

GoldStar

COLOR TV SERVICE MANUAL

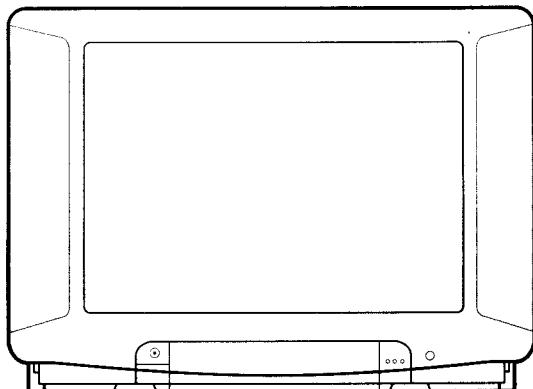
CHASSIS : MC-51B

MODEL : CF-25/29C26 Series

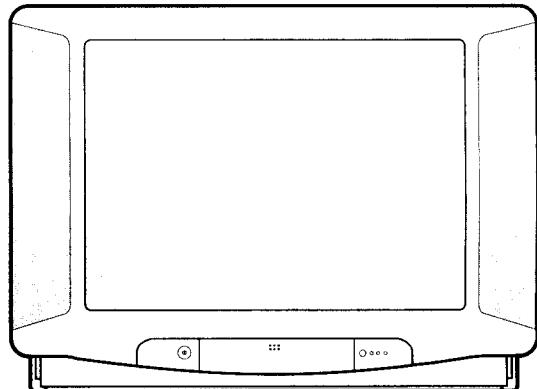
CAUTION

BEFORE SERVICING THE CHASSIS, READ THE "SAFETY PRECAUTIONS"
IN THIS MANUAL.

CF-25C26 Series



CF-29C26 Series



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by Δ in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **Isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by its Neck.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the Picture Tube.

For continued X-RAY RADIATION protection, the replacement tube must be the same type tube as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.

Measure the high voltage.

The meter reading should indicate

$23.5 \pm 1.5\text{KV}$: 14-19 inch, $26 \pm 1.5\text{KV}$: 19-21 inch,

$29.0 \pm 1.5\text{KV}$: 25-29 inch, $30.0 \pm 1.5\text{KV}$: 32 inch

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between $1\text{M}\Omega$ and $5.2\text{M}\Omega$.

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

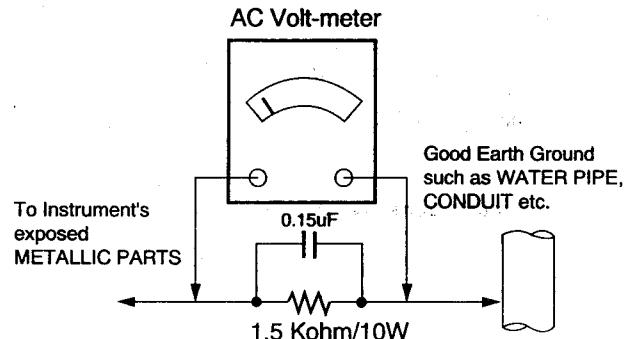
Connect 1.5K/10watt resistor in parallel with a $0.15\mu\text{F}$ capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA .

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
- CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
- d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength).
- CAUTION:** This is a flammable mixture. Unless specified otherwise in this service manual, lubrication of contacts is not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
Always remove the test receiver ground lead last.
9. *Use with this receiver only the test fixtures specified in this service manual.*
- CAUTION:** Do not connect the test fixture ground strap to any heatsink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some field-effect

transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
- CAUTION:** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range of 500°F to 600°F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a small wirebristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature. (500°F to 600°F)
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
- CAUTION:** Work quickly to avoid overheating the circuit board printed foil.
6. Use the following soldering technique
 - a. Allow the soldering iron tip to reach a normal temperature (500°F to 600°F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

- c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
- CAUTION:** Work quickly to avoid overheating the circuit board printed foil.
- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heatsink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.

Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATIONS

NOTE : Specifications and others are subject to change without notice for improvement.

- **Video input system:**

Multi 26 System
(Refer to Table 1)

- **Intermediate Frequency**

Vision IF	: 38.0MHz
Color IF	: 33.57MHz * SECAM : 38.0-4.25MHz
	34.42MHz(M) 38.0-4.40625MHz
Sound IF	: 32.5MHz(B/G) 32.0MHz(I) 31.5MHz(D/K,K1) 33.5MHz(M)

- **Tuning range**

Band	PAL/SECAM-B/G	
	For TV	For CATV
VHF-Low	Ch 2-4	
		S1'-S3', S1
VHF-High		S2-S10
	Ch 5-12	
Hyper		S11-S20
		S21-S41
UHF	Ch 21-69	

- **OSD (On Screen Display):**

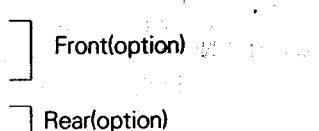
Menu Method

- **Antenna input impedance:** VHF/UHF 75ohm, Unbalanced

- **Voice coil impedance :** 8 ohm

- **External connections :**

S-VIDEO (Super Video)
A/V in : 1 pair
Headphone Jack
Scart1(Full)
Scart2(Half) or A/V Jack



	Specifications
Video in/out	1Vp-p±3dB, 75ohm
Audio in (2 way)	0.5Vrms±3dB, over 10Kohm
Audio out (2 way)	0.5Vrms±3dB, below 1Kohm
R. G. B in	0.7Vp-p±3dB

- **Power requirements :**

100-270 Vac, 50/60HZ

- **Power consumption :**

150 Wmax (25 inch)
160 Wmax (29 inch)

- **Tuning system :**

VS (Voltage Synthesizer)
80 Program Memory

- **Sound output :**

12 Wmax. X 2 way (at 50KHz deviation)
Dual / Stereo : A2, NICAM(option)
Speaker Jack(option)

- **Local button :**

Menu/OK
Volume up(+) / down(-)
Program up(+) / down(-)

- **LED Display**

TV on : Yellow color
Stand-by : Red color
Stereo & Dual : Red color

- **Function :**

ACMS a (Auto Channel Memory System + Channel Exchange)
Auto Program
Manual Program
Auto Sleep
Quick View
PSM (Picture status Memory)
SSM(Sound status Memory)

Child Lock : In the Lock On state the TV can only be operated by the Remote Controller.

If any button on the front panel is pressed, "Child lock on" is displayed on the screen but the button's function is not performed.

To cancel of this mode, select lock off with menu button on remote controller only.

Hyper band
Teletext(FLOF/LIST/TOP) (option)

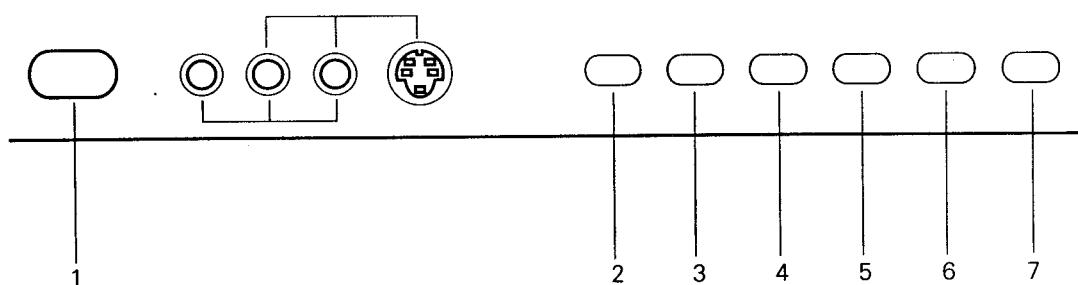
Table 1 : Receiving System (26 System)

No	Receiving System	Function	Receiving Channel
1	PAL-B		
2	PAL-G		VHF Band
3	PAL-I		PAL/SECAM-B : 2-12
4	PAL-D		PAL/SECAM-D : 1-12
5	PAL-K		SECAM-K1 : 2-9
6	SECAM-B	Reception of broadcast and play-back for Video Tape Recorder	NTSC-M (US) : 2-13
7	SECAM-G		NTSC-M (JAPAN) : 1-12
8	SECAM-D		UHF Band
9	SECAM-K		PAL/SECAM-G : 21-69
10	SECAM-K1		PAL-I : 21-69
11	NTSC-M		SECAM-K : 21-69
12	NTSC 4.43/5.5MHZ		PAL-K : 13-56
13	NTSC 4.43/6.0MHZ		NTSC-M (US) : 14-78
14	NTSC 4.43/6.5MHZ	Play-back for special Video Tape Recorder	NTSC-M (JAPAN) : 13-62
15	SECAM-I (6.0MHZ)		
16	SECAM-L (Video In)		
17	NTSC 3.58/4.5MHZ/50HZ		
18	PAL 5.5MHZ/60HZ		
19	PAL 6.0MHZ/60HZ		
20	PAL 6.5MHZ/60HZ	Play-back for special Video tape/Video disk player	
21	SECAM 5.5MHZ/60HZ		
22	SECAM 6.0MHZ/60HZ		
23	SECAM 6.5MHZ/60HZ		
24	NTSC 3.58/5.5MHZ		
25	NTSC 3.58/6.0MHZ	Play-back for special Video Tape Recorder	
26	NTSC 3.58/6.5MHZ		

CONTROL DESCRIPTIONS

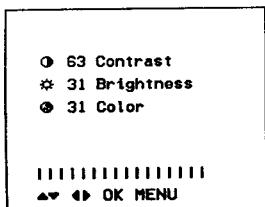
• Control locations on the TV

Note: The features may be different in accordance with the tool.

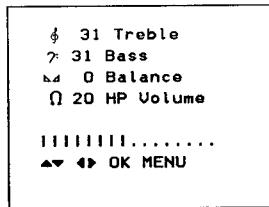


No.	The name of button	Descriptions
1	MAIN POWER	To turn on the TV
2	MENU	To watch the menu * Refer to the menu reference below.
3	OK	To keep the current status into memory.
4	VOLUME DOWN	To decrease volume.
5	VOLUME UP	To increase volume.
6	PROGRAM No. DOWN	To change program No. downwards.
7	PROGRAM No. UP	To change program No. upwards.

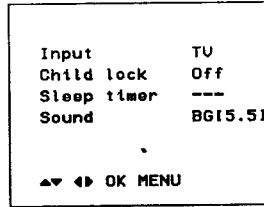
* MENU REFERENCE



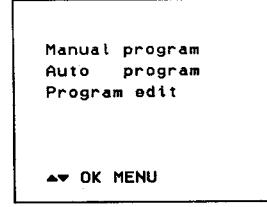
MENU 1



MENU 2



MENU 3



MENU 4

Note:

1. The menus automatically disappear in about 10 seconds if you do not press a button. However if you press the MENU button again, the last selected menu is displayed on the screen of the TV.
2. After selecting the menu, if you want to save the results, press the button OK.
3. In the AV mode, MENU 4 and sound of MENU 3 are not displayed.
4. In the teletext mode, only MENU 1 and 2 are displayed.
5. Only in a set with a built-in headphone socket, HP Volume is displayed in MENU 2.

TV PROGRAM

DISASSEMBLY INSTRUCTIONS

Important note

This set is disconnected from the power supply through the converter transformer. An isolating transformer is necessary for service operations on the primary side of the converter transformer.

Back Cabinet Removal

Remove the screws residing on the back cabinet and carefully separate the back cabinet from the front cabinet.

CPT Removal

1. Pull out the CPT board from the CPT neck.
2. Place the front cabinet on soft material not to mar the front surface or damage control knobs.
3. Remove 4 screws securing the picture tube mounting brackets to the front cabinet.
4. Carefully separate CPT from the front cabinet.

Chassis Assy Removal

Grasp both side of Frame and pull it backward smoothly.

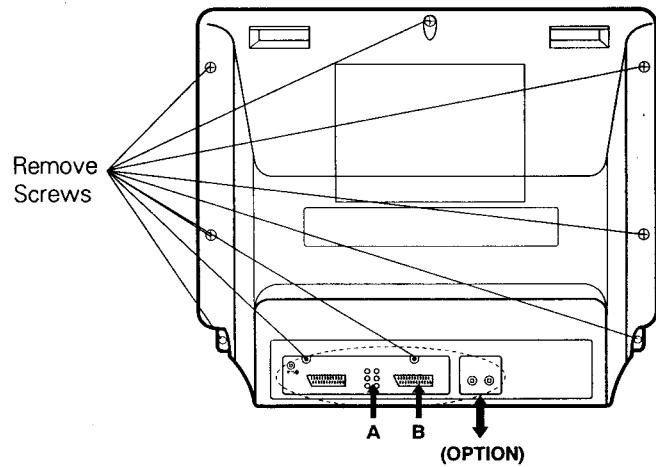
Speaker Assy Removal

1. Remove P651 and P652 connector from Main 2(Power/Def./Sound-Amp) Board.
2. Remove respective 2 screws for tweeter speaker (R,L) and 4 screws for squawker speaker (R,L) on the front cabinet.

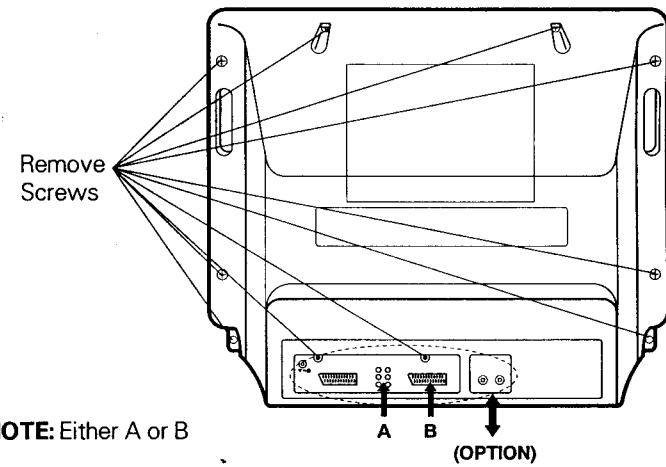
PICTURE TUBE HANDLING CAUTION

Due to high vacuum and large surface area of picture tube, great care must be exercised when handling picture tube. Always lift picture tube by grasping it firmly around faceplate. NEVER LIFT TUBE BY ITS NECK! The picture tube must not be scratched or subjected to excessive pressure as fracture of glass may result in an implosion of considerable violence which can cause personal injury or property damage.

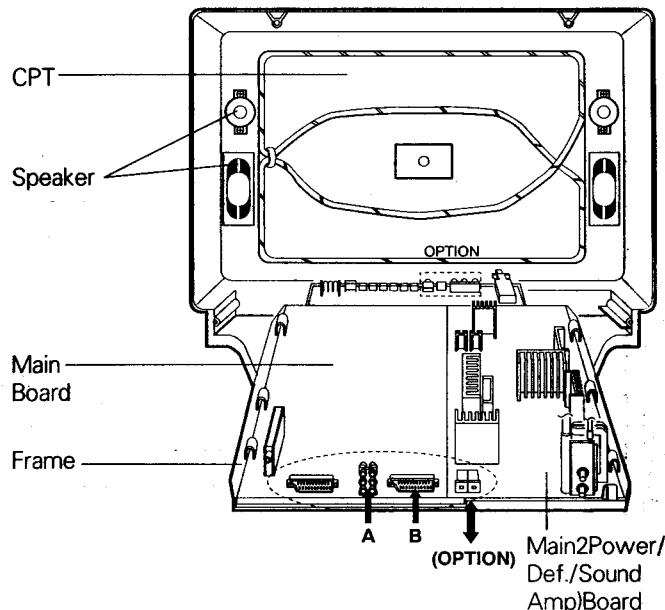
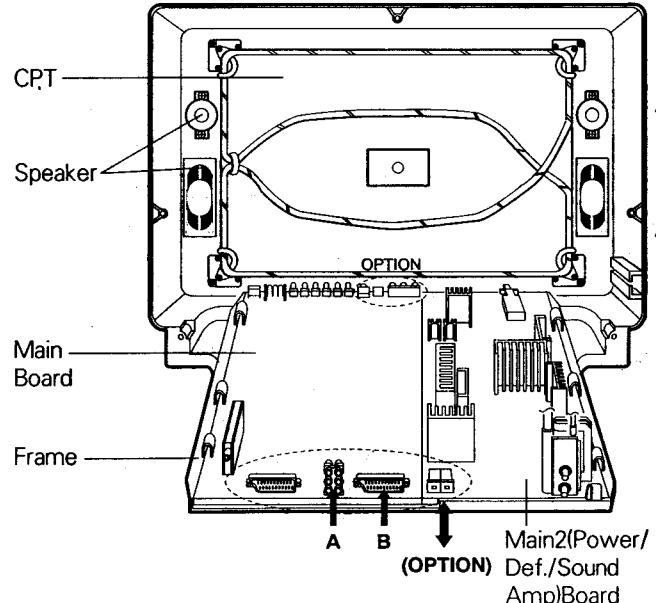
CF-25C26 Series



