	D598	J-1	R570	I-2	R599	J-1
C578	J-2	IC		R573	I-2	MISCELLANEOUS	
C580	J-2	IC551	H-1	R574	I-2	BC571	J-2
C581	J-2	COILS		R575	I-2	T571	K-2
C584	K-2	L505	I-1	R576	I-2	T572	J-2
CAPACITORS		L572	J-2	R577	J-2	TEST POINTS	
C591	J-1	TRANSISTORS		R578	J-2	TP501	J-1
C592	J-1	Q571	J-2	R579	I-2	TP502	J-1
CONNECTORS		Q572	I-2	R581	J-2	TP503	I-1
CN503	K-1	Q591	I-1	R583	J-1	TP504	I-1
CN571	I-2	RESISTORS		R584	K-2		
CL501A	K-2	R551	H-1	R585	K-2		
DIODES		R552	I-1	R586	K-1		
D552	H-2	R556	H-2	R587	J-1		



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

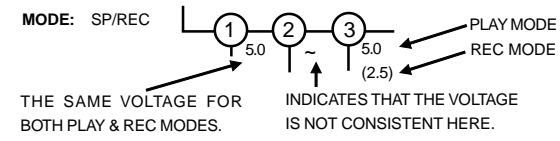


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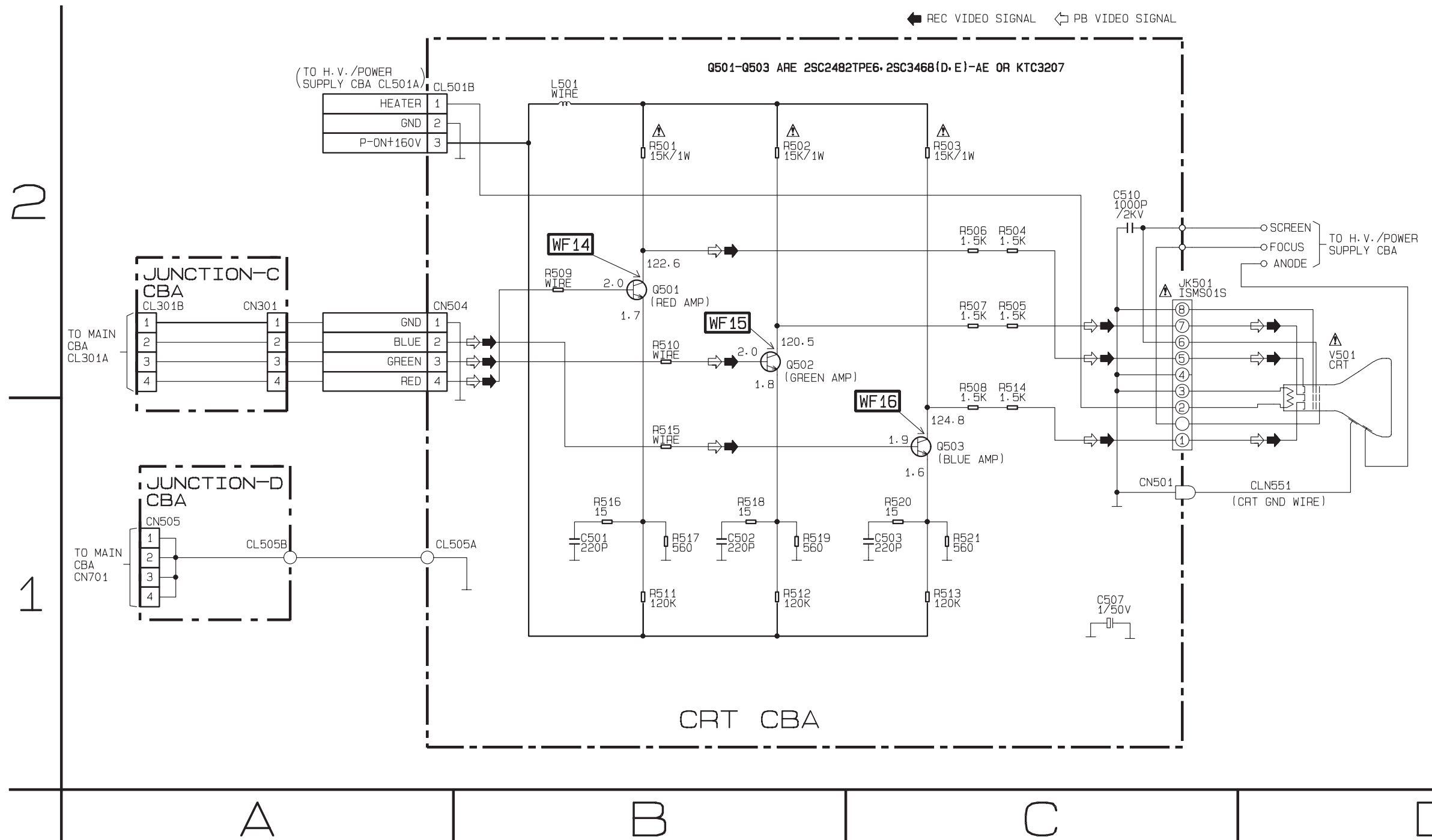


# CRT Schematic Diagram



CRT SCHEMATIC DIAGRAM  
PARTS LOCATION GUIDE

Ref No.	Position
CAPACITORS	
C501	B-1
C502	B-1
C503	C-1
C507	C-1
C510	C-2
CONNECTORS	
CN501	C-1
CN504	A-2
CL501B	A-2
CL505A	A-1
COIL	
L501	A-1
TRANSISTORS	
Q501	B-2
Q502	B-2
Q503	C-1
RESISTORS	
R501	B-2
R502	B-2
R503	C-2
R504	C-2
R505	C-2
R506	C-2
R507	C-2
R508	C-2
R509	B-2
R510	B-2
R511	B-1
R512	B-1
R513	C-1
R514	C-2
R515	B-1
R516	B-1
R517	B-1
R518	B-1
R519	B-1
R520	C-1
R521	C-1
MISCELLANEOUS	
JK501	C-2



### Main CBA Parts Location Guide

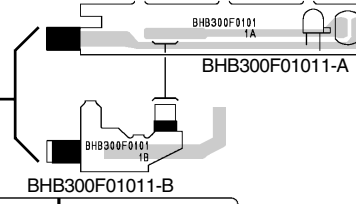
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CAPACITORS		CAPACITORS		CAPACITORS		CAPACITORS		CAPACITORS		DIODES		TRANSISTORS		RESISTORS		RESISTORS		RESISTORS		RESISTORS	
C003	F-4	C249	A-3	C411	D-3	C702	B-5	C876	D-4	D763	G-3	Q756	E-2	R242	C-3	R337	E-2	R760	G-1	R853	E-4
C004	F-4	C250	D-1	C412	C-3	C703	B-5	C877	E-4	D764	C-2	Q757	F-2	R243	E-1	R338	G-4	R761	G-2	R854	E-4
C005	F-4	C251	D-1	C413	D-3	C751	G-3	CONNECTORS		D801	B-1	Q758	G-4	R244	E-1	R352	F-2	R762	G-1	R855	E-3
C006	F-5	C252	D-1	C414	C-3	C752	G-3	CN201	D-1	D802	B-1	Q759	G-2	R245	B-3	R353	E-2	R763	G-1	R856	E-3
C009	G-5	C253	D-1	C415	C-3	C753	G-3	CN303	G-4	D804	B-1	Q760	G-2	R246	C-3	R391	G-4	R766	G-2	R857	E-3
C010	G-5	C255	C-3	C416	C-3	C754	G-2	CN801	C-5	D805	B-5	Q761	D-1	R247	B-3	R392	G-4	R767	G-2	R859	D-4
C011	F-5	C256	C-3	C417	C-3	C755	G-1	CN701	G-5	D806	B-5	Q851	E-4	R248	C-3	R393	G-4	R768	G-2	R860	E-4
C012	F-5	C257	D-1	C418	C-3	C756	G-2	CN702	F-4	ICS		Q852	E-4	R249	C-2	R400	C-4	R770	G-2	R861	D-3
C013	G-4	C259	A-2	C419	C-3	C757	G-3	CN751	F-2	IC101	D-1	Q853	E-4	R250	B-2	R401	D-3	R771	G-2	R862	E-3
C014	G-4	C260	B-2	C420	C-3	C758	G-3	CN752	G-2	IC201	B-3	Q854	E-3	R257	B-2	R402	D-3	R772	G-2	R863	E-3
C015	F-4	C261	D-1	C421	C-4	C759	G-2	CL301A	G-4	IC202	B-2	Q855	E-3	R258	B-2	R405	C-3	R774	G-2	R864	E-3
C016	D-5	C262	C-5	C422	C-4	C760	G-2	CL302A	G-1	IC301	F-3	Q856	E-3	R259	B-2	R406	B-5	R775	G-2	R865	D-3
C017	G-5	C301	E-3	C423	C-4	C761	E-1	CL401	D-4	IC401	D-4	Q857	E-4	R260	B-2	R407	B-5	R777	G-2	R866	D-3
C101	C-2	C302	E-3	C424	C-4	C762	G-1	CL402	D-3	IC471	F-4	RESISTORS		R261	E-4	R408	B-5	R778	G-2	R867	D-2
C102	C-2	C303	F-3	C425	C-4	C767	G-3	CL403	D-5	IC602	F-1	R002	G-4	R262	F-3	R409	C-5	R779	G-2	R868	D-2
C103	C-1	C304	F-3	C426	C-4	C768	G-4	CL603A	G-1	IC751	G-2	R102	D-2	R263	B-2	R410	C-5	R780	G-2	R869	D-3
C104	D-1	C305	F-3	C427	C-4	C769	G-4	DIODES		IC752	G-3	R103	C-2	R264	B-2	R411	C-4	R787	G-2	R870	D-3
C105	D-1	C306	F-3	C428	C-5	C773	G-4	D201	C-3	IC754	G-3	R104	D-1	R265	C-3	R412	C-5	R788	G-2	R871	D-3
C106	D-1	C307	F-3	C429	C-4	C774	G-4	D202	A-3	IC801	B-1	R105	D-1	R266	C-4	R413	C-5	R789	G-2	R872	D-3
C107	D-1	C313	F-4	C430	C-4	C775	G-3	D203	A-1	COILS		R106	C-1	R267	B-4	R414	C-5	R790	G-3	R874	E-3
C201	B-3	C314	F-3	C432	C-5	C776	G-4	D206	B-2	L001	G-4	R107	D-1	R268	B-2	R415	C-4	R791	G-2	R875	E-3
C202	B-3	C315	F-4	C433	C-5	C777	F-1	D207	B-3	L002	F-5	R201	A-2	R269	B-2	R416	C-4	R792	G-3	R876	E-4
C203	C-5	C316	F-3	C434	C-4	C778	F-2	D208	E-1	L003	F-5	R202	A-2	R270	B-2	R417	C-4	R793	G-3	R877	D-4
C204	B-4	C317	F-3	C435	C-4	C779	F-2	D210	E-1	L101	C-1	R203	B-5	R271	B-2	R420	D-4	R794	G-3	R878	D-3
C205	A-4	C318	F-4	C436	C-4	C801	B-1	D211	E-1	L201	E-1	R204	C-5	R273	E-1	R421	D-4	R795	G-3	R879	E-2
C206	C-1	C319	F-4	C437	D-5	C802	C-1	D212	B-3	L202	B-3	R205	A-4	R274	B-3	R424	D-4	R796	G-2	SWITCHES	
C207	A-3	C320	F-3	C438	D-4	C803	B-1	D213	B-2	L203	E-1	R206	A-4	R275	D-1	R425	C-4	R797	G-3	SW201	A-4
C208	B-4	C321	F-3	C439	B-5	C804	A-1	D214	B-3	L301	E-3	R207	A-2	R276	C-2	R426	B-4	R798	B-2	SW202	A-2
C210	B-4	C322	F-3	C441	D-4	C805	B-1	D215	B-1	L302	F-4	R208	A-4	R277	B-2	R427	B-5	R799	B-2	SW203	A-2
C211	B-4	C323	F-3	C442	D-4	C806	B-1	D216	D-5	L303	F-3	R209	A-4	R278	A-4	R428	C-4	R801	C-1	SW204	A-4
C212	B-4	C324	F-3	C443	D-4	C807	A-1	D217	D-5	L304	F-2	R210	A-4	R283	B-3	R429	B-5	R802	B-1	SW205	A-3
C213	B-4	C325	F-3	C444	D-4	C809	B-1	D218	B-4	L401	C-3	R211	A-2	R284	C-1	R430	B-5	R803	B-1	SW206	A-2
C214	B-4	C326	G-3	C445	C-4	C810	A-1	D301	F-3	L403	D-4	R212	A-2	R285	D-1	R431	C-4	R804	B-1	SW207	A-2
C215	B-4	C327	F-3	C446	C-3	C811	D-1	D304	G-4	L485	D-4	R213	A-3	R302	E-2	R471	D-5	R805	B-1	SW208	A-2
C216	C-4	C328	F-4	C447	C-4	C813	B-1	D305	G-4	L751	G-2	R214	A-4	R303	F-3	R473	D-5	R806	B-1	SW209	A-4
C217	B-4	C329	F-2	C448	B-5	C851	E-4	D306	G-4	L752	G-2	R215	B-2	R304	F-3	R475	D-3	R807	B-1	SW210	A-3
C218	B-4	C330	F-3	C449	C-5	C852	E-3	D307	F-4	L801	B-1	R216	B-1	R305	F-3	R476	D-3	R810	G-1	SW211	B-4
C219	C-3	C331	F-2	C450	C-4	C853	E-4	D309	G-4	L851	E-3	R217	C-1	R306	F-3	R680	G-1	R812	E-1	SW212	B-2
C220	C-3	C332	F-2	C452	B-5	C854	E-4	D312	F-4	L852	E-4	R218	C-1	R307	F-3	R681	G-1	R814	E-2	TEST POINTS	
C221	C-3	C334	F-2	C471	D-5	C855	E-4	D401	C-3	L853	E-3	R219	C-1	R309	F-4	R682	F-1	R815	F-2	TP001	D-5
C222	B-3	C335	F-2	C472	F-5	C856	E-3	D402	D-4	L854	E-4	R220	C-1	R310	F-4	R683	F-1	R816	B-2	TP002	D-5
C223	C-3	C336	F-2	C473	D-5	C857	E-4	D471	D-5	L856	E-4	R221	B-4	R311	F-4	R684	F-1	R817	B-2	TP003	D-5
C224	C-3	C337	F-2	C474	D-4	C858	E-3	D680	E-1	TRANSISTORS		R222	B-1	R312	F-4	R685	F-1	R818	B-2	TP004	D-5
C225	B-3	C339	F-3	C475	F-5	C859	E-3	D681	F-1	Q201	C-5	R223	C-3	R313	F-4	R686	F-1	R819	G-4	TP006	G-5
C232	B-2	C340	F-2	C478	F-4	C860	E-3	D682	C-1	Q202	C-1	R224	B-3	R314	F-4	R687	G-1	R820	G-4	TP007	D-5
C233	B-2	C343	F-2	C479	F-5	C861	E-3	D683	E-1	Q205	E-1	R225	A-2	R315	F-4	R688	G-1	R821	G-4	CRYSTAL OSCILATORS	
C234	C-3	C344	F-2	C484	F-4	C862	D-3	D684	E-1	Q206	C-3	R226	B-4	R316	E-3	R701	A-5	R822	G-4	X201	B-4
C235	B-2	C345	F-4	C485	F-4	C863	D-3	D685	F-1	Q207	E-1	R227	A-3	R318	F-4	R702	A-5	R823	G-4	X202	C-4
C236	B-2	C346	F-4	C486	F-4	C864	D-3	D686	E-1	Q208	B-4	R228	A-1	R319	F-3	R703	A-5	R824	G-2	X301	F-3
C237	B-2	C347	E-4	C488	F-4	C865	D-3	D702	A-5	Q401	C-4	R229	B-3	R320	F-3	R704	A-5	R825	G-2	X401	C-3
C238	B-2	C401	D-3	C489	D-4	C866	D-3	D751	G-3	Q402	C-5	R231	B-4	R321	F-4	R750	B-2	R826	G-2	MISCELLANEOUS	
C239	B-2	C402	D-3	C491	D-4	C867	D-3	D752	G-3	Q471	D-3	R232	B-4	R322	G-3	R751	G-3	R828	F-2	CF101	D-2
C240	B-3	C403	D-3	C493	D-4	C868	D-3	D754	G-3	Q680	F-1	R233	F-5	R323	F-3	R752	G-3	R829	E-2	JK701	A-5
C241	B-3	C404	D-3	C681	F-1	C869	D-3	D755	G-2	Q681	E-1	R234	B-4	R325	F-3	R753	G-3	R830	E-1	JK702	A-5
C242	B-2	C405	D-3	C682	F-2	C870	D-4	D757	G-3	Q682	G-1	R236	B-4	R327	F-3	R754	G-3	R831	D-1	JK751	G-3
C243	A-2	C406	D-3	C683	F-1	C871	D-4	D758	G-3	Q751	G-2	R237	E-1	R328	F-2	R755	G-3	R834	G-3	JK801	A-1
C245	B-3	C407	D-3	C684	E-2	C872	D-2	D759	G-3	Q752	G-1	R238	B-4	R329	F-2	R756	G-3	R835	F-4	PI201	B-4
C246	A-3	C408	D-3	C685	F-1	C873	D-3	D760	G-2	Q753	G-2	R239	B-4	R334	E-2	R757	G-4	R836	G-4	RS201	A-3
C247	A-3	C409	D-3	C687	G-1	C874	D-3	D761	G-3	Q754	G-2	R240	B-4	R335	E-2	R758	G-2	R851	D-4	TU001	G-5
C248	B-3	C410	D-3	C701	G-4	C875	E-3	D762	G-3	Q755	G-2	R241	B-4	R336	E-2	R759	G-2	R852	E-4	TU002	G-5

**Main CBA Top View**

**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.

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

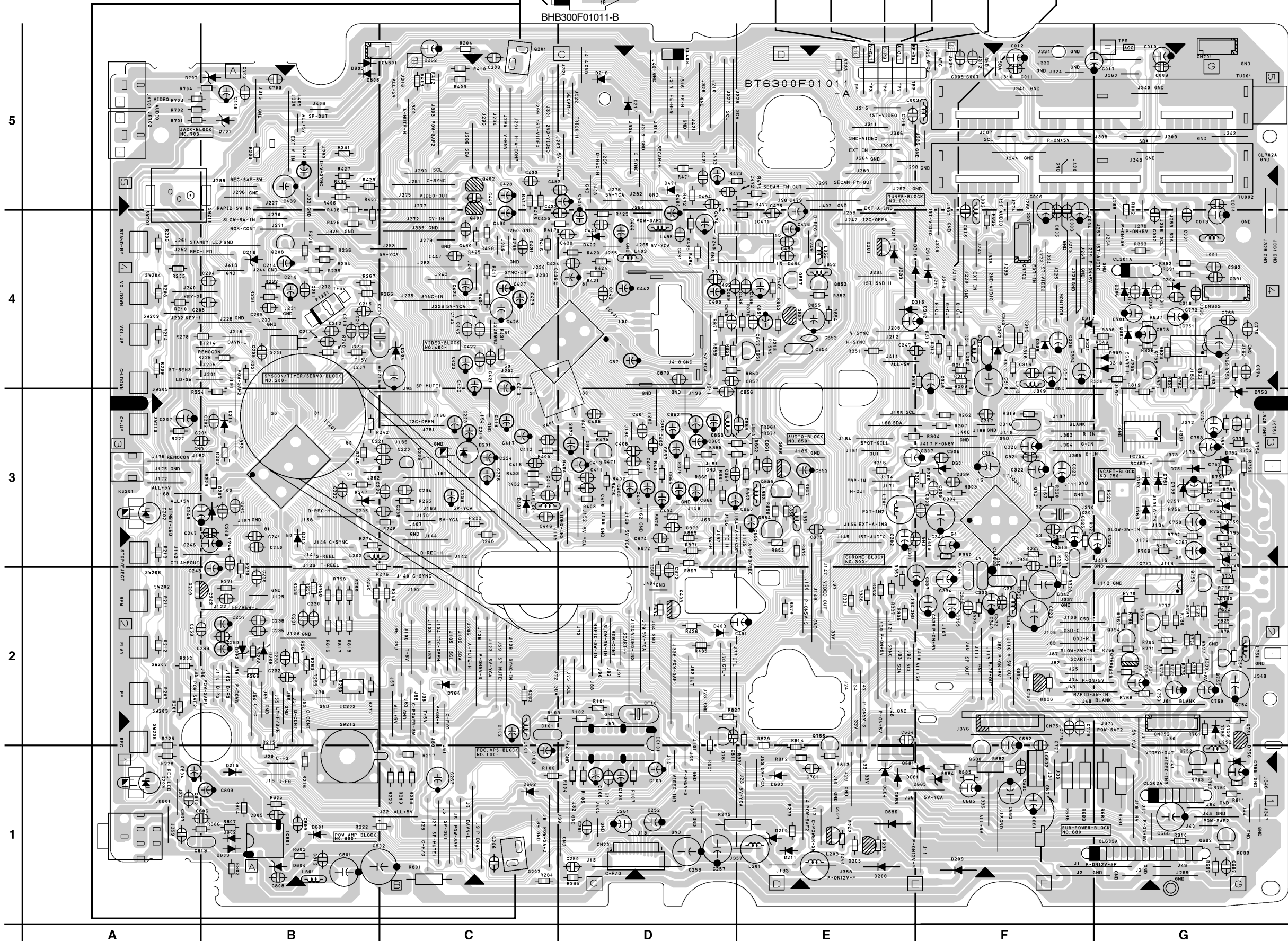
**Sensor CBA Top View**



- WF3** TP001 CTL
- WF5** TP003 V-OUT
- WF6** TP004 C-PB
- WF8** TP007 A-OUT
- WF1** TP002 RF SW (Trap Adjustment)
- J219** B-OUT

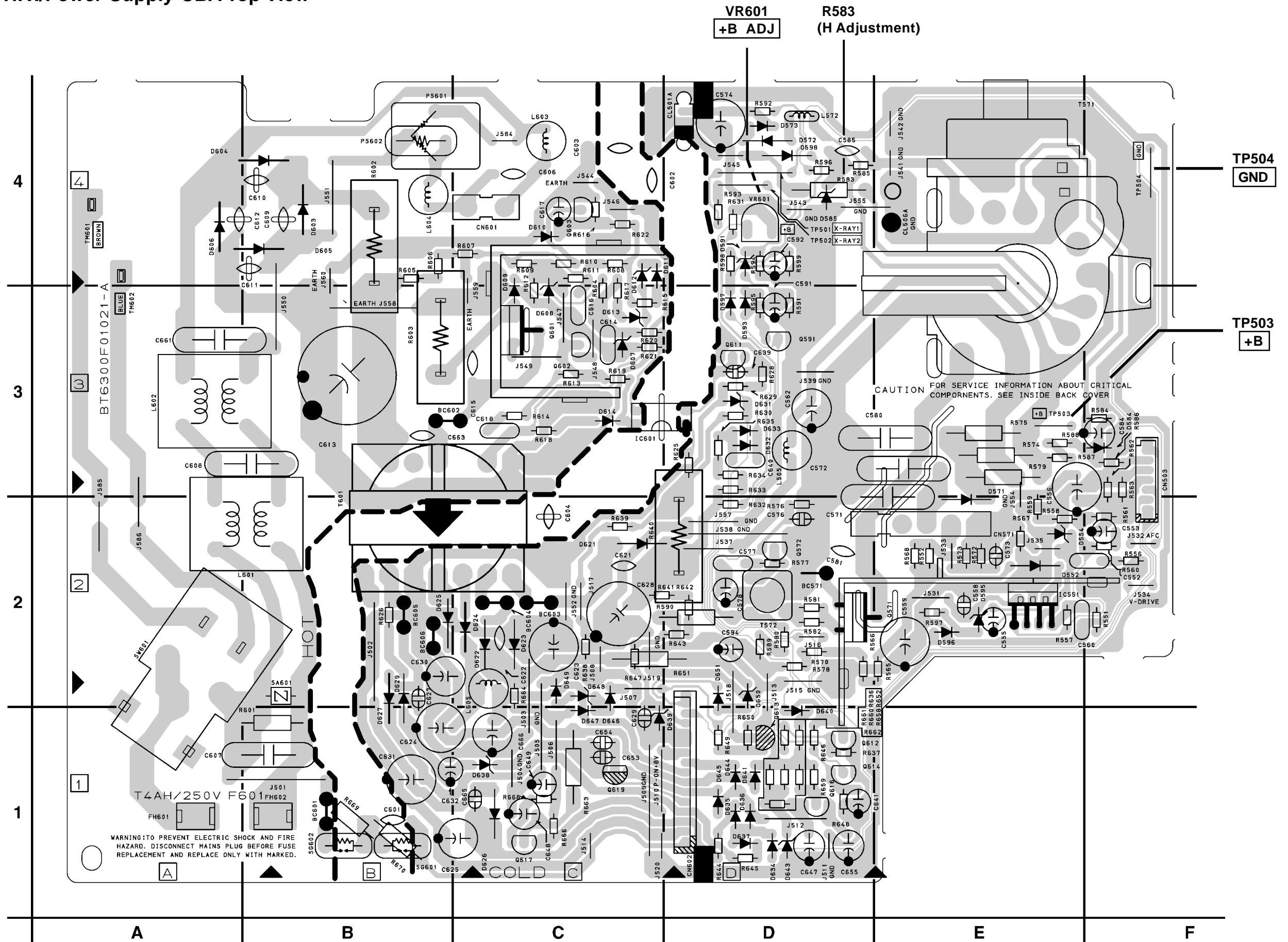
**BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT , AN ISOLATION TRANSFORMER MUST BE USED. ALSO , IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY , WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT , A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.**

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

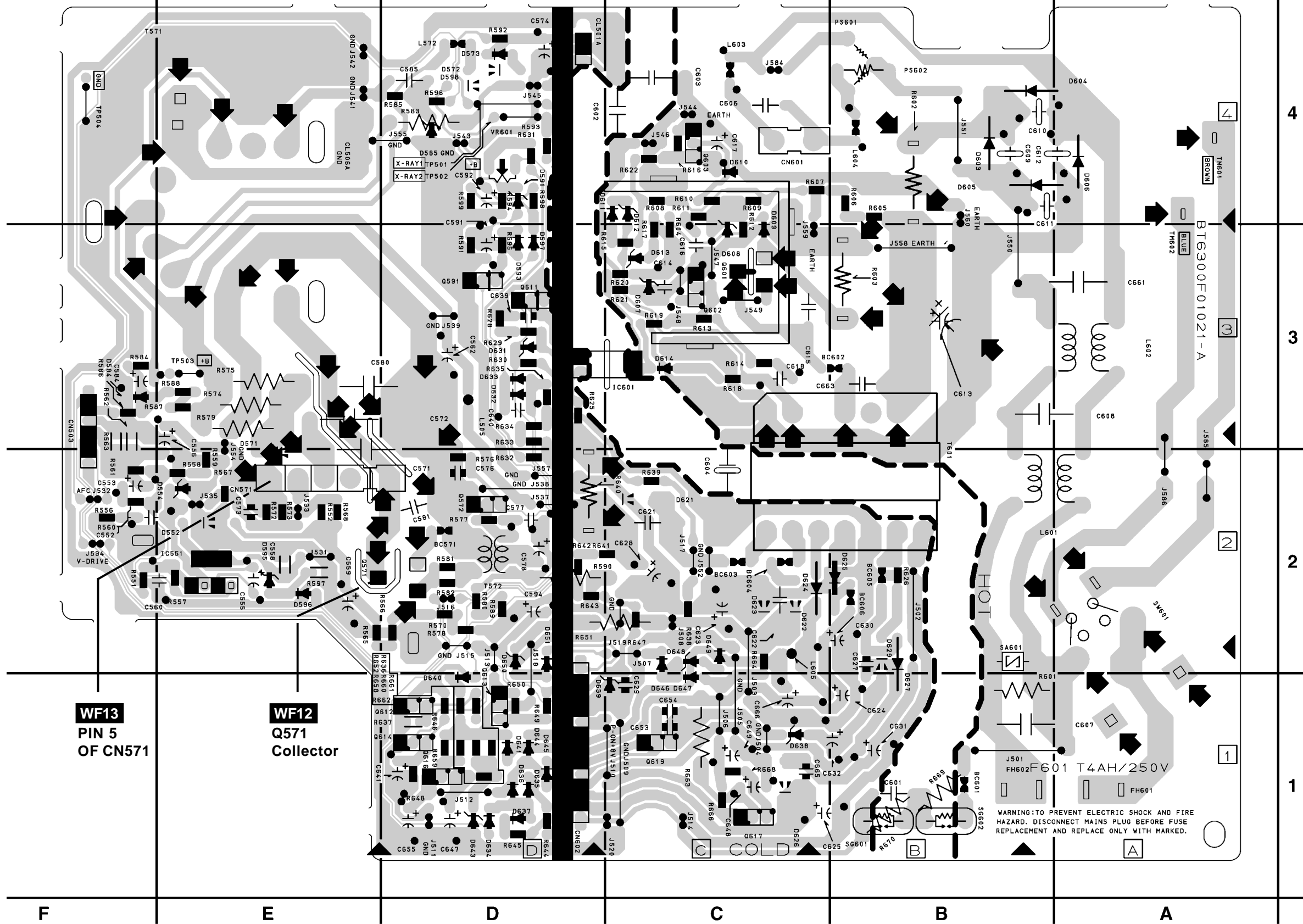




# H.V./Power Supply CBA Top View



H.V./Power Supply CBA Bottom View



**WF13**  
PIN 5  
OF CN571

**WF12**  
Q571  
Collector

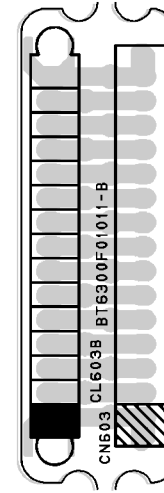
WARNING: TO PREVENT ELECTRIC SHOCK AND FIRE HAZARD, DISCONNECT MAINS PLUG BEFORE FUSE REPLACEMENT AND REPLACE ONLY WITH MARKED.