CF-29C26 Series



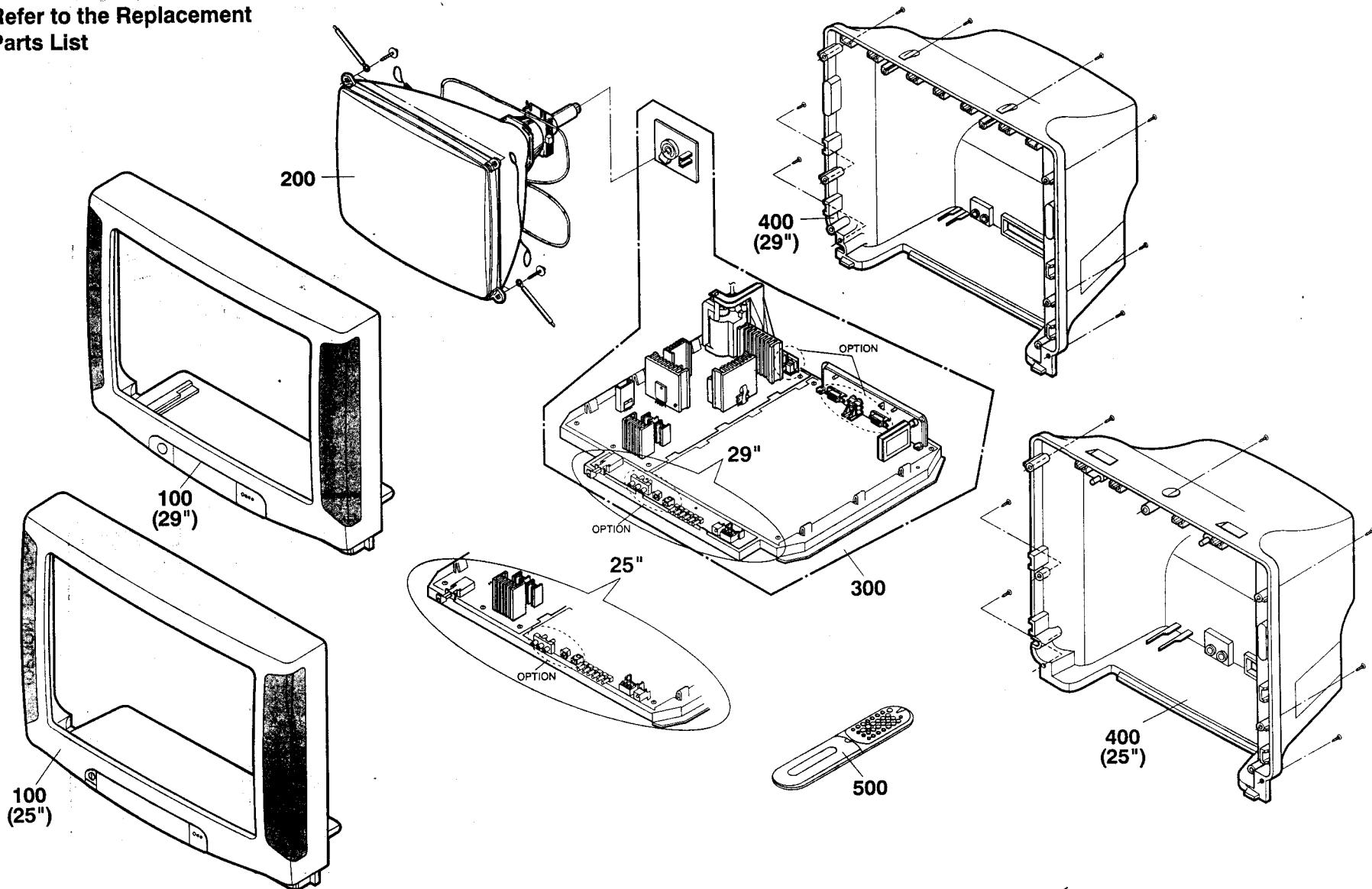
NOTE: Either A or B



Exploded View

MASTER SHEET

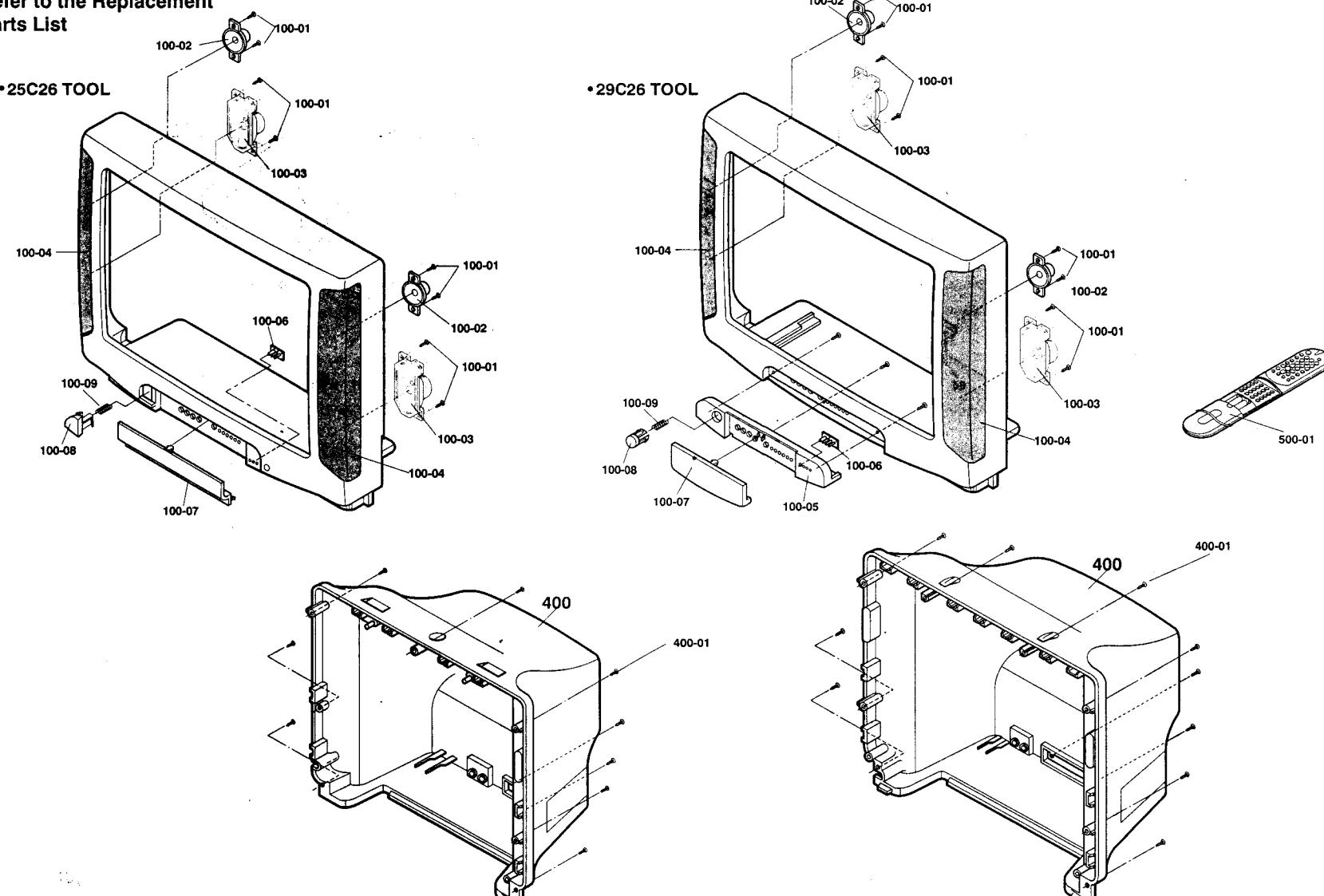
Refer to the Replacement
Parts List



Exploded View

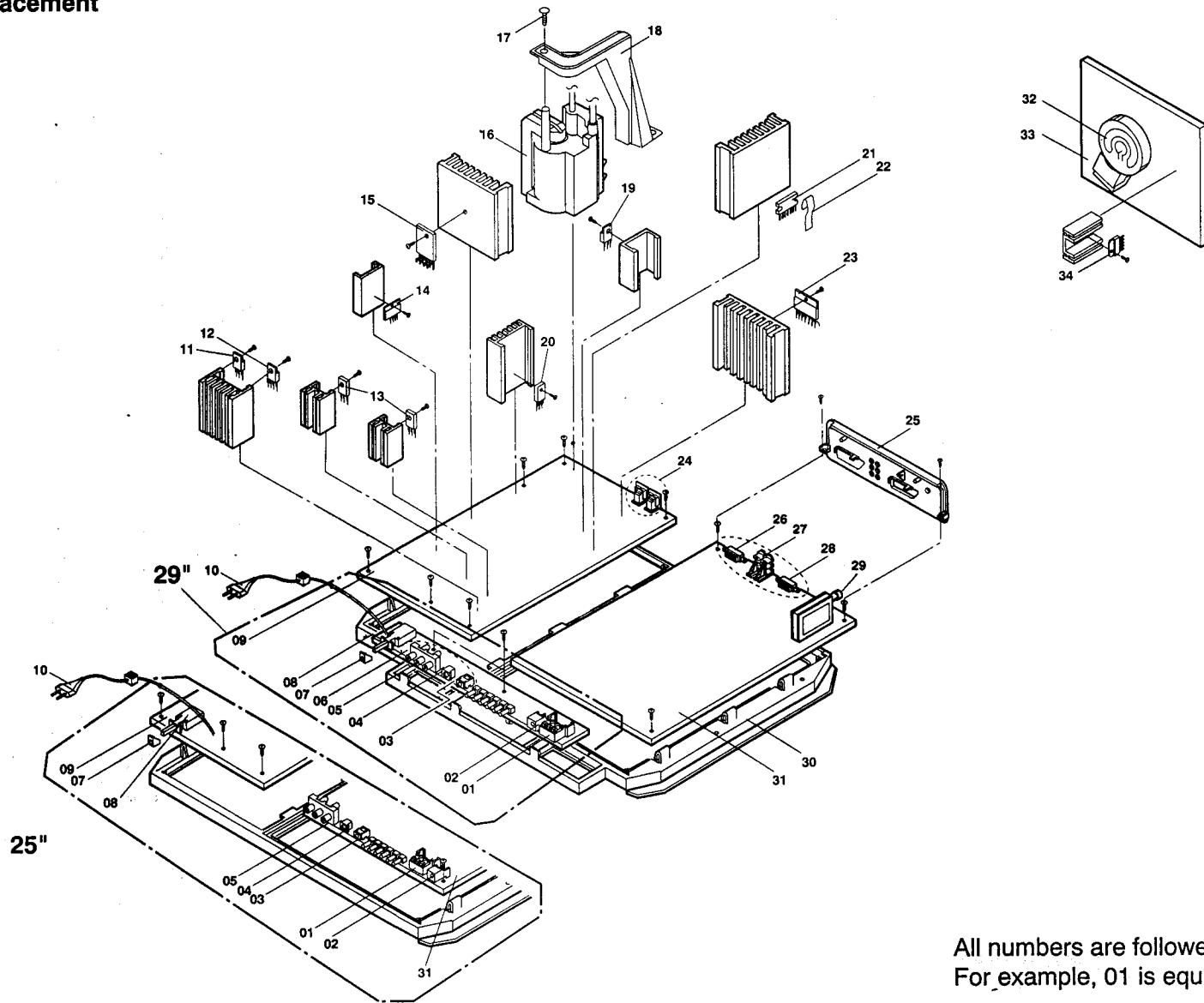
Cabinet, Back Cover
& Transmitter

Refer to the Replacement Parts List



E51BCT 3

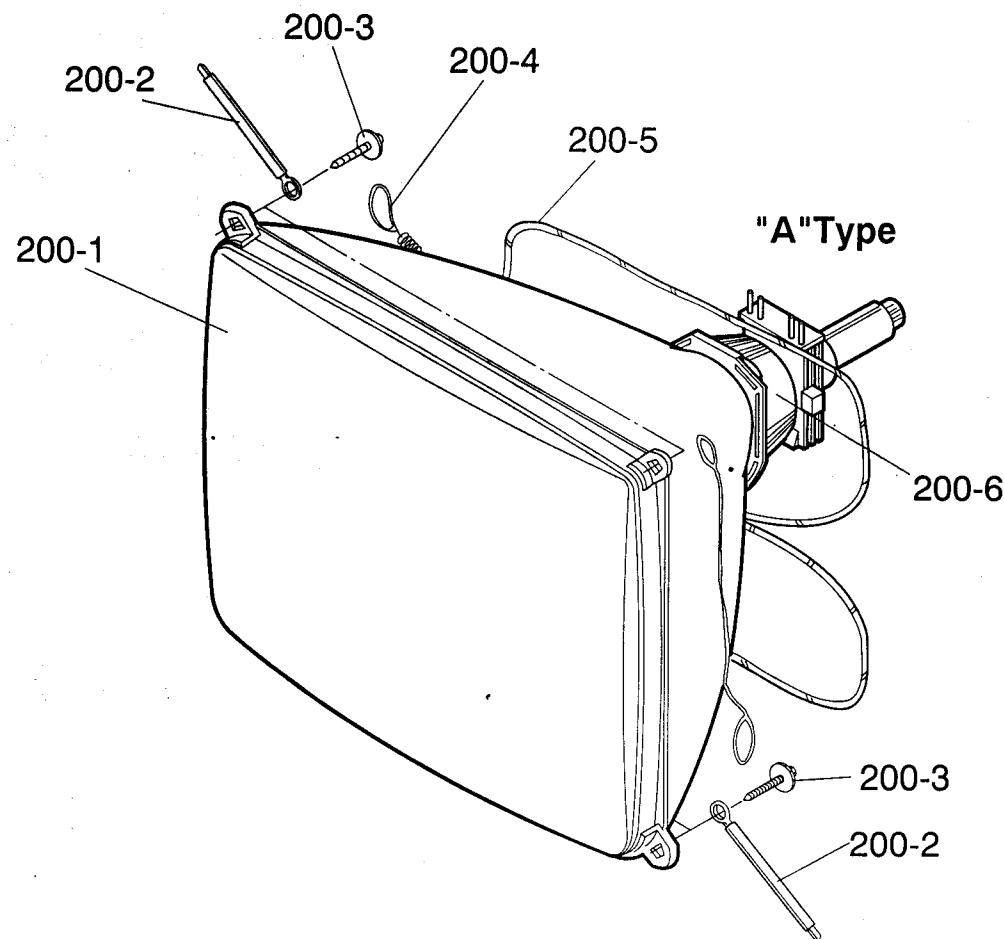
Refer to the Replacement
Parts List



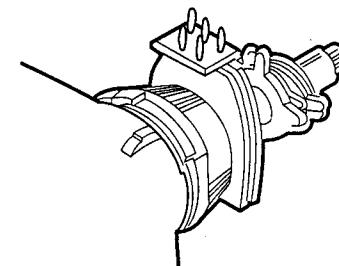
Exploded View

CPT ASSY

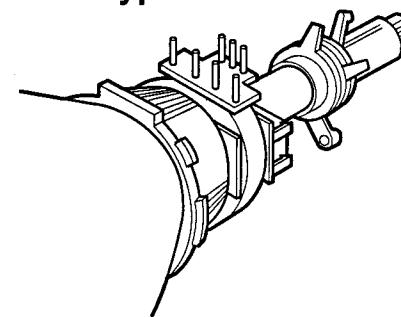
Refer to the Replacement
Parts List



"B" Type



"C" Type



The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
CAPACITORS					
C102	OCN2210K519	C,TUBULA(HIGH DIELE) 220PF 50V K	C206	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C103	OC01542K439	CAPACITOR MPE 50V 0.1UF J(TR)	C207	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5
C104	OCN1040K949	C,TUBULA(HIGH DIELE) 0.1M 50V Z	C208	OCE107DF618	C,ELECTROLYTIC 100UF STD 16V M FL TP5
C105	OCE475DK618	C,ELECTROLYTIC 4.7000UF STD 50V M FL TP5	C210	OCX0100K619	CAPACITOR TUBULA(T.C) 1P 50V M C TA52
C106	OCN1040K949	C,TUBULA(HIGH DIELE) 0.1M 50V Z	C211	OCX6R80K509	C,TUBULA(T.C) 6.8P 50V K
C107(25")	OCE477DD618	CAPACITOR,ELECTROLYTIC 470UF STD 10V M FL TP5	C212	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C108	OCN2210K519	C,TUBULA(HIGH DIELE) 220PF 50V K	C213	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5
C109	OCN4710K519	C,TUBULA(HIGH DIELE) 470PF 50V K	C214	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5
C110	OCN4710K519	C,TUBULA(HIGH DIELE) 470PF 50V K	C215	OCN1020K519	C,TUBULA(HIGH DIELE) 1000PF 50V K
C111	OCN3910K519	C,TUBULA(HIGH DIELE) 390P 50V K	C216	OCN1020K519	C,TUBULA(HIGH DIELE) 1000PF 50V K
C112	OCN1040K949	C,TUBULA(HIGH DIELE) 0.1M 50V Z	C217	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C113	OCN4710K519	C,TUBULA(HIGH DIELE) 470PF 50V K	C251	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5
C114	OCC1500K415	C,CERAMIC(TEMP COMP) 15P 50V J	C253	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5
C115	OCC1500K415	C,CERAMIC(TEMP COMP) 15P 50V J	C254	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5
C116	OCC2200K415	CAPACITOR CERAMIC(TEMP COMP) 22P 50V J NPO TS	C255	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5
C117	OCC2200K415	CAPACITOR CERAMIC(TEMP COMP) 22P 50V J NPO TS	C256	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C119	OCE335DK618	CAPACITOR,ELECTROLYTIC 3.3000UF STD 50V M FL TP5	C257	OCE107DF618	C,ELECTROLYTIC 100UF STD 16V M FL TP5
C120	OCN1010K519	C,TUBULA(HIGH DIELE) 100PF 50V K	C258	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5
C121	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C259	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C122	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5	C260	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5
C123	OCE107DD618	CAPACITOR,ELECTROLYTIC 100UF STD 10V M FL TP5	C261(25")	OCE477DD618	CAPACITOR,ELECTROLYTIC 470UF STD 10V M FL TP5
C124	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C269	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C128	OCE477DF618	C,ELECTROLYTIC 470UF STD 16V M FL TP5	C270	OCE107DF618	C,ELECTROLYTIC 100UF STD 16V M FL TP5
C129	OCK2220K945	CAPACITOR CERAMIC(HIGH DIELE) 220P 50V Z F TS	C351	OCE477DH618	C,ELECTROLYTIC 470UF STD 25V M FL TP5
C130	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5	C352	OCE1076K618	C,ELECTROLYTIC 100MF SMS 50V M
C165	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C353	OCK1040K945	C,CERAMIC(HIGH DIELE) 0.1M 50V Z
C181	OCE107DF618	C,ELECTROLYTIC 100UF STD 16V M FL TP5	C354	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L
C182	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C355	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L
C183	OCE474DK618	C,ELECTROLYTIC 0.4700UF STD 50V M FL TP5	C356	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L
C184	OCE475DK618	C,ELECTROLYTIC 4.7000UF STD 50V M FL TP5	C357	OCQ1031N509	C,POLYESTER(MYLAR) 0.01U 100V K
C185	OCE225DK618	C,ELECTROLYTIC 2.2000UF STD 50V M FL TP5	C359	OCE6851K652	CAPACITOR,ELECTROLYTIC 6.8000UF SM 50V M FM7.5 BP(S)
C186	OCE475DK618	C,ELECTROLYTIC 4.7000UF STD 50V M FL TP5	C451	OCK3910K515	CAPACITOR CERAMIC(HIGH DIELE) 390P 50V KB TS
C187	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C452	OCQ1021N509	C,POLYESTER(MYLAR) 0.001U 100V K
C188	OCE475DK618	C,ELECTROLYTIC 4.7000UF STD 50V M FL TP5	C453	OCE475DP618	C,ELECTROLYTIC 4.7000UF STD 160V M FL TP5
C189	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C454(25")	181-014S	CAPACITOR MPP 2000V 0.0022UF J
C190	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C454(25")	181-011B	CAPACITOR PP 1600V 0.001UF J
C191	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	Δ C455(25")	181-015E	CAPACITOR MPP 1600V 0.0095UF H
C192	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	Δ C455(25")	181-014K	CAPACITOR MPP 1600V 0.0082UF J
C193	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5	Δ C456(25")	181-015L	CAPACITOR MPP 1600V 0.0035UF H
C194	OCE107DF618	C,ELECTROLYTIC 100UF STD 16V M FL TP5	Δ C456(25")	181-015J	CAPACITOR MPP 1600V 0.0066UF H
C195	181-444G	C,POLYESTER(MYLAR) 0.15MF 100V K	Δ C457(25")	181-003E	CAPACITOR MPP 1600V 0.022UF K
C196	OCN1040K949	C,TUBULA(HIGH DIELE) 0.1M 50V Z	Δ C457(25")	181-005J	CAPACITOR PP 400V 0.033UF K
C197	OCN4710K519	C,TUBULA(HIGH DIELE) 470PF 50V K	Δ C458(25")	181-013J	CAPACITOR MPP 200V 0.7UF J
C198	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	Δ C458(25")	181-013G	CAPACITOR MPP 200V 0.5UF J
C199	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C460(25")	OCE106BR618	C,ELECTROLYTIC 10UF KME 250V M
C200	OCE225DK618	C,ELECTROLYTIC 2.2000UF STD 50V M FL TP5	C501	OCQ1031N509	C,POLYESTER(MYLAR) 0.01U 100V K
C201	OCE226DF618	C,ELECTROLYTIC 22UF STD 16V M FL TP5	C502	OCQ1031N509	C,POLYESTER(MYLAR) 0.01U 100V K
C202	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5	C503	OCQ1031N509	C,POLYESTER(MYLAR) 0.01U 100V K
C203	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C505	OCE105DK618	C,ELECTROLYTIC 1UF STD 50V M FL TP5
C204	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C509	OCQ2242K439	CAPACITOR MPE 50V 0.22UF J(TR)
C205	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5	C510	OCQ2242K439	CAPACITOR MPE 50V 0.22UF J(TR)
			C511	OCQ2242K439	CAPACITOR MPE 50V 0.22UF J(TR)