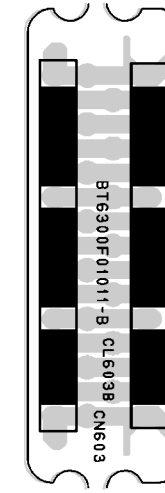
### H.V./Power Supply CBA Parts Location Guide

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		DIODES		TRANSISTORS		RESISTORS	
C552	F-2	D591	D-4	Q613	D-1	R625	D-3
C553	F-2	D593	D-3	Q614	D-1	R626	B-2
C555	E-2	D595	E-2	Q616	D-1	R628	D-3
C556	E-2	D596	E-2	Q617	C-1	R629	D-3
C558	E-2	D597	D-3	Q619	C-1	R630	D-3
C559	E-2	D598	D-4	RESISTORS		R631	D-4
C562	D-3	D603	B-4	R551	F-2	R632	D-2
C571	D-2	D604	A-4	R552	E-2	R633	D-3
C572	D-3	D605	B-4	R556	F-2	R634	D-3
C574	D-4	D606	A-4	R557	E-2	R635	D-3
C577	D-2	D608	C-3	R558	E-2	R636	D-2
C578	D-2	D609	C-3	R559	E-2	R637	D-1
C580	D-3	D613	C-3	R560	F-2	R638	C-2
C581	D-2	D614	C-3	R561	F-2	R639	C-2
C584	F-3	D621	C-2	R562	F-3	R640	C-2
C591	D-4	D622	C-2	R563	F-2	R641	C-2
C592	D-4	D623	C-2	R565	E-2	R642	D-2
C604	C-2	D624	C-2	R566	D-2	R643	D-2
C607	A-1	D625	B-2	R567	E-2	R644	D-1
C608	A-3	D626	C-1	R570	D-2	R645	D-1
C609	B-4	D627	B-1	R573	E-2	R646	D-1
C610	B-4	D629	B-2	R574	E-3	R647	C-2
C611	B-4	D631	D-3	R575	E-3	R648	D-1
C612	B-4	D632	D-3	R576	D-2	R649	D-1
C613	B-3	D634	D-1	R577	D-2	R650	D-1
C614	C-3	D635	D-1	R578	D-2	R651	D-2
C615	B-3	D636	D-1	R579	E-3	R652	E-2
C616	C-3	D637	D-1	R581	D-2	R659	D-1
C618	B-3	D638	C-1	R583	D-4	R660	D-1
C621	C-2	D639	D-1	R584	F-3	R662	D-1
C623	C-2	D640	D-1	R585	D-4	R663	C-1
C624	B-1	D641	D-1	R586	F-3	R664	C-2
C625	B-1	D643	D-1	R587	E-3	R668	C-1
C628	C-2	D644	D-1	R588	E-3	R669	B-1
C629	C-1	D645	D-1	R590	C-2	R670	B-1
C630	B-2	D646	C-1	R591	D-3	SWITCH	
C631	B-1	D647	C-1	R592	D-4	SW601	A-2
C632	B-1	D648	C-2	R593	D-4	TEST POINTS	
C639	D-3	D649	C-2	R594	D-4	TP501	D-4
C641	E-1	D650	D-2	R595	D-3	TP502	D-4
C647	D-1	D651	D-2	R596	D-4	TP503	E-3
C648	C-1	ICS		R597	E-2	TP504	F-4
C649	C-1	IC551	E-2	R598	D-4	VARIABLE RESISTOR	
C654	C-1	IC601	C-3	R599	D-4	VR601	D-4
C655	D-1	COILS		R601	A-1	MISCELLANEOUS	
C666	C-1	L505	D-3	R602	B-4	BC571	D-2
CONNECTORS		L572	D-4	R603	B-3	BC602	B-3
CN503	F-3	L601	A-2	R604	C-3	BC603	C-2
CN571	E-2	L602	A-3	R605	B-4	BC604	C-2
CN602	D-1	L603	C-4	R606	B-4	BC605	B-2
CN601	C-4	L604	B-4	R607	C-4	BC606	B-2
CL501A	D-4	L605	C-1	R609	C-4	F601	A-1
CL506A	E-4	TRANSISTORS		R611	C-4	PS602	B-4
DIODES		Q571	E-2	R612	C-3	SA601	B-2
D552	E-2	Q572	D-2	R613	C-3	T571	E-4
D571	E-3	Q591	D-3	R614	C-3	T572	D-2
D572	D-4	Q601	C-3	R617	C-3	T601	B-3
D573	D-4	Q602	C-3	R618	C-3	TM601	A-4
D584	F-3	Q611	D-3	R620	C-3	TM602	A-3
D585	D-4	Q612	D-1	R621	C-3		

Junction-A CBA Top View

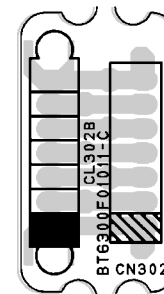


Junction-A CBA Bottom View

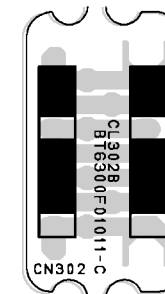


BT6300F01011-B

Junction-B CBA Top View

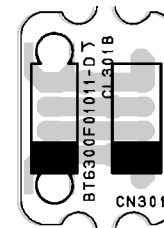


Junction-B CBA Bottom View

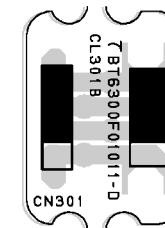


BT6300F01011-C

Junction-C CBA Top View

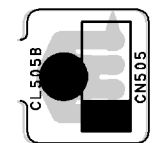


Junction-C CBA Bottom View

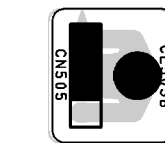


BT6300F01011-D

Junction-D CBA Top View

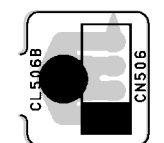


Junction-D CBA Bottom View



BT6300F01021

Junction-E CBA Top View



Junction-E CBA Bottom View



BT6300F01021

5

4

3

2

1

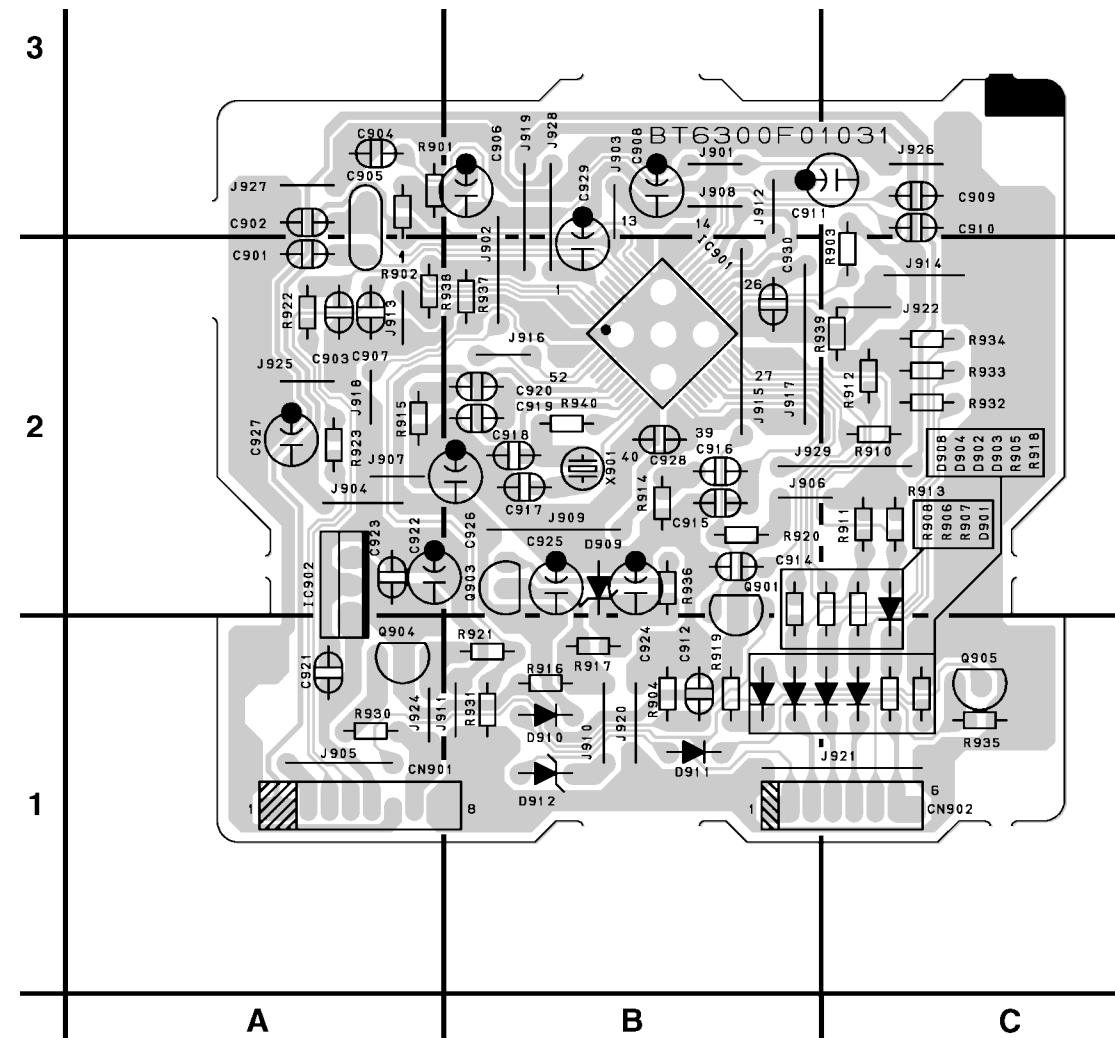
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B

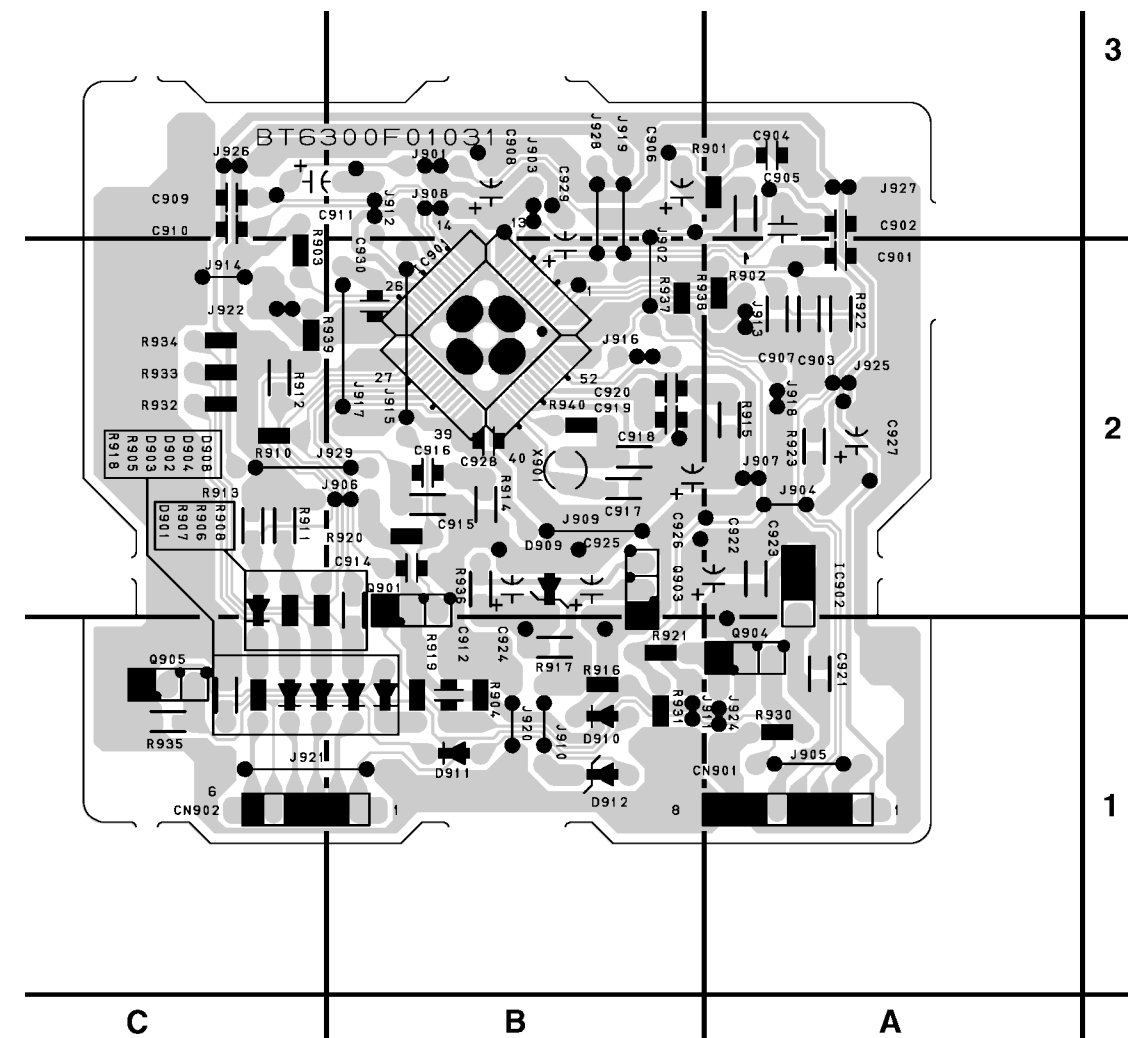
C

D

Text CBA Top View



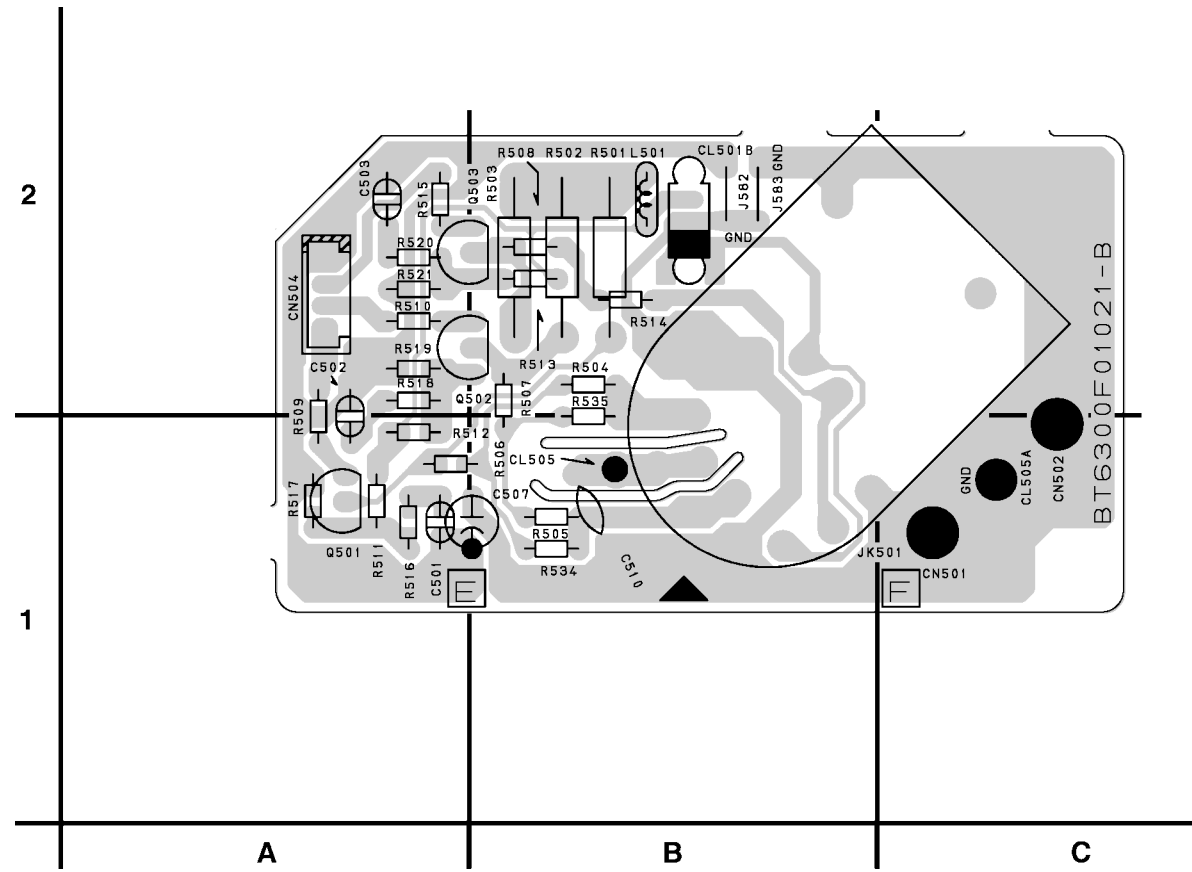
Text CBA Bottom View



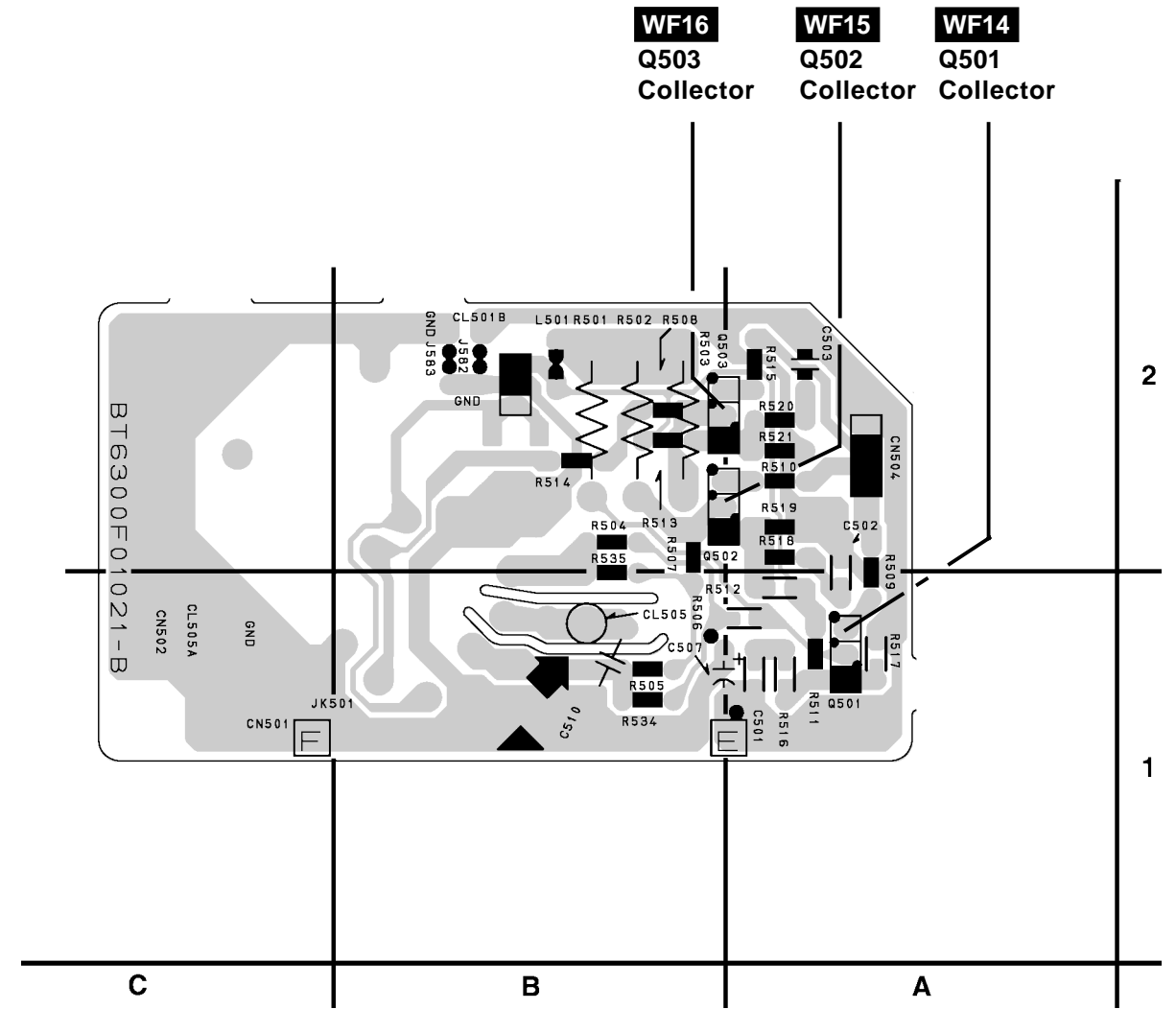
TEXT CBA PARTS LOCATION GUIDE

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		DIODES		RESISTORS	
C901	A-2	C923	A-2	D911	B-1	R914	B-2
C902	A-3	C924	B-1	D912	B-1	R915	A-2
C904	A-3	C925	B-2	ICS		R916	B-1
C905	A-3	C926	B-2	IC901	B-2	R917	B-1
C906	B-3	C927	A-2	IC902	A-2	R919	B-1
C908	B-3	C928	B-2	TRANSISTORS		R920	B-2
C909	C-3	C929	B-3	Q901	B-2	R921	B-1
C910	C-3	C930	B-2	Q903	B-2	R922	A-2
C911	B-3	CONNECTORS		Q904	A-1	R923	A-2
C912	B-1	CN901	A-1	RESISTORS		R930	A-1
C914	B-2	CN902	C-1	R901	A-3	R931	B-1
C915	B-2	DIODES		R902	A-2	R932	C-2
C916	B-2	D901	C-2	R903	C-2	R933	C-2
C917	B-2	D902	C-2	R904	B-1	R934	C-2
C918	B-2	D903	C-2	R905	C-2	R936	B-2
C919	B-2	D904	C-2	R906	C-2	R937	B-2
C920	B-2	D908	C-2	R907	C-2	R940	B-2
C921	A-1	D909	B-2	R908	C-2	CRYSTAL OSCILLATOR	
C922	A-2	D910	B-1	R913	C-2	X901	B-2

# CRT CBA Top View



# CRT CBA Bottom View

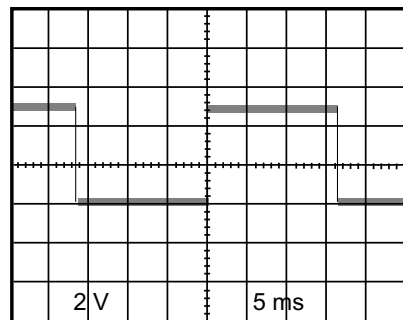


Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		COIL		RESISTORS		RESISTORS	
C501	A-1	L501	B-2	R505	B-1	R515	A-2
C502	A-2	TRANSISTORS		R506	B-1	R516	A-1
C503	A-2	Q501	A-1	R507	B-2	R517	A-1
C507	B-1	Q502	A-2	R508	B-2	R518	A-2
C510	B-1	Q503	B-2	R509	A-1	R519	A-2
CONNECTORS		RESISTORS		R510	A-2	R520	A-2
CN501	C-1	R501	B-2	R511	A-1	R521	A-2
CN504	A-2	R502	B-2	R512	A-1	MISCELLANEOUS	
CL501B	B-2	R503	B-2	R513	B-2	JK501	B-1
CL505A	C-1	R504	B-2	R514	B-2		

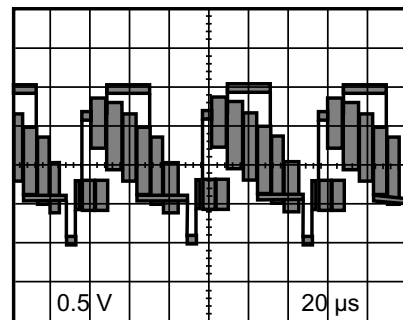
# WAVEFORMS

## WAVEFORM NOTES

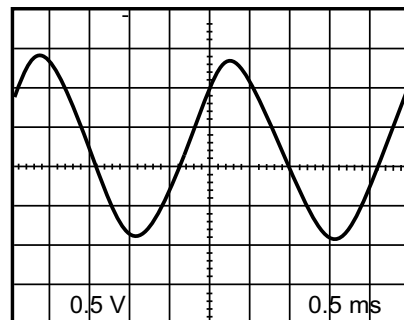
INPUT: NTSC COLOR BAR SIGNAL  
 OTHER CONTROLS: CENTER POSITION  
 VOLTAGES SHOWN ARE RANGE OF  
 OSCILLOSCOPE SETTING



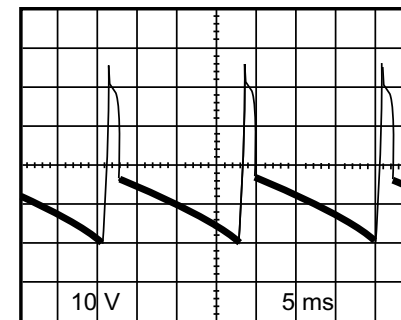
WF1 MAIN 1/4 SCHEMATIC DIAGRAM  
 TP002 RF-SW



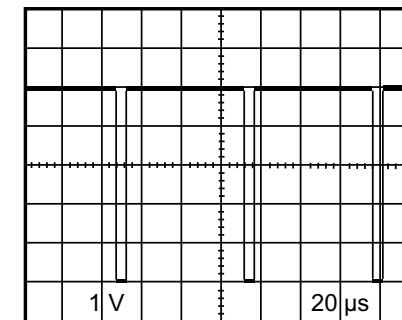
WF5 MAIN 2/4 SCHEMATIC DIAGRAM  
 TP003 V-OUT



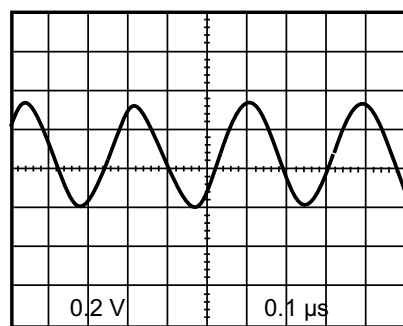
WF9 MAIN 2/4 SCHEMATIC DIAGRAM  
 IC401 PIN 8



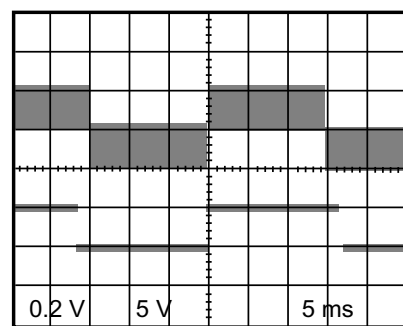
WF13 H.V./POWER SUPPLY 2/2  
 SCHEMATIC DIAGRAM  
 CN571 PIN 5



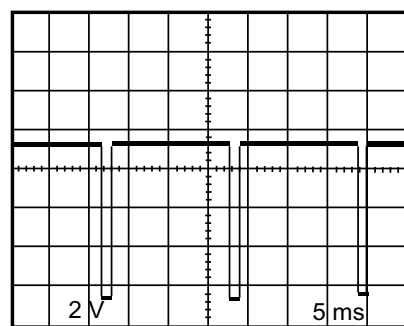
WF17 MAIN 1/4 SCHEMATIC DIAGRAM  
 IC201 PIN 58



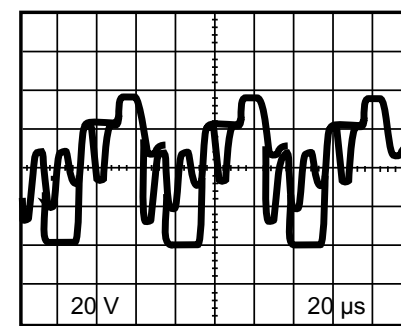
WF2 MAIN 2/4 SCHEMATIC DIAGRAM  
 IC401 PIN 29