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C512	OCQ3931N509	C,POLYESTER(MYLAR) 0.039 100V L	C606	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5
C513	OCQ1031N509	C,POLYESTER(MYLAR) 0.01MF 100V M FL TP5	C607	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C514	OCE105DK618	C,ELECTROLYTIC 1UF STD 50V M FL TP5	C608	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C515	181-027A	CAPACITOR,CK 50V 0.018MFM	C609	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5
C516	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C610	OCQ3342K439	CAPACITOR MPE 50V 0.33UF J(TR)
C517	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6101	OCQ4742K439	CAPACITOR MPE 50V 0.47UF J(TR)
C518	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6102	OCQ4742K439	CAPACITOR MPE 50V 0.47UF J(TR)
C519	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6103	OCN3320F569	C,TUBULA(HIGH DIELE) 3300PF 16V K
C520	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6104	OCN3320F569	C,TUBULA(HIGH DIELE) 3300PF 16V K
C521	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6105	OCE226DF618	C,ELECTROLYTIC 22UF STD 16V M FL TP5
C522	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C6106	OCE226DF618	C,ELECTROLYTIC 22UF STD 16V M FL TP5
C534	OCE476DD618	CAPACITOR,ELECTROLYTIC 47UF STD 10V M FL TP5	C6107	OCE227DF618	C,ELECTROLYTIC 220UF STD 16V M FL TP5
C535	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C6108	OCE227DF618	C,ELECTROLYTIC 220UF STD 16V M FL TP5
C536	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6109	OCE227DF618	C,ELECTROLYTIC 220UF STD 16V M FL TP5
C537	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C611	OCQ3342K439	CAPACITOR MPE 50V 0.33UF J(TR)
C538	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C6110	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C539	OCE476DD618	CAPACITOR,ELECTROLYTIC 47UF STD 10V M FL TP5	C6112	OCE105DK618	C,ELECTROLYTIC 1UF STD 50V M FL TP5
C540	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C6113	OCE105DK618	C,ELECTROLYTIC 1UF STD 50V M FL TP5
C541	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6114	OCE105DK618	C,ELECTROLYTIC 1UF STD 50V M FL TP5
C542	OCQ1041N455	CAPACITOR,POLYESTER(MYLAR) 0.1000UF 100V J PP NI FM7.5	C6115	OCE105DK618	C,ELECTROLYTIC 1UF STD 50V M FL TP5
C543	OCE1020K945	C,CERAMIC(HIGH DIELE) 1000P 50V Z	C6116	OCN4710K519	C,TUBULA(HIGH DIELE) 470PF 50V K
C544	OCQ3321N509	C,POLYESTER(MYLAR) 0.0033U 100V K	C6117	OCN4710K519	C,TUBULA(HIGH DIELE) 470PF 50V K
C545	OCE105DK618	C,ELECTROLYTIC 1UF STD 50V M FL TP5	C6118	OCN1040K949	C,TUBULA(HIGH DIELE) 0.1M 50V Z
C546	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6119	OCE335DK618	CAPACITOR,ELECTROLYTIC 3.3000UF STD 50V M FL TP5
C547	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6120	OCN1020K519	C,TUBULA(HIGH DIELE) 1000PF 50V K
C548	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6121	OCE107DD618	CAPACITOR,ELECTROLYTIC 100UF STD 10V M FL TP5
C549	OCQ4742K439	CAPACITOR MPE 50V 0.47UF J(TR)	C6122	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C550	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6123	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5
C551	OCQ4721N509	C,POLYESTER(MYLAR) 0.0047U 100V K	C6124	OCE226DF618	C,ELECTROLYTIC 22UF STD 16V M FL TP5
C552	OCQ2231N509	C,POLYESTER(MYLAR) 0.023MF 100V L	C6125	OCE226DF618	C,ELECTROLYTIC 22UF STD 16V M FL TP5
C553	OCC1800K415	C,CERAMIC(TEMP COMP) 18P 50V J	C6126	OCE226DF618	C,ELECTROLYTIC 22UF STD 16V M FL TP5
C554	OCC1500K415	C,CERAMIC(TEMP COMP) 15P 50V J	C6127	OCE226DF618	C,ELECTROLYTIC 22UF STD 16V M FL TP5
C555	OCQ1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C6129	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5
C559	OCE107DD618	CAPACITOR,ELECTROLYTIC 100UF STD 10V M FL TP5	C6130	OCE335DK618	CAPACITOR,ELECTROLYTIC 3.3000UF STD 50V M FL TP5
C563	OCE107DF618	C,ELECTROLYTIC 100UF STD 16V M FL TP5	C6131	OCX1000K409	C,TUBULA(T.C) 10P 50V J
C6001	OCE107DF618	C,ELECTROLYTIC 100UF STD 16V M FL TP5	C6132	OCX1000K409	C,TUBULA(T.C) 10P 50V J
C6002	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C6133	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C6003	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C6134	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5
C6004	OCQ2721N409	C,POLYESTER(MYLAR) 2700PF 100V J	C6135	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M
C6005	OCQ4742K439	CAPACITOR MPE 50V 0.47UF J(TR)	C6136	OCN1020K519	C,TUBULA(HIGH DIELE) 1000PF 50V K
C6006	OCN3320F569	C,TUBULA(HIGH DIELE) 3300PF 16V K	C6137	OCN1020K519	C,TUBULA(HIGH DIELE) 1000PF 50V K
C6007	OCN1030F679	C,TUBULA(HIGH DIELE) 0.01MF 16V M	C6138	OCN1020K519	C,TUBULA(HIGH DIELE) 1000PF 50V K
C6008	OCQ2721N409	C,POLYESTER(MYLAR) 2700PF 100V J	C6139	OCN1020K519	C,TUBULA(HIGH DIELE) 1000PF 50V K
C6009	OCQ4742K439	CAPACITOR MPE 50V 0.47UF J(TR)	C6140	OCN3910K519	C,TUBULA(HIGH DIELE) 390P 50V K
C601	OCX5600K409	C,TUBULA(T.C) 56P 50V J	C6141	OCE105DK618	C,ELECTROLYTIC 1UF STD 50V M FL TP5
C6010	OCN3320F569	C,TUBULA(HIGH DIELE) 3300PF 16V K	C6142	OCE105DK618	C,ELECTROLYTIC 1UF STD 50V M FL TP5
C6011	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5	C6143	OCN1020K519	C,TUBULA(HIGH DIELE) 1000PF 50V K
C6012	OCE106DF618	C,ELECTROLYTIC 10UF STD 16V M FL TP5	C6144	OCN1020K519	C,TUBULA(HIGH DIELE) 1000PF 50V K
C6013	OCE107DH618	CAPACITOR,ELECTROLYTIC 100UF STD 25V M FL TP5	C6145	OCN1020K519	C,TUBULA(HIGH DIELE) 1000PF 50V K
C6014	OCE107DF618	C,ELECTROLYTIC 100UF STD 16V M FL TP5	C6146	OCN3910K519	C,TUBULA(HIGH DIELE) 390P 50V K
C602	OCX5600K409	C,TUBULA(T.C) 56P 50V J	C6151	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5
C603	OCX5600K409	C,TUBULA(T.C) 56P 50V J	C6152	OCQ4742K439	CAPACITOR MPE 50V 0.47UF J(TR)

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C653	OQC1021N509	C,POLYESTER(MYLAR) 0.001U 100V K	C828	OCE477DF618	C,ELECTROLYTIC 470UF STD 16V M FL TP5
C654	OQC4742K439	CAPACITOR MPE 50V 0.47UF J(TR)	C829	181-003D	CAPACITOR CE 160V 100UF T HR (85)
C655	OQC1021N509	C,POLYESTER(MYLAR) 0.001U 100V K	C831	OCK4710W515	C,CERAMIC(HIGH DIELE) 470PF 500V K
C656	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5	C832	181-091D	CAPACITOR DE0905 R 102K 1KV TP5
C657	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5	C833	181-091D	CAPACITOR DE0905 R 102K 1KV TP5
C658	OCE105DK618	C,ELECTROLYTIC 1UF STD 50V M FL TP5	C834	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5
C659	OCK1040K945	C,CERAMIC(HIGH DIELE) 0.1M 50V Z	C834	OQC1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L
C660	OCE228D650	CAPACITOR,ELECTROLYTIC 2200UF STD 35V M FM7.5 BULK	C837	OCE228DK650	CAPACITOR,ELECTROLYTIC 2200UF STD 50V M FM7.5 BULK
C661	OCE225DK618	C,ELECTROLYTIC 2.2000UF STD 50V M FL TP5	C838	OCN1040K949	C,TUBULA(HIGH DIELE) 0.1M 50V Z
C662	OCK1030K945	C,CERAMIC(HIGH DIELE) 0.01MF 50V Z	C839	OCE108DK61A	CAPACITOR,ELECTROLYTIC 1000UF STD 50V M FL TP7.5
C663	OQC1041N509	C,POLYESTER(MYLAR) 0.1MF 100V L	C840	OCN1040K949	C,TUBULA(HIGH DIELE) 0.1M 50V Z
C664	OCE228DH61A	CAPACITOR,ELECTROLYTIC 2200UF STD 25V M FL TP7.5	Δ C850	181-120G	CAPACITOR ACT 4KV E 472M FL10
C665	OCE228DH61A	CAPACITOR,ELECTROLYTIC 2200UF STD 25V M FL TP7.5	Δ C850(28")	181-120E	CAPACITOR ACT 4KV E 472M FL10
C666	OQC4721N509	C,POLYESTER(MYLAR) 0.0047U 100V K	Δ C851	181-120G	CAPACITOR ACT 4KV E 472M FL10
C667	OQC4721N509	C,POLYESTER(MYLAR) 0.0047U 100V K	C901	OCX2200K409	C,TUBULA(T.C) 22PF 50V J
C668	OQC1042K439	CAPACITOR MPE 50V 0.1UF J(TR)	C902	OCX2200K409	C,TUBULA(T.C) 22PF 50V J
C695	OCN4710K519	C,TUBULA(HIGH DIELE) 470PF 50V K	C903	OCX2200K409	C,TUBULA(T.C) 22PF 50V J
C696	OCN4710K519	C,TUBULA(HIGH DIELE) 470PF 50V K	C904	OCK1020K945	C,CERAMIC(HIGH DIELE) 1000P 50V Z
C701	181-009V	CAPACITOR PP 200V 0.047UF K	C905	OCK1020K945	C,CERAMIC(HIGH DIELE) 1000P 50V Z
C702	OCE106BR618	C,ELECTROLYTIC 10UF KME 250V M	C906	OCC5600K415	C,CERAMIC(TEMP COMP) 56P 50V J
C703	OCK2710W515	C,CERAMIC(HIGH DIELE) 270P 500V K	C911	OCN1040K949	C,TUBULA(HIGH DIELE) 0.1M 50V Z
C704	OCE106BR618	C,ELECTROLYTIC 10UF KME 250V M	C912	OCE107DF618	C,ELECTROLYTIC 100UF STD 16V M FL TP5
C705	OCK2710W515	C,CERAMIC(HIGH DIELE) 270P 500V K	C913	OCN2210K519	C,CERAMIC(HIGH DIELE) 220PF 50V K
C706	OCE477DH618	C,ELECTROLYTIC 470UF STD 25V M FL TP5	C914	OCK1020W515	C,CERAMIC(HIGH DIELE) 1000PF 500V K
C707	OCK2710W515	C,CERAMIC(HIGH DIELE) 270P 500V K	C915	OCK1020Z510	C,CERAMIC(HIGH DIELE) 1000P 2KV K
Δ C708	OCE4766N618	C,ELECTROLYTIC 47U SMS 100V M	Δ C916	OCE2261R618	C,ELECTROLYTIC 22M SM 250V M
C710	OCK5610W515	C,CERAMIC(HIGH DIELE) 560PF 500V K	C919	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5
C711	OCC5600K415	C,CERAMIC(TEMP COMP) 56P 50V J	C940	OCE2251R618	C,ELECTROLYTIC 2.2M SM 250V M
Δ C801	181-008F	CAPACITOR MPE AC 250V 0.22UF M(VDE)	Z202	OCX2200K409	C,TUBULA(T.C) 22PF 50V J
Δ C802	181-017C	CAPACITOR MPP(BOX)AC250V 0.47UF K			
C803	181-017A	CAPACITOR MPP(BOX)AC250V 0.10UF M			
C804	181-091D	CAPACITOR DE0905 R 102K 1KV TP5			
C805	181-091D	CAPACITOR DE0905 R 102K 1KV TP5	D101	ODD414809ED	DIODE DS4148
C806	181-091D	CAPACITOR DE0905 R 102K 1KV TP5	D102	ODD414809ED	DIODE DS4148
C807	181-091D	CAPACITOR DE0905 R 102K 1KV TP5	D103	ODD414809ED	DIODE DS4148
C808	181-001F	CAPACITOR CE 400V 220UF M LUG (85)	D109	ODD414809ED	DIODE DS4148
C809	181-001F	CAPACITOR CE 400V 220UF M LUG (85)	D110	ODD414809ED	DIODE DS4148
C810	OCE477DF618	C,ELECTROLYTIC 470UF STD 16V M FL TP5	D111	ODD414809ED	DIODE DS4148
C811	OCE2276H618	CAPACITOR,ELECTROLYTIC 220UF 25V M FL TP5	D181	ODD414809ED	DIODE DS4148
C812	OCE226DN618	CAPACITOR,ELECTROLYTIC 22UF STD 100V M FL TP5	D201	ODD859009AA	DIODE SILICON MA859 TAPING
C813	OCK1020K515	C,CERAMIC(HIGH DIELE) 1000PF 500V K	D202	ODD859009AA	DIODE SILICON MA859 TAPING
C814	181-011D	CAPACITOR PP 1600V 0.0022UF J	D251(25")	ODL210000AC	DIODE LED LED,RED DS2(DL-1LRN)
C815	OCE476DF618	C,ELECTROLYTIC 47UF STD 16V M FL TP5	D252(25")	ODL210000AC	DIODE LED LED,RED DS2(DL-1LRN)
C817	181-091C	CAPACITOR DE0705 R 471K 1KV TP5	D253(25")	ODL138000AA	DIODE,LED KLRG138A,DUAL LED,KEC
C820	OCE2271P640	C,ELECTROLYTIC 220MF SMS 160V M	D261(29")	ODL210000AC	DIODE LED LED,RED DS2(DL-1LRN)
C821	OCE107DN618	CAPACITOR,ELECTROLYTIC 100UF STD 100V M FL TP5	D262(29")	ODL210000AC	DIODE LED LED,RED DS2(DL-1LRN)
C822	OCE1051K636	CAPACITOR,ELECTROLYTIC 1UF SM 50V M FM5 BP(D) TP	D707(29")	ODD400509AA	DIODE 1N4005 GP TA
C824	OCE108DF618	CAPACITOR,ELECTROLYTIC 1000UF STD 16V M FL TP5	Δ D451	ODD410000AC	DIODE RU4DS,LF-L1
C825	OCE337DH618	C,ELECTROLYTIC 330UF STD 25V M FL TP5	Δ D452	ODD410000AC	DIODE RU4DS,LF-L1
C826	OCE338EH610	CAPACITOR,ELECTROLYTIC 3300M SMS 25V M FL	D453	ODD150009CA	DIODE RGP15J
C826(28")	OCE2286H610	CAPACITOR,ELECTROLYTIC 2200M SMS 25V M FL	D501	ODD414809ED	DIODE DS4148
C827	OCK4710W515	C,CERAMIC(HIGH DIELE) 470PF 500V K	D502	ODD414809ED	DIODE DS4148
			D503	ODD340009CA	DIODE 1K34A TP-A