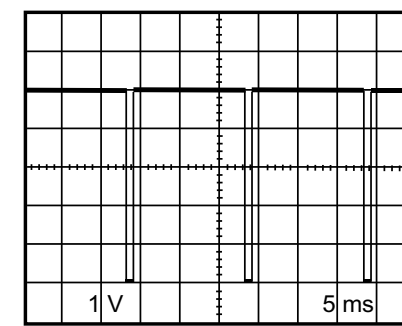
Upper: WF6 Lower: WF1  
 MAIN 2/4 SCHEMATIC DIAGRAM  
 TP004 C-PB



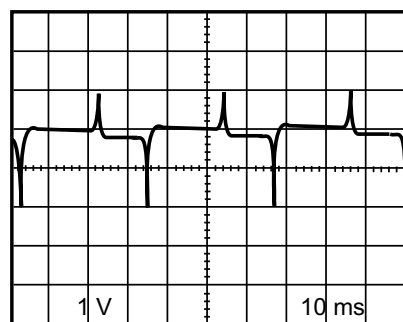
WF10 MAIN 3/4 SCHEMATIC DIAGRAM  
 IC301 PIN 13



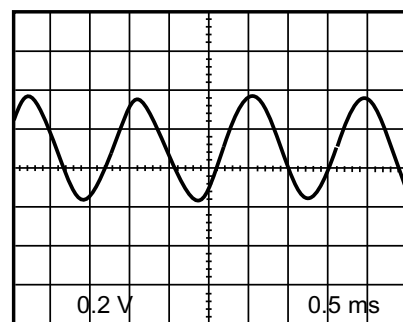
WF14 CRT SCHEMATIC DIAGRAM  
 Q501 COLLECTOR



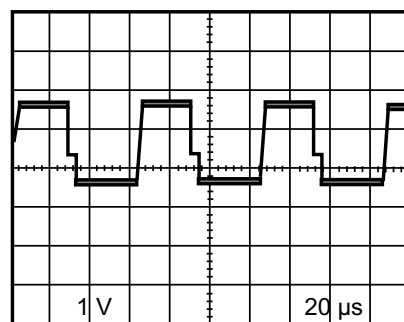
WF18 MAIN 1/4 SCHEMATIC DIAGRAM  
 IC201 PIN 59



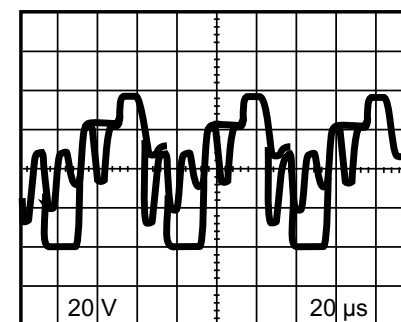
WF3 MAIN 1/4 SCHEMATIC DIAGRAM  
 TP001 CTL



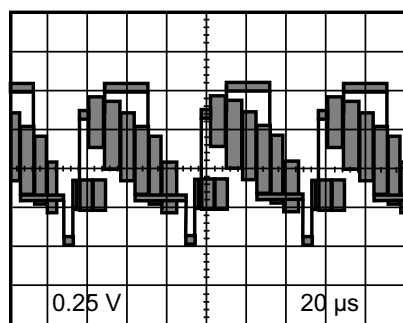
WF7 MAIN 3/4 SCHEMATIC DIAGRAM  
 IC301 PIN 52



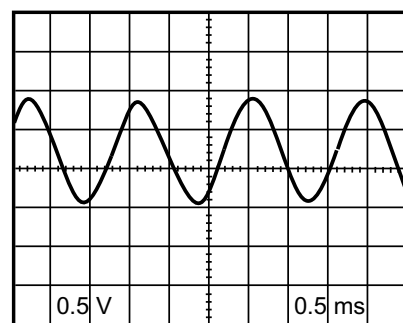
WF11 MAIN 3/4 SCHEMATIC DIAGRAM  
 IC301 PIN 7



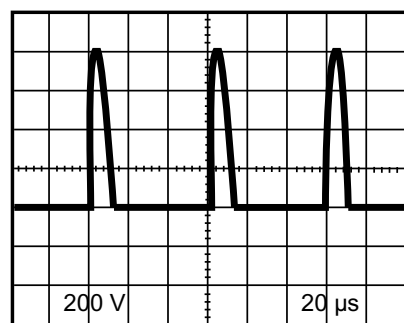
WF15 CRT SCHEMATIC DIAGRAM  
 Q502 COLLECTOR



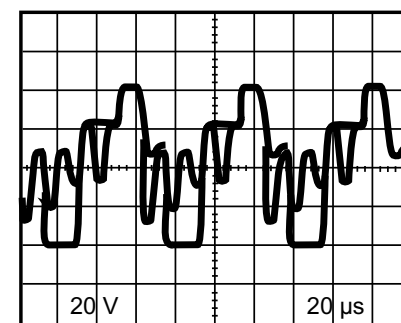
WF4 MAIN 2/4 SCHEMATIC DIAGRAM  
 IC401 PIN 48



WF8 MAIN 2/4 SCHEMATIC DIAGRAM  
 TP007 A-OUT



WF12 H.V./POWER SUPPLY 2/2  
 SCHEMATIC DIAGRAM  
 Q571 COLLECTOR



WF16 CRT SCHEMATIC DIAGRAM  
 Q503 COLLECTOR



# SYSTEM CONTROL TIMING CHARTS

Chart 1

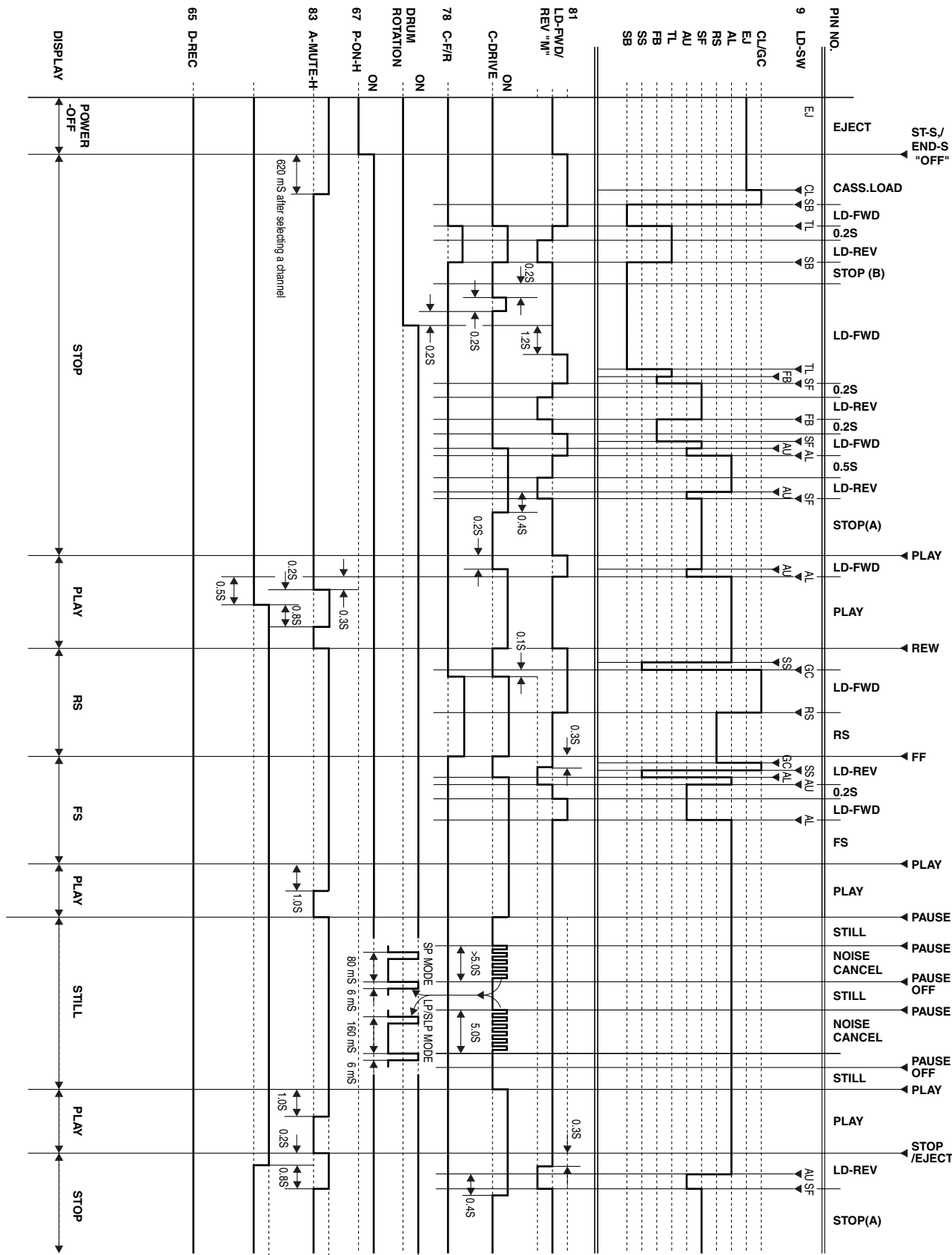
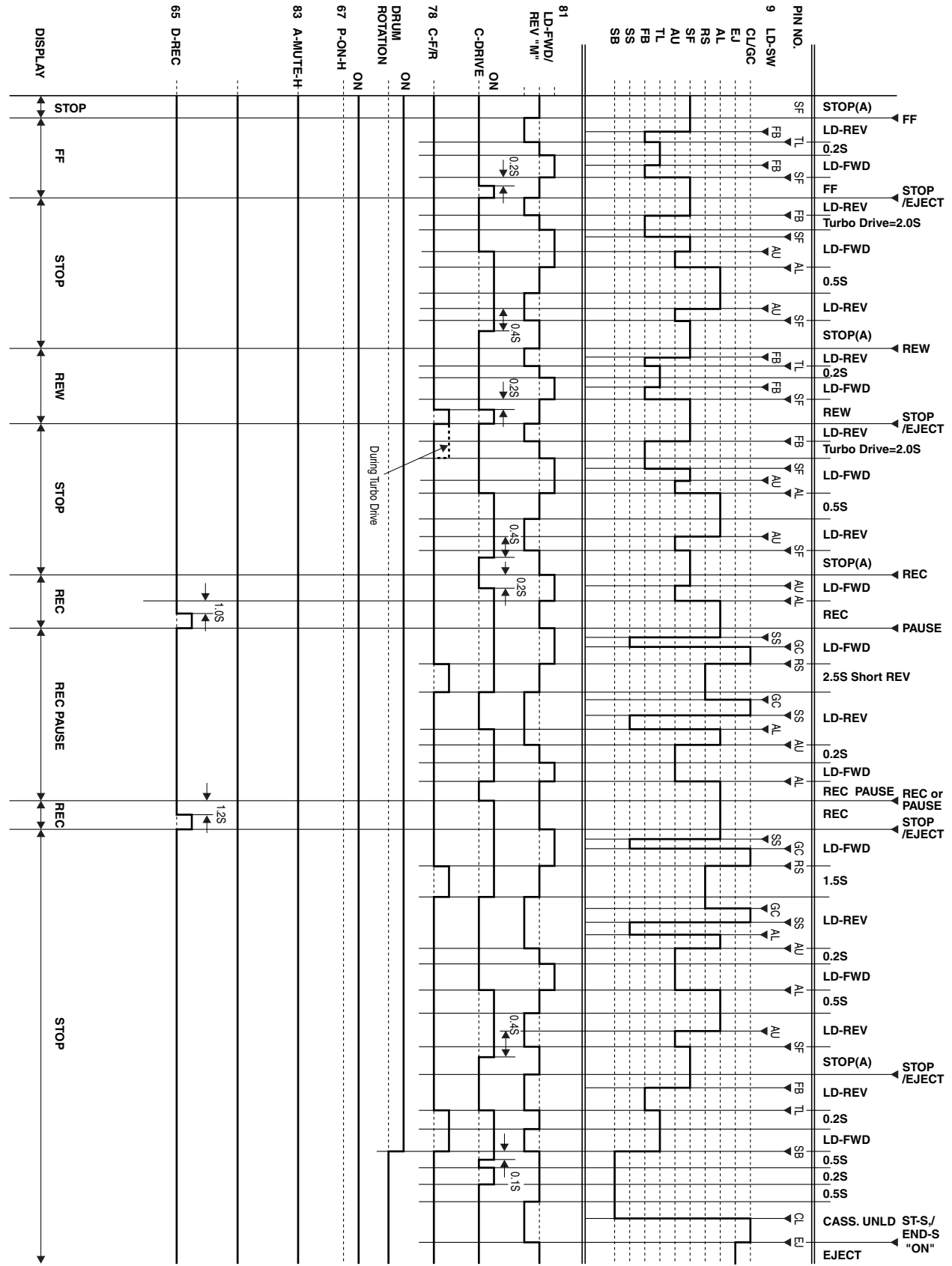


Chart 2

1. EJECT (POWER OFF) -> CASSETTE IN (POWER ON) -> STOP(B) -> STOP(A) -> PLAY -> RS -> FS -> PLAY -> PLAY -> STOP(A)



2. STOP(A) -> FF -> STOP(A) -> REW -> STOP(A) -> REC -> PAUSE -> PAUSE or REC -> STOP(A) -> EJECT

# IC PIN FUNCTION DESCRIPTIONS

Comparison Chart of Models and Marks

Model	Mark
14PV360/07	A
14PV365/07	B
14PV360/01	C
14PV365/01	D
14PV365/58	E
14PV360/39	F
14PV365/39	G

## IC 201 (TV/VCR Micro Computer)

“H” ≥ 4.5V, “L” ≤ 1.0V

Pin No.	Mark	IN/OUT	Signal Name	Function
1		IN	AFC2	AFC 2 of Tuner 2
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	D-V 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		IN	H-A-COMP	Head Amp Comparator Signal
18		OUT	RF-SW	Video Head Switching Pulse
19		-	NU	Not Used

Pin No.	Mark	IN/OUT	Signal Name	Function
20		IN	DAVN-L	VPS/PDC Data Receive = “L”
21		OUT	1ST-SND-H	Tuner 1 and Tuner 2 Switching Signal
22		OUT	RGB-CONT	RGB Control Signal
23		OUT	REC-LED	Recording LED Control Signal
24		OUT	REC-LED	Recording LED Control Signal
25		-	NU	Not Used
26		-	NU	Not Used
27		-	NU	Not Used
28		-	NU	Not Used
29		IN	RAPID-SW-IN	RAPID-Switch Input Signal from Scart Jack
30		IN	SLOW SW-IN	Slow-Switch Input Signal from Scart Jack
31		IN	REC-SAFETY	Record Protection Tab Detection
32	A,B,C,D,E	-	NU	Not Used
	F,G	IN	SECAM-H	SECAM Mode at High
33	A,B,C,D,E	-	NU	Not Used
	F,G	OUT	TRICK-H	Special Playback = “H” in SECAM Mode
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

Pin No.	Mark	IN/OUT	Signal Name	Function
42		OUT	EXT-L	External Input or Playback = Output
43		IN	CLKSEL	Clock Select (GND)
44		OUT	SP-MUTE	Speaker Mute Signal
45		IN	I2C-OPEN	White Balance Adjust Mode Judgment
46		-	GND	GND
47		-	NU	Not Used
48		OUT	SCART-H	Switching Signal of Scart Jack and RCA Jack
49		-	OSDGND	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	C-VIDEO	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		-	NU	Not Used
62		OUT	OSD-B	Blue Output
63		OUT	OSD-G	Green Output
64		OUT	OSD-R	Red Output
65		OUT	D-REC-H	Delayed Record Signal
66		OUT	C-POWER-SW	Capstan Power Switching Pulse
67		OUT	P-ON-H	Power On Signal at High
68		-	NU	Not Used
69		-	NU	Not Used
70		-	NU	Not Used
71		OUT	SCL	E2PROM/CHROMA IC Tuner Communication Clock

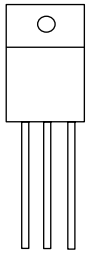
Pin No.	Mark	IN/OUT	Signal Name	Function
72		IN/OUT	SDA	E2PROM/CHROMA IC Tuner Communication Data
73		OUT	SCART-MUTE	Audio Mute Signal at Scart Jack
74		IN	C-SYNC	C-Sync Input
75		-	NU	Not Used
76		OUT	C-CONT	Capstan Motor Control Signal
77		OUT	D-CONT	Drum Motor Control Signal
78		OUT	C-F/R	Capstan Motor FWD/REV Control Signal (FWD="L"/REV="H")
79		IN	S-REEL	Supply Reel Rotation Signal
80		IN	T-REEL	Take Up Reel Rotation Signal
81		OUT	LD-CONT	Loading Motor Control Signal
82		OUT	TEXT-L	Teletext Control Signal
83		OUT	A-MUTE-H	Audio Mute Control Signal (Mute = "H")
84		-	NU	Not Used
85		OUT	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		IN	D-FG	Drum Motor Rotation Detection Pulse
90		IN	D-PG	Drum Motor Pulse Generator
91		OUT	AMPVREF OUT	Standard Voltage Output
92		IN	AMPVREF IN	Standard Voltage Input
93		-	C	C Terminal
94		IN/OUT	CTL (-)	CTL (-)



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

# LEAD IDENTIFICATIONS

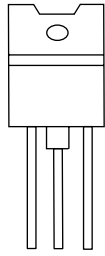
2SK2662



S: Souce  
D: Drain  
G: Gate

S D G

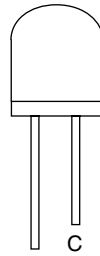
2SD2627LS-FEC-YB11  
TT2084LS-YB11



E: Emitter  
C: Collector  
B: Base

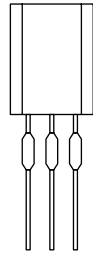
B C E

PT204-6B-12  
MID-32A22



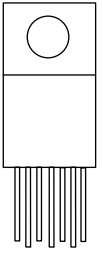
E

2SD400(F)

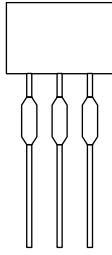


E C B

LA78040A  
AN5522

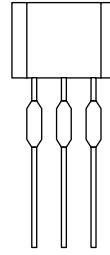


IN G OUT



E C B

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

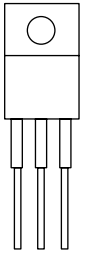


E C B

2SC1627Y-TPE2  
2SA950(Y,O)  
KTA1271(Y)  
2SC2482 TPE6  
2SC3468(E,D)-AE  
KTC3207  
2SA1175(F)  
KTA1267(GR)  
KTC3198(GR)

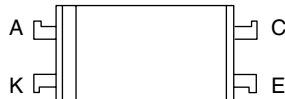
BN1F4M-T  
KTC3199(GR)  
2SC2785(J,H,F)  
2SA1015-GR(TPE2)

KIA7805API  
KA7805A  
AN7805F

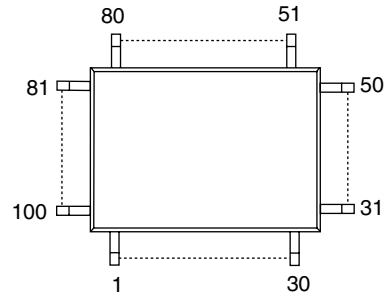


IN G OUT

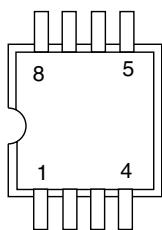
LTV-817(B,C)-F  
PC817X6



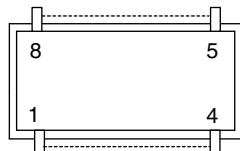
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LA71091M



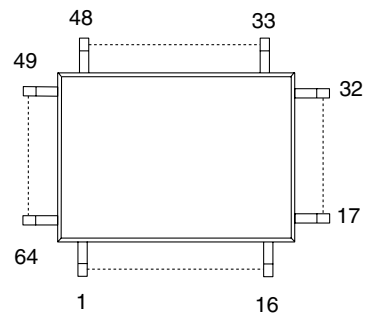
BR24C02F-W  
BR24C02F  
AT24C02N-10SC  
M24C02-MN6