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION	
D504	ODD414809ED	DIODE DS4148	ZD705	ODZ750009AA	DIODE ZENER MTZ7.5B	
D505	ODD414809ED	DIODE DS4148	ZD708	ODZ820009DA	DIODE,ZENER MTZ8.2C 0.5W(52MM)TP TP ROHM N	
D506	ODD414809ED	DIODE DS4148	ZD808	ODZ750009AA	DIODE ZENER MTZ7.5B	
D507	ODD414809ED	DIODE DS4148	ZD828	ODZ910009BA	DIODE ZENER MTZ9.1B	
D508	ODD414809ED	DIODE DS4148	ZD901	ODZ910009BA	DIODE ZENER MTZ9.1B	
D509	ODD414809ED	DIODE DS4148	FERRITE CORES			
D601	ODD414809ED	DIODE DS4148	FB451	125-022K	CORE FERRITE 1UH	
D701	ODD060009AC	DIODE TVR06J 0.6A/600V 250NS	FB452	125-022K	CORE FERRITE 1UH	
D702	ODD100009DA	DIODE RGP10J,TP(52MM),GI	FB801	125-123A	CORE FERRITE BFD3565R2F	
D704	ODD060009AC	DIODE TVR06J 0.6A/600V 250NS	FB802	125-022K	CORE FERRITE 1UH	
D801	ODD560000AA	DIODE D5SB60 BRIDGE (5A/600V)S.D.G	FB803	125-022K	CORE FERRITE 1UH	
D802	ODD150009CE	DIODE GP15J TP (1.5A/600V) GI	FB804	125-022K	CORE FERRITE 1UH	
D803	ODD100009AL	DIODE EH-1ZV	FB806	125-123A	CORE FERRITE BFD3565R2F	
D804	ODD060009AC	DIODE TVR06J 0.6A/600V 250NS	Δ FB809	125-022K	CORE FERRITE 1UH	
D805	ODD060009AC	DIODE TVR06J 0.6A/600V 250NS	L3	125-022K	CORE FERRITE 1UH	
D807	ODD060009AC	DIODE TVR06J 0.6A/600V 250NS	RESISTORS			
D808	ODD060009AC	DIODE TVR06J 0.6A/600V 250NS	Δ FR351	ORF0221K607	RESISTOR,FUSIBLE 2.20 2W 5% TA62	
D822	ODD420000BB	DIODE D4L20U	Δ FR651	ORF0470J607	R,FUSIBLE 0.47 1W 5%	
D823	ODD060009AC	DIODE TVR06J 0.6A/600V 250NS	Δ FR701	ORF0470H609	R,FUSIBLE 0.47 1/2W 5	
D824	ODD060009AC	DIODE TVR06J 0.6A/600V 250NS	Δ FR702(25")	ORF0101K607	R,FUSIBLE 12W 5%	
D825	ODD410000AD	DIODE RU4AM,LF-L1	Δ FR702(29")	ORF0470J607	R,FUSIBLE 0.47 1W 5%	
D826	ODD060009AC	DIODE TVR06J 0.6A/600V 250NS	Δ FR703	ORF0470J607	R,FUSIBLE 0.47 1W 5%	
D827	ODD414809ED	DIODE DS4148	Δ FR704	ORF0470H609	R,FUSIBLE 0.47 1/2W 5	
D828	ODD414809ED	DIODE DS4148	Δ FR705	ORF0121K607	R,FUSIBLE 1.20 2W 5%	
D829	ODD420000BB	DIODE D4L20U	Δ FR901	ORF0470K607	R,FUSIBLE 0.47 2W 5%	
D830	ODD414809ED	DIODE DS4148	R101	ORD6801F609	R,CARBON FILM 6.8K 1/6W 5	
D831	ODD414809ED	DIODE DS4148	R102	ORD9100F609	R,CARBON FILM 910 1/6W 5	
D832	ODD414809ED	DIODE DS4148	R103	ORN9102F409	RESISTOR,FIX METAL FILM 91K 1/6W 1% TA52	
D833	ODD414809ED	DIODE DS4148	R104	ORD2702F609	R,CARBON FILM 27K 1/6W 5	
D834	ODD414809ED	DIODE DS4148	R106	ORN1202F609	RESISTOR FIX METAL FILM 12K 1/6W 5 TA52	
D901	ODD414809ED	DIODE DS4148	R107	ORD1501H609	R,CARBON FILM 1.5K 1/2W 5	
D902	ODD414809ED	DIODE DS4148	R108	ORD5602F609	R,CARBON FILM 56K 1/6W 5	
Δ D903	ODD414809ED	DIODE DS4148	R109	ORD4700F609	R,CARBON FILM 470 1/6W 5	
D904	ODD414809ED	DIODE DS4148	R110	ORD5602F609	R,CARBON FILM 56K 1/6W 5	
D905	ODD414809ED	DIODE DS4148	R111	ORD4700F609	R,CARBON FILM 470 1/6W 5	
D906	ODD414809ED	DIODE DS4148	R112	ORD5602F609	R,CARBON FILM 56K 1/6W 5	
D907	ODD414809ED	DIODE DS4148	R113	ORD4700F609	R,CARBON FILM 470 1/6W 5	
D910	ODD400309AD	DIODE IN4003A RECT K-ROHM TP	R114	ORD4701F609	R,CARBON FILM 4.7K 1/6W 5	
R507	ODZ510009AB	DIODE ZENER MTZ5.1B	R115	ORD2200F609	R,CARBON FILM 220 1/6W 5	
R508	ODZ510009AB	DIODE ZENER MTZ5.1B	R116	ORD1000F609	R,CARBON FILM 100 1/6W 5	
R509	ODZ510009AB	DIODE ZENER MTZ5.1B	R117	ORD1000F609	R,CARBON FILM 100 1/6W 5	
ZD101	ODZ330009BA	DIODE ZENER HZT33	R118	ORD4701F609	R,CARBON FILM 4.7K 1/6W 5	
ZD102	ODZ750009AA	DIODE ZENER MTZ7.5B	R121	ORD1000F609	R,CARBON FILM 100 1/6W 5	
ZD103	ODZ750009AA	DIODE ZENER MTZ7.5B	R122	ORD2701F609	R,CARBON FILM 2.7K 1/6W 5	
ZD104	ODZ750009AA	DIODE ZENER MTZ7.5B	R123	ORD3302F609	R,CARBON FILM 33K 1/6W 5	
ZD106	ODZ510009AB	DIODE ZENER MTZ5.1B	R124	ORD1002F609	R,CARBON FILM 10K 1/6W 5	
ZD358	ODZ240009BB	DIODE ZENER MTZ24B	R125	OCE227DF618	C,ELECTROLYTIC 220UF STD 16V M FL TP5	
ZD359	ODZ240009BB	DIODE ZENER MTZ24B	R125	ORD1002F609	R,CARBON FILM 10K 1/6W 5	
ZD360	ODZ330009CA	DIODE ZENER MTZ 33B,TP(52MM),ROHM	R126	ORD1000F609	R,CARBON FILM 100 1/6W 5	
ZD501	ODZ820009AA	DIODE ZENER MTZ8.2B TP ROHM-K	R127	OCE227DF618	C,ELECTROLYTIC 220UF STD 16V M FL TP5	
ZD502	ODZ510009AB	DIODE ZENER MTZ5.1B				
ZD601	ODD414809ED	DIODE 1N4148				

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R451	ORD4700F609	R,CARBON FILM 470 1/6W 5	R570	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5
R452	180-B01C	RESISTOR RS RECT S 5W 3.3K J DOUBLE	R571	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5
R453	ORS3301J607	R,METAL FILM OXIDE 3.30K 1W 5% TA62	R572	ORD3001F609	R,CARBON FILM 3.0K 1/6W 5
R454	ORD0472H609	R,CARBON FILM 47 1/2W 5	R6001	ORD0472F609	R,CARBON FILM 47 1/6W 5
Δ R455	ORS1201J607	R,METAL FILM OXIDE 120K 1W 5%	R6002	ORD5602F609	R,CARBON FILM 56K 1/6W 5
R457(25")	ORS1002J607	R,METAL FILM OXIDE 10K 1W 5%	R6003	ORD2701F609	R,CARBON FILM 2.7K 1/6W 5
R457(29")	ORS1502K607	R,METAL FILM OXIDE 15K 2W 5%	R6004	ORD6801F609	R,CARBON FILM 6.8K 1/6W 5
R458(25")	ORS1002J607	R,METAL FILM OXIDE 10K 1W 5%	R6005	ORD2000F609	R,CARBON FILM 200 1/6W 5
R458(29")	ORS1502K607	R,METAL FILM OXIDE 15K 2W 5%	R6006	ORD0472F609	R,CARBON FILM 47 1/6W 5
R505	ORD1004F609	R,CARBON FILM 10M 1/6W 5	R6007	ORD5602F609	R,CARBON FILM 56K 1/6W 5
R510	ORD1000F609	R,CARBON FILM 100 1/6W 5	R6008	ORD6801F609	R,CARBON FILM 6.8K 1/6W 5
R511	ORD1000F609	R,CARBON FILM 100 1/6W 5	R6009	ORD2701F609	R,CARBON FILM 2.7K 1/6W 5
R512	ORD1000F609	R,CARBON FILM 100 1/6W 5	R601	ORD1001F609	R,CARBON FILM 10K 1/6W 5
R516	ORD1000F609	R,CARBON FILM 100 1/6W 5	R6010	ORD2000F609	R,CARBON FILM 200 1/6W 5
R517	ORD1000F609	R,CARBON FILM 100 1/6W 5	R6011	ORD1301H609	RESISTOR,FIXED CARBON FILM 1.3K 1/2W 5 TA52
R518	ORD5600F609	R,CARBON FILM 560 1/6W 5	R602	ORD1001F609	R,CARBON FILM 10K 1/6W 5
R519	ORD5603F609	R,CARBON FILM 560K 1/6W 5	R603	ORD4702F609	R,CARBON FILM 47K 1/6W 5
R520	ORD3302F609	R,CARBON FILM 33K 1/6W 5	R604	ORD4702F609	R,CARBON FILM 47K 1/6W 5
R521	ORD3302F609	R,CARBON FILM 33K 1/6W 5	R605	ORD4702F609	R,CARBON FILM 47K 1/6W 5
R522	ORD8202F609	R,CARBON FILM 82K 1/6W 5	R606	ORD4702F609	R,CARBON FILM 47K 1/6W 5
R523	OCE227DF618	C,ELECTROLYTIC 220UF STD 16V M FL TP5	R607	ORD1000F609	R,CARBON FILM 100 1/6W 5
R523	ORD4701F609	R,CARBON FILM 4.7K 1/6W 5	R608	ORD1000F609	R,CARBON FILM 100 1/6W 5
R524	ORD3901F609	R,CARBON FILM 3.9K 1/6W 5	R609	ORD1000F609	R,CARBON FILM 100 1/6W 5
R525	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5	R610	ORD1000F609	R,CARBON FILM 100 1/6W 5
R526	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5	R6101	ORD2001F609	R,CARBON FILM 2.0K 1/6W 5
R527	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5	R6102	ORD2001F609	R,CARBON FILM 2.0K 1/6W 5
R534	ORD1500F609	R,CARBON FILM 150 1/6W 5	R6103	ORD1201F609	R,CARBON FILM 1.2K 1/6W 5
R535	ORD0102F609	R,CARBON FILM 10 1/6W 5	R6104	ORD1201F609	R,CARBON FILM 1.2K 1/6W 5
R536	ORD0102F609	R,CARBON FILM 10 1/6W 5	R6105	ORD2200F609	R,CARBON FILM 220 1/6W 5
R537	ORD1000F609	R,CARBON FILM 100 1/6W 5	R6106	ORD2200F609	R,CARBON FILM 220 1/6W 5
R538	ORD1000F609	R,CARBON FILM 100 1/6W 5	R6107	ORD7501F609	R,CARBON FILM 7.5K 1/6W 5
R540	ORN3902F409	R, METAL FILM 39K 1/6W 1%	R6108	ORD7501F609	R,CARBON FILM 7.5K 1/6W 5
R541	ORD2702F609	R,CARBON FILM 27K 1/6W 5	R6109	ORD101H609	R,CARBON FILM 10 1/2W 5
R542	ORD1003F609	R,CARBON FILM 100K 1/6W 5	R611	ORD4700F609	R,CARBON FILM 470 1/6W 5
R543	ORD3903F609	R,CARBON FILM 390K 1/6W 5	R6110	ORD3300H609	R,CARBON FILM 330 1/2W 5
R544	ORD4701F609	R,CARBON FILM 4.7K 1/6W 5	R6111	ORD3300H609	R,CARBON FILM 330 1/2W 5
R545	ORD1002F609	R,CARBON FILM 10K 1/6W 5	R6112	ORD4700F609	R,CARBON FILM 470 1/6W 5
R546	ORD1802F609	R,CARBON FILM 18K 1/6W 5	R6113	ORD1002F609	R,CARBON FILM 10K 1/6W 5
R549	ORD0682F609	R,CARBON FILM 68 1/6W 5	R6114	ORD1000F609	R,CARBON FILM 100 1/6W 5
R550	ORD1000F609	R,CARBON FILM 100 1/6W 5	R6115	ORD1000F609	R,CARBON FILM 100 1/6W 5
R551	ORD5102F609	R,CARBON FILM 51K 1/6W 5	R6116	ORD4700F609	R,CARBON FILM 470 1/6W 5
R552	ORD2701F609	R,CARBON FILM 2.7K 1/6W 5	R6117	ORD4700F609	R,CARBON FILM 470 1/6W 5
R560	ORD0752F609	R,CARBON FILM 75 1/6W 5	R6118	ORD4702F609	R,CARBON FILM 47K 1/6W 5
R561	ORD0752F609	R,CARBON FILM 75 1/6W 5	R6119	ORD4702F609	R,CARBON FILM 47K 1/6W 5
R562	ORD0752F609	R,CARBON FILM 75 1/6W 5	R620	ORS022J607	R,METAL FILM OXIDE 22 1W 5%
R563	ORD0752F609	R,CARBON FILM 75 1/6W 5	R621	ORD2203F609	R,CARBON FILM 220K 1/6W 5
R564	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5	R622	ORD2203F609	R,CARBON FILM 220K 1/6W 5
R565	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5	R648	OCE227DF618	C,ELECTROLYTIC 220UF STD 16V M FL TP5
R566	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5	R649	OCE227DF618	C,ELECTROLYTIC 220UF STD 16V M FL TP5
R567	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5	R651	ORD4300F609	R,CARBON FILM 430 1/6W 5
R568	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5	R652(25")	ORD2702F609	R,CARBON FILM 27K 1/6W 5
R569	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5	R652(29")	ORD3300H609	R,CARBON FILM 330 1/2W 5

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
R653	ORD2002F609	R,CARBON FILM 20K 1/6W 5	R903	ORD2201G609	R,CARBON FILM 2.2K 1/4W 5
R654	ORD2702F609	R,CARBON FILM 27K 1/6W 5	R904	ORD3300G609	R,CARBON FILM 330 1/4W 5
R655(25")	ORD2002F609	R,CARBON FILM 20K 1/6W 5	R905	ORD4701G609	R,CARBON FILM 4.7K 1/4W 5
R655(29")	ORD3300H609	R,CARBON FILM 330 1/2W 5	R906	ORS5602K607	R,METAL FILM OXIDE 56K 2W 5%
R656	ORD4300F609	R,CARBON FILM 430 1/6W 5	R907	ORD1001H609	R,CARBON FILM 1.0K 1/2W 5
R657	ORD0221H609	R,CARBON FILM 2.2 1/2W 5	R909	ORD1500G609	R,CARBON FILM 150 1/4W 5
R658	ORD0221H609	R,CARBON FILM 2.2 1/2W 5	R912	ORD5600G609	RESISTOR,FIXED CARBON FILM 560 1/4W 5 TA52
R695	ORD2203F609	R,CARBON FILM 220K 1/6W 5	R913	ORD2201G609	R,CARBON FILM 2.2K 1/4W 5
R696	ORD2203F609	R,CARBON FILM 220K 1/6W 5	R914	ORD3300G609	R,CARBON FILM 330 1/4W 5
R697	ORD2203F609	R,CARBON FILM 220K 1/6W 5	R915	ORD4701G609	R,CARBON FILM 4.7K 1/4W 5
R698	ORD2203F609	R,CARBON FILM 220K 1/6W 5	R916	ORS5602K607	R,METAL FILM OXIDE 56K 2W 5%
R701	ORD1001H609	R,CARBON FILM 1.0K 1/2W 5	R917	ORD1001H609	R,CARBON FILM 1.0K 1/2W 5
R702(25")	ORD5101F609	R,CARBON FILM 5.1K 1/6W 5	R919	ORD1500G609	R,CARBON FILM 150 1/4W 5
R702(29")	ORD8201F609	R,CARBON FILM 8.2K 1/6W 5	R922	ORD5600G609	RESISTOR,FIXED CARBON FILM 560 1/4W 5 TA52
R703(25")	ORD3901F609	R,CARBON FILM 3.9K 1/6W 5	R923	ORD2201G609	R,CARBON FILM 2.2K 1/4W 5
R703(29")	ORD5101F609	R,CARBON FILM 5.1K 1/6W 5	R924	ORD3300G609	R,CARBON FILM 330 1/4W 5
R704	ORD5601F609	R,CARBON FILM 5.6K 1/6W 5	R925	ORD4701G609	R,CARBON FILM 4.7K 1/4W 5
R705	ORS2702J607	R,FIX METAL FILM OXIDE 27K 1W 5% TA62	R926	ORS5602K607	R,METAL FILM OXIDE 56K 2W 5%
Δ R706	ORD1201H609	R,CARBON FILM 1.2K 1/2W 5	R927	ORD1001H609	R,CARBON FILM 1.0K 1/2W 5
R707	ORD2701H609	R,CARBON FILM 2.7K 1/2W 5	R929	ORD1500G609	R,CARBON FILM 150 1/4W 5
R708	ORD2203H609	R,CARBON FILM 220K 1/2W 5	R931	ORD102H609	R,CARBON FILM 10 1/2W 5
R710	ORS3901J607	RESISTOR,FIX METAL FILM OXIDE 3.90K 1W 5% TA62	R933	ORD1002G609	R,CARBON FILM 10K 1/4W 5
R711	ORD4701H609	R,CARBON FILM 4.7K 1/2W 5	R939	ORD1002G609	R,CARBON FILM 10K 1/4W 5
R801	180-822M	R,RWR 15W 1.0 OHM J	R940	ORD2203H609	R,CARBON FILM 220K 1/2W 5
R803	180-783D	RESISTOR RC 1/2W 474 K TAPING	R941	ORD2204H609	RESISTOR,FIXED CARBON FILM 2.2M 1/2W 5 TA52
R804	ORD1000H609	R,CARBON FILM 100 1/2W 5	TH801	163-051A	THERMISTOR J5 03 P5 3D 140M 290S
R805	ORS2202K607	R,METAL FILM OXIDE 22K 2W 5%	VR181	180-F01J	RESISTOR EVN-DJAA03 B203 SEMI-FIX(H) TA
R806	ORS2202K607	R,METAL FILM OXIDE 22K 2W 5%	ZNR801	164-003D	VARISTOR SVC 561D-14A
Δ R807	180-A01D	RESISTOR RW ROUND G 2W 0.16 J TA31(63)	ICs		
R808	ORS0202K607	R,METAL FILM OXIDE 20 2W 5%	IC101	OIT1843417B	IC,TEXAS INSTRUMENT LG8434-17B(TMS73C167-XXX) 54SD
R809	ORN0910H609	R,METAL FILM 0.911/2W 5	IC102	OINS240800A	IC,NATIONAL SEMICONDUCTOR NM24C08N 8D EEPROM(8K,IC)
R810	ORS0152K607	R,METAL FILM OXIDE 15 2W 5%	IC103	OIKE704200B	IC,KEC KIA7042P 3P 4.2V RESET(TAPING)
R811	ORD2002H609	R,CARBON FILM 20K 1/2W 5	IC104	OIKE780500K	IC,KEC KIA7805P1 3P(TO-220IS) 5V,1A
R812	ORD6801H609	R,CARBON FILM 6.8K 1/2W 5	IC182	OIKE780500P	IC,KEC KIA78L05BP(TA)3P 5V,150MA
R813	ORD2001F609	R,CARBON FILM 2.0K 1/6W 5	IC201	OIPH980800A	IC,PHILIPS TDA9808-V120D SPLIT PLL VIF
R814	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5	IC202	OIGS382000A	IC,GOLDSTAR ELECTRON GL3820(A/V SWITCHING)
R815	ORN0910H609	R,METAL FILM 0.911/2W 5	IC204	OIGS381200A	IC,GOLDSTAR ELECTRON GL3812(HA11518)
R816	ORD1001F609	R,CARBON FILM 1.0K 1/6W 5	IC351	OIPH835030A	IC,PHILIPS TDA8350Q/N3 13SP V/DEF+E/W
R817	ORD4701F609	R,CARBON FILM 4.7K 1/6W 5	IC502	OIPH468710A	IC,PHILIPS TDA4687/V128D VIDEO PROCESSOR
R818	ORD4701F609	R,CARBON FILM 4.7K 1/6W 5	IC504	OIPH466120A	IC,PHILIPS TDA4661/V2 16D 1H DELAY LINE
R819	ORS0472J607	R,METAL FILM OXIDE 47 1W 5%	IC505	OIPH916030A	IC,PHILIPS TDA9160A/N3 32SD P/N/S DECODER
R820	ORD1001H609	R,CARBON FILM 1.0K 1/2W 5	IC6001	OIKE781200F	IC,KEC KIA78L12BP(TA) TO-92L 12V,50
R821	ORD4701F609	R,CARBON FILM 4.7K 1/6W 5	IC601	OIIIT341000B	IC,ITT MSP3410 64SD AUDIO PROCE+NICAM
R822	ORD1002F609	R,CARBON FILM 10K 1/6W 5	IC602	OIKE704200B	IC,KEC KIA7042P 3P 4.2V RESET(TAPING)
R823	ORD4701F609	R,CARBON FILM 4.7K 1/6W 5	IC603	OIKE780500K	IC,KEC KIA7805P1 3P(TO-220IS) 5V,1A
R825	ORD1002H609	R,CARBON FILM 10K 1/2W 5	IC651	OIT0820000A	IC, TOSHIBA TA8200AH 10W*2 PR T/B
R827	ORD2001F609	R,CARBON FILM 2.0K 1/6W 5	Δ IC801	DS3277800A	IC,SANKEN STR780709.95V/100mA
R828	ORD7501F609	R,CARBON FILM 7.5K 1/6W 5	Δ IC802	OIT072100B	IC,TOSHIBA TLP721D4-GR/4P PHOTOSEMIKOD
R830	ORD1502H609	R,CARBON FILM 15K 1/2W 5	Δ IC803	DS3CT251400A	IC,SANKEN SE125MLF2/125V ERROR AMP
R832	ORD1801F609	R,CARBON FILM 1.8K 1/6W 5	IC805	OIKE780800A	IC,KEC KIA7808P1 3P(TO-220IS) 1A,8V
Δ R851	180-C01C	RESISTOR RC 1/2W 8.2MK TA52	IC806	OISH122100A	IC,SHARP PQ12RF214P(TO-220) 12V S/W RE
R902	ORD5600G609	RESISTOR,FIXED CARBON FILM 560 1/4W 5 TA52			

The components identified by shading and
mark Δ are critical for safety.
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTION	
IC901	0ISG510100A	IC,SGS-THOMSON	TEA5101A 15MULTIWATT VIDEO AMP

COILS & TRANSFORMERS

J101	OLA0102K119	INDUCTOR	10UH K
L101	OLA0561K119	INDUCTOR	5.6UH K
L102	OLA0392K119	INDUCTOR	39UH K
L103	OLA0102K119	INDUCTOR	10UH K
L181	OLA0561K119	INDUCTOR	5.6UH K
L182	150-C01D	COIL CHOKE	0.55UH A 1105
L185	OLA1000K119	INDUCTOR	100UH K
L186	OLA1000K119	INDUCTOR	100UH K
L187	OLA0102K119	INDUCTOR	10UH K
L201	OLA0821K119	INDUCTOR	8.2UH K
L202	OLA0102K119	INDUCTOR	10UH K
L203	OLA0222K119	INDUCTOR	22UH K
L204	OLA0561K119	INDUCTOR	5.6UH K
L263(29")	OLA0182K119	INDUCTOR	18UH K
L351	150-717J	COIL CHOKE	560UH (E/W)
L453(25")	150-L01E	COIL H-LINEARITY	21UH
L453(29")	150-L01D	COIL H-LINEARITY	20UH
L501	OLA0102K119	INDUCTOR	10UH K
L502	OLA0102K119	INDUCTOR	10UH K
L6001	OLA0102K119	INDUCTOR	10UH K
L601	OLA0562K119	INDUCTOR	56UH K
L604	OLA0102K119	INDUCTOR	10UH K
L605	OLA0101K119	INDUCTOR	1.0UH K
L610	OLA0102K119	INDUCTOR	10UH K
L684	OLA0102K119	INDUCTOR	10UH K
L685	OLA0102K119	INDUCTOR	10UH K
L800	150-C02F	COIL CHOKE	82UH R1217
L801	150-C03A	COIL CHOKE	1.04UH R3.5/05
L802	150-C02F	COIL CHOKE	82UH R1217
L901	OLA0102K139	INDUCTOR	10UH K
Δ RL801	141-0138	RELAY	HR-CR323DC12V(HANGUK)
Δ TA514	151-028	TRANSFORMER	H-DRIVE E/F-S,BULK
Δ T801	150-982P	COIL	LINE FILTER 23MH SOE
Δ T802	150-982C	COIL	LINE FILTER 23MH SOE
Δ T803	151-401N	TRANSFORMER	SMPs COIL EEP5345-STB-S6709 W
VL181	150-E05B	COIL	VAR,07S 18 77.8MHZ

JACKS & CONNECTORS

PJ601	380-392A	JACK	A/V IN-OUT(6P)
P257(25")	380-068A	JACK	HEADPHONE,HSJ0914-01-110
P258(25")	380-394A	JACK	DIN(SW LESS) PJ6030
P267(29")	380-068A	JACK	HEADPHONE,HSJ0914-01-110
P268(29")	380-394A	JACK	DIN(SW LESS) PJ6030
P269(29")	380-395A	JACK	PHONE 3P PJ6036 HORIZONTAL
P270(29")	380-395A	JACK	PHONE 3P PJ6036 HORIZONTAL
P271(29")	380-395A	JACK	PHONE 3P PJ6036 HORIZONTAL
P803A	387-812F	CONNECTOR ASSY	YJN250 7P(PCB TO PCB, YEONHO)
P804A	387-812J	CONNECTOR ASSY	YJN250 10P(PCB TO PCB YEONHO)
P805A	387-812F	CONNECTOR ASSY	YJN250 7P(PCB TO PCB, YEONHO)

LOCA. NO	PART NO	DESCRIPTION	
TRANSISTORS			

Q101	OTR319809AB	TRANSISTOR	KTC3198-TP-GR (KTC1815) KEC
Q102	OTR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC
Q103	OTR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC
Q104	OTR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC
Q105	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q106	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q107	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q108	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q109	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q110	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q111	OTR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC
Q112	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q113	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q114	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q181	OTR114009AA	TRANSISTOR	DTA114ES,TP,ROHM
Q182	OTR114009AA	TRANSISTOR	DTA114ES,TP,ROHM
Q183	OTR114009AA	TRANSISTOR	DTA114ES,TP,ROHM
Q202	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q203	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q251	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q351	OTR988000AC	TRANSISTOR	KTB988-Y,W/A(KTB834),KEC
Q451	OTR322900AA	TRANSISTOR	KTC3229 (KTC2068),KEC
Q452	OTR487120AA	TRANSISTOR	ON4871(BU2508DF) PHILIPS
Q502	OTR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC
Q504	OTR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC
Q505	OTR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC
Q506	OTR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC
Q507	OTR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC
Q508	OTR102009AB	TRANSISTOR	KRC102M,TP(KRC1202),KEC
Q6001	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q6002	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q801	OTR385200AA	TRANSISTOR	2SC3852A SANKEN
Q802	OTR968000AA	TRANSISTOR	KTA968A-Y KEC
Q803	OTR322809AA	TRANSISTOR	KTC3228-0 TP(KTC2383),KEC
Q804	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q805	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q806	OTR322709AA	TRANSISTOR	KTC3227-Y,TP(KTC1627A),KEC
Q931	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q933	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC

SWITCHES			
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SW101(25")	140-248D	SWITCH	TACT S/W 2PSKHHNJ
SW102(25")	140-248D	SWITCH	TACT S/W 2PSKHHNJ
SW103(25")	140-248D	SWITCH	TACT S/W 2PSKHHNJ
SW104(25")	140-248D	SWITCH	TACT S/W 2PSKHHNJ
SW105(25")	140-248D	SWITCH	TACT S/W 2PSKHHNJ
SW106(25")	140-248D	SWITCH	TACT S/W 2PSKHHNJ
SW02(29")	140-248D	SWITCH	TACT S/W 2PSKHHNJ
SW03(29")	140-248D	SWITCH	TACT S/W 2PSKHHNJ
SW04(29")	140-248D	SWITCH	TACT S/W 2PSKHHNJ

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTION	
SW05(29")	140-248D	SWITCH	TAUT S/W 2PSKHHNJ
SW06(29")	140-248D	SWITCH	TAUT S/W 2PSKHHNJ
SW07(29")	140-248D	SWITCH	TAUT S/W 2PSKHHNJ
Δ SW801	140-289B	SWITCH	SODF-3BU-ALPS) TV-8

FILTERS & OSCILLATORS

X101	156-007C	OSCILLATOR	OSC.X-TAL 6.0MHZ
X501	156-A05B	CRYSTAL	4.433619 SER.00262 TP PHILIPS
X502	156-001C	OSCILLATOR	CRYSTAL 3.58MHZ
X601	156-A02M	CRYSTAL	18.432000 10PF 20 OHM BULK
Z181	166-A01E	FILTER	OFWK6266K
Z182	166-A01K	FILTER	OFWK9352M
Z201	166-C04B	FILTER	TRAP TPWA03B-TF21(5.5/6.0)
Z203	166-C02B	FILTER	TRAP TPS4.5MB-TF21

TELETEXT PARTS

C1	OCN1030F679	C,TUBULA(HIGH DIELE)	0.01MF 16V M
C11	OCE107DF618	C,ELECTROLYTIC	100UF STD 16V M FL TP5
C12	OCK1020K515	C,CERAMIC(HIGH DIELE)	1000PF 500V K
C13	OCE104DK618	CAPACITOR,ELECTROLYTIC	0.1000UF STD 50V M FL TP5
C14	OCN1040K949	C,TUBULA(HIGH DIELE)	0.1M 50V Z
C15	OCK1020K515	C,CERAMIC(HIGH DIELE)	1000PF 500V K
C16	OCE476DF618	C,ELECTROLYTIC	47UF STD 16V M FL TP5
C17	OCN1030F679	C,TUBULA(HIGH DIELE)	0.01MF 16V M
C18	OCN1030F679	C,TUBULA(HIGH DIELE)	0.01MF 16V M
C19	OCE476DF618	C,ELECTROLYTIC	47UF STD 16V M FL TP5
C2	OCN2210K519	C,TUBULA(HIGH DIELE)	220PF 50V K
C3	OCX1500K409	C,TUBULA(T.C)	15PF 50V J
C30	OCX4700K409	C,TUBULA(T.C)	47PF 50V J
C4	OCX1500K409	C,TUBULA(T.C)	15PF 50V J
C5	OCN2210K519	C,TUBULA(HIGH DIELE)	220PF 50V K
C6	OCE476DF618	C,ELECTROLYTIC	47UF STD 16V M FL TP5
C7	OCE107DF618	C,ELECTROLYTIC	100UF STD 16V M FL TP5
C8	OCN1020K519	C,TUBULA(HIGH DIELE)	1000PF 50V K
C9	OCN1030F679	C,TUBULA(HIGH DIELE)	0.01MF 16V M
D10	ODD414809ED	DIODE	DS4148
D104	ODD414809ED	DIODE	DS4148
D105	ODD414809ED	DIODE	DS4148
D2	ODD414809ED	DIODE	DS4148
D6	ODD414809ED	DIODE	DS4148
D7	ODD414809ED	DIODE	DS4148
D707	ODD400509AA	DIODE	1N4005 GP
D8	ODD414809ED	DIODE	DS4148
D9	ODD414809ED	DIODE	DS4148
IC1	OIT1723060A	IC,TEXAS INSTRUMENT	CF72306 20D TXT DATA SLICER
IC2	OIT1702090A	IC,TEXAS INSTRUMENT	CF702090A 28D 8P-EURO TXT DECO
	OIT1702000A	IC,TEXAS INSTRUMENT	CF70200NW 28D 89-EURO
IC3	OIKE780500K	IC,KEC	KIA7805PI 3P(TO-220IS) 5V,1A
L1	OLA0102K119	INDUCTOR	10UH K
L2	OLA0102K119	INDUCTOR	10UH K
L3	125-022K	CORE	FERRITE 1UH
L4	OLA0102K119	INDUCTOR	10UH K

LOCA. NO	PART NO	DESCRIPTION	
Q1	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q2	OTR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815) KEC
Q3	OTR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC
R1	ORD7501F609	R,CARBON FILM	7.5K 1/6W 5
R10	ORD0681F609	RESISTOR,FIXED CARBON FILM	6.8 1/6W 5 TA52
R11	ORD1000F609	R,CARBON FILM	100 1/6W 5
R12	ORD1001F609	R,CARBON FILM	1.0K 1/6W 5
R120	ORD4701F609	R,CARBON FILM	4.7K 1/6W 5
R13	ORD1503F609	R,CARBON FILM	150K 1/6W 5
R14	ORD1002F609	R,CARBON FILM	10K 1/6W 5
R15	ORD2200F609	R,CARBON FILM	220 1/6W 5
R151	ORD1000F609	R,CARBON FILM	100 1/6W 5
R159	ORD4701F609	R,CARBON FILM	4.7K 1/6W 5
R16	ORD1001F609	R,CARBON FILM	1.0K 1/6W 5
R160	ORD1000F609	R,CARBON FILM	100 1/6W 5
R18	ORD1001F609	R,CARBON FILM	1.0K 1/6W 5
R2	ORD1001F609	R,CARBON FILM	1.0K 1/6W 5
R20	ORD1001F609	R,CARBON FILM	100 1/6W 5
R21	ORD3600F609	R,CARBON FILM	360 1/6W 5
R22	ORD3600F609	R,CARBON FILM	360 1/6W 5
R23	ORD3600F609	R,CARBON FILM	360 1/6W 5
R26	ORN1202F409	R,METAL FILM	12K 1/6W 1%
R29	ORD0752F609	R,CARBON FILM	75 1/6W 5
R3	ORD1000F609	R,CARBON FILM	100 1/6W 5
R30	ORD0822F609	R,CARBON FILM	82 1/6W 5
R547	ORD0682F609	R,CARBON FILM	6.8M 1/6W 5
R548	ORD0102F609	R,CARBON FILM	10 OHM 1/6W 5
R553	ORD6804F609	R,CARBON FILM	6.8M 1/6W 5
R6	ORD6801F609	R,CARBON FILM	6.8K 1/6W 5
R7	ORD1000F609	R,CARBON FILM	100 1/6W 5
R8	ORD1000F609	R,CARBON FILM	100 1/6W 5
R9	ORD1000F609	R,CARBON FILM	100 1/6W 5

EXPLODED VIEW PARTS

100(25")	300-A94U	CABINET ASSY	CF-25C26 FPGRW
(25")	300-A94V	CABINET ASSY	CF-25C26X UPGRJ2
(29")	300-B80R	CABINET ASSY	CF-29C26F RPPRF
(29")	300-B80S	CABINET ASSY	SCF29C26X TPGRB2
(29")	300-B40J	CABINET ASSY	SCF28C26X UPGRZ7
100-01	1PTF0403016	SCREW,TRUSS HEAD	D4 L14
100-02	120-C76A	SPEAKER	TWEETER C050D06H0151
100-03	120-C77F	SPEAKER	80HM 5W
100-04(25")	314-299B	GRILL	SPEAKER(CB-25C20X)
(28")	314-325A	GRILL	SPEAKER(CB-28C22X)
(29")	314-289B	GRILL	SPEAKER(CB-29C20X)
100-05	313-244A	PANEL	CONTROL(CB-29C20)
100-06(25")	316-425A	WINDOW	LED(CB-25C20)
(25")	316-402A	WINDOW	PRE-AMP(CB-25C20X UPGRZ3)
(29")	316-403A	WINDOW	PRE-AMP(CB-29C20)
100-07(25")	315-607J	DOOR	ASSY,CONTROL(CF-25C26J)
(28")	315-613F	DOOR	CONTROL(MC-51B)CF-28C26X
(29")	315-575P	DOOR	CONTROL(MC-51B)
100-08(25")	441-363A	BUTTON	POWER (CB-25C20)