LA4224



M61210FP-R60\*  
M612106FP-R61  
M612106FP-R62\*



**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:**

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

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
		MMA CBA							
		Consists of the followings							
		MAIN CBA	1	1	1	1	1	1	1
		JUNCTION A CBA	1	1	1	1	1	1	1
		JUNCTION B CBA	1	1	1	1	1	1	1
		JUNCTION C CBA	1	1	1	1	1	1	1
		SENSOR CBA							
		MAIN CBA	1	1	1	1	1	1	1
		CAPACITORS							
C003		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C004		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C005		CERAMIC CAP.(AX) B K 0.01UF/50V	1	1	1	1	1	1	1
C006		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C010		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C012		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C013		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1
C014		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C015		CERAMIC CAP.(AX) SL J 33PF/50V	1	1	1	1	1	1	1
C016		CERAMIC CAP.(AX) SL J 33PF/50V	1	1	1	1	1	1	1
C017		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1	1
C101		FILM CAP.(P) 0.056UF/50V J	1	1	1	1	1	1	1
C102		ELECTROLYTIC CAP. 4.7UF/50V M H7	1	1	1	1	1	1	1
C103		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1
C104		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C105		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C106		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C107		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C201		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C202		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C203		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C204		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C205		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C206		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C207		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1
C208		CERAMIC CAP.(AX) B K 100PF/50V	1	1	1	1	1	1	1
C210		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C211		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C212		CERAMIC CAP.(AX) SL J 22PF/50V	1	1	1	1	1	1	1
C213		CERAMIC CAP.(AX) SL J 22PF/50V	1	1	1	1	1	1	1
C214		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C215		CERAMIC CAP.(AX) Y N 0.022UF/6V	1	1	1	1	1	1	1
C216		ELECTROLYTIC CAP. 220UF/6.3V M H7	1	1	1	1	1	1	1
C217		CERAMIC CAP.(AX) SL J 10PF/50V	1	1	1	1	1	1	1
C218		CERAMIC CAP.(AX) SL J 10PF/50V	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
C219		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C220		CERAMIC CAP.(AX) X M 4700PF/16V	1	1	1	1	1	1	1
C221		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C222		CERAMIC CAP.(AX) X M 2200PF/16V	1	1	1	1	1	1	1
C223		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C224		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C225		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C232		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C233		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C234		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C235		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C236		CERAMIC CAP.(AX) B K 100PF/50V	1	1	1	1	1	1	1
C237		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C238		CERAMIC CAP.(AX) F Z 0.047UF/16V	1	1	1	1	1	1	1
C239		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C240		CERAMIC CAP.(AX) F Z 0.047UF/16V	1	1	1	1	1	1	1
C241		CERAMIC CAP.(AX) B K 560PF/50V	1	1	1	1	1	1	1
C242		CERAMIC CAP.(AX) X M 4700PF/16V	1	1	1	1	1	1	1
C243		ELECTROLYTIC CAP. 22UF/16V M H7	1	1	1	1	1	1	1
C245		CERAMIC CAP.(AX) Y N 0.022UF/6V	1	1	1	1	1	1	1
C246		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1
C247		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C248		CERAMIC CAP.(AX) Y N 0.022UF/6V	1	1	1	1	1	1	1
C249		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1	1
C250		CERAMIC CAP.(AX) B K 1000PF/50V	1	1	1	1	1	1	1
C251		CERAMIC CAP.(AX) B K 1000PF/50V	1	1	1	1	1	1	1
C252		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1	1
C253		ELECTROLYTIC CAP. 220UF/25V M	1	1	1	1	1	1	1
C255		CERAMIC CAP.(AX) B K 560PF/50V	1	1	1	1	1	1	1
C256		ELECTROLYTIC CAP. 0.1UF/50V M H7	1	1	1	1	1	1	1
C257		ELECTROLYTIC CAP. 220UF/16V M	1	1	1	1	1	1	1
C259		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C260		CERAMIC CAP.(AX) F Z 0.047UF/16V	1	1	1	1	1	1	1
C261		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C262		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1
C301		CERAMIC CAP.(AX) X M 3300PF/16V	1	1	1	1	1	1	1
C302		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C303		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C304		ELECTROLYTIC CAP. 1000UF/6.3V M	1	1	1	1	1	1	1
C305		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C306		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C307		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C313		FILM CAP.(P) 0.01UF/50V J	1	1	1	1	1	1	1
C314		ELECTROLYTIC CAP. 100UF/16V M	1	1	1	1	1	1	1
C315		ELECTROLYTIC CAP. 0.1UF/50V M	1	1	1	1	1	1	1
C316		FILM CAP.(P) 0.1UF/50V J	1	1	1	1	1	1	1
C317		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C318		ELECTROLYTIC CAP. 1000UF/6.3V M	1	1	1	1	1	1	1
C319		CERAMIC CAP.(AX) B K 180PF/50V	1	1	1	1	1	1	1
C320		ELECTROLYTIC CAP. 0.1UF/50V M	1	1	1	1	1	1	1
C321		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C322		ELECTROLYTIC CAP. 0.1UF/50V M	1	1	1	1	1	1	1
C323		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C324		CERAMIC CAP.(AX) B K 150PF/50V	1	1	1	1	1	1	1
C325		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C326		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C327		FILM CAP.(P) 0.015UF/50V J	1	1	1	1	1	1	1
C328		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C329		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1	1
C330		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C331		FILM CAP.(P) 0.22UF/50V J	1	1	1	1	1	1	1
C332		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
C334		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C335		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C336		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C337		ELECTROLYTIC CAP. 10UF/50V M	1	1	1	1	1	1	1
C339		CERAMIC CAP.(AX) SL J 68PF/50V	1	1	1	1	1	1	1
C340		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C343		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1	1
C344		FILM CAP.(P) 0.22UF/50V J	1	1	1	1	1	1	1
C345		FILM CAP.(P) 0.047UF/50V J	1	1	1	1	1	1	1
C346		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1	1
C347		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C401		CERAMIC CAP.(AX) F Z 0.047UF/16V	1	1	1	1	1	1	1
C402		CERAMIC CAP.(AX) Y N 0.022UF/6V	1	1	1	1	1	1	1
C403		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C404		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C405		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C406		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C407		CERAMIC CAP.(AX) Y N 0.022UF/6V	1	1	1	1	1	1	1
C408		CERAMIC CAP.(AX) F Z 0.047UF/16V	1	1	1	1	1	1	1
C409		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C410		CERAMIC CAP.(AX) F Z 0.047UF/16V	1	1	1	1	1	1	1
C411		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C412		CERAMIC CAP.(AX) Y N 0.022UF/6V	1	1	1	1	1	1	1
C413		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C414		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C415		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C416		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C417		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C418		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C419		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C420		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C421		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C422		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C423		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1
C424		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C425		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C426		ELECTROLYTIC CAP. 220UF/6.3V M H7	1	1	1	1	1	1	1
C427		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C428		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C429		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1
C430		ELECTROLYTIC CAP. 22UF/16V M H7	1	1	1	1	1	1	1
C432		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C433		CERAMIC CAP.(AX) B K 150PF/50V	1	1	1	1	1	1	1
C434		CERAMIC CAP.(AX) F Z 0.047UF/16V	1	1	1	1	1	1	1
C435		CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1	1
C436		ELECTROLYTIC CAP. 100UF/6.3V H7	1	1	1	1	1	1	1
C437		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C438		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C439		ELECTROLYTIC CAP. 220UF/6.3V M H7	1	1	1	1	1	1	1
C441		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C442		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1
C443		CERAMIC CAP.(AX) B K 1000PF/50V	1	1	1	1	1	1	1
C444		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C445		CERAMIC CAP.(AX) SL J 68PF/50V	1	1	1	1	1	1	1
C446		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C447		CERAMIC CAP.(AX) SL J 68PF/50V	1	1	1	1	1	1	1
C448		ELECTROLYTIC CAP. 4.7UF/50V M H7	1	1	1	1	1	1	1
C449		CERAMIC CAP.(AX) SL J 68PF/50V	1	1	1	1	1	1	1
C450		CERAMIC CAP.(AX) SL J 68PF/50V	1	1	1	1	1	1	1
C452		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C471		CERAMIC CAP.(AX) Y M 0.01UF/16V						1	1
C472		CERAMIC CAP.(AX) Y M 0.01UF/16V						1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
C473		ELECTROLYTIC CAP. 1UF/50V M H7						1	1
C474		ELECTROLYTIC CAP. 0.47UF/50V M H7						1	1
C475		CERAMIC CAP.(AX) Y M 0.01UF/16V						1	1
C478		ELECTROLYTIC CAP. 10UF/25V M H7						1	1
C479		ELECTROLYTIC CAP. 0.47UF/50V M H7						1	1
C484		CERAMIC CAP.(AX) Y M 0.01UF/16V						1	1
C485		CERAMIC CAP.(AX) Y M 0.01UF/16V						1	1
C486		ELECTROLYTIC CAP. 0.47UF/50V M H7						1	1
C488		CERAMIC CAP.(AX) B K 820PF/50V						1	1
C489		CERAMIC CAP.(AX) B K 820PF/50V						1	1
C491		CERAMIC CAP.(AX) F Z 0.1UF/50V						1	1
C493		ELECTROLYTIC CAP. 2.2UF/50V M H7						1	1
C681		ELECTROLYTIC CAP. 10UF/50V M	1	1	1	1	1	1	1
C682		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1
C683		ELECTROLYTIC CAP. 100UF/16V M	1	1	1	1	1	1	1
C684		CERAMIC CAP.(AX) B K 100PF/50V	1	1	1	1	1	1	1
C685		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1
C687		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C701		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1	1
C702		CERAMIC CAP.(AX) B K 330PF/50V	1	1	1	1	1	1	1
C703		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C751		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1	1
C752		CERAMIC CAP.(AX) X M 6800PF/16V	1	1	1	1	1	1	1
C753		ELECTROLYTIC CAP. 0.22UF/50V M	1	1	1	1	1	1	1
C754		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1	1
C755		ELECTROLYTIC CAP. 10UF/50V M	1	1	1	1	1	1	1
C756		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C757		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1	1
C758		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1	1
C759		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C760		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C761		CERAMIC CAP.(AX) B K 1000PF/50V	1	1	1	1	1	1	1
C762		CERAMIC CAP.(AX) B K 270PF/50V	1	1	1	1	1	1	1
C767		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1	1
C768		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C769		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1	1
C773		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C774		CERAMIC CAP.(AX) SL J 68PF/50V	1	1	1	1	1	1	1
C775		CERAMIC CAP.(AX) SL J 68PF/50V	1	1	1	1	1	1	1
C776		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C777		CERAMIC CAP.(AX) B K 100PF/50V	1	1	1	1	1	1	1
C778		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C779		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C801		ELECTROLYTIC CAP. 330UF/16V M	1	1	1	1	1	1	1
C802		ELECTROLYTIC CAP. 470UF/16V M	1	1	1	1	1	1	1
C803		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1
C804		ELECTROLYTIC CAP. 0.22UF/50V M H7	1	1	1	1	1	1	1
C805		CERAMIC CAP.(AX) F Z 0.047UF/16V	1	1	1	1	1	1	1
C806		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C807		CERAMIC CAP.(AX) B K 330PF/50V	1	1	1	1	1	1	1
C809		CERAMIC CAP.(AX) B K 100PF/50V	1	1	1	1	1	1	1
C810		CERAMIC CAP.(AX) B K 100PF/50V	1	1	1	1	1	1	1
C811		CERAMIC CAP.(AX) F Z 0.047UF/16V	1	1	1	1	1	1	1
C813		FILM CAP.(P) 0.1UF/50V J	1	1	1	1	1	1	1
C851		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C852		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C853		CERAMIC CAP. B K 470PF/100V	1	1	1	1	1	1	1
C854		FILM CAP.(P) 0.018UF/100V J	1	1	1	1	1	1	1
C855		ELECTROLYTIC CAP. 220UF/6.3V M H7	1	1	1	1	1	1	1
C856		CERAMIC CAP.(AX) X M 1800PF/16V	1	1	1	1	1	1	1
C857		CERAMIC CAP.(AX) X M 1500PF/16V	1	1	1	1	1	1	1
C858		ELECTROLYTIC CAP. 4.7UF/50V M H7	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
C859		CERAMIC CAP.(AX) SL J 33PF/50V	1	1	1	1	1	1	1
C860		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1
C861		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C862		ELECTROLYTIC CAP. 33UF/10V H7	1	1	1	1	1	1	1
C863		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C864		CERAMIC CAP.(AX) Y N 0.022UF/6V	1	1	1	1	1	1	1
C865		ELECTROLYTIC CAP. 4.7UF/50V M H7	1	1	1	1	1	1	1
C866		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C867		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C868		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C869		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1
C870		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C871		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1
C872		CERAMIC CAP.(AX) B K 150PF/50V	1	1	1	1	1	1	1
C873		CERAMIC CAP.(AX) B K 150PF/50V	1	1	1	1	1	1	1
C874		CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1	1
C875		CERAMIC CAP.(AX) X M 4700PF/16V	1	1	1	1	1	1	1
C876		CERAMIC CAP.(AX) Y N 0.022UF/6V	1	1	1	1	1	1	1
C877		CERAMIC CAP.(AX) Y N 0.022UF/6V	1	1	1	1	1	1	1
		MISCELLANEOUS							
CF101	9965 000 13835	CERAMIC RESONATOR 4.433MHZ	1	1	1	1	1	1	1
CL301A	9965 000 13836	LEAD WIRE 4P/300	1	1	1	1	1	1	1
CL302A	9965 000 13837	LEAD WIRE 7P/230	1	1	1	1	1	1	1
CL603A	9965 000 13838	LEAD WIRE 15P(7+8)/330	1	1	1	1	1	1	1
CL702A	9965 000 13839	WIRE 140/BRO/AWG18#1007	1	1	1	1	1	1	1
1005	2422 542 90129	TUN SPLIF V+U PLL IEC BGDKI B	1	1		1	1		1
1005	2422 542 90132	TUN SPLIF V+U PLL IEC BGDKIL B			1			1	
1006	2422 542 90133	TUN IF V+U PLL IEC BGDKIL B			1			1	
1006	2422 542 90128	TUN IF V+U PLL IEC BGDKI B	1	1		1	1		1
1100		CRT A34EAC01X71 (PHCO) B	1	1	1	1	1	1	1
5000	3143 021 00011	DEG COIL FUNAI	1	1	1	1	1	1	1
8000	3143 021 00031	EARTH CABLE	1	1	1	1	1	1	1
8016	2422 070 98211	MAINS CORD EUR 2A5 1M7 BK B	1		1	1		1	1
8016	2422 070 98218	MAINS CORD UK 5A 1M8 BK B		1			1		
8200	3143 021 00021	TUNER CABLE	1	1	1	1	1	1	1
		CONNECTORS							
CN201	9965 000 13840	FFC/FPC CONNECTOR 12P 04 6232 112 103 800	1	1	1	1	1	1	1
CN303	9965 000 13841	CONNECTOR BASE, 5P TUC-P05P-B1	1	1	1	1	1	1	1
CN701	9965 000 05247	CONNECTOR BASE 4P TUC-P04P-B1	1	1	1	1	1	1	1
CN702	9965 000 05247	CONNECTOR BASE 4P TUC-P04P-B1	1	1	1	1	1	1	1
CN751	9965 000 13842	CONNECTOR BASE 8P TUC-P08P-B1	1	1	1	1	1	1	1
CN752	9965 000 13843	CONNECTOR BASE, 6P TUC-P06P-B1	1	1	1	1	1	1	1
CN801	9965 000 13844	STRAIGHT CONNECTOR BASE 00 8283 0212 00 000	1	1	1	1	1	1	1
		DIODES							
D201	9965 000 05250	LED SIR-563ST3F P	1	1	1	1	1	1	1
D203	9965 000 13846	LED(RED) L-1513EC	1	1	1	1	1	1	1
D206	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1
D207	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1
D208	9965 000 13847	DIODE 1N5397-B	1	1	1	1	1	1	1
D210	4822 130 83166	ZENER DIODE MTZJT-776.2B	1	1	1	1	1	1	1
D211	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D212		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
D213	4822 130 83166	ZENER DIODE MTZJT-776.2B	1	1	1	1	1	1	1
D214	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D215	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D216	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D217	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D218	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1
D301	9965 000 11153	ZENER DIODE MTZJT-778.2B	1	1	1	1	1	1	1
D304	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D305	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D306	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
D307	9965 000 11153	ZENER DIODE MTZJT-778.2B	1	1	1	1	1	1	1
D309	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D312	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D401	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D402	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D471	4822 130 32778	SWITCHING DIODE 1SS133(T-77)						1	1
D680	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D681	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D682	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D683	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D684	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1
D685	4822 130 11629	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1	1
D686	9965 000 13847	DIODE 1N5397-B	1	1	1	1	1	1	1
D702	4822 130 83166	ZENER DIODE MTZJT-776.2B	1	1	1	1	1	1	1
D751	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D752	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D754	9965 000 12904	ZENER DIODE DZ-5.1BSBT265	1	1	1	1	1	1	1
D755	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D757	4822 130 83166	ZENER DIODE MTZJT-776.2B	1	1	1	1	1	1	1
D758	4822 130 83166	ZENER DIODE MTZJT-776.2B	1	1	1	1	1	1	1
D759	4822 130 83166	ZENER DIODE MTZJT-776.2B	1	1	1	1	1	1	1
D760	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1
D761	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D762	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D763	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D764	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D801	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D802		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
D804	9965 000 13848	ZENER DIODE MTZJT-777.5B	1	1	1	1	1	1	1
D805	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D806	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
		IC's							
IC101	9965 000 13926	IC/VPS,PDC LC74793	1	1	1	1	1	1	1
IC201	9965 000 13849	MICRO COMPUTER M37760MFH7B7GP	1	1	1	1	1	1	1
IC202	9965 000 13030	IC:MEMORY BR24C04F-W	1	1	1	1	1	1	1
IC301	9965 000 13850	IC:CHROMA/IF 1 CHIP M61209FP-R609	1	1	1	1	1	1	1
IC401	9965 000 12180	IC:Y/C/A LA71750AM-MTB	1	1	1	1	1	1	1
IC471	9965 000 13927	IC:SECAM LA70100M-MPB						1	1
IC602	9965 000 13851	VOLTAGE REGULATOR KIA7805API	1	1	1	1	1	1	1
IC751	9965 000 13852	IC:SWITCH TC4053BF(N)	1	1	1	1	1	1	1
IC752	9965 000 13852	IC:SWITCH TC4053BF(N)	1	1	1	1	1	1	1
IC754	9965 000 13852	IC:SWITCH TC4053BF(N)	1	1	1	1	1	1	1
IC801	9965 000 13853	AUDIO AMP LA4224	1	1	1	1	1	1	1
		RCA JACK							
JK701	4822 265 11659	RCA JACK(YELLOW) MSP-281V4-B	1	1	1	1	1	1	1
JK702	4822 265 11661	RCA JACK(WHITE) MSP-281V1-B	1	1	1	1	1	1	1
JK751	9965 000 13854	SKIRT JACK 21P HRC-21V-02P	1	1	1	1	1	1	1
JK801	9965 000 13855	HEADPHONE JACK MSJ-035-10A B	1	1	1	1	1	1	1
		COILS							
L001	4822 157 10326	INDUCTOR 10UH-K-5FT	1	1	1	1	1	1	1
L002	9965 000 13856	INDUCTOR 1.0UH-J-26T	1	1	1	1	1	1	1
L003	9965 000 13856	INDUCTOR 1.0UH-J-26T	1	1	1	1	1	1	1
L101		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
L201	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1	1
L202	9965 000 13857	INDUCTOR 0.10UH-K-26T	1	1	1	1	1	1	1
L203	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1	1
L301	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1	1
L302	9965 000 13858	INDUCTOR 33UH-J-26T	1	1	1	1	1	1	1
L303	9965 000 13858	INDUCTOR 33UH-J-26T	1	1	1	1	1	1	1
L304		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
L401	9965 000 13859	INDUCTOR 22UH-J-26T	1	1	1	1	1	1	1
L403	9965 000 13858	INDUCTOR 33UH-J-26T	1	1	1	1	1	1	1



ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
L485		PCB JUMPER D0.6-P5.0						1	1
L751	9965 000 13860	INDUCTOR 12UH-J-26T	1	1	1	1	1	1	1
L752	9965 000 13861	INDUCTOR 1.2UH-J-26T	1	1	1	1	1	1	1
L801	9965 000 13856	INDUCTOR 1.0UH-J-26T	1	1	1	1	1	1	1
L851		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
L852	9965 000 05705	INDUCTOR 47UH-K-5FT	1	1	1	1	1	1	1
L853		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
L854		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
L856		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
		TRANSISTORS							
PI201	9965 000 12189	PHOTO INTERRUPTER RPI-302C70	1	1	1	1	1	1	1
Q205	9965 000 13862	TRANSISTOR 2SB892(S)	1	1	1	1	1	1	1
Q206	9965 000 08630	PHOTO TRANSISTOR PT204-6B-12	1	1	1	1	1	1	1
Q207	4822 130 10098	RES. BUILT-IN TRANSISTOR KRC103M	1	1	1	1	1	1	1
Q208	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q401	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1	1
Q402	4822 130 11101	TRANSISTOR 2SA1015-GR(TPE2)	1	1	1	1	1	1	1
Q471	9965 000 05643	TRANSISTOR 2SC2785(F)						1	1
Q680	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1
Q681	9965 000 13863	TRANSISTOR 2SD1913(R)	1	1	1	1	1	1	1
Q682	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q751	4822 130 11101	TRANSISTOR 2SA1015-GR(TPE2)	1	1	1	1	1	1	1
Q752	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q753	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q754	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q755	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q756	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q757	4822 130 11101	TRANSISTOR 2SA1015-GR(TPE2)	1	1	1	1	1	1	1
Q758	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q759	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q760	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1	1
Q761	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q851	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q852	4822 130 11101	TRANSISTOR 2SA1015-GR(TPE2)	1	1	1	1	1	1	1
Q853	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1
Q854	4822 130 10097	TRANSISTOR 2SC3331(T)	1	1	1	1	1	1	1
Q855	4822 130 10097	TRANSISTOR 2SC3331(T)	1	1	1	1	1	1	1
Q856	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1	1
Q857	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
		RESISTORS							
R002		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R102		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R103		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1
R104		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1
R105		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R106		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R107		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R201		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R202		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R203		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R204		CARBON RES. 1/4W J 390K OHM	1	1	1	1	1	1	1
R205		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R206		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R207		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R208		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R209		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1
R210		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R211		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R212		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R213		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R214		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1
R215		CARBON RES. 1/4W G 4.7K OHM	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
R216		CARBON RES. 1/4W G 1.5K OHM	1	1	1	1	1	1	1
R217		CARBON RES. 1/4W G 22K OHM	1	1	1	1	1	1	1
R218		CARBON RES. 1/4W G 470 OHM	1	1	1	1	1	1	1
R219		CARBON RES. 1/4W G 10K OHM	1	1	1	1	1	1	1
R220		CARBON RES. 1/4W G 3.6K OHM	1	1	1	1	1	1	1
R221		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R222		CARBON RES. 1/4W J 390K OHM	1	1	1	1	1	1	1
R223		CARBON RES. 1/4W J 270 OHM	1	1	1	1	1	1	1
R224		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1
R225		CARBON RES. 1/4W J 330 OHM	1	1	1	1	1	1	1
R226		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R227		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R228		CARBON RES. 1/4W J 680 OHM	1	1	1	1	1	1	1
R229		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R231		PCB JUMPER D0.6-P5.0	1	1	1	1	1		
R232		CARBON RES. 1/4W J 10K OHM						1	1
R233		CARBON RES. 1/4W J 10K OHM						1	1
R234		CARBON RES. 1/4W J 47 OHM	1	1	1	1	1	1	1
R236		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1
R237		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1
R238		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R239		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1	1
R240		CARBON RES. 1/4W J 330K OHM	1	1	1	1	1	1	1
R241		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R242		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R243		CARBON RES. 1/4W J 680 OHM	1	1	1	1	1	1	1
R244		CARBON RES. 1/4W J 680 OHM	1	1	1	1	1	1	1
R245		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R246		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R247		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R248		CARBON RES. 1/4W J 470 OHM	1	1	1	1	1	1	1
R249		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R250		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R257		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1
R258		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1
R259		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R260		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R261		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1
R262		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1
R263		CARBON RES. 1/4W J 68K OHM	1	1	1	1	1	1	1
R264		CARBON RES. 1/4W J 220K OHM	1	1	1	1	1	1	1
R265		CARBON RES. 1/4W J 33K OHM	1	1	1	1	1	1	1
R266		CARBON RES. 1/4W J 33K OHM	1	1	1	1	1	1	1
R267		CARBON RES. 1/4W J 180 OHM	1	1	1	1	1	1	1
R268		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R269		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1	1
R270		CARBON RES. 1/4W J 680 OHM	1	1	1	1	1	1	1
R271		CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1	1
R273		CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1	1
R274		CARBON RES. 1/4W J 1M OHM	1	1	1	1	1	1	1
R275		METAL OXIDE FILM RES. 1W J 2.2 OHM	1	1	1	1	1	1	1
R276		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R277		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1
R278		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R283		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R284		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R285		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R302		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R303		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R304		CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1	1
R305		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R306		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
R307		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R309		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1
R310		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1
R311		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1
R312		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R313		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R314		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R315		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R316		CARBON RES. 1/4W J 12 OHM	1	1	1	1	1	1	1
R318		CARBON RES. 1/4W J 220K OHM	1	1	1	1	1	1	1
R319		CARBON RES. 1/4W J 4.7K OHM	1	1	1	1	1	1	1
R320		CARBON RES. 1/4W J 150K OHM	1	1	1	1	1	1	1
R321		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1
R322		CARBON RES. 1/4W J 220K OHM	1	1	1	1	1	1	1
R323		CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1	1
R325		CARBON RES. 1/4W J 1M OHM	1	1	1	1	1	1	1
R327		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R328		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1
R329		CARBON RES. 1/4W J 3.9K OHM	1	1	1	1	1	1	1
R334		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1
R335		CARBON RES. 1/4W J 18K OHM	1	1	1	1	1	1	1
R336		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R337		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R338		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R352		CARBON RES. 1/4W J 22 OHM	1	1	1	1	1	1	1
R353		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1
R391		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R392		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R393		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R400		CARBON RES. 1/4W J 4.7K OHM	1	1	1	1	1	1	1
R401		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1
R402		CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1	1
R405		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1
R406		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R407		CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1	1
R408		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1
R409		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R410		CARBON RES. 1/4W J 18K OHM	1	1	1	1	1	1	1
R411		CARBON RES. 1/4W J 4.7K OHM	1	1	1	1	1	1	1
R412		CARBON RES. 1/4W J 18K OHM	1	1	1	1	1	1	1
R413		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R414		CARBON RES. 1/4W J 3.3K OHM	1	1	1	1	1	1	1
R415		CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1	1
R416		CARBON RES. 1/4W J 4.7K OHM	1	1	1	1	1	1	1
R417		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1
R420		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R421		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1
R424		CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1	1
R425		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1
R426		CARBON RES. 1/4W J 330 OHM	1	1	1	1	1	1	1
R427		CARBON RES. 1/4W J 330 OHM	1	1	1	1	1	1	1
R428		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1
R429		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R430		CARBON RES. 1/4W J 680 OHM	1	1	1	1	1	1	1
R431		CARBON RES. 1/4W J 390K OHM	1	1	1	1	1	1	1
R471		PCB JUMPER D0.6-P5.0						1	1
R473		CARBON RES. 1/4W J 2.2K OHM						1	1
R475		CARBON RES. 1/4W J 2.7K OHM						1	1
R476		CARBON RES. 1/4W J 1.8K OHM						1	1
R680		METAL OXIDE FILM RES. 2W J 47 OHM	1	1	1	1	1	1	1
R681		METAL OXIDE FILM RES. 2W J 47 OHM	1	1	1	1	1	1	1
R682		CARBON RES. 1/2W J 5.6 OHM	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
R683		METAL OXIDE FILM RES. 2W J 2.2 OHM	1	1	1	1	1	1	1
R684		CARBON RES. 1/4W J 10 OHM	1	1	1	1	1	1	1
R685		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R686		METAL OXIDE FILM RES. 2W J 2.2 OHM	1	1	1	1	1	1	1
R687		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R688		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R701		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R702		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1	1
R703		CARBON RES. 1/4W J 75 OHM	1	1	1	1	1	1	1
R704		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R750		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R751		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R752		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1	1
R753		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R754		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R755		CARBON RES. 1/4W J 4.7K OHM	1	1	1	1	1	1	1
R756		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R757		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R758		CARBON RES. 1/4W J 75 OHM	1	1	1	1	1	1	1
R759		CARBON RES. 1/4W J 390 OHM	1	1	1	1	1	1	1
R760		CARBON RES. 1/4W J 75 OHM	1	1	1	1	1	1	1
R761		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R762		CARBON RES. 1/4W J 3.3K OHM	1	1	1	1	1	1	1
R763		CARBON RES. 1/4W J 750 OHM	1	1	1	1	1	1	1
R766		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1
R767		CARBON RES. 1/4W J 33K OHM	1	1	1	1	1	1	1
R768		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R770		CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1	1
R771		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1
R772		CARBON RES. 1/4W J 33K OHM	1	1	1	1	1	1	1
R774		CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1	1
R775		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R777		CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1	1
R778		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R779		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1
R780		CARBON RES. 1/4W J 33K OHM	1	1	1	1	1	1	1
R787		CARBON RES. 1/4W J 6.2K OHM	1	1	1	1	1	1	1
R788		CARBON RES. 1/4W J 6.2K OHM	1	1	1	1	1	1	1
R789		CARBON RES. 1/4W J 6.2K OHM	1	1	1	1	1	1	1
R790		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R791		CARBON RES. 1/4W J 75 OHM	1	1	1	1	1	1	1
R792		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R793		CARBON RES. 1/4W J 75 OHM	1	1	1	1	1	1	1
R794		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R795		CARBON RES. 1/4W J 75 OHM	1	1	1	1	1	1	1
R796		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R797		CARBON RES. 1/4W J 4.7K OHM	1	1	1	1	1	1	1
R798		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R799		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R801		METAL OXIDE FILM RES. 1W J 12 OHM	1	1	1	1	1	1	1
R802		CARBON RES. 1/4W J 10 OHM	1	1	1	1	1	1	1
R803		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1
R804		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R805		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R806		CARBON RES. 1/4W J 47 OHM	1	1	1	1	1	1	1
R807		CARBON RES. 1/4W J 47 OHM	1	1	1	1	1	1	1
R810		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R812		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1
R814		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R815		CARBON RES. 1/4W J 470K OHM	1	1	1	1	1	1	1
R816		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1
R817		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
R818		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1
R819		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R820		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R821		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R822		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R823		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R824		CARBON RES. 1/4W J 75 OHM	1	1	1	1	1	1	1
R825		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R826		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R828		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R829		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R830		CARBON RES. 1/4W J 220K OHM	1	1	1	1	1	1	1
R831		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R834		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1
R835		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1
R836		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R851		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1
R852		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R853		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1
R854		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R855		CARBON RES. 1/4W J 820 OHM	1	1	1	1	1	1	1
R856		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R857		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R859		CARBON RES. 1/4W J 680 OHM	1	1	1	1	1	1	1
R860		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R861		CARBON RES. 1/4W J 120 OHM	1	1	1	1	1	1	1
R862		CARBON RES. 1/4W J 330K OHM	1	1	1	1	1	1	1
R863		CARBON RES. 1/4W J 12K OHM	1	1	1	1	1	1	1
R864		CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1	1
R865		CARBON RES. 1/4W J 12K OHM	1	1	1	1	1	1	1
R866		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R867		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R868		CARBON RES. 1/4W J 4.7K OHM	1	1	1	1	1	1	1
R869		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R870		CARBON RES. 1/4W J 4.7K OHM	1	1	1	1	1	1	1
R871		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R872		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R874		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1
R875		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R876		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1
R877		CARBON RES. 1/4W J 12K OHM	1	1	1	1	1	1	1
R878		CARBON RES. 1/4W J 1M OHM	1	1	1	1	1	1	1
R879		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
RS201	9965 000 08668	REMOTE RECEIVER PIC-37042LU	1	1	1	1	1	1	1
RS201	9965 000 10857	REMOTE RECEIVER MIM-93M6DKF	1	1	1	1	1	1	1
		SWITCHES							
SW201	9965 000 13864	TACT SWITCH SKQSAB	1	1	1	1	1	1	1
SW202	9965 000 13864	TACT SWITCH SKQSAB	1	1	1	1	1	1	1
SW203	9965 000 13864	TACT SWITCH SKQSAB	1	1	1	1	1	1	1
SW204	9965 000 13864	TACT SWITCH SKQSAB	1	1	1	1	1	1	1
SW205	9965 000 13864	TACT SWITCH SKQSAB	1	1	1	1	1	1	1
SW206	9965 000 13864	TACT SWITCH SKQSAB	1	1	1	1	1	1	1
SW207	9965 000 13864	TACT SWITCH SKQSAB	1	1	1	1	1	1	1
SW208	9965 000 13864	TACT SWITCH SKQSAB	1	1	1	1	1	1	1
SW209	9965 000 13864	TACT SWITCH SKQSAB	1	1	1	1	1	1	1
SW210	9965 000 13864	TACT SWITCH SKQSAB	1	1	1	1	1	1	1
SW211	9965 000 12285	LEAF SWITCH LSA-1142AU	1	1	1	1	1	1	1
SW212	9965 000 08561	ROTARY MODE SWITCH SSS-43MD	1	1	1	1	1	1	1
		MISCELLANEOUS							
TB3	9965 000 13865	HEAD SHIELD T6300RA	1	1	1	1	1	1	1
TB7	9965 000 13866	LED HOLDER T6300RA	1	1	1	1	1	1	1
TB15	9965 000 12173	ROHM HOLDER H7770JD	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
TB21	9965 000 08566	BUSH, LED(F) H3700UD	1	1	1	1	1	1	1
TB31	9965 000 13867	HEAD SHIELD COVER T6300RA	1	1	1	1	1	1	1
TB3-1	9965 000 13868	HEAD SHIELD T6300RA	1	1	1	1	1	1	1
TB3-2	9965 000 13870	EARTH PLATE S T6300RA	1	1	1	1	1	1	1
TP001		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1
TP002		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1	1
TP003		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1
TP004		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1	1
TP006		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1	1
TP007		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1	1
X201	9965 000 09200	X*TAL 32.768KHZ(20PPM)	1	1	1	1	1	1	1
X202	9965 000 12194	X*TAL 12.000MHZ	1	1	1	1	1	1	1
X301	9965 000 13869	X*TAL 4.433619MHZ	1	1	1	1	1	1	1
X401	9965 000 05629	X*TAL 4.433619MHZ	1	1	1	1	1	1	1
		JUNCTION A CBA	1	1	1	1	1	1	1
CN603	9965 000 13871	CONNECTOR, 15P TUC-P15X-B1	1	1	1	1	1	1	1
		JUNCTION B CBA	1	1	1	1	1	1	1
CN302	9965 000 13872	CONNECTOR, 7P TUC-P07X-B1	1	1	1	1	1	1	1
		JUNCTION C CBA	1	1	1	1	1	1	1
CN301	9965 000 05261	CONNECTOR 4P TUC-P04X-B1	1	1	1	1	1	1	1
		SENSOR CBA							
Q201	9965 000 08630	PHOTO TRANSISTOR PT204-6B-12	1	1	1	1	1	1	1
Q202	9965 000 08630	PHOTO TRANSISTOR PT204-6B-12	1	1	1	1	1	1	1
		POWER CBA							
		Consists of the followings							
		H.V./POWER SUPPLY CBA	1	1	1	1	1	1	1
		CRT CBA	1	1	1	1	1	1	1
		JUNCTION D CBA	1	1	1	1	1	1	1
		JUNCTION E CBA	1	1	1	1	1	1	1
		H.V./POWER SUPPLY CBA	1	1	1	1	1	1	1
BC571	9965 000 13874	BEAD INDUCTORS FBA04HA600VB-00	1	1	1	1	1	1	1
BC602	9965 000 13875	BEAD INDUCTORS FBR07HA121TB-00	1	1	1	1	1	1	1
BC603	9965 000 13875	BEAD INDUCTORS FBR07HA121TB-00	1	1	1	1	1	1	1
BC604	9965 000 13875	BEAD INDUCTORS FBR07HA121TB-00	1	1	1	1	1	1	1
BC605		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
BC606		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
		CAPACITORS							
C552		FILM CAP.(P) 0.047UF/50V J	1	1	1	1	1	1	1
C553		ELECTROLYTIC CAP. 2.2UF/50V M LL	1	1	1	1	1	1	1
C555		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1
C556		ELECTROLYTIC CAP. 1000UF/25V M	1	1	1	1	1	1	1
C558		CERAMIC CAP.(AX) B K 0.01UF/50V	1	1	1	1	1	1	1
C559		ELECTROLYTIC CAP. 330UF/35V M	1	1	1	1	1	1	1
C562		ELECTROLYTIC CAP. 10UF/160V M	1	1	1	1	1	1	1
C571		P.P. CAP 0.18UF/200V J	1	1	1	1	1	1	1
C572		P.P. CAP 0.15UF/200V J	1	1	1	1	1	1	1
C574		ELECTROLYTIC CAP. 4.7UF/250V M	1	1	1	1	1	1	1
C577		FILM CAP.(P) 0.01UF/50V J	1	1	1	1	1	1	1
C578		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1
C580		P.P. CAP 0.0082UF/1.6K J	1	1	1	1	1	1	1
C581		CERAMIC CAP. BN 680PF/2KV	1	1	1	1	1	1	1
C584		ELECTROLYTIC CAP. 1UF/160V M	1	1	1	1	1	1	1
C591		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C592		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1	1
C604	▲ 9965 000 14279	SAFETY CAP. 2200PF/250V KX	1	1	1	1	1	1	1
C607	▲ 9965 000 14280	METALLIZED FILM CAP. 0.1UF/250V	1	1	1	1	1	1	1
C608	▲ 9965 000 14280	METALLIZED FILM CAP. 0.1UF/250V	1	1	1	1	1	1	1
C609		CERAMIC CAP. F Z 0.01UF/500V	1	1	1	1	1	1	1
C610		CERAMIC CAP. F Z 0.01UF/500V	1	1	1	1	1	1	1
C611		CERAMIC CAP. F Z 0.01UF/500V	1	1	1	1	1	1	1
C612		CERAMIC CAP. F Z 0.01UF/500V	1	1	1	1	1	1	1
C613		ELECTROLYTIC CAP. 100UF/400V M	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
C614		FILM CAP.(P) 0.082UF/50V J	1	1	1	1	1	1	1
C615		CERAMIC CAP. BN J 220PF/2KV	1	1	1	1	1	1	1
C616		FILM CAP.(P) 0.001UF/50V J	1	1	1	1	1	1	1
C618		FILM CAP.(P) 0.047UF/50V J	1	1	1	1	1	1	1
C621		CERAMIC CAP. BN 680PF/2KV	1	1	1	1	1	1	1
C623		ELECTROLYTIC CAP. 470UF/35V M	1	1	1	1	1	1	1
C624		ELECTROLYTIC CAP. 1000UF/16V M	1	1	1	1	1	1	1
C625		ELECTROLYTIC CAP. 470UF/25V M	1	1	1	1	1	1	1
C628		ELECTROLYTIC CAP. 100UF/160V M	1	1	1	1	1	1	1
C629		CERAMIC CAP.(AX) B K 0.01UF/50V	1	1	1	1	1	1	1
C630		ELECTROLYTIC CAP. 470UF/16V M	1	1	1	1	1	1	1
C631		ELECTROLYTIC CAP. 1000UF/16V M	1	1	1	1	1	1	1
C632		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C639		CERAMIC CAP.(AX) SL J 68PF/50V	1	1	1	1	1	1	1
C641		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1	1
C647		ELECTROLYTIC CAP. 100UF/16V M	1	1	1	1	1	1	1
C648		ELECTROLYTIC CAP. 100UF/16V M	1	1	1	1	1	1	1
C649		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1
C654		CERAMIC CAP.(AX) F Z 0.047UF/16V	1	1	1	1	1	1	1
C655		ELECTROLYTIC CAP. 220UF/6.3V M	1	1	1	1	1	1	1
C666		ELECTROLYTIC CAP. 470UF/16V M	1	1	1	1	1	1	1
		CONNECTORS							
CN571	9965 000 13876	CONNECTOR BASE, 5P TV-50P-05-V3	1	1	1	1	1	1	1
CN601	9965 000 13877	CONNECTOR BASE, 2P TV-50P-02-V3	1	1	1	1	1	1	1
CN602	9965 000 13878	CONNECTOR BASE 15P TUC-P15P-B1	1	1	1	1	1	1	1
		DIODES							
D552	9965 000 13847	DIODE 1N5397-B	1	1	1	1	1	1	1
D571	9965 000 13879	DIODE FR154	1	1	1	1	1	1	1
D572	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1
D573		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
D584	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D585	9965 000 12904	ZENER DIODE DZ-5.1BSBT265	1	1	1	1	1	1	1
D591	9965 000 13881	ZENER DIODE MTZJT-7736B	1	1	1	1	1	1	1
D593		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
D595	9965 000 13882	ZENER DIODE MTZJT-7718B	1	1	1	1	1	1	1
D596	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D597	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D598	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1
D603	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1
D604	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1
D605	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1
D606	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1
D608	9965 000 13884	ZENER DIODE MTZJT-7720C	1	1	1	1	1	1	1
D609	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D613	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1
D614	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D621	9965 000 13885	FAST RECOVERY DIODE CA201-4	1	1	1	1	1	1	1
D622	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1
D623	9965 000 13886	DIODE 1ZC33	1	1	1	1	1	1	1
D624	4822 130 80601	SCHOTTKY BARRIER DIODE ERB81-004	1	1	1	1	1	1	1
D625	4822 130 83194	SCHOTTKY BARRIER DIODE 11EQS04	1	1	1	1	1	1	1
D626	4822 130 83883	RECTIFIER DIODE FR202	1	1	1	1	1	1	1
D627	4822 130 83194	SCHOTTKY BARRIER DIODE 11EQS04	1	1	1	1	1	1	1
D629	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1
D631	4822 130 11629	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1	1
D632	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D634	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D635	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D636	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D637	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D638	9965 000 13887	ZENER DIODE MTZJT-7716B	1	1	1	1	1	1	1
D639	4822 130 81729	ZENER DIODE MTZJT-7733C	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
D640	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D641	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D643	9965 000 13888	ZENER DIODE MTZJT-776.8A	1	1	1	1	1	1	1
D644	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D645	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D646	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D647	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D648	9965 000 11153	ZENER DIODE MTZJT-778.2B	1	1	1	1	1	1	1
D649	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D650	9965 000 13889	ZENER DIODE MTZJT-7724B	1	1	1	1	1	1	1
D651	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
F601	▲ 9965 000 13890	FUSE 4A/250V 215004	1	1	1	1	1	1	1
FH601	4822 256 10461	FUSE HOLDER MSF-015	1	1	1	1	1	1	1
FH602	4822 256 10461	FUSE HOLDER MSF-015	1	1	1	1	1	1	1
		IC's							
IC551	9965 000 13891	VERTICAL OUTPUT IC AN5522	1	1	1	1	1	1	1
IC601	▲ 9965 000 13892	PHOTO COUPLER LTV817MBF	1	1	1	1	1	1	1
		COILS							
L572	9965 000 13893	INDUCTOR 100UH-J-26T	1	1	1	1	1	1	1
L601	9965 000 13894	LINE FILTER ELF15N007A	1	1	1	1	1	1	1
L602	9965 000 13894	LINE FILTER ELF15N007A	1	1	1	1	1	1	1
L603		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
L604		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
L605	9965 000 05627	CHOKO COIL 47UH-K	1	1	1	1	1	1	1
PB1	9965 000 13895	POWER PCB HOLDER T6300RA	1	1	1	1	1	1	1
PB4		13V H/V HEAT SINK(PDX) T5100UA	1	1	1	1	1	1	1
PB5		13VPOW HEAT SINK PFD ASSEMBLY T5200UA	1	1	1	1	1	1	1
PL1	9965 000 08646	SCREW, P-TIGHT 3X12 WASHER HEAD+	1	1	1	1	1	1	1
PL2	9965 000 12171	SCREW, B-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1	1
PL2	9965 000 12171	SCREW, B-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1	1
PS602	9965 000 13896	THERMISTOR ZPB31BL9R0A	1	1	1	1	1	1	1
		TRANSISTORS							
Q571	9965 000 13897	TRANSISTOR TT2084LS-YB11	1	1	1	1	1	1	1
Q572	9965 000 13899	TRANSISTOR 2SC1627Y-TPE2	1	1	1	1	1	1	1
Q591	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q601	9965 000 13901	MOS FET 2SK2647	1	1	1	1	1	1	1
Q602	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1
Q611	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q612	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q613	9965 000 13900	TRANSISTOR 2SA950(O)	1	1	1	1	1	1	1
Q614	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q616	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1
Q617	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1
Q619	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1	1
		RESISTORS							
R551		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R552		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R556		CARBON RES. 1/4W J 4.7 OHM	1	1	1	1	1	1	1
R557		CARBON RES. 1/4W J 270 OHM	1	1	1	1	1	1	1
R558		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R559		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R560		CARBON RES. 1/4W J 3.9K OHM	1	1	1	1	1	1	1
R561		CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1	1
R562		CARBON RES. 1/4W J 5.6 OHM	1	1	1	1	1	1	1
R563		CARBON RES. 1/4W J 5.6 OHM	1	1	1	1	1	1	1
R565		CARBON RES. 1/4W J 3.9 OHM	1	1	1	1	1	1	1
R566		CARBON RES. 1/4W J 3.9 OHM	1	1	1	1	1	1	1
R567		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R570		CARBON RES. 1/4W J 3.9 OHM	1	1	1	1	1	1	1
R573		CARBON RES. 1/4W J 470 OHM	1	1	1	1	1	1	1
R574		METAL OXIDE FILM RES. 2W J 1.5K OHM	1	1	1	1	1	1	1
R575		METAL OXIDE FILM RES. 2W J 1.5K OHM	1	1	1	1	1	1	1



ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
R576		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R577		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1
R578		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R579		METAL OXIDE FILM RES. 2W J 1.5K OHM	1	1	1	1	1	1	1
R581		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R583		METAL OXIDE FILM RES. 1W J 1.8 OHM	1	1	1	1	1	1	1
R584		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R585		CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1	1
R586		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R587		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1	1
R588		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1	1
R590		METAL OXIDE FILM RES. 2W J 100 OHM	1	1	1	1	1	1	1
R591		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R592		CARBON RES. 1/6W J 180K OHM	1	1	1	1	1	1	1
R593		CARBON RES. 1/6W J 56K OHM	1	1	1	1	1	1	1
R594		CARBON RES. 1/6W J 56K OHM	1	1	1	1	1	1	1
R595		CARBON RES. 1/6W J 10K OHM	1	1	1	1	1	1	1
R596		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R597		CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1	1
R598		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R599		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R601		ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1	1
R602	▲ RW051R8PG001	CEMENT RESISTOR 5W K 1.8 OHM	1	1	1	1	1	1	1
R602	▲ 9965 000 14277	CEMENT RESISTOR 5W 1.8 OHM	1	1	1	1	1	1	1
R603	▲ 9965 000 14278	CEMENT RES. 5W K 0.68 OHM	1	1	1	1	1	1	1
R604		CARBON RES. 1/4W J 22 OHM	1	1	1	1	1	1	1
R605		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R606		CARBON RES. 1/4W J 1.5M OHM	1	1	1	1	1	1	1
R607		CARBON RES. 1/4W J 1.5M OHM	1	1	1	1	1	1	1
R609		CARBON RES. 1/4W J 1.5M OHM	1	1	1	1	1	1	1
R611		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R612		CARBON RES. 1/4W J 470K OHM	1	1	1	1	1	1	1
R613		CARBON RES. 1/4W J 180 OHM	1	1	1	1	1	1	1
R614		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1
R617		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1
R618		CARBON RES. 1/4W J 56 OHM	1	1	1	1	1	1	1
R620		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R621		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1
R625		CARBON RES. 1/4W J 180 OHM	1	1	1	1	1	1	1
R626		CARBON RES. 1/4W 2.2 OHM J	1	1	1	1	1	1	1
R628		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1
R629		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1
R630		CARBON RES. 1/4W J 33K OHM	1	1	1	1	1	1	1
R631		CARBON RES. 1/4W J 39K OHM	1	1	1	1	1	1	1
R632		CARBON RES. 1/4W J 39K OHM	1	1	1	1	1	1	1
R633		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R634		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1
R635		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1
R636		CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1	1
R637		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R638		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1
R639		CARBON RES. 1/4W J 270 OHM	1	1	1	1	1	1	1
R640		CEMENT RES. 5W K 3.3K OHM	1	1	1	1	1	1	1
R641		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1
R642		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1
R643		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1
R644		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1
R645		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1
R646		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1
R647		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1
R648		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1
R649		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
R650		CARBON RES. 1/4W J 56K OHM	1	1	1	1	1	1	1
R651		METAL OXIDE FILM RES. 2W J 680 OHM	1	1	1	1	1	1	1
R652		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1
R659		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1
R660		CARBON RES. 1/4W J 390 OHM	1	1	1	1	1	1	1
R662		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R663		METAL OXIDE FILM RES. 2W J 33 OHM	1	1	1	1	1	1	1
R664		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1
R668		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1
R669		ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1	1
R670		ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1	1
SA601	▲ 9965 000 13898	SURGE ABSORBER PVR-07D471KB	1	1	1	1	1	1	1
SW601	▲ 9965 000 13902	POWER SWITCH SDKVA30100	1	1	1	1	1	1	1
		TRANSISTORS							
T571	9965 000 13903	FLYBACK TRANS BSC21-2016S	1	1	1	1	1	1	1
T572	9965 000 13904	HORIZONTAL DRIVE TRANS LP2-005	1	1	1	1	1	1	1
T601	▲ 9965 000 13905	SWITCHING TRANS 17711-S03	1	1	1	1	1	1	1
TM601	▲	TAB 42018	1	1	1	1	1	1	1
TM602	▲	TAB 42018	1	1	1	1	1	1	1
TP501		PCB JUMPER D0.6-P15.0	1	1	1	1	1	1	1
TP502		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1	1
TP503		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1
TP504		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1	1
VR601	9965 000 13906	CARBON P.O.T. 10K OHM B	1	1	1	1	1	1	1
		CRT CBA	1	1	1	1	1	1	1
		CAPACITORS							
C501	9965 000 13907	CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1	1
C502	9965 000 13907	CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1	1
C503	9965 000 13907	CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1	1
C507	9965 000 13908	ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1
C510	9965 000 13909	CERAMIC CAP. B K 1000PF/2KV	1	1	1	1	1	1	1
		CONNECTORS							
CL501A	9965 000 13910	LEAD WIRE 3P/280	1	1	1	1	1	1	1
CN501	9965 000 13911	PIN CONNECTOR 005P-5100	1	1	1	1	1	1	1
CN503	9965 000 13912	CONNECTOR BASE, 7P TUC-P07P-B1	1	1	1	1	1	1	1
CN504	9965 000 05247	CONNECTOR BASE 4P TUC-P04P-B1	1	1	1	1	1	1	1
JK501	9965 000 13913	CRT SOCKET ISMS01S	1	1	1	1	1	1	1
L501		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
L505	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1	1
		TRANSISTORS							
Q501	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1	1
Q502	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1	1
Q503	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1	1
		RESISTORS							
R501		METAL OXIDE FILM RES. 1W J 15K OHM	1	1	1	1	1	1	1
R502		METAL OXIDE FILM RES. 1W J 15K OHM	1	1	1	1	1	1	1
R503		METAL OXIDE FILM RES. 1W J 15K OHM	1	1	1	1	1	1	1
R504		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R505		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R506		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R507		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R508		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R509		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R510		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R511		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1	1
R512		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1	1
R513		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1	1
R514		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R515		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R516		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1
R517		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1
R518		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1

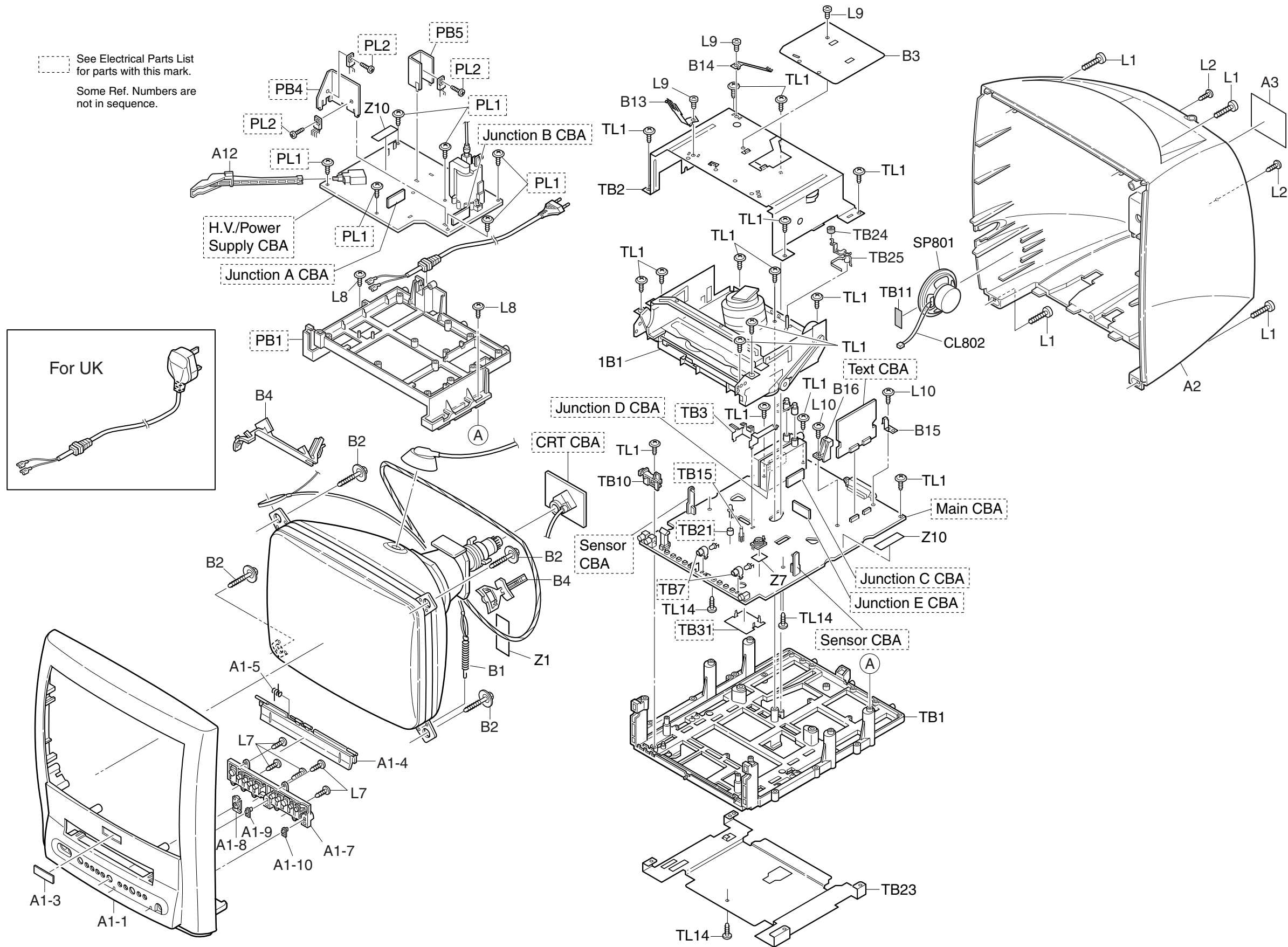
ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
R519		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1
R520		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1
R521		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1
		JUNCTION D CBA	1	1	1	1	1	1	1
CN505	9965 000 05261	CONNECTOR 4P TUC-P04X-B1	1	1	1	1	1	1	1
CL505A	9965 000 13914	WIRE 250/BRO/AWG18#1007	1	1	1	1	1	1	1
		JUNCTION E CBA	1	1	1	1	1	1	1
CN506	9965 000 05261	CONNECTOR 4P TUC-P04X-B1	1	1	1	1	1	1	1
CL506	9965 000 13915	WIRE 240/BRO/AWG18#1007	1	1	1	1	1	1	1
		TEXT CBA							
		CAPACITORS							
C901		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C902		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C904		CERAMIC CAP.(AX) B K 100PF/50V	1	1	1	1	1	1	1
C905		STACKED FILM CAP. 0.47UF/50V J	1	1	1	1	1	1	1
C906		ELECTROLYTIC CAP. 22UF/16V M	1	1	1	1	1	1	1
C908		ELECTROLYTIC CAP. 10UF/50V M	1	1	1	1	1	1	1
C909		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C910		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C911		ELECTROLYTIC CAP. 10UF/50V M	1	1	1	1	1	1	1
C912		CERAMIC CAP.(AX) B K 330PF/50V	1	1	1	1	1	1	1
C914		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C915		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C916		CERAMIC CAP.(AX) Y N 0.022UF/6V	1	1	1	1	1	1	1
C917		CERAMIC CAP.(AX) SL J 33PF/50V	1	1	1	1	1	1	1
C918		CERAMIC CAP.(AX) SL J 33PF/50V	1	1	1	1	1	1	1
C919		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C920		CERAMIC CAP.(AX) Y N 0.022UF/6V	1	1	1	1	1	1	1
C921		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C922		ELECTROLYTIC CAP. 10UF/50V M	1	1	1	1	1	1	1
C923		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C924		ELECTROLYTIC CAP. 10UF/50V M	1	1	1	1	1	1	1
C925		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1	1
C926		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C927		CERAMIC CAP.(AX) F Z 0.1UF/50V	1	1	1	1	1	1	1
C928		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
C929		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1	1
C930		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1	1
CN901	9965 000 13916	CONNECTOR 8P TUC-P08X-B1	1	1	1	1	1	1	1
CN902	9965 000 13917	CONNECTOR, 6P TUC-P06X-B1	1	1	1	1	1	1	1
		DIODES							
D901		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
D902		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
D903		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
D904		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
D908	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D909	9965 000 01155	ZENER DIODE MTZJT-773.9B	1	1	1	1	1	1	1
D910	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D911	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1
D912	4822 130 11629	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1	1
		IC's							
IC901	9965 000 13918	IC:TEXT 1PAGE ET-TV031A	1	1	1	1	1	1	1
IC902	9965 000 13851	VOLTAGE REGULATOR KIA7805API	1	1	1	1	1	1	1
Q901	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
Q903	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1
Q904	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1
		RESISTORS							
R901		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R902		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1
R903		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1
R904		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1
R905		CARBON RES. 1/4W J 4.7K OHM	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	▲ 12 NC	Description							
R906		CARBON RES. 1/4W J 12K OHM	1	1	1	1	1	1	1
R907		CARBON RES. 1/4W J 12K OHM	1	1	1	1	1	1	1
R908		CARBON RES. 1/4W J 12K OHM	1	1	1	1	1	1	1
R913		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1
R914		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R915		CARBON RES. 1/4W J 150 OHM	1	1	1	1	1	1	1
R916		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R917		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R919		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R920		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1	1
R921		CARBON RES. 1/4W J 47 OHM	1	1	1	1	1	1	1
R922		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R923		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
R930		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1
R931		CARBON RES. 1/4W J 150 OHM	1	1	1	1	1	1	1
R932		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1
R933		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1
R934		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1
R936		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1
R937		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1
R940		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1
X901	9965 000 13919	X'TAL :13.875MHZ CSA-309	1	1	1	1	1	1	1

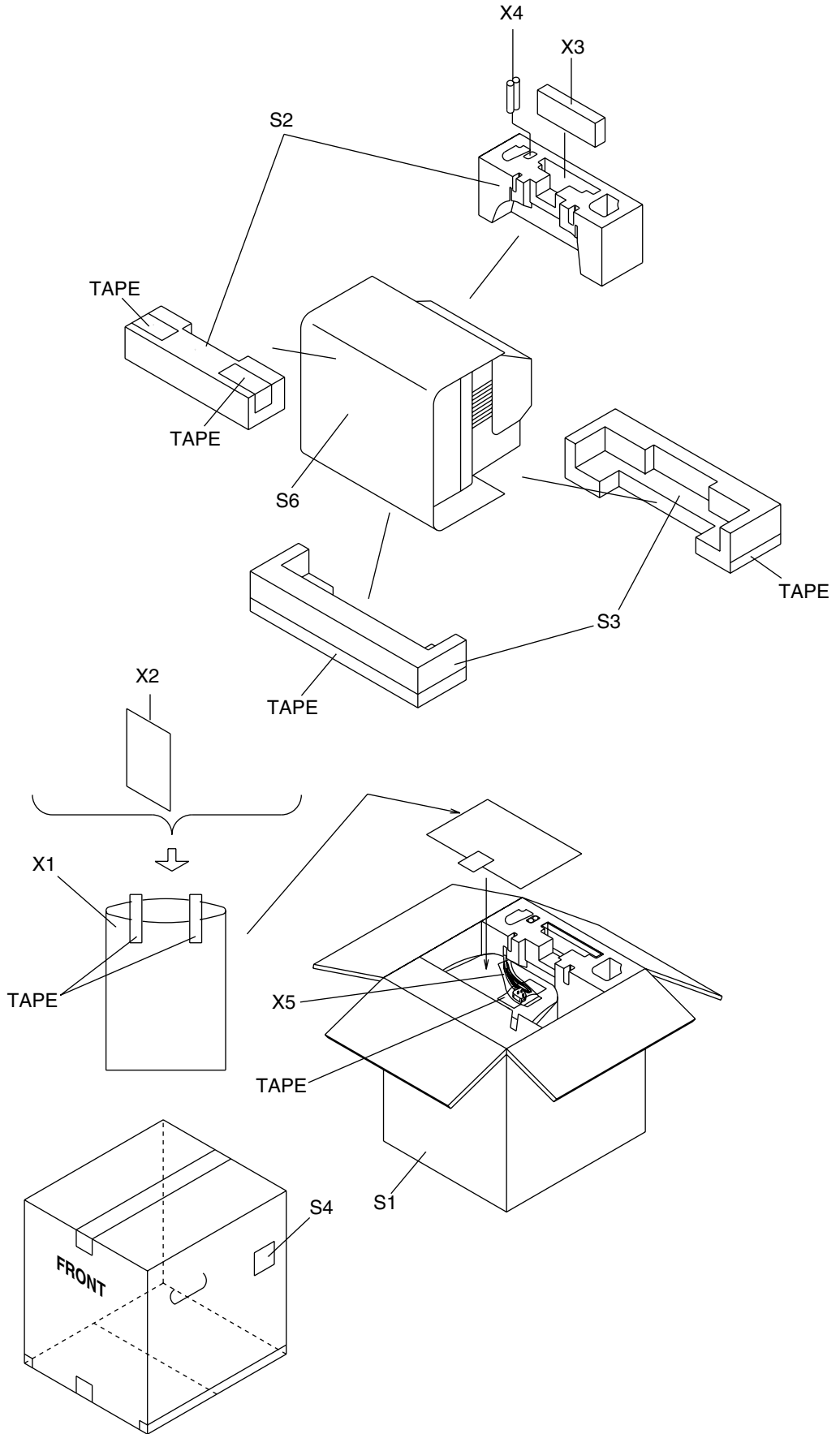
# EXPLODED VIEWS

## Cabinet

See Electrical Parts List for parts with this mark.  
Some Ref. Numbers are not in sequence.