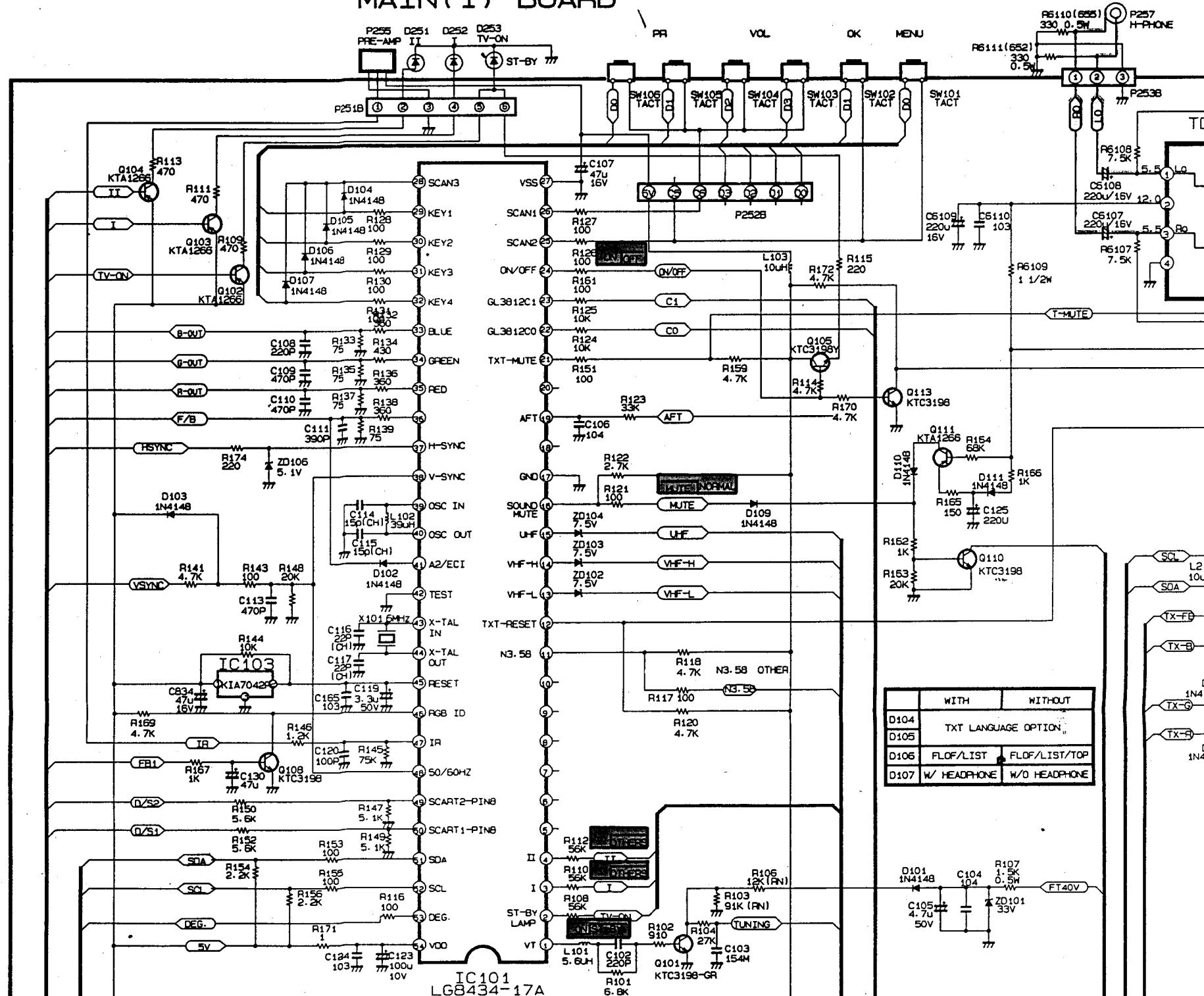
The components identified by shading and mark **△** are critical for safety.
Replace only with part number specified.

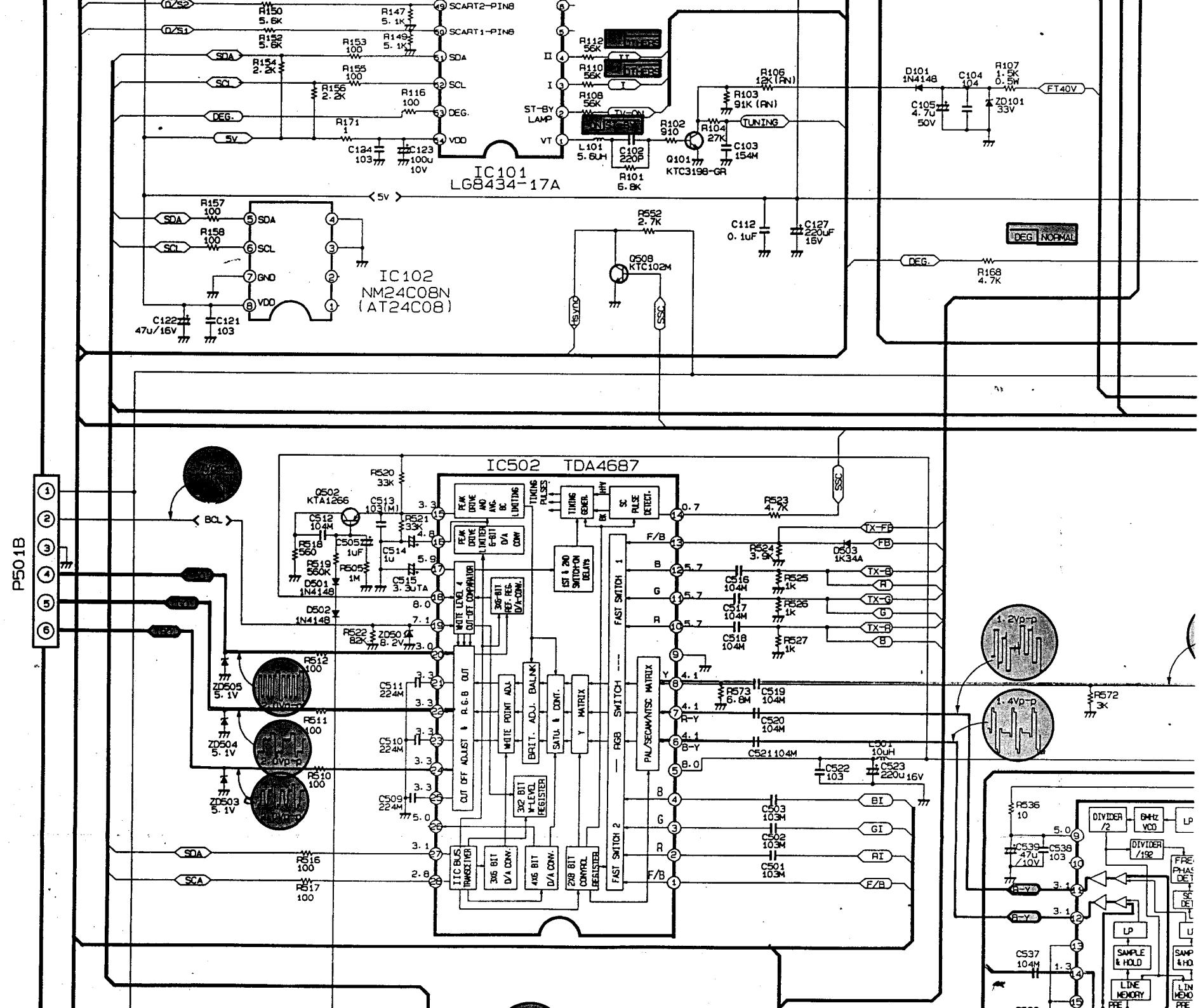
LOCA. NO	PART NO	DESCRIPTION		LOCA. NO	PART NO	DESCRIPTION	
(29")	441-330A	BUTTON	POWER (CB-29C20)	300-27	380-392A	JACK	A/V IN-OUT(6P)
100-09(25")	320-062F	SPRING	KNOB	300-28	381-091A	SOCKET	SCART JACK 21PIN
(29")	320-062J	SPRING	KNOB	300-29	113-238F	TUNER	TUKG4-D07P(38.0MHZ HYPER)
△ 200(25")	2055-V101N	CPT	A59KYL220X 01K7ND	300-30(25")	312-384A	FRAME	MAIN CHASSIS (NC-35A/PC-33A)
△ (25")	2055-01011L	CPT	A59KYL220X 01N7ND(LUKAS)	(29")	312-374A	FRAME	MAIN CHASSIS (PC-33A,MC-25A,NC-35A)
△ (28")	112-D28B	CPT	A66EAK71X01(LUKAS)	300-31(25")	109-624K	PCB ASSY	MAIN151B CF25C26T M-IN
△ (29")	112-D29D	CPT	A68AGA25X201(+0.24G,RCA)	(25")	109-872E	PCB ASSY	MAIN151B (A2/2S,TX,W/O N) LUKAS
△ (29")	112-D29E	CPT	A68AGA25X401(-0.12G,RCA)	(25")	109-B05D	PCB ASSY	MAIN151B (FOR STORMA)
△ (29")	112-D29F	CPT	A68AGA25X501(-0.50G,RCA)	(25")	109-624P	PCB ASSY	MAIN151B (FOR LGEMK)
200-02	341-919A	HOLDER	D-COIL	(29")	109-624B	PCB ASSY	MAIN151B (W/O CTI) M-IN
	341-721B	HOLDER	D-COIL	(29")	109-624N	PCB ASSY	MAIN151B (CATV,T) M-IN
200-03(25")	332-237A	SCREW	CPT FIX	(28")	109-871F	PCB ASSY	MAIN151B (A2,2S) LUKAS
(29")	332-229G	SCREW	HEXAGON HEAD(L=40,D:22)	(29")	109-624J	PCB ASSY	MAIN151B (W/O TXT,CTI) M-IN
△ 200-04(25")	170-844B	LEAD SET	CPT EARTH 25"	300-32	381-226D	SOCKET	CPT PCS628-01S/LESS BULK(N05)
△ (29")	170-586Y	LEAD SET	CPT EARTH 29"	300-33(25")	110-Y22C	PCB ASSY	CPT PC33A 25"(GS CPT)
△ (29")	170-797G	LEAD SET	CPT EARTH 28"	(25")	110-Y22G	PCB ASSY	CPT 51B 25" M-IN,LUKAS
△ 200-05(25")	150-D05N	COIL	DEGAUSSING,CU 25" 70T 150HM	(29")	110-Y22A	PCB ASSY	CPT PC33J 29" M-IN
△ (29")	150-D05D	COIL	DEGAUSSING,CU 29" 60T 8.70HM	(28")	110-Y22W	PCB ASSY	CPT 51B 28"/29" M-IN LUKAS
△ 200-06(25")	153-144L	DY	DCAW1-25SLBA	300-34	OISG510100A	IC,SGS-THOMSON	TEA5101A 15MULTIWATT VIDEO AMP
300-01	341-752A	HOLDER	LED (3P)	400(25")	303-G90Q	COVER	ASSY,BACK(CF-25C26F,737A)
300-02	106-047B	PRE-AMP	SBX1620-72(SONY)	(25")	303-G90N	COVER	ASSY,BACK(CF-25C26X,UPGR7)
300-03	380-068A	JACK	HEADPHONE,HSJ0914-01-110	(29")	303-J49G	COVER	ASSY,BACK(CF-29C26F,51B)
300-04	380-394A	JACK	DINSW LESS) PJ6030	(28,29")	303-J49H	COVER	ASSY,BACK(SCF29C26X,51B)
300-05	380-395A	JACK	PHONE 3P PJ6036	(29")	303-J49K	COVER	ASSY,BACK(MC-51B,412-855A)
300-06(29")	109-628B	PCB ASSY	CONTROL(FOR C26)MC-51B M-IN	(29")	303-J49N	COVER	ASSY,BACK(MC-51B,412-892A)
300-07(25")	351-012A	LINK	POWER S/W	(29")	303-J49L	COVER	ASSY,BACK(MC-51B,CF-29C26,51B,GS)
(29")	351-008A	LINK	POWER S/W	400-01	1PPF0403116	SCREW,PAN HEAD TAP TITE + D4 L16 MSWR3/BK	
△ 300-08	140-289B	SWITCH	SDDF-3B(J-ALPS) TV-8	500	105-224F	TRANSMITTER	ASSY(PC45A,G/S)
300-09(25")	109-626B	PCB ASSY	MAIN2 51B 25" W/CNTL (M-IN)	105-104F	TRANSMITTER	PC-33J 2ND TX	
(25")	109-873E	PCB ASSY	MAIN2 51B 25" C26X M-IN,LUKAS	500-01	303-H73A	COVER	BATTERY (105-212)
(29")	109-626C	PCB ASSY	MAIN2 51B 29" C26 M-IN	303-E82A	COVER	(T-34,2ND TX)	
(28")	109-873F	PCB ASSY	MAIN2 51B 28" C26 M-IN,LUKAS				
△ 300-10	174-225F	CORD	ASSY POWER PC-33J (UK)				
△	174-199T	CORD	ASSY POWER(L=300)242F				
△	174-009V	CORD	POWER				
△	174-222D	CORD	ASSY POWER				
300-11	0IKE780800A	IC,KEC	KIA7808PI 3P(TO-220IS) 1A,8V				
300-12	0ISH122100A	IC,SHARP	PQ12RF214P(TO-220) 12V S/W RE				
300-13	ODD420000BB	DIODE	D4L20U				
300-14	ODD560000AA	DIODE	D5SB60 BRIDGE (5A/600V)S.D.G				
300-15	0ISK670900A	IC,SANKEN	STR/S6709 9S SMPS-CNTR				
△ 300-16	154-374A	FBT	KFS-61164(DUGO) 25MULTI TOP				
300-17	1PTF0403016	SCREW,TRUSS HEAD	D4 L14				
300-18	343-B06A	SUPPORTER	FBT(TOP LOADING,PC-33A)				
300-19	0TR988000AC	TRANSISTOR	KTB988-Y,W/A(KTB834),KEC				
300-20	0TR487120AA	TRANSISTOR	ON4871(BU2508DF) PHILIPS				
300-21	0IPH835030A	IC,PHILIPS	TDA8350Q/N3 13SIP V/DEF+E/W				
300-22	320-174A	SPRING	KNOB(CF-29C32)				
300-23	0IT0820000A	IC, TOSHIBA	TA8200AH 10W*2 PR T/B				
300-25	401-721C	BOARD	A/V (CF-29C20T)				
TRANSMITTER PARTS							
		0IGS848905A	IC, GOLDSTAR ELECTRON	GS8489-05A(GMS30140-R015) 24S0			
		303-H73A	COVER	BATTERY (105-212)			
MISCELLANEOUS							
		120-D23A	SPEAKER	CB29C20X			
		120-D23M	SPEAKER	ASSY,CF-29C44 2P			
		174-003H	CORD	POWER			
		174-224A	CORD	POWER FOR UK			
		305-002D	HOUSING	2P AMP 171157-1(10)			
		316-402A	WINDOW	PREAMP			
		320-174A	SPRING	FOR NC-39A CHASSIS			
		327-062K	SEAT	RUBBER(IFOR FRAME FIX)			
		341-184D	HOLDER	LEAD TWISTER			
		341-242F	HOLDER	POWER CORD			
		341-685A	HOLDER	D-COIL SPRING TYPE			
		341-869A	HOLDER	ANODE RING,SONY			
		387-A11L	CONNECTOR ASSY	2P(700MM)			