# Packing



**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:**

Pos.1 consists of

A1-1	A1-8
A1-3	A1-9
A1-4	A1-10
A1-5	L7
A1-7	

<b>MECHANICAL PARTS LIST</b>				14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	Pos. Exploded View	▲ 12 NC	Description							
1	*)	3143 027 60061	FRONT ASSY 14PV360/07		1					
1	*)	3143 027 60101	FRONT ASSY 14PV365/39						1	
1	*)	3143 027 60071	FRONT ASSY 14PV360/39			1				
1	*)	3143 027 60011	FRONT ASSY 14PV360/01	1						
1	*)	3143 027 60081	FRONT ASSY 14PV365/01/58				1			1
1	*)	3143 027 60091	FRONT ASSY 14PV365/07					1		
1	A1-1		FRONT CAB (A) GR PH001	1	1	1	1	1	1	1
11	A1-3		WORDMARK PHILIPS	1	1	1				
11	A1-3		WORDMARK PHILIPS				1	1	1	1
5	A1-4		CASSETTE DOOR (A) GR PH001	1	1	1	1	1	1	1
6	A1-5		LEG SPRING	1	1	1	1	1	1	1
7	A1-8		LED LENS A (C)	1	1	1	1	1	1	1
8	A1-9		LED LENS A (R)	1	1	1	1	1	1	1
10	L7		SCR PAN TORX TAP ST ZN BK 3X10	1	1	1	1	1	1	1
9		3143 027 50181	FUNCTION KNOB (A) GR PH001	1	1	1	1	1	1	1
31	B15	3143 021 20021	TE HOLDER	1	1	1	1	1	1	1
55	L1		SCREW	1	1	1	1	1	1	1
56	L2		PAN HEAD TAPPING SCREW M4X12	1	1	1	1	1	1	1
59	TL1		SCR PAN TORX TAP ST ZN BK 3X10	1	1	1	1	1	1	1
70	A2	3143 027 50131	REAR CAB PH001	1	1	1				
70	A2	3143 027 50031	REAR CAB PH003				1	1	1	1
71	A12	3143 027 50121	POWER BUTTON PH003				1	1	1	1
71	A12	3143 027 50191	POWER BUTTON PH001	1	1	1				
1010	consists of SP801/CL802	3143 027 10091	SPEAKER ASSY	1	1	1	1	1	1	1
CL802		see 1010	WIRE ASSEMBLY (SPEAKER) 2P/200	1	1	1	1	1	1	1
SP801		see 1010	SPEAKER S08F02B or	1	1	1	1	1	1	1
2	B4	4822 402 10174	BRACKET ==>14"	1	1	1	1	1	1	1
4	B1	3143 021 20031	TENSION SPRING	1	1	1	1	1	1	1
30	B3		SCREENING	1	1	1	1	1	1	1
54	B2		SCREW ==>>CRT	1	1	1	1	1	1	1
57	L8		FLAT HEAD SCREW 4X18	1	1	1	1	1	1	1

<b>MECHANICAL PARTS LIST</b>					14PV360/01	14PV360/07	14PV360/39	14PV365/01	14PV365/07	14PV365/39	14PV365/58
Pos.	Pos. Exploded View	▲	12 NC	Description							
58	TL1			SHIELD PLATE SCREW M3X4	1	1	1	1	1	1	1
60	B13			GROUND PLATE CRT	1	1	1	1	1	1	1
61			3143 021 20071	EARTH SPRING (TU)	1	1	1	1	1	1	1
1B1				DECK ASSEMBLY CZD011/VM15A6	1	1	1	1	1	1	1
TB1				TRAY CHASSIS T6300RA	1	1	1	1	1	1	1
TB2				TOP COVER T6300RA	1	1	1	1	1	1	1
TB10			9965 000 13833	RCA HOLDER T6300RA	1	1	1	1	1	1	1
TB11				CLOTH(10X30XT0.5) B5900UA	1	1	1	1	1	1	1
TB23				BOTTOM PLATE T6300RA	1	1	1	1	1	1	1
TL1			9965 000 08646	SCREW, P-TIGHT 3X12 WASHER HEAD+	1	1	1	1	1	1	1
TL14			9965 000 12171	SCREW, B-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1	1
<b>PACKING</b>											
450	S1			BOX FOLDED 14PV36X	1	1	1	1	1	1	1
451				TAPE S-ADH PP TP 0.038X75MM	1	1	1	1	1	1	1
452	S6			PE-PLATE	1	1	1	1	1	1	1
453	S2			STYROFOAM TOP A	1	1	1	1	1	1	1
454	S3			STYROFOAM BOTTOM A	1	1	1	1	1	1	1
455	X1			BAG (==>MAINS CORD)	1	1	1	1	1	1	1
150			3143 028 50031	Remote Control RT722/111	1	1	1	1	1	1	1
<b>TEST TAPES</b>											
1			3143 023 20011	TEST TAPE FL6K(S) / for verifying the audio frequency response	1	1	1	1	1	1	1
2			3143 023 20021	TEST TAPE FL6NS8	1	1	1	1	1	1	1
4			3143 023 20041	TEST TAPE FL6M / for verifying the wow & flutter	1	1	1	1	1	1	1



# DECK MECHANISM SECTION

## TV-VCR COMBINATION

- |   |
|---|
| <p><b>Sec. 2: Deck Mechanism Section</b></p> <ul style="list-style-type: none"><li>● <b>Standard Maintenance</b></li><li>● <b>Mechanism Alignment Procedures</b></li><li>● <b>Disassembly / Assembly of Mechanism</b></li><li>● <b>Deck Exploded Views</b></li><li>● <b>Deck Parts List</b></li></ul> |
|---|

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# STANDARD MAINTENANCE

## Service Schedule of Components

H: Hours   ○ : Check   ● : 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		●		●
B27	Tension Lever Sub Assembly		●		●
B31	AC Head Assembly			●	
B573,B574	Reel S, Reel T			●	
B37	Capstan Motor		●		●
B52	Cap Belt		●		●
*B73	FE Head			●	
B133	Idler Assembly		●		●
B410	Pinch Arm (A) Assembly		●		●
B414	M Brake S Assembly		●		●
B416	M Brake T Assembly		●		●
B525	LDG Belt		●		●

### Notes:

- Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / Audio Control Head / Full Erase Head) using 90% Isopropyl Alcohol.
- After cleaning the parts, do all DECK ADJUSTMENTS.
- For the reference numbers listed above, refer to Deck Exploded Views.  
\* B73 ----- Recording Model only

## Cleaning

### Cleaning of Video Head

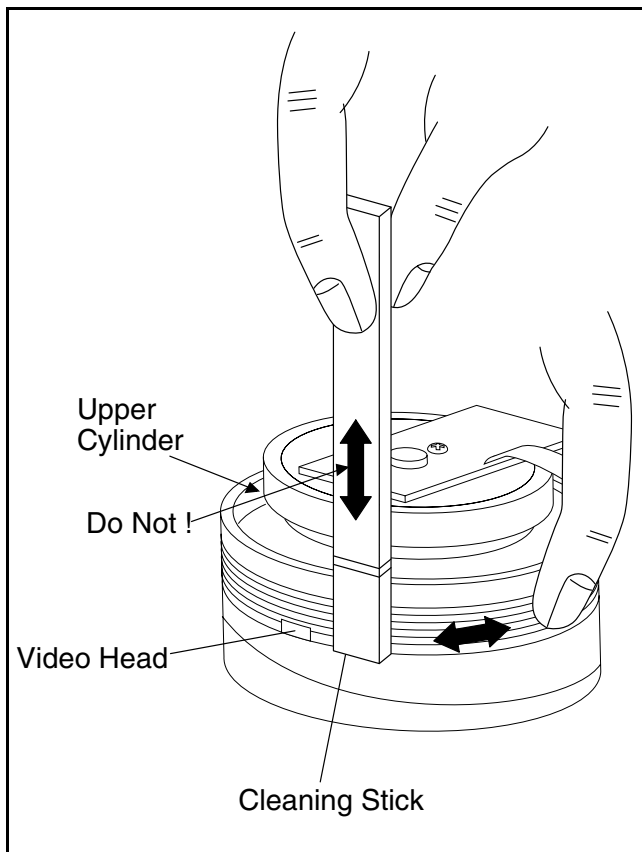
Clean the head with a head cleaning stick or chamois cloth.

#### 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 Audio Control Head

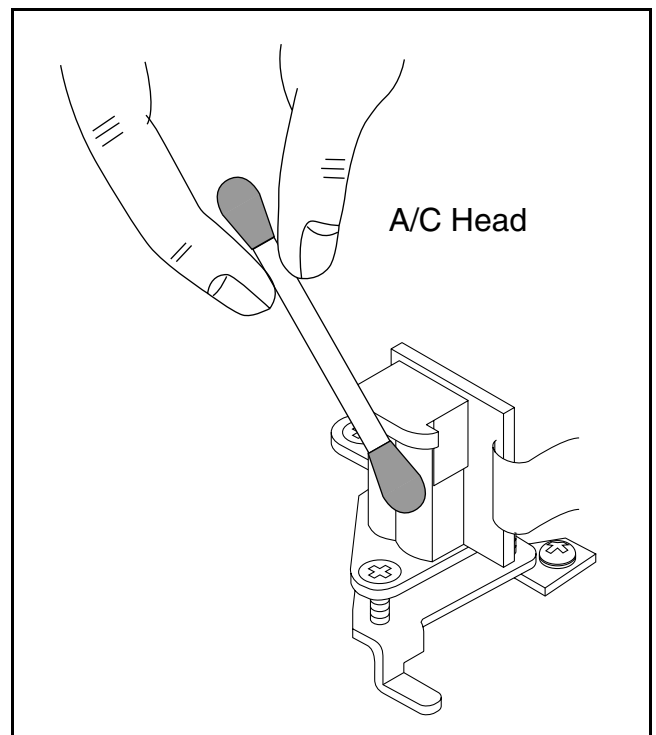
Clean the head with a cotton swab.

#### Procedure

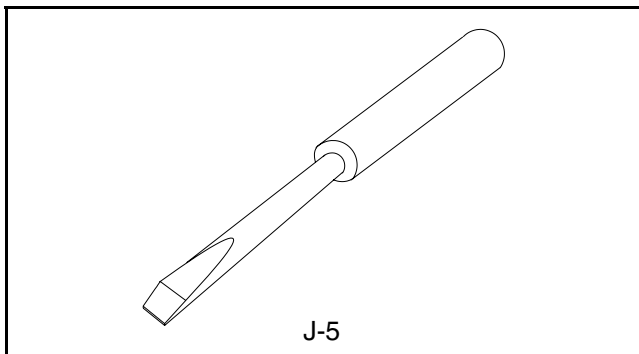
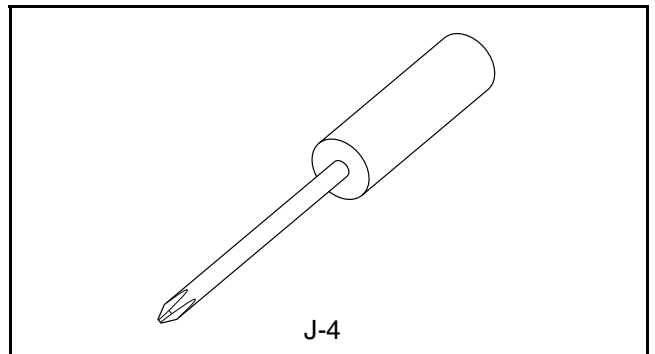
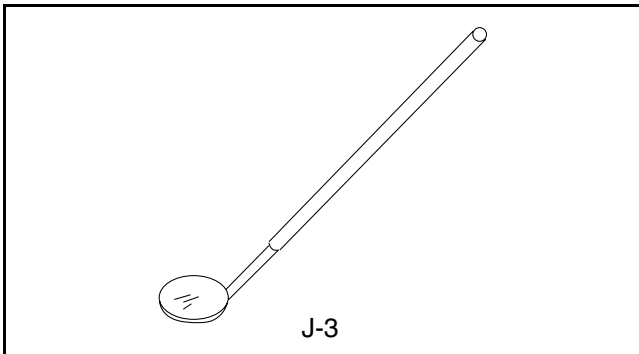
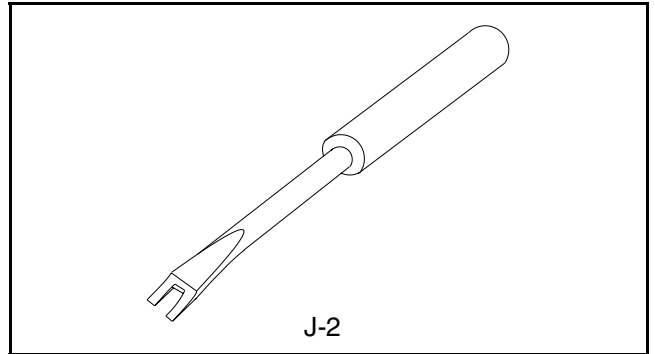
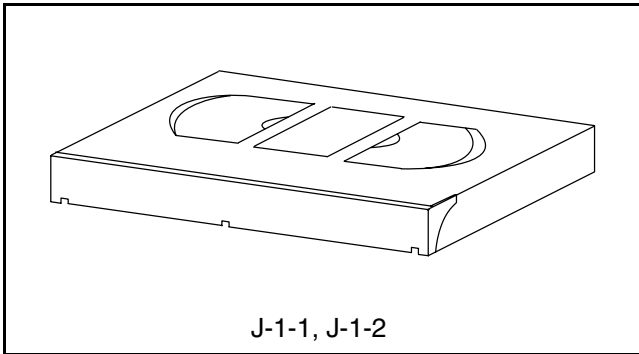
1. Remove the top cabinet.
2. Dip the cotton swab in 90% isopropyl alcohol and clean the audio control head. Be careful not to damage the upper drum and other tape running parts.

#### Notes:

1. Avoid cleaning the audio control 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	Electrical Adjustments
J-1-2	Alignment Tape	FL6NS8	Azimuth and X Value Adjustment of Audio Control 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	A/C Head Height
J-5	X Value Adj.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:

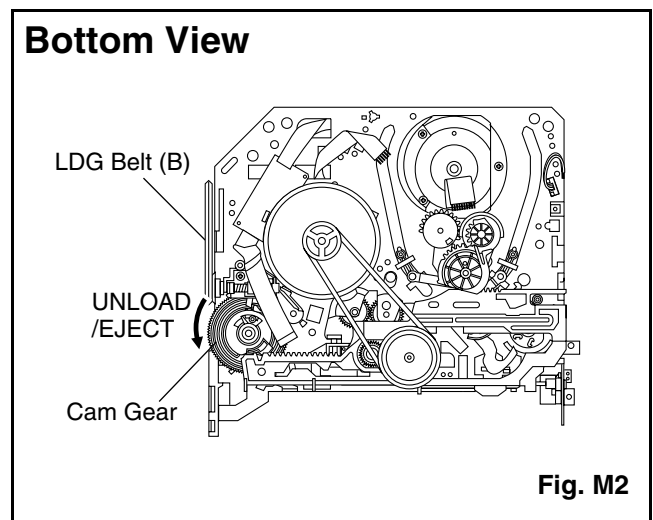
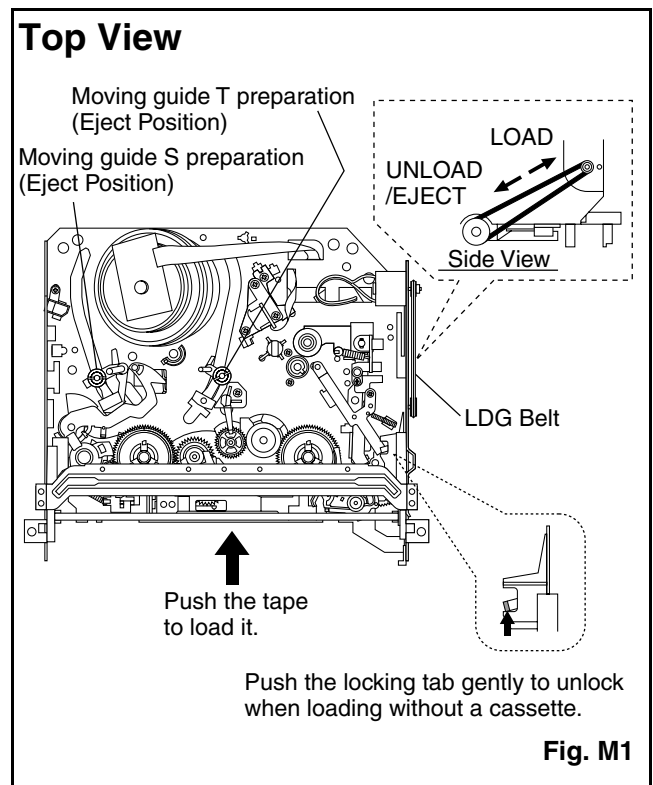
1. Disconnect the AC plug.
2. Remove the Top Case and Front Assembly.
3. Insert a cassette tape. Though the tape will not be automatically loaded, make sure that the cassette tape is all the way in at the inlet of the Cassette Holder. To confirm this, lightly push the cassette tape further in and see 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:

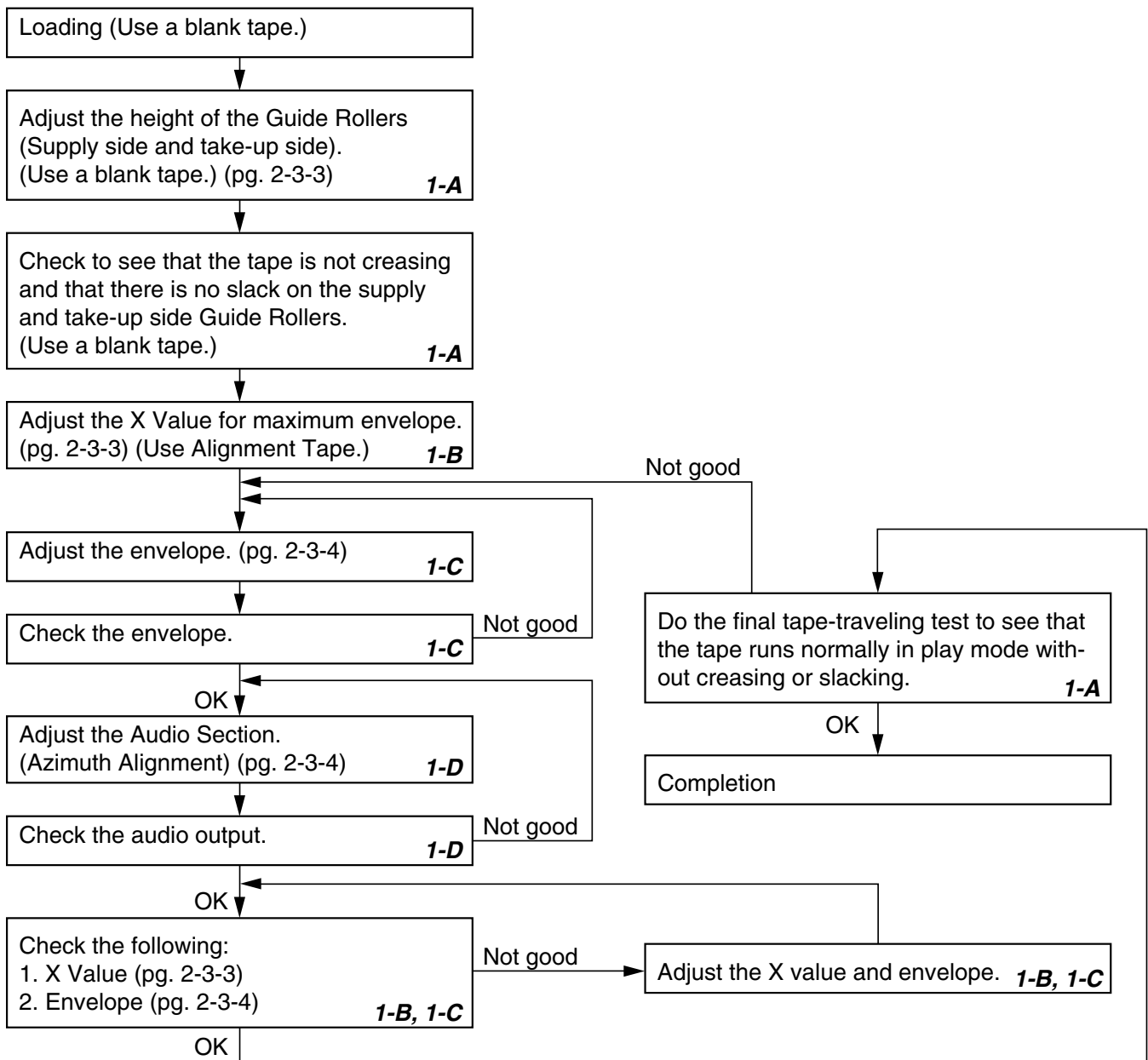
To do these alignment procedures, make sure that the Tracking Control Circuit is set to the center position every time a tape is loaded or unloaded. (Refer to page 2-3-4, procedure 1-C, step 2.)

## Equipment required:

- Dual Trace Oscilloscope
- VHS Alignment Tape  
FL6NS8
- Guide Roller Adj. Screwdriver
- X-Value Adj. Screwdriver

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.)

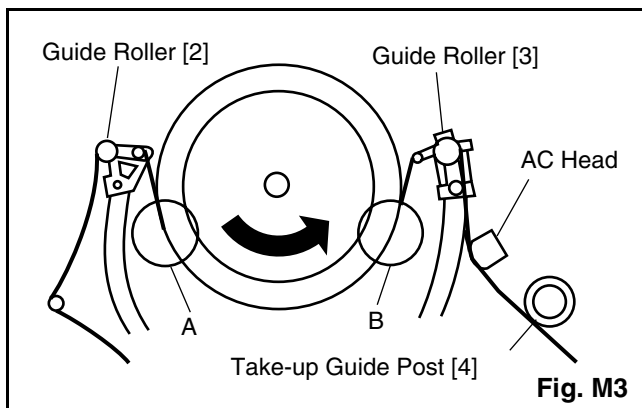


Fig. M3

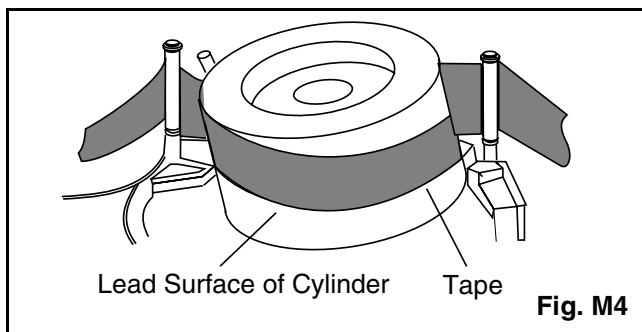


Fig. M4

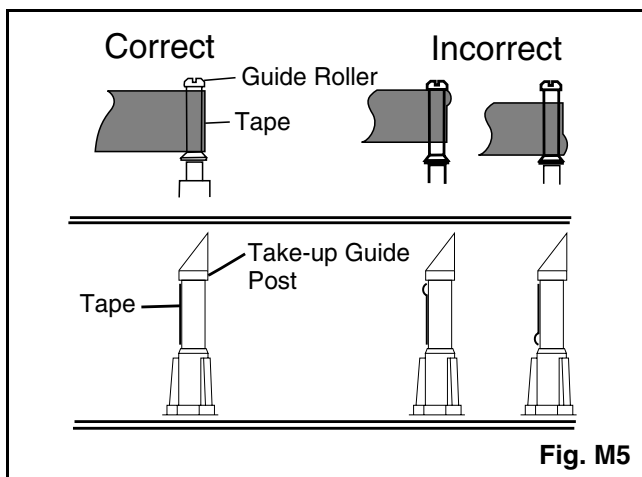


Fig. M5

3. Check to see that the tape runs without creasing at Take-up Guide Post [4] or without snaking between Guide Roller [3] and AC Head. (Fig. M3 and M5)
4. If creasing or snaking is apparent, adjust the Tilt Adj. Screw of the AC Head. (Fig. M6)

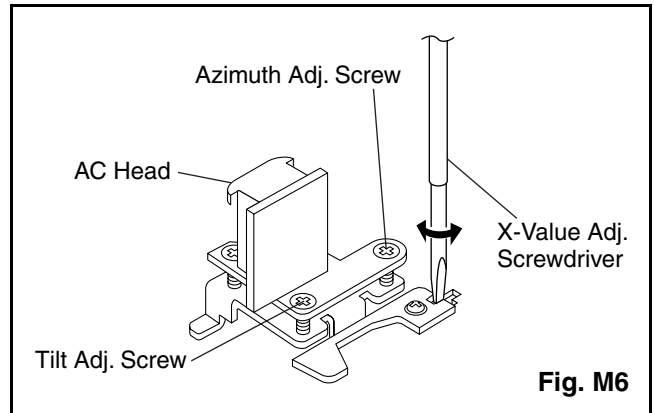


Fig. M6

## 1-B. X Value Alignment

### Purpose:

To align the Horizontal Position of the Audio/Control/Erase Head.

### Symptom of Misalignment:

If the Horizontal Position of the Audio/Control/Erase Head is not properly aligned, maximum envelope cannot be obtained at the Neutral position of the Tracking Control Circuit.

1. Connect the oscilloscope to TP004 (CPB) and TP001 (CTL) on the Main CBA. Use TP002 (RF-SW) as a trigger.
2. Playback the Gray Scale of the Alignment Tape (FL6NS8) and confirm that the PB FM signal is present.
3. Set the Tracking Control Circuit to the center position by pressing CH UP button then "PLAY" button on the unit. (Refer to note on bottom of page 2-3-4.)
4. Use the X-Value Adj. Screwdriver so that the PB FM signal at TP004 (CPB) is maximum. (Fig. M6)
5. Press CH UP button on the unit until the CTL waveform has shifted by approx. +2msec. Make sure that the envelope is simply attenuated (shrinks in height) during this process so that you will know the envelope has been at its peak.

6. Press CH DOWN button on the unit until the CTL waveform has shifted from its original position (not the position achieved in step 5, but the position of CTL waveform in step 4) by approximately -2msec. Make sure that the envelope is simply attenuated (shrinks in height) once CTL waveform passes its original position and is further brought in the minus direction.
7. Set the Tracking Control Circuit to the center position by pressing CH UP button and then "PLAY" button.

### 1-C. Checking/Adjustment of Envelope Waveform

#### Purpose:

To achieve a satisfactory picture and precise tracking.

#### 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 TP004 (CPB) on the Main CBA. Use TP002 (RF-SW) as a trigger.
2. Playback the Gray Scale on the Alignment Tape (FL6NS8). Set the Tracking Control Circuit to the center 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 center 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 (FL6NS8) and confirm that the audio signal output level is 6kHz.
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)

Dropping envelope level at the beginning of track.



Fig. M7

Dropping envelope level at the end of track.

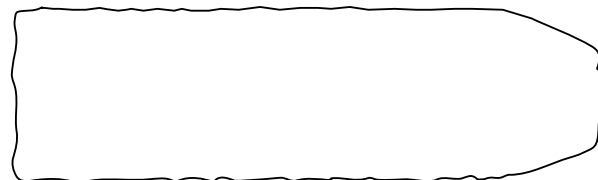


Fig. M8

Envelope is adjusted properly. (No envelope drop)

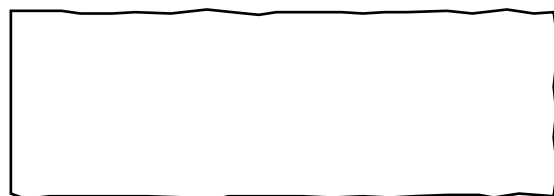


Fig. M9



# 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.)

All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [45] and [46] 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		
[3]	[2]	Slider L	T	DM5	(S-2)	
[4]	[2]	Slider R	T	DM5	(S-3)	
[5]	[4]	Lock Lever	T	DM5	(S-4),*(P-1)	
[6]	[2]	C Plate	T	DM5		
[7]	[7]	Cylinder Assembly	T	DM1,DM6	Desolder, 3(S-5)	
[8]	[8]	Loading Motor Assembly	T	DM1,DM7	Desolder, LDG Belt, 2(S-6)	
[9]	[9]	AC Head Assembly	T	DM1,DM7	(S-7)	
[10]	[2]	Tape Guide Assembly	T	DM1,DM8	*(P-2)	
[11]	[10]	Door Opener B	T	DM1,DM8	*(L-1),*(L-2)	
[12]	[11]	Pinch Arm (B)	T	DM1,DM8	*(P-3)	
[13]	[12]	Pinch Arm (A) Assembly	T	DM1,DM8		
[14]	[14]	FE Head	T	DM1,DM9	(S-9)	
[15]	[15]	Prism	T	DM1,DM9	(S-10)	
[16]	[2]	Slider Shaft	T	DM10	(S-11),*(L-3)	
[17]	[16]	C Drive Lever L	T	DM10		
[18]	[16]	C Drive Lever R	T	DM10		
[19]	[7],[10]	Capstan Motor	B	DM2,DM11	3(S-12), Cap Belt	
[20]	[20]	Clutch Assembly(HI)	B	DM2,DM12	(C-1)	
[21]	[20]	Center Gear	B	DM12		
[22]	[22]	Cam Holder F	B	DM2,DM13	(C-2)	
[23]	[22]	Cam Gear (B)	B	DM2,DM13	(C-3),*(P-4)	
[24]	[24]	Mode Gear	B	DM2,DM14	(C-4)	
[25]	[20],[23], [24]	Mode Lever(HI)	B	DM2,DM14	(C-5), *(L-4)	
[26]	[22]	Worm Holder	B	DM2,DM14	(S-15)	
[27]	[26]	Pulley Assembly	B	DM2,DM14		
[28]	[22],[25]	Cam Gear (A)	B	DM2,DM14		(+)Refer to Alignment Sec.Pg.2-4-10
[29]	[20]	TR Gear C	B	DM2,DM14	(C-6)	
[30]	[29]	TR Gear Spring	B	DM14		
[31]	[30]	TR Gear A/B	B	DM1,DM14		
[32]	[31]	FF Arm(HI)	B	DM1,DM14		
[33]	[21],[25]	Idler Assembly(HI)	B	DM1,DM15	*(L-5)	
[34]	[25]	BT Arm	B	DM2,DM15	*(P-5)	

STEP /LOC. No.	START-ING No.	PART		REMOVAL		INSTALLATION
				Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[35]	[25]	Loading Arm S(B) Assembly	B	DM2,DM15		(+)Refer to Alignment Sec.Pg.2-4-9
[36]	[35]	Loading Arm T(B) Assembly	B	DM2,DM15		(+)Refer to Alignment Sec.Pg.2-4-9
[37]	[2],[25]	M Brake T(HI) Assembly	T	DM1,DM16	*(P-6)	
[38]	[2],[25]	M Brake S(HI) Assembly	T	DM1,DM16	*(P-7)	
[39]	[38]	Tension Lever Sub Assembly	T	DM1,DM16		
[40]	[39]	T Lever Holder	T	DM1,DM16	*(L-6)	
[41]	[2]	M Gear(HYT)	T	DM1,DM16	(C-7)	
[42]	[2],[15]	Sensor Gear	T	DM1,DM16	(C-8)	
[43]	[37],[41]	Reel T	T	DM1,DM16		
[44]	[39]	Reel S	T	DM1,DM16		
[45]	[35],[38]	Moving Guide S Preparation	T	DM1,DM17		
[46]	[36]	Moving Guide T Preparation	T	DM1,DM17		
[47]	[19]	TG Post Assembly	T	DM1,DM17	*(L-7)	
[48]	[18],[28]	Rack Assembly	R	DM18		(+)Refer to Alignment Sec.Pg.2-4-10
[49]	[48]	F Door Opener	R	DM18	*(P-8)	
[50]	[50]	Cleaner Lever Assembly	T	DM1,DM6		Type A
					*(L-8)	Type B
[51]	[50]	CL Post	T	DM6	*(L-9)	Type A
↓	↓	↓	↓	↓	↓	↓
(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

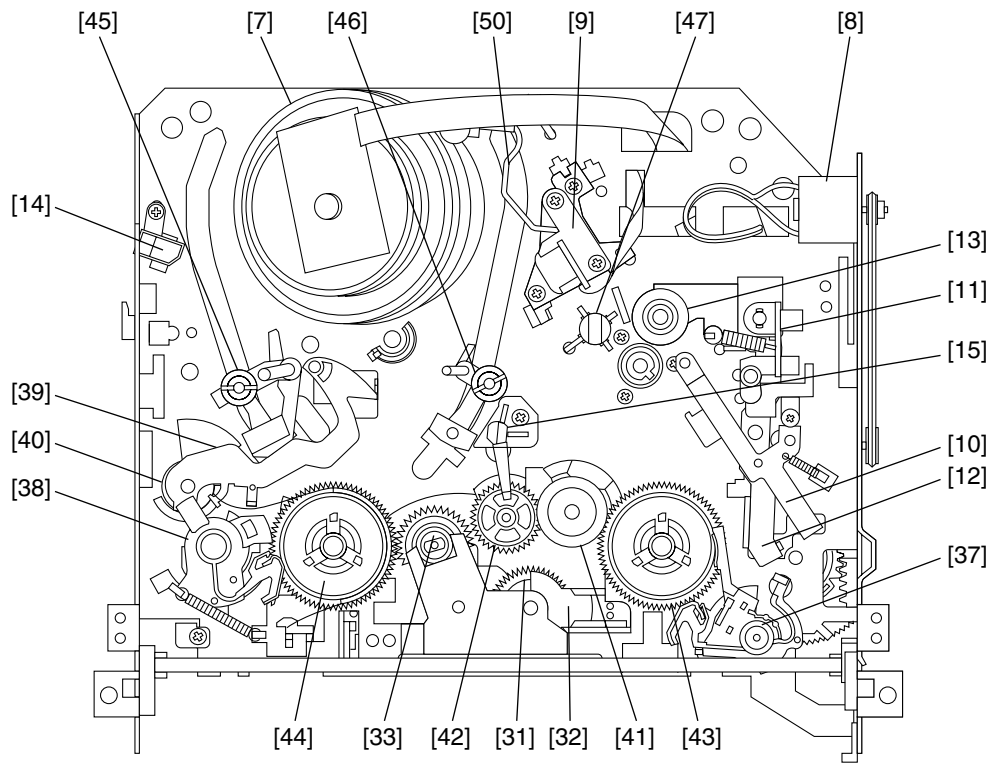


Fig. DM1

### Bottom View

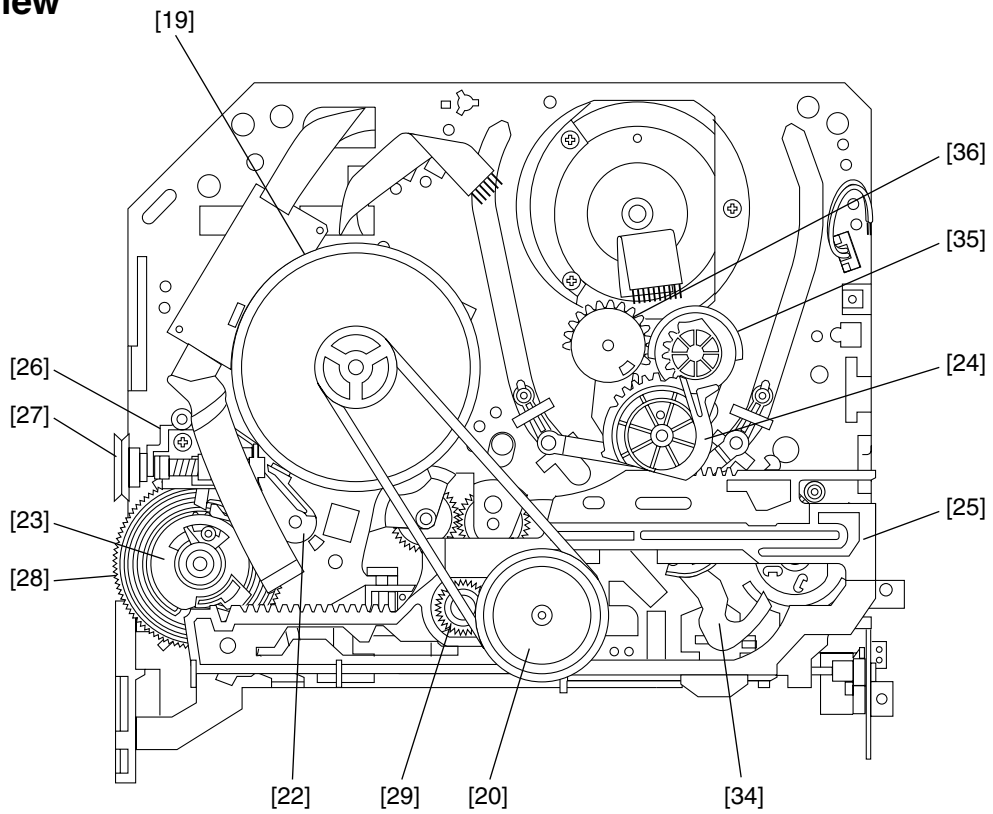
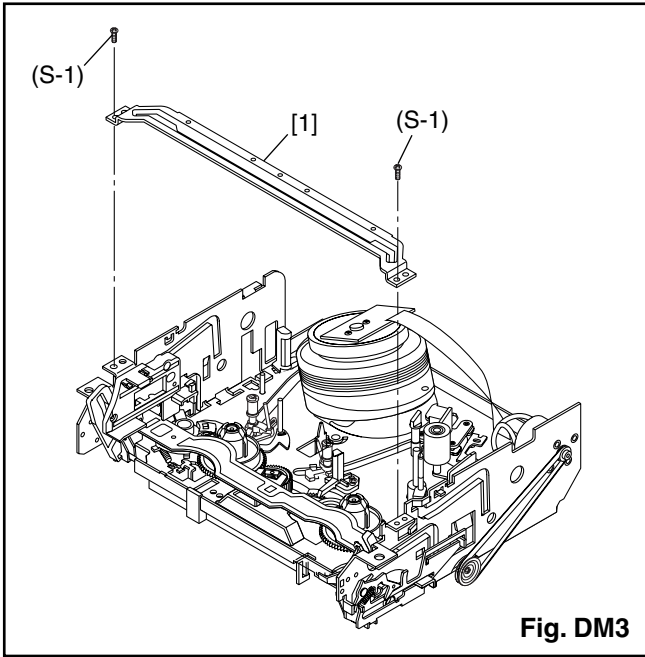
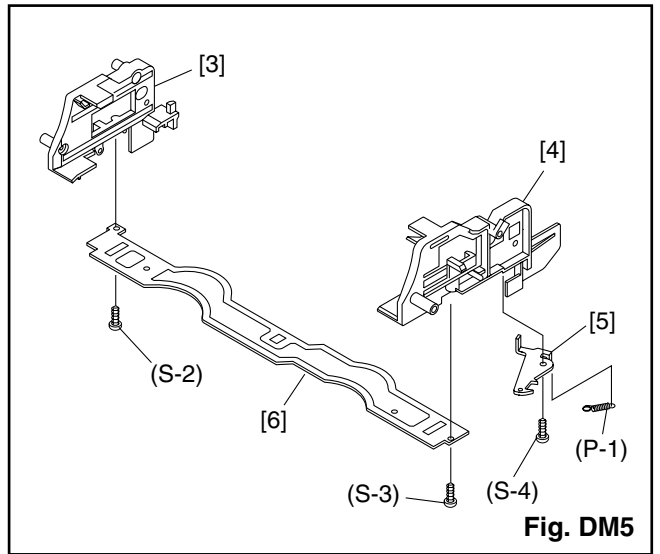


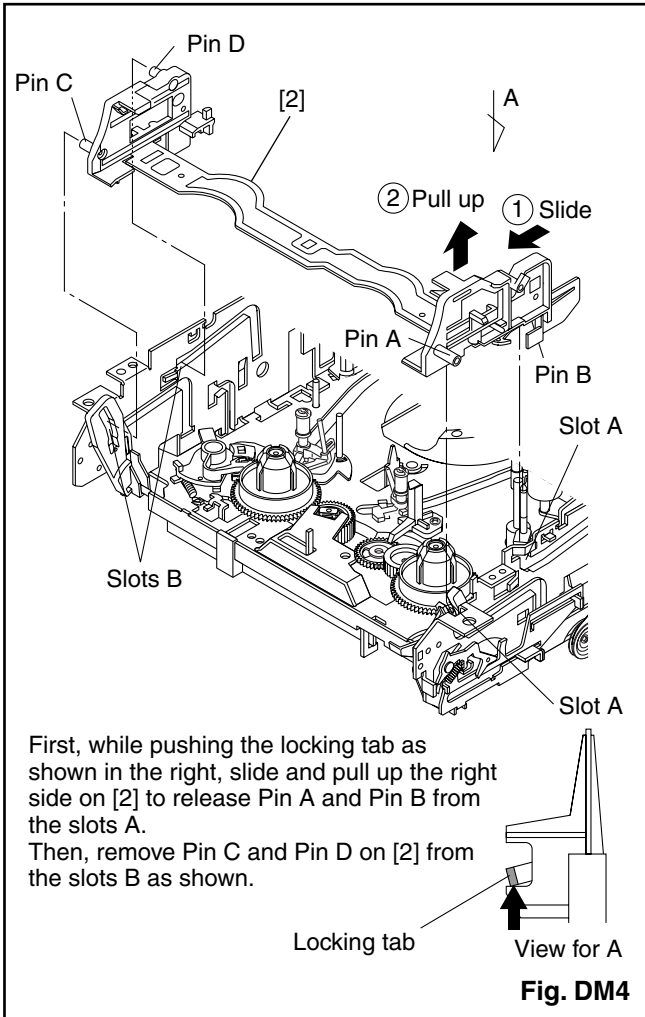
Fig. DM2



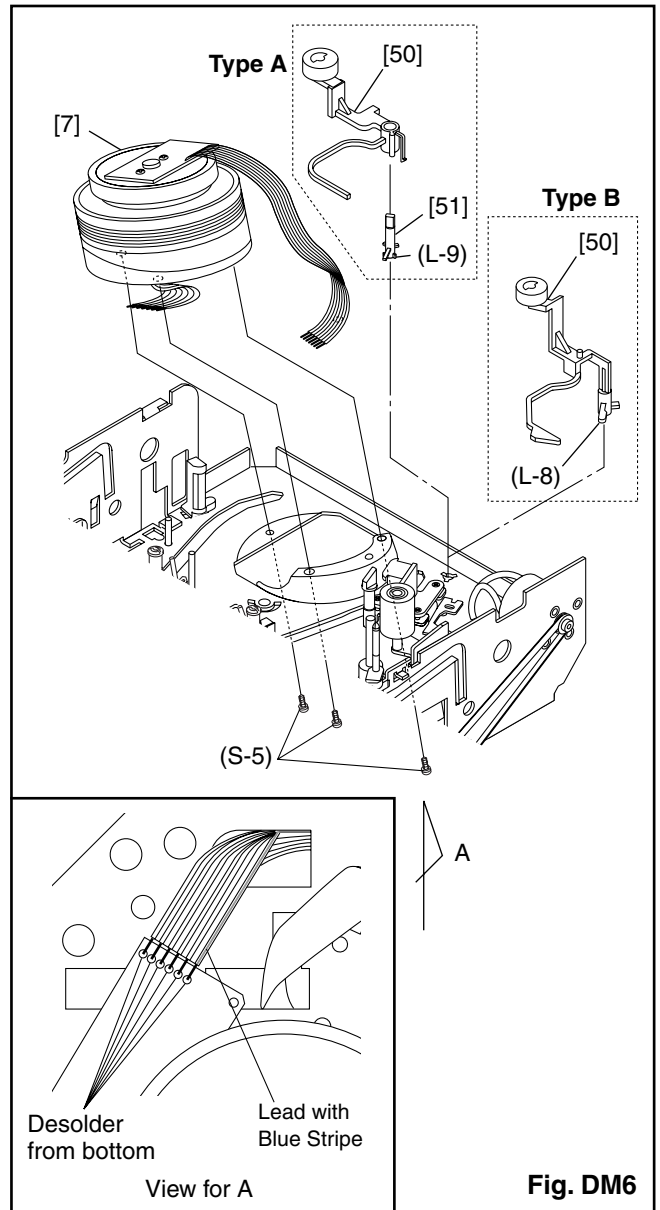
**Fig. DM3**



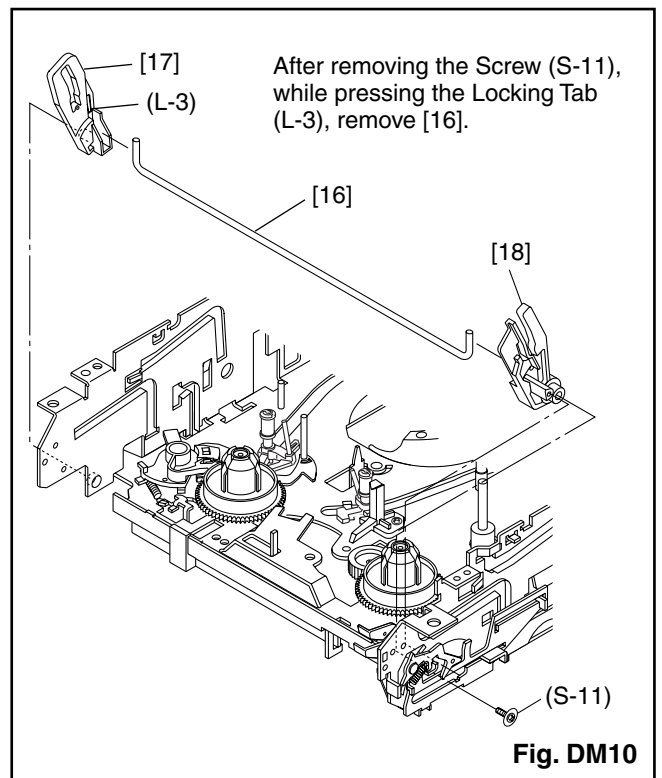
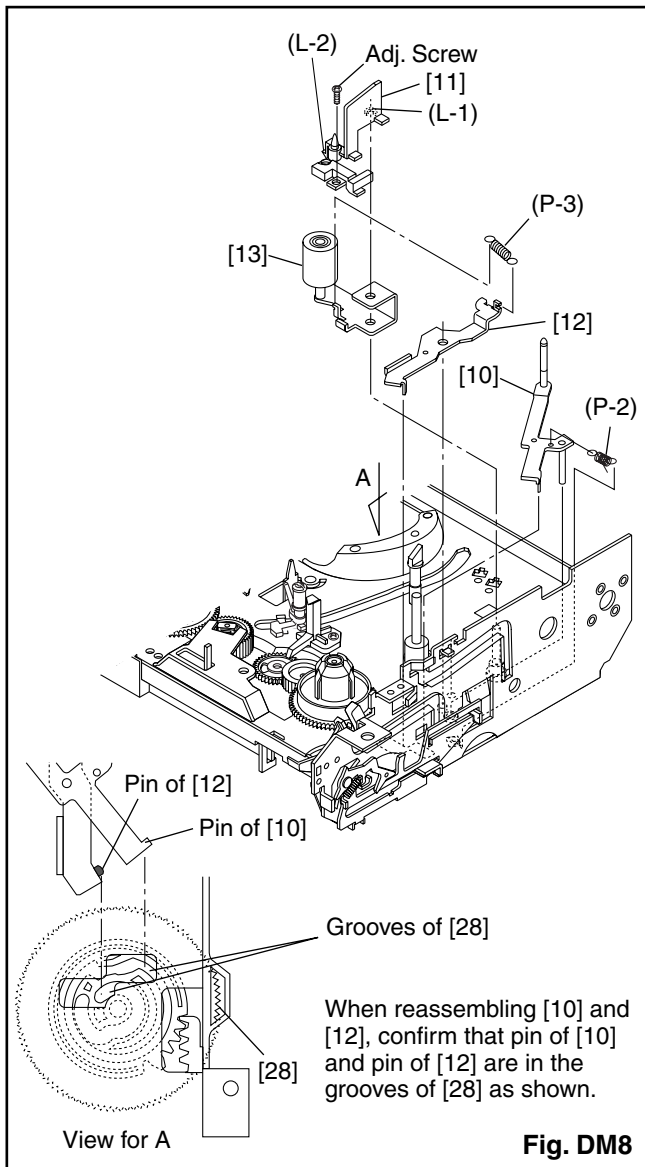
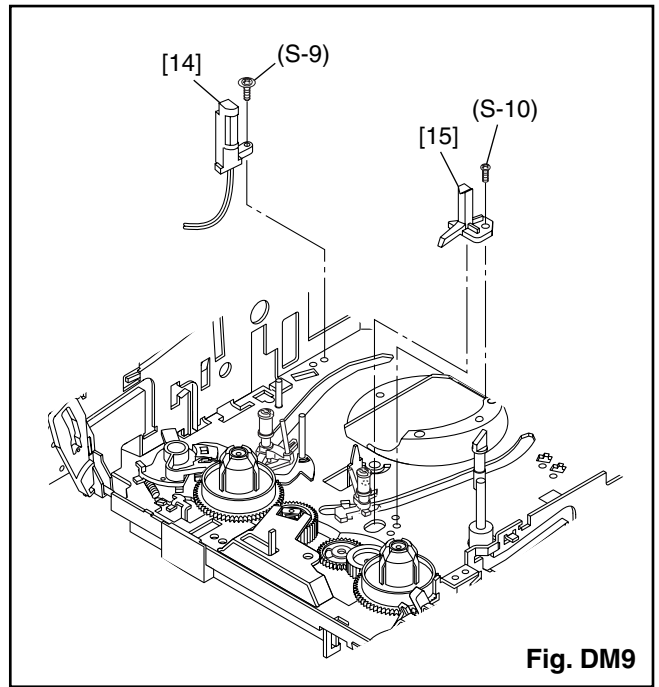
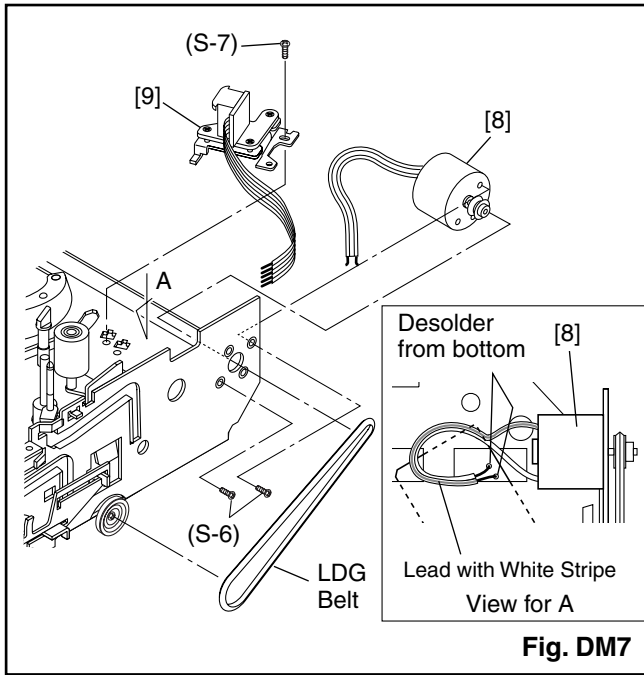
**Fig. DM5**

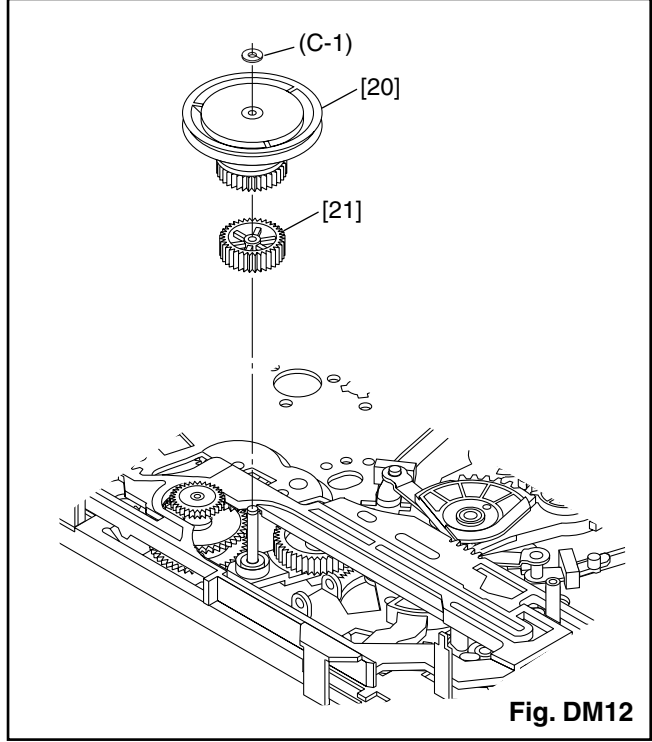
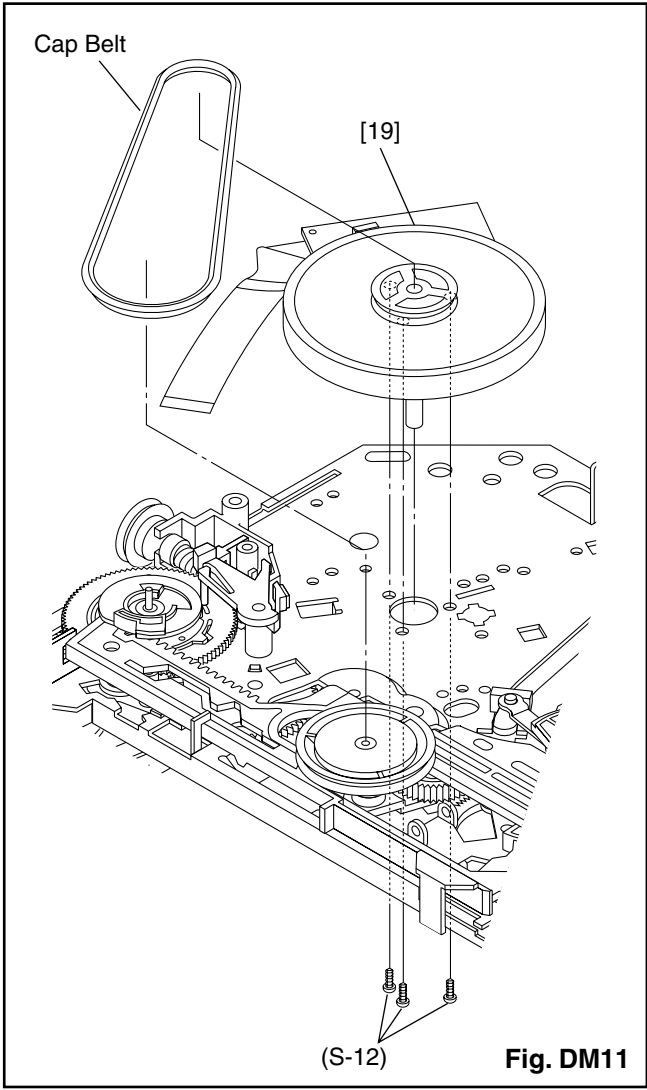


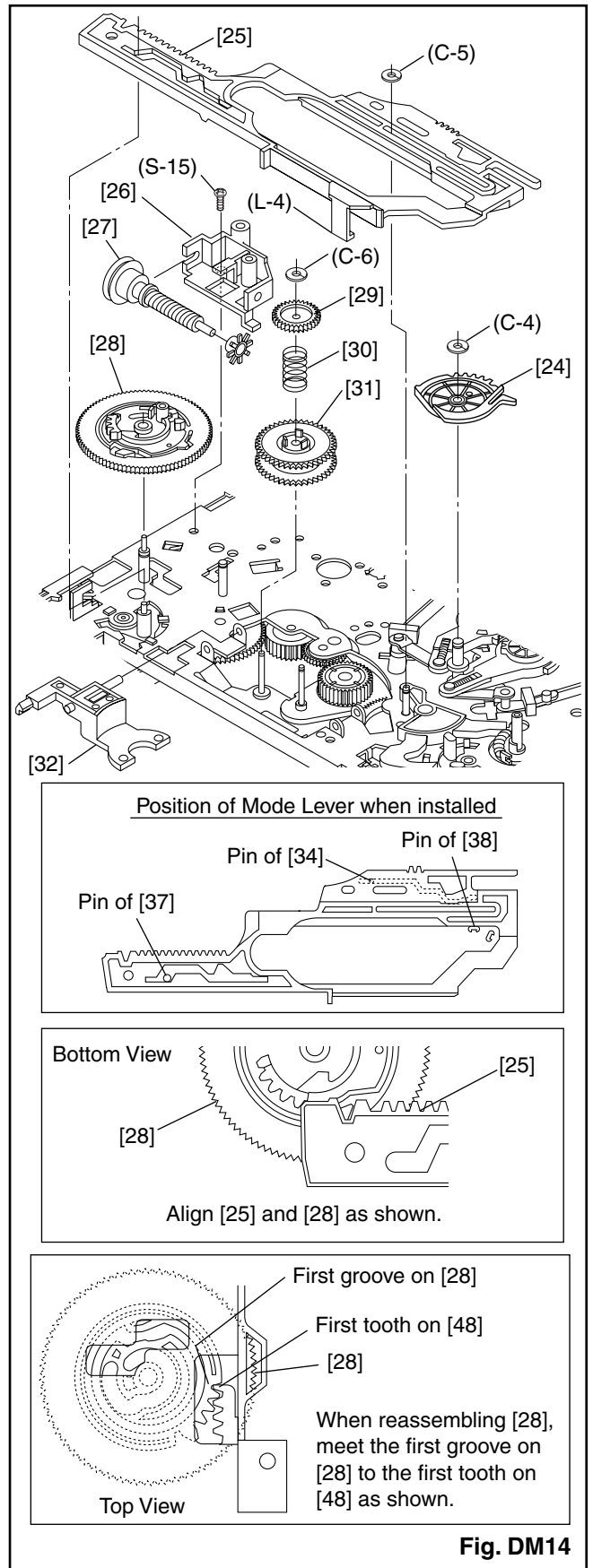
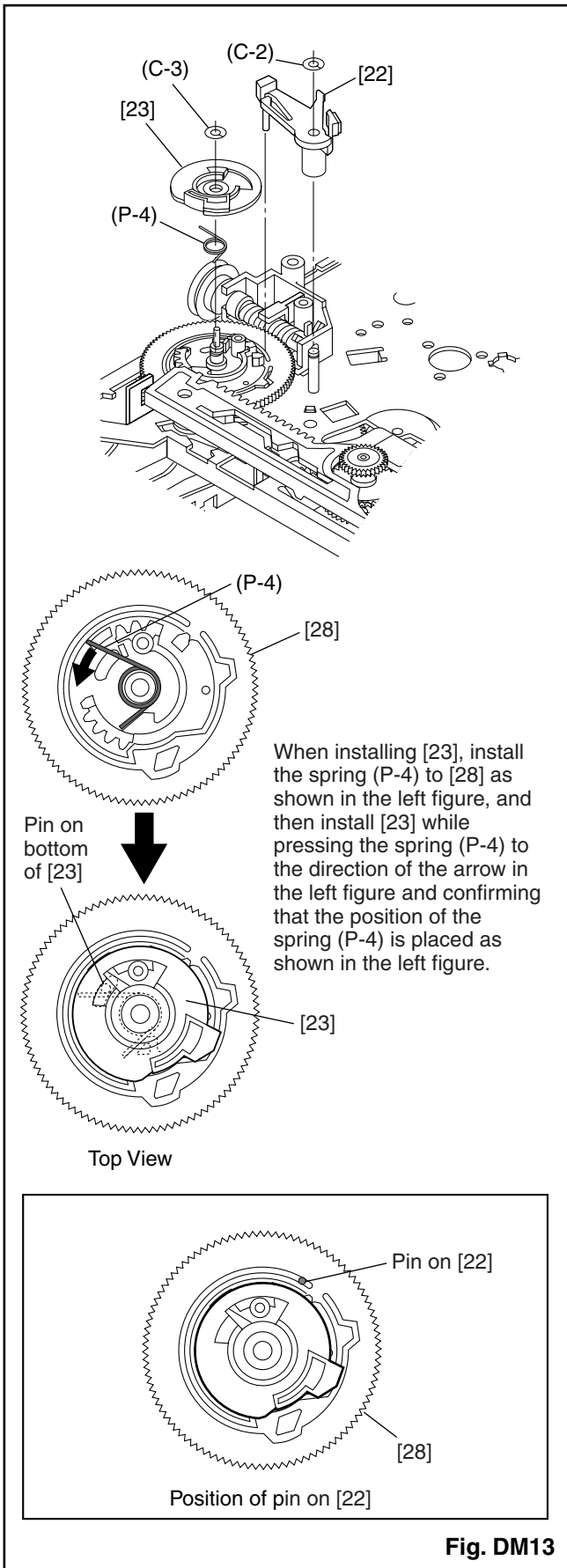
**Fig. DM4**