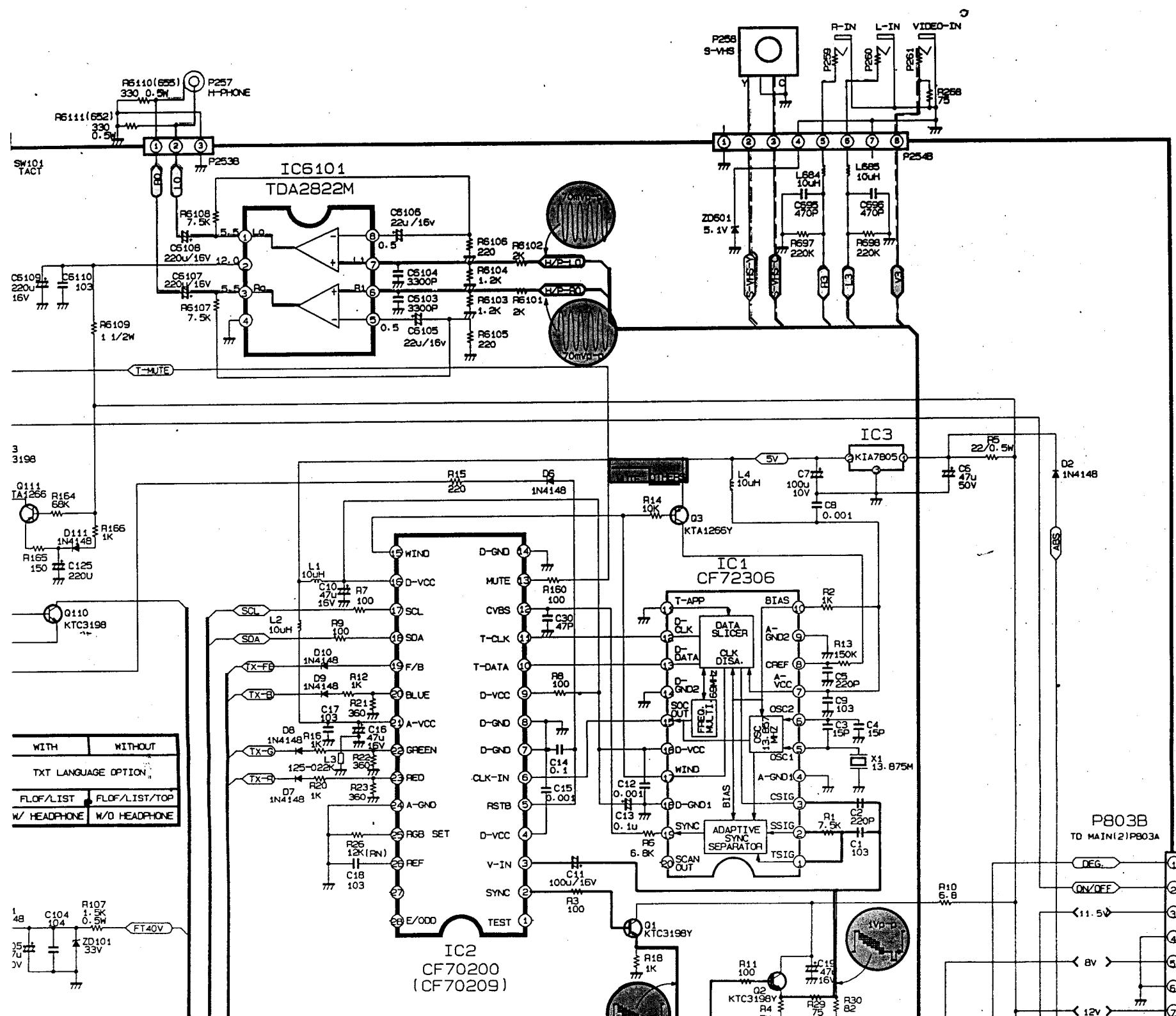
The components identified by shading and
mark Δ are critical for safety.
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTION
	387-A12L	CONNECTOR ASSY 3P (700 M/M)
	407-Q36C	PLATE CONTROL DECO(MC51B,CF-25C26)
	410-585A	MARK BRAND GS(FORGING,25"-29")
	430-861A	METAL CPT FIXING
	450-018C	ADAPTER ANT.(300 TO 75) PAL
	470-861A	LOCK ASSY,DOOR KIFCO
	482-H39C	INSTRUCTIONS(OWNER'S MANUAL) MC51B,GS,C/E,224F TX
	484-99A	DIAGRAM CIRCUIT MC51B
PA101	106-047B	PRE-AMP SBX1620-72(SONY)
SK101	381-091A	SOCKET SCART JACK 21PIN
SK901	381-226D	SOCKET CPT PCS628-01S/LESS BULK(NOS)
TU181	113-238F	TUNER TUKG4-D07P(38.0MHZ HYPER)
	113-238D	TUNER TUKE1C07BP(38.0MHZ)
Δ T701	154-374A	FBT KFS-61164(DUGO) 25MULTI TOP

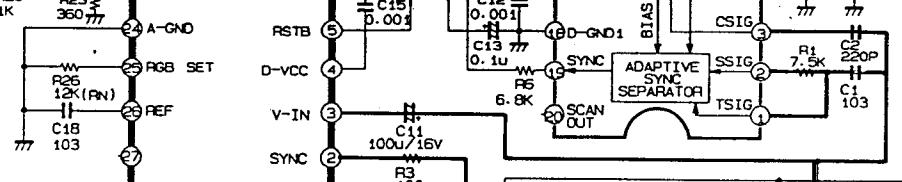
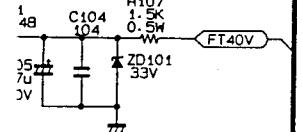
MAIN(1) BOARD



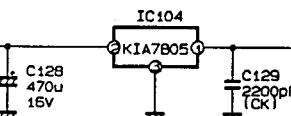




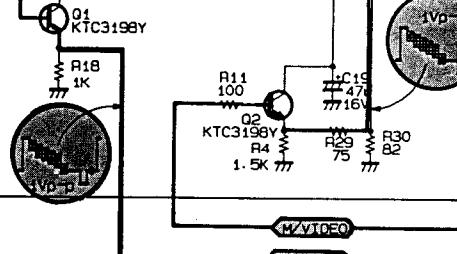
FLOF/LIST FLOF/LIST/TOP
W/ HEADPHONE W/O HEADPHONE



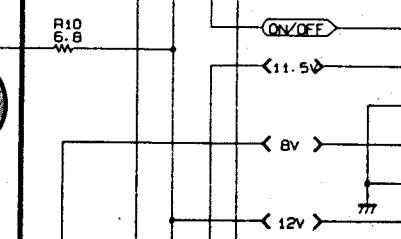
IC2
CF70200
(CF70209)



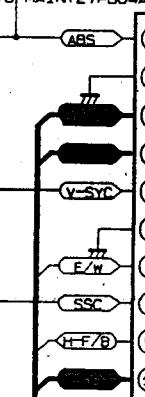
KIA7805



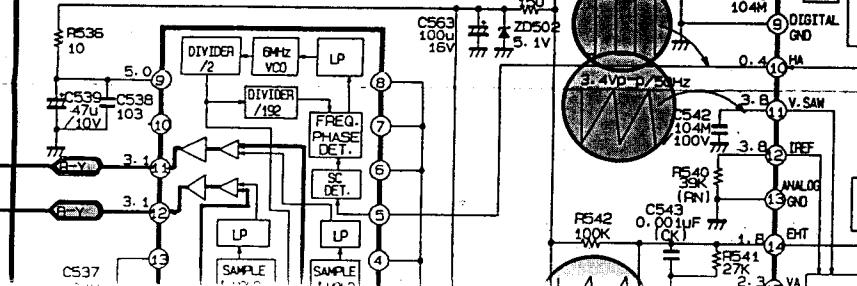
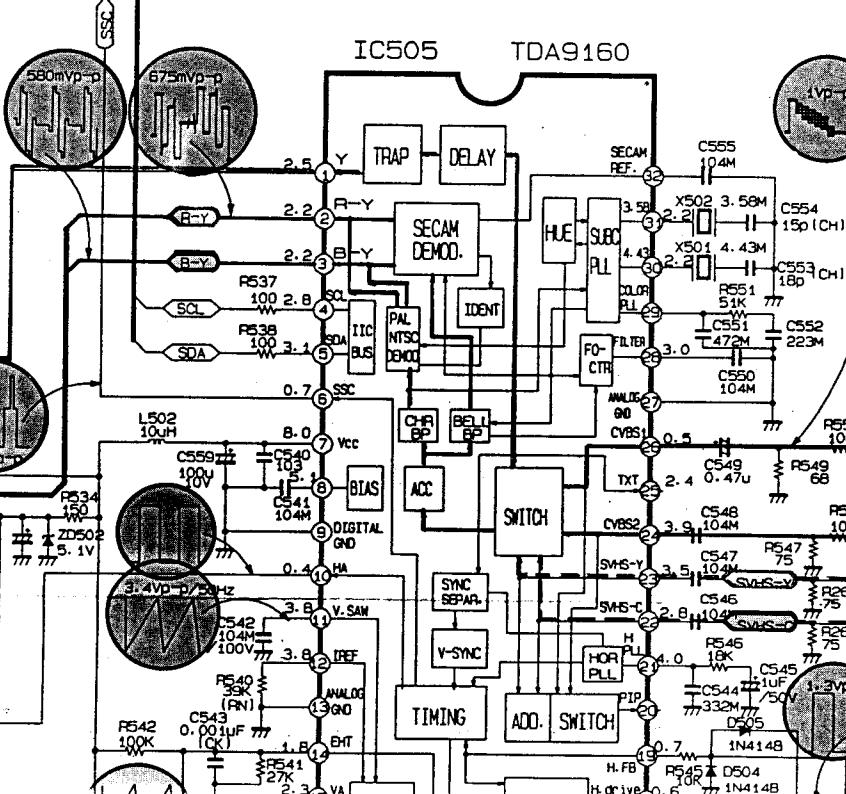
P803B
TO MAIN(2)P803A