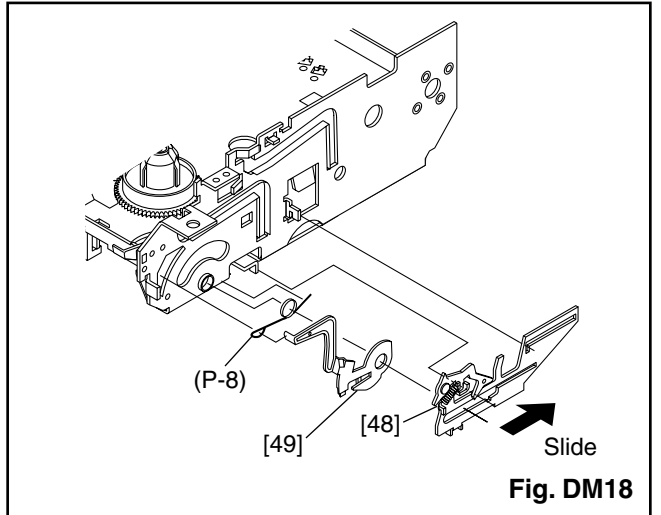
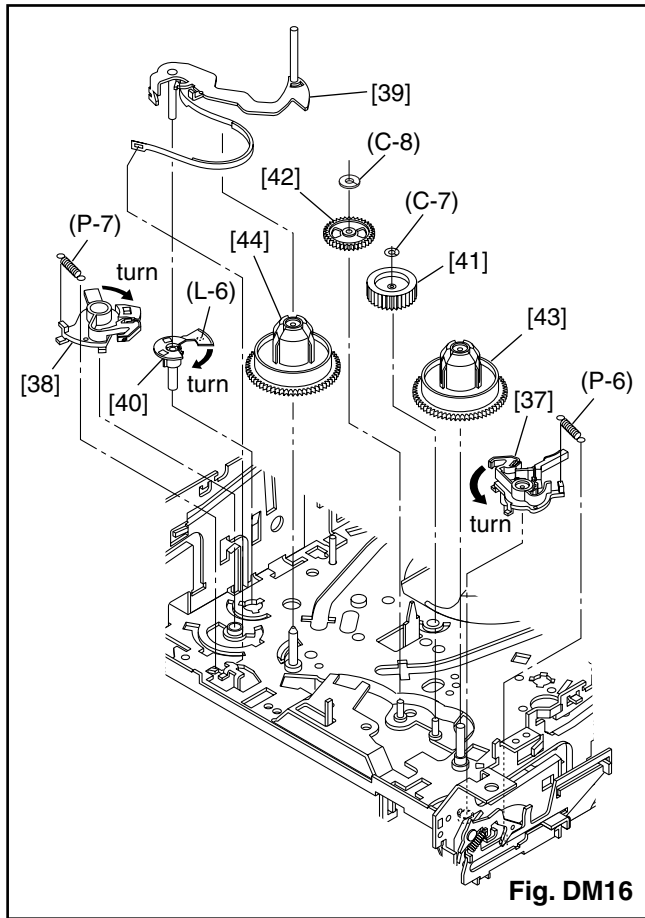
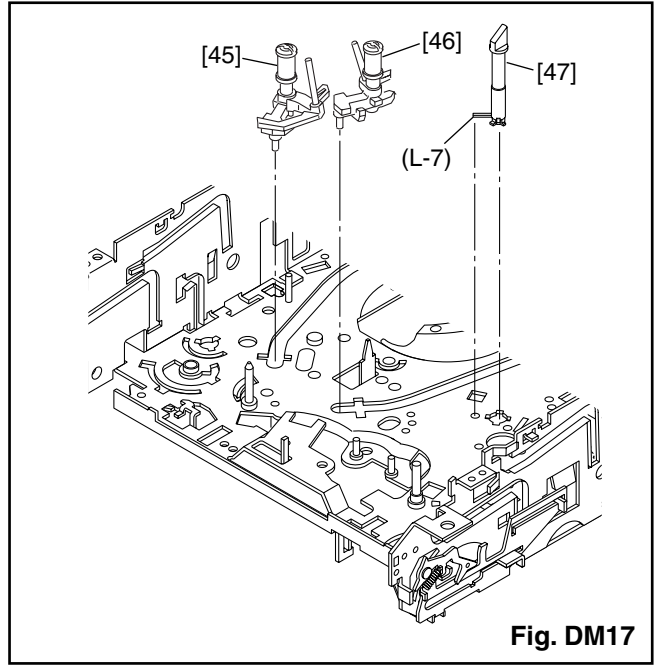
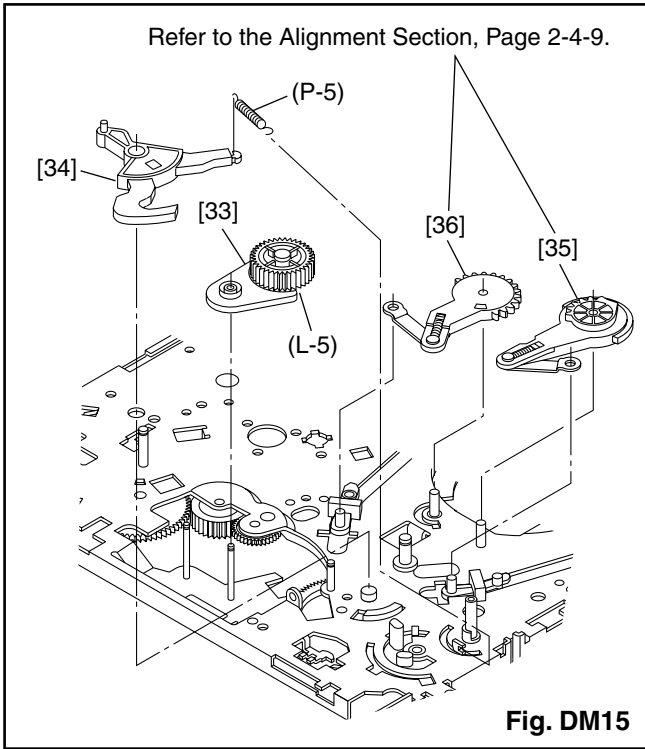


**Fig. DM6**











# ALIGNMENT PROCEDURES OF MECHANISM

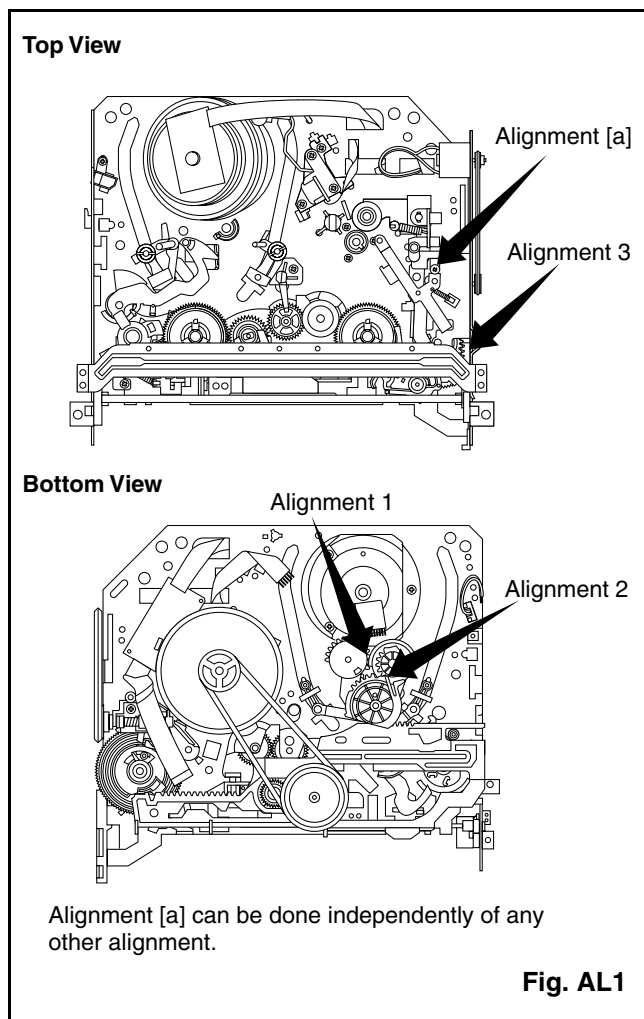
The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between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

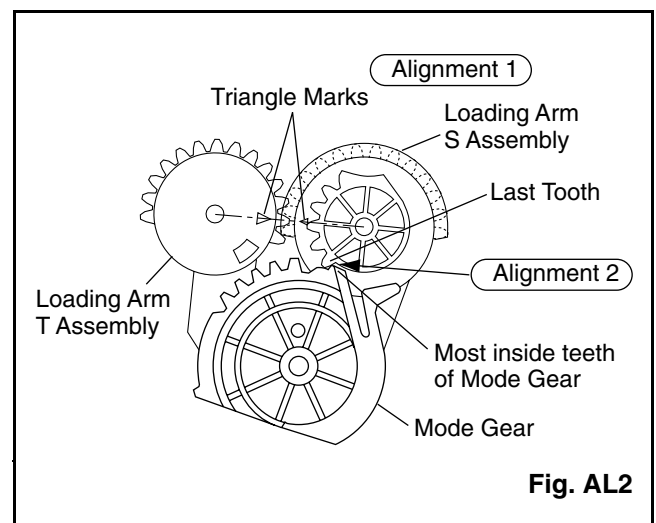
### Loading Arm, S and T Assembly

Install Loading Arm S and T Assembly so that their triangle marks point to each other as shown in Fig. AL2.

## Alignment 2

### Mode Gear

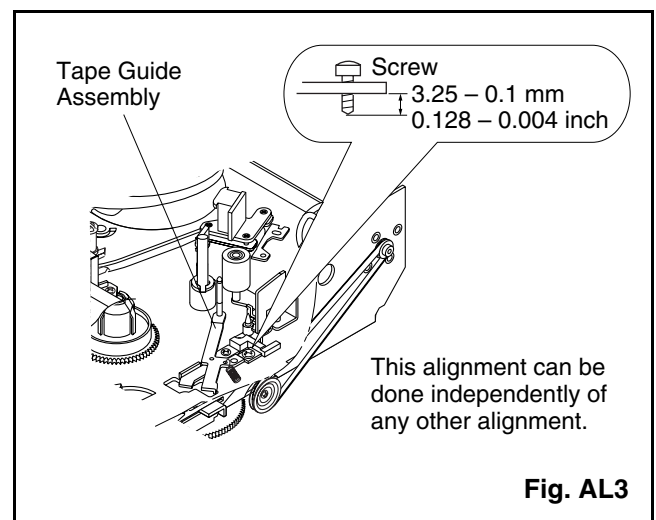
Keeping the two triangles pointing at each other, install the Loading Arm T Assembly so that the last tooth of the gear meets the most inside teeth of the Mode Gear. See Fig. AL2.



## Alignment [a]

### Tape Guide Assembly

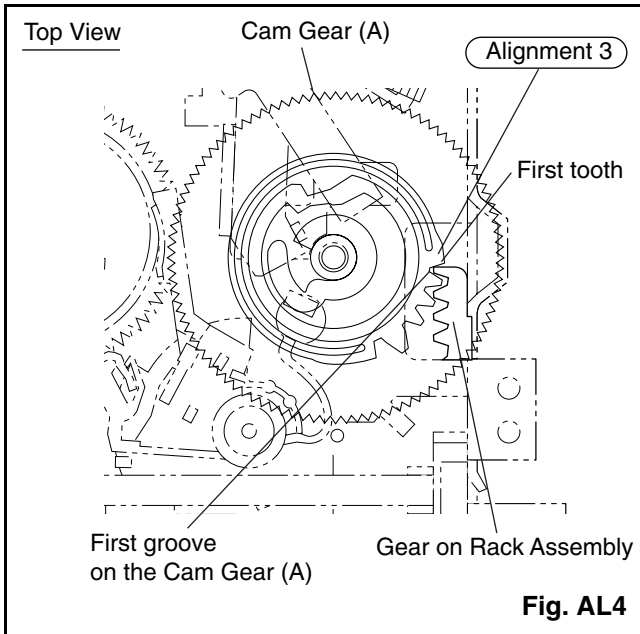
Measurement of the screw must be as specified in Fig. AL3.



### Alignment 3

#### **Cam Gear (A), Rack Assembly**

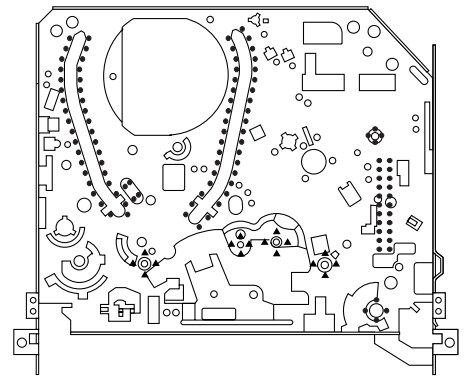
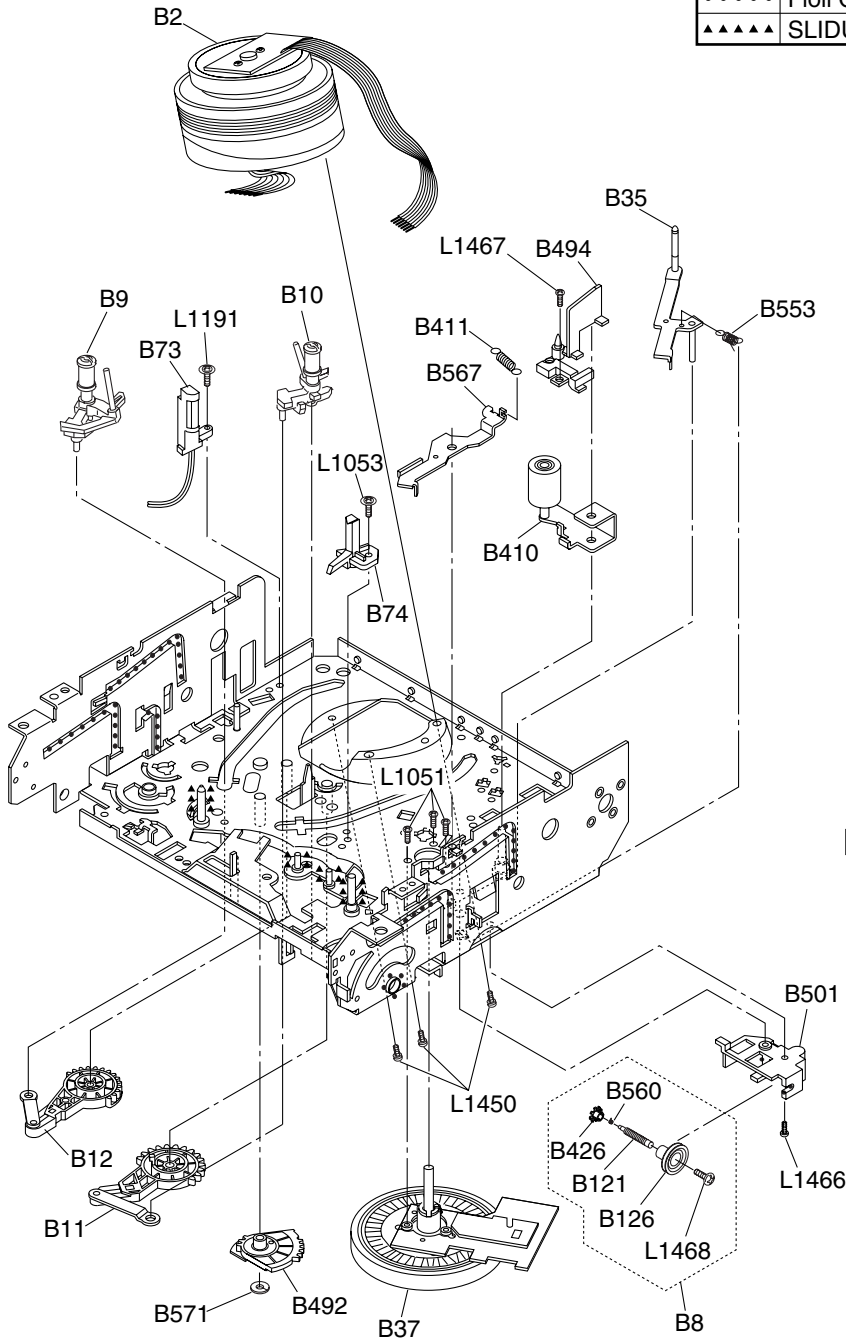
Install the Rack Assembly so that the first tooth on the gear of the Rack Assembly meets the first groove on the Cam Gear (A) as shown in Fig. AL4.



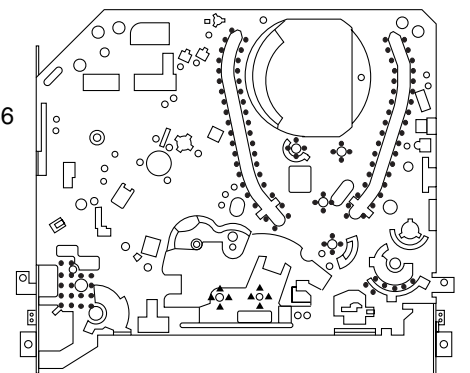
# DECK EXPLODED VIEWS

## Deck Mechanism View 1

Mark	Description	Part No.
•••••	Floil G-374G (Blue grease)	0VZZ00109
▲▲▲▲▲	SLIDUS OIL #150	0VZZ00226



Chassis Assembly  
Top View (Lubricating Point)



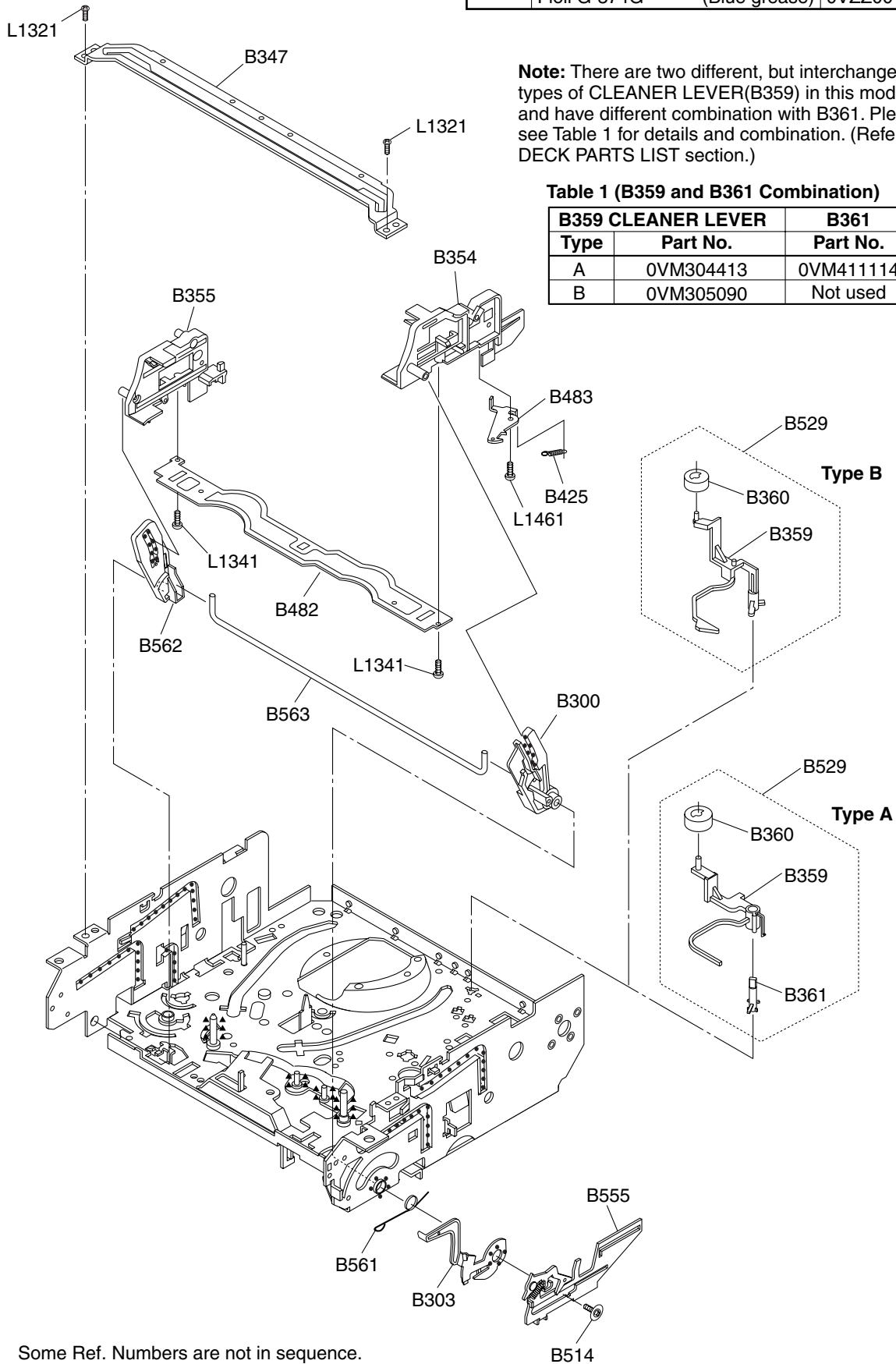
Chassis Assembly  
Bottom View (Lubricating Point)

Some Ref. Numbers are not in sequence.



# Deck Mechanism View 3

Mark	Description	Part No.
•••••	Floil G-374G (Blue grease)	0VZZ00109



**Note:** There are two different, but interchangeable types of CLEANER LEVER(B359) in this model, and have different combination with B361. Please see Table 1 for details and combination. (Refer to DECK PARTS LIST section.)

**Table 1 (B359 and B361 Combination)**

B359 CLEANER LEVER		B361
Type	Part No.	Part No.
A	0VM304413	0VM411114
B	0VM305090	Not used

Some Ref. Numbers are not in sequence.

DECK PARTS LIST		
Pos.	▲ 12 NC	Description
B2	9965 000 12895	CYLINDER ASS. MK11 PAL 2HD 2SP
B3	9965 000 12202	LOADING MOTOR ASS. MK11
B8	9965 000 12203	PULLEY ASS. MK11
B9	9965 000 08560	MOVING GUIDE S PREP: MK10
B10	9965 000 08431	MOVING GUIDE T PREP: MK10
B11	9965 000 12204	LOADING ARM T(B) ASS. MK11
B12	9965 000 12205	LOADING ARM S(B) ASS. MK11
B27	9965 000 12206	TENSION LEVER SUB ASS. MK11
B31	9965 000 13920	AC HEAD ASS. MK11(TVCR)
B35	9965 000 12208	TAPE GUIDE ASS. MK11
B37	9965 000 13921	CAPSTAN MOTOR
B52	9965 000 08593	CAP BELT MK10
B73	9965 000 12210	FE HEAD ASS. MK11
B74	9965 000 08555	PRISM MK10
B121	9965 000 12211	WORM MK11
B126	9965 000 12212	PULLEY MK11
B133	9965 000 12213	IDLER ASS.(2) MK10
B148	4822 462 11189	TG CAP MK6
B300	9965 000 12214	C DRIVE LEVER R MK11
B303	9965 000 12215	F DOOR OPENER MK11
B347	9965 000 08445	GUIDE HOLDER A MK10
B354	9965 000 12216	SLIDER R MK11
B355	9965 000 12217	SLIDER L MK11
B359	9965 000 12416	CLEANER LEVER MK11
B360	9965 000 06561	CLEANER ROLLER MK9
B410	9965 000 12218	PINCH ARM(A) ASS. MK11
B411	9965 000 08453	PINCH SPRING MK10
B414	9965 000 12219	M BRAKE S(HI) ASS. MK11
B416	9965 000 12220	M BRAKE T(HI) ASS. MK11
B417	9965 000 12221	TENSION SPG(190265) MK11
B425	9965 000 08457	LOCK LEVER SPRING MK10
B426	9965 000 08458	KICK PULLEY MK10
B482	9965 000 12222	C PLATE MK11
B483	9965 000 08461	LOCK LEVER MK10
B487	9965 000 08462	BAND BRAKE MK10
B488	9965 000 12223	MODE LEVER(HI) MK11
B491	9965 000 12224	CAM GEAR(A) MK11
B492	9965 000 12225	MODE GEAR MK11
B494	9965 000 12226	DOOR OPENER B MK11
B499	9965 000 08467	T LEVER HOLDER MK10
B501	9965 000 12227	WORM HOLDER MK11
B502	9965 000 08469	CAM GEAR(B) MK10
B505	9965 000 12372	PSCW(625504) MK11
B507	9965 000 05342	REEL WASHER MK9 5*2.1*0.5
B508	9965 000 08470	S BRAKE SPRING MK10
B513	9965 000 08471	PSCW(752605) MK10
B514	9965 000 12228	SCREW RACK MK11

DECK PARTS LIST		
Pos.	▲ 12 NC	Description
B516	9965 000 05342	REEL WASHER MK9 5*2.1*0.5
B518	4822 532 13159	P.S.W CUT 1.6X4.0X0.5T
B520	9965 000 12229	T BRAKE SPRING HI(F) MK11
B521	9965 000 08482	SOFT SPRING MK10
B522	9965 000 08483	TG POST ASS. MK10
B525	9965 000 12230	LDG BELT MK11
B529	9965 000 12231	CLEANER ASS. MK11
B551	9965 000 12232	FF ARM(HI) MK10
B553	9965 000 12233	REV SPRING MK11
B555	9965 000 12234	RACK ASS. MK11
B557	9965 000 08519	MOTOR PULLEY U5
B558	9965 000 12235	LOADING MOTOR
B559	9965 000 12236	CLUTCH ASS.(HI)(2) MK11
B560	9965 000 08522	KICK SPRING MK10
B561	9965 000 08523	F DOOR SPRING MK10
B562	9965 000 08524	C DRIVE LEVER L MK10
B563	9965 000 08525	SLIDER SHAFT MK10
B564	9965 000 12237	M GEAR(HYT) N12G5F*
B565	9965 000 12238	SENSOR GEAR MK11
B567	9965 000 08544	PINCH ARM(B) MK10
B568	9965 000 08545	BT ARM MK10
B569	9965 000 12239	CAM HOLDER F MK11
B570	9965 000 12240	CAM RACK SPRING(HI) MK11
B571	4822 532 13158	P.S.W F 6*2.55*0.5
B572	4822 532 13159	P.S.W CUT 1.6X4.0X0.5T
B573	9965 000 12241	REEL S MK11
B574	9965 000 12376	REEL T MK10
B578	9965 000 12243	TR GEAR A MK10
B579	9965 000 12244	TR GEAR B MK10
B580	9965 000 12245	TR GEAR C MK11
B581	9965 000 12246	CENTER GEAR(HYT) N12G5F*
B582	9965 000 12247	TR GEAR SPRING MK10
B583	9965 000 05342	REEL WASHER MK9 5*2.1*0.5
B584	9965 000 12248	TR GEAR SHAFT MK10
B585	9965 000 12249	PSW(2957505) MK11
L1051	9965 000 05359	SCREW, B-TIGHT M2.6X6 PAN HEAD+
L1053	9965 000 05375	SCREW, S-TIGHT M2.6X8 WASHER HEAD+
L1151	9965 000 08642	SCREW, SEMS M2.6X4 PAN HEAD+
L1191	9965 000 05375	SCREW, S-TIGHT M2.6X8 WASHER HEAD+
L1321	4822 502 14009	SCREW, S-TIGHT M3X6 BIND HEAD+
L1341	4822 502 14669	SCREW, P-TIGHT M2.6X6 BIND HEAD+
L1406	9965 000 08643	AC HEAD SCREW MK9
L1407	9965 000 12250	SCREW, S-TIGHT M2.6X10 DISH HEAD+
L1450	4822 502 14671	SCREW, SEMS M2.6X5 PAN HEAD+
L1461	4822 502 30471	SCREW, P-TIGHT M2.6X6 WASHER HEAD+
L1466	9965 000 05364	SCREW, S-TIGHT M2.6X6 BIND HEAD+
L1467	9965 000 12251	SCREW, S-TIGHT M2.6X5 WASHER HEAD+
L1468	9965 000 12252	SCREW, B-TIGHT M1.7X12