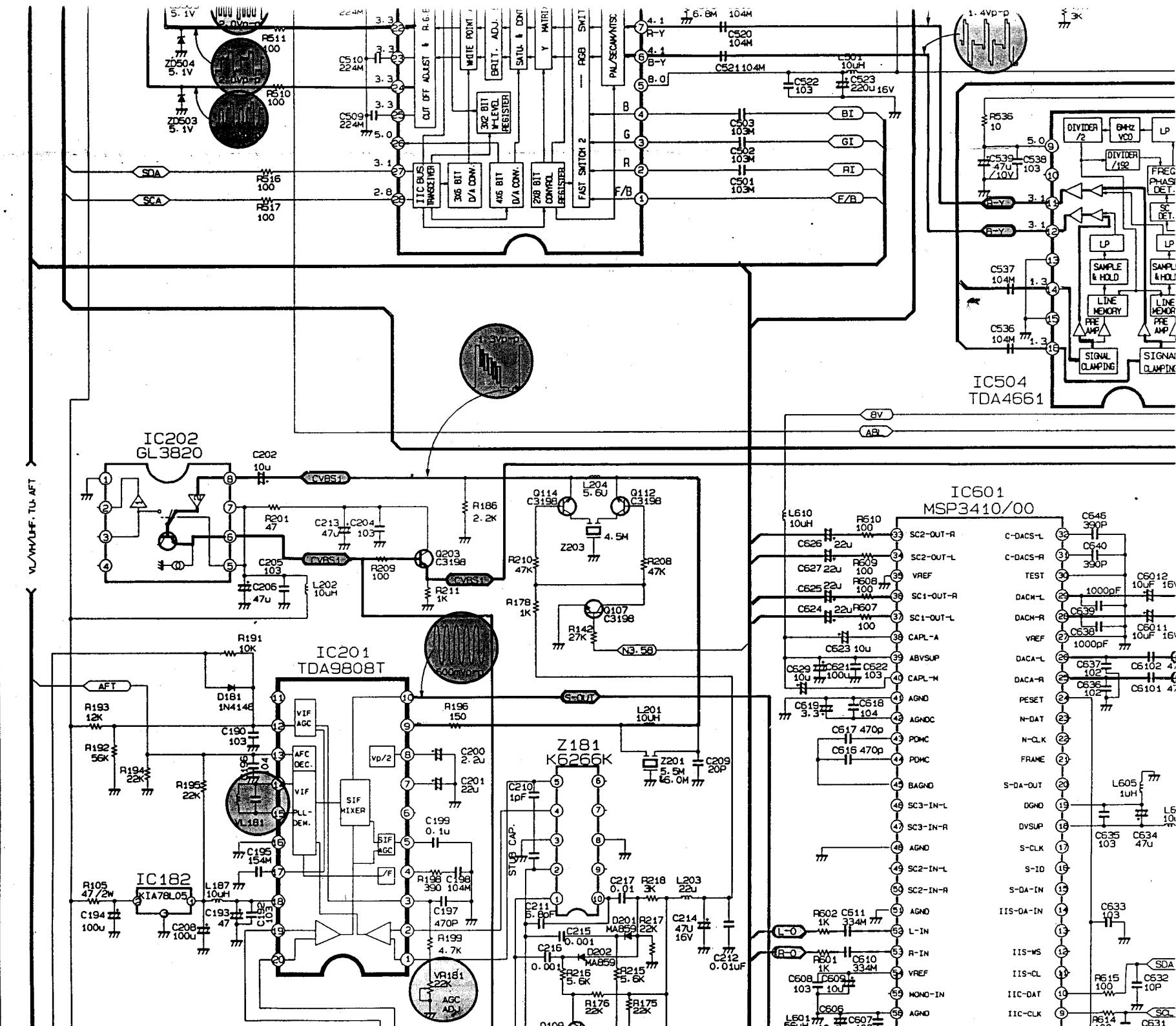


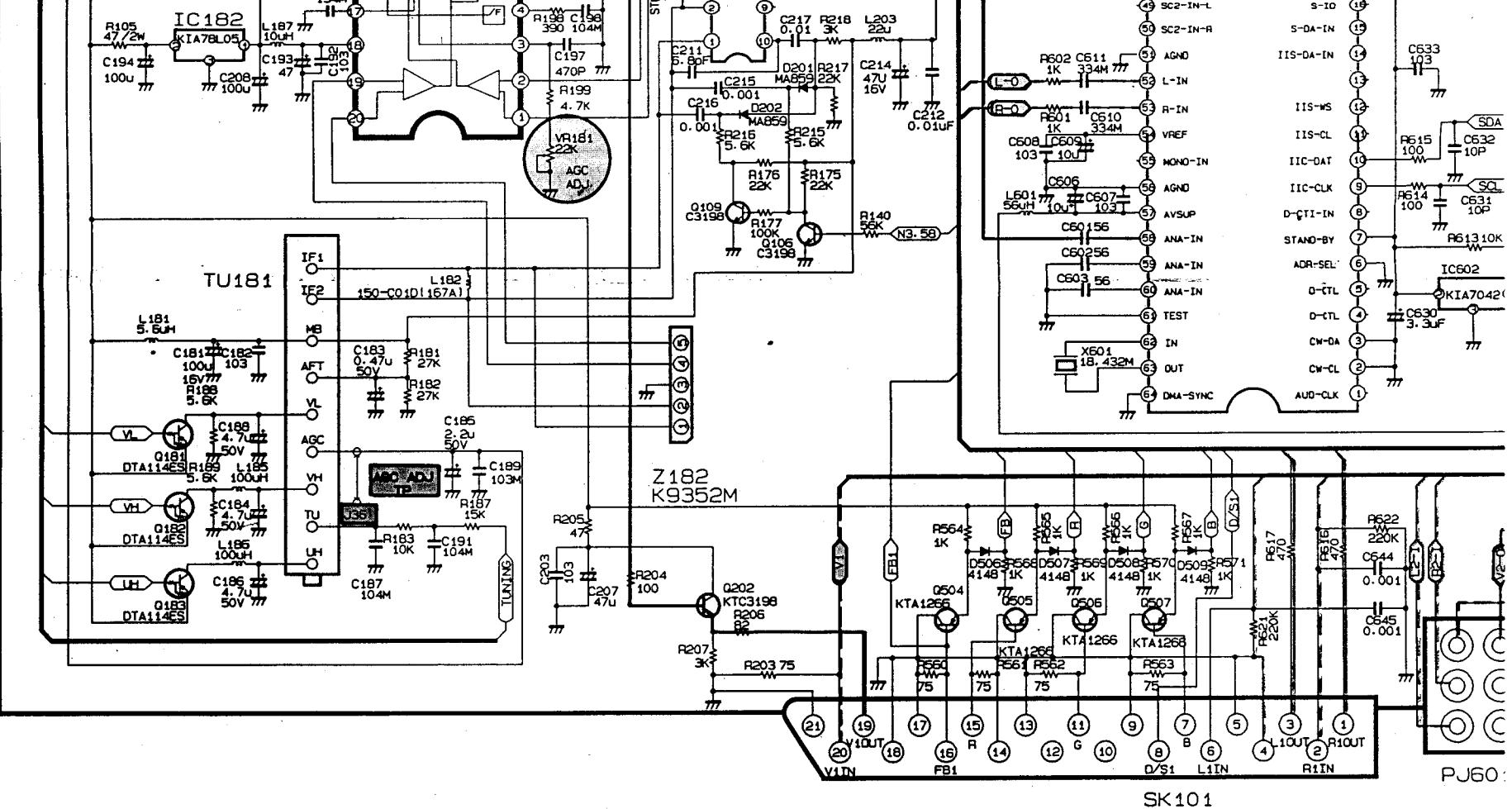
P804B
TO MAIN(2)P804A



IC505 TDA9160







SK 101

ADJUSTMENT

WAVEFORM

SOUND, SIF

EXT. SOUND

CHROMA

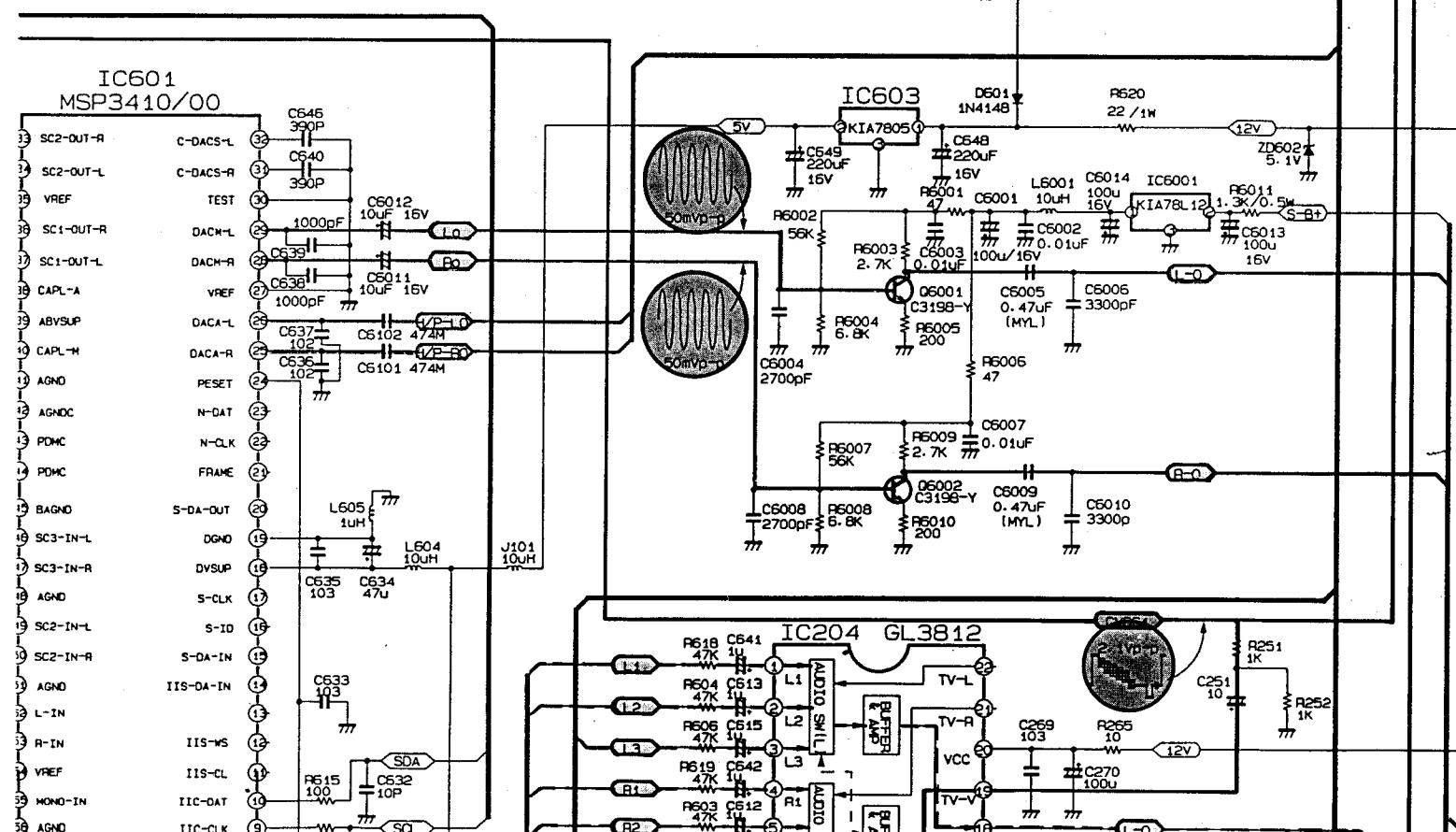
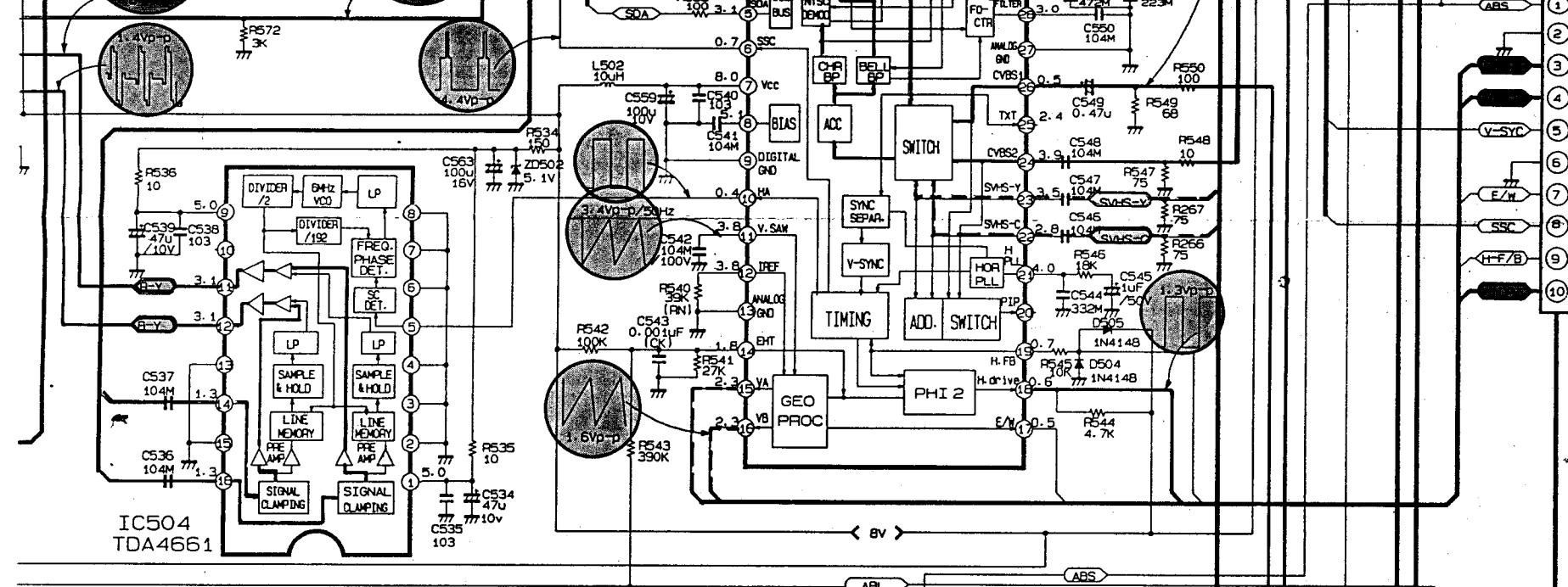
EXT. CHROMA

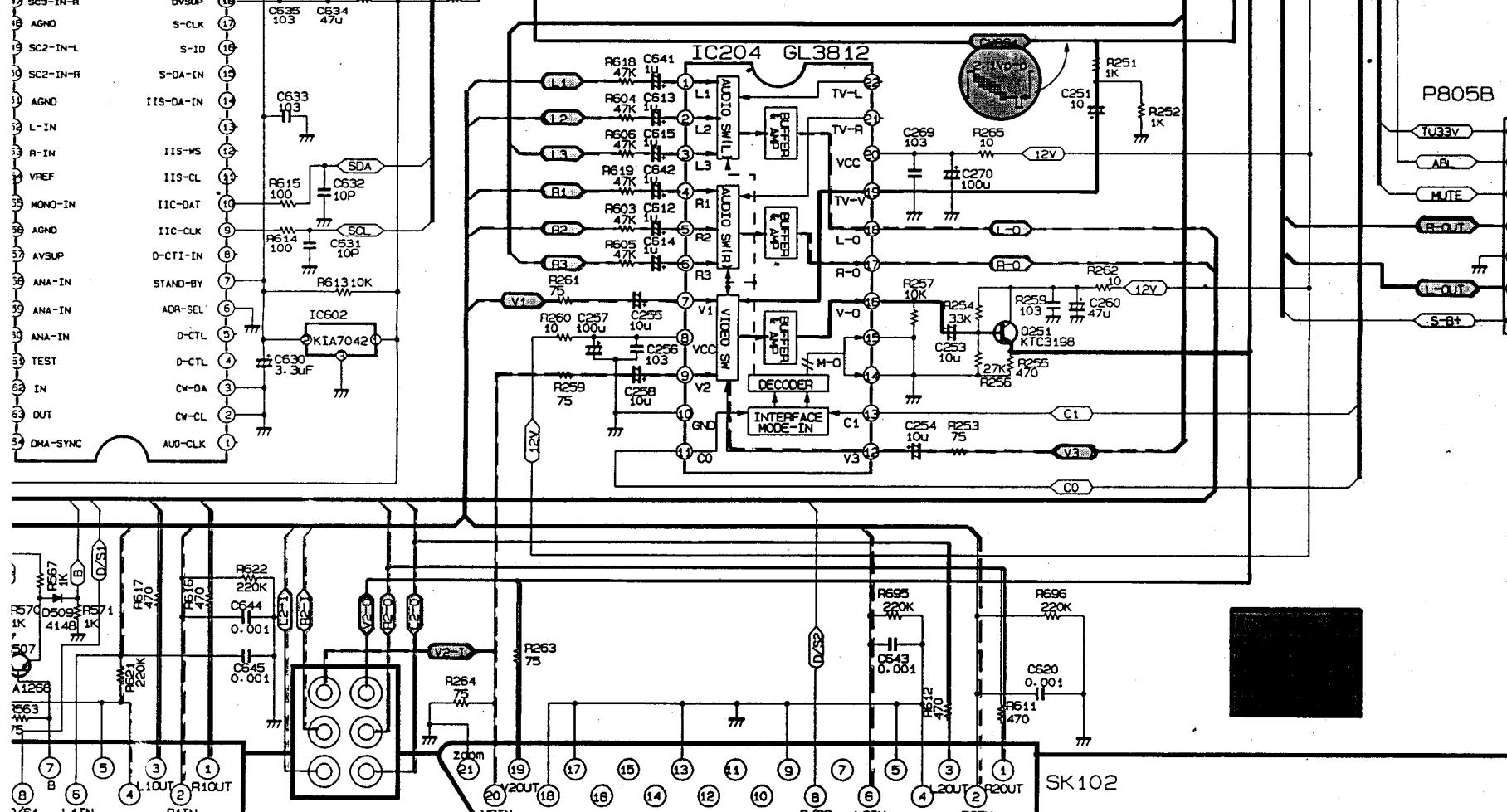
CVBS, PIF

EXT. CVBS

LUMIN

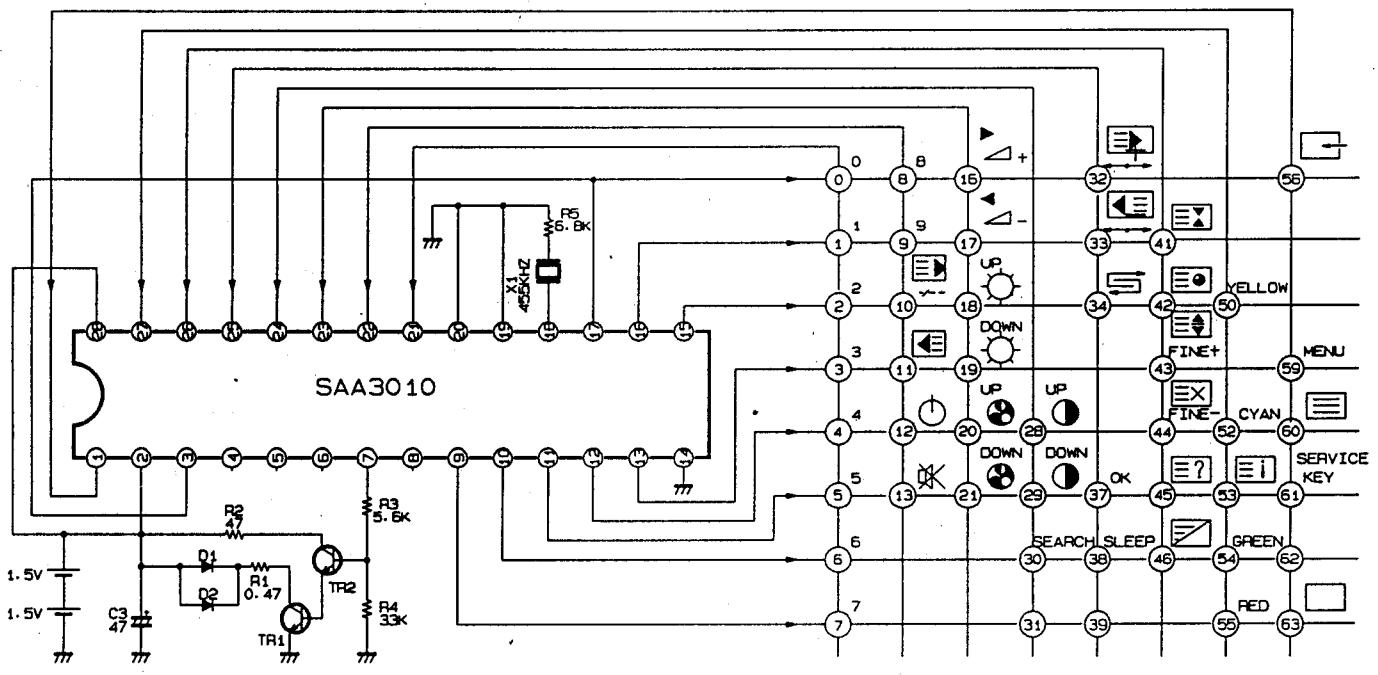
EXT. LUM



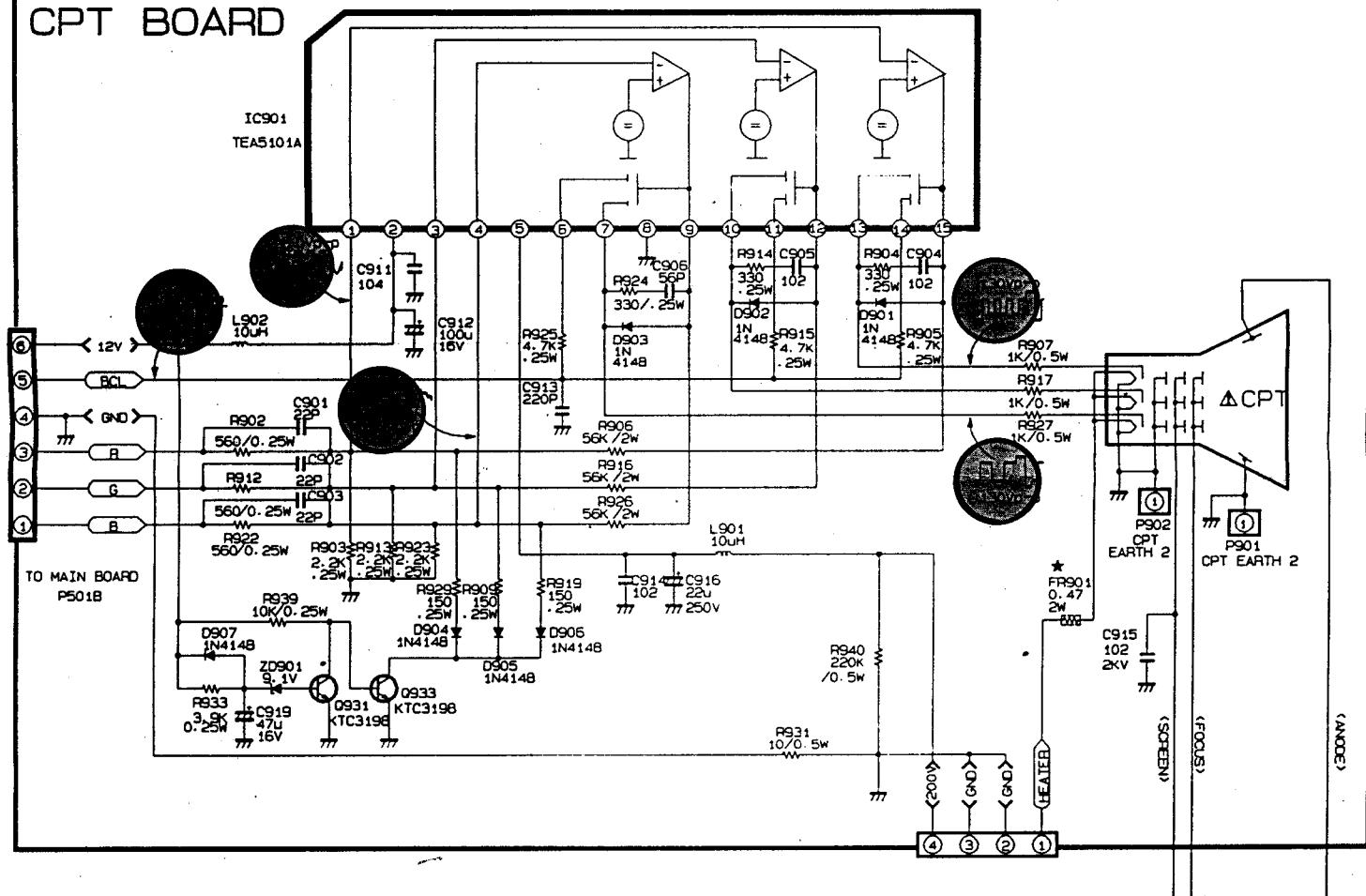


SCHEMATIC II

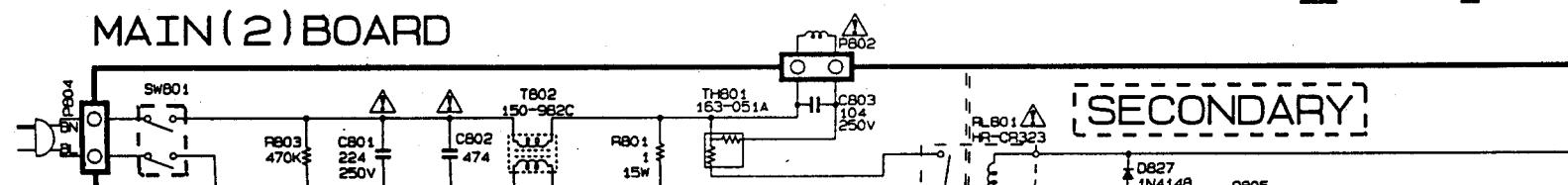
REMOTE CONTROL CIRCUIT

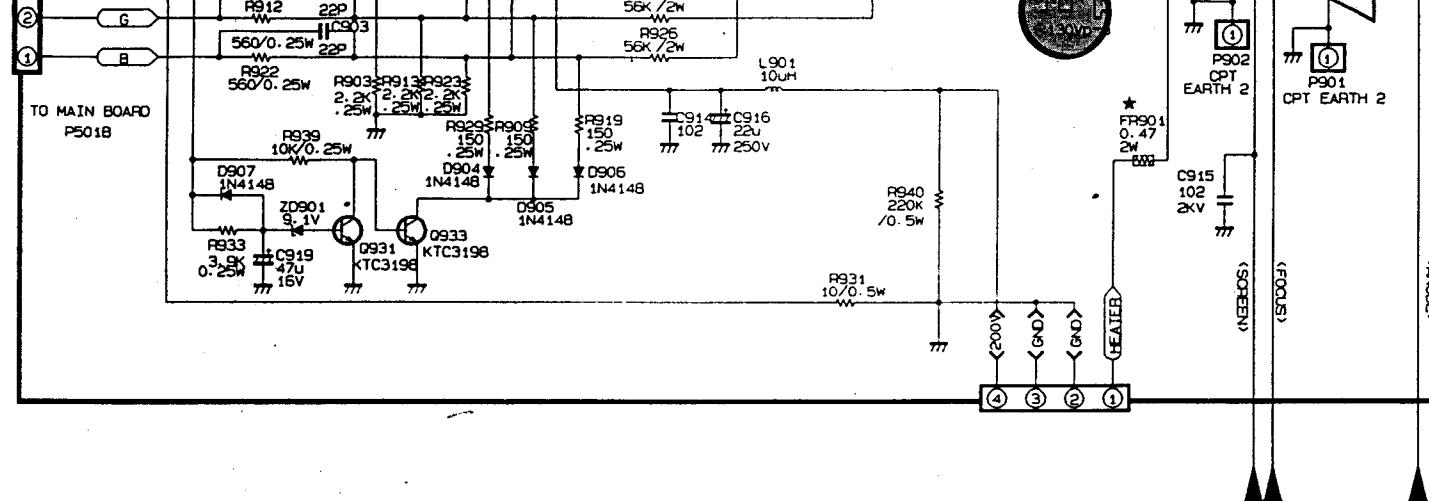


CPT BOARD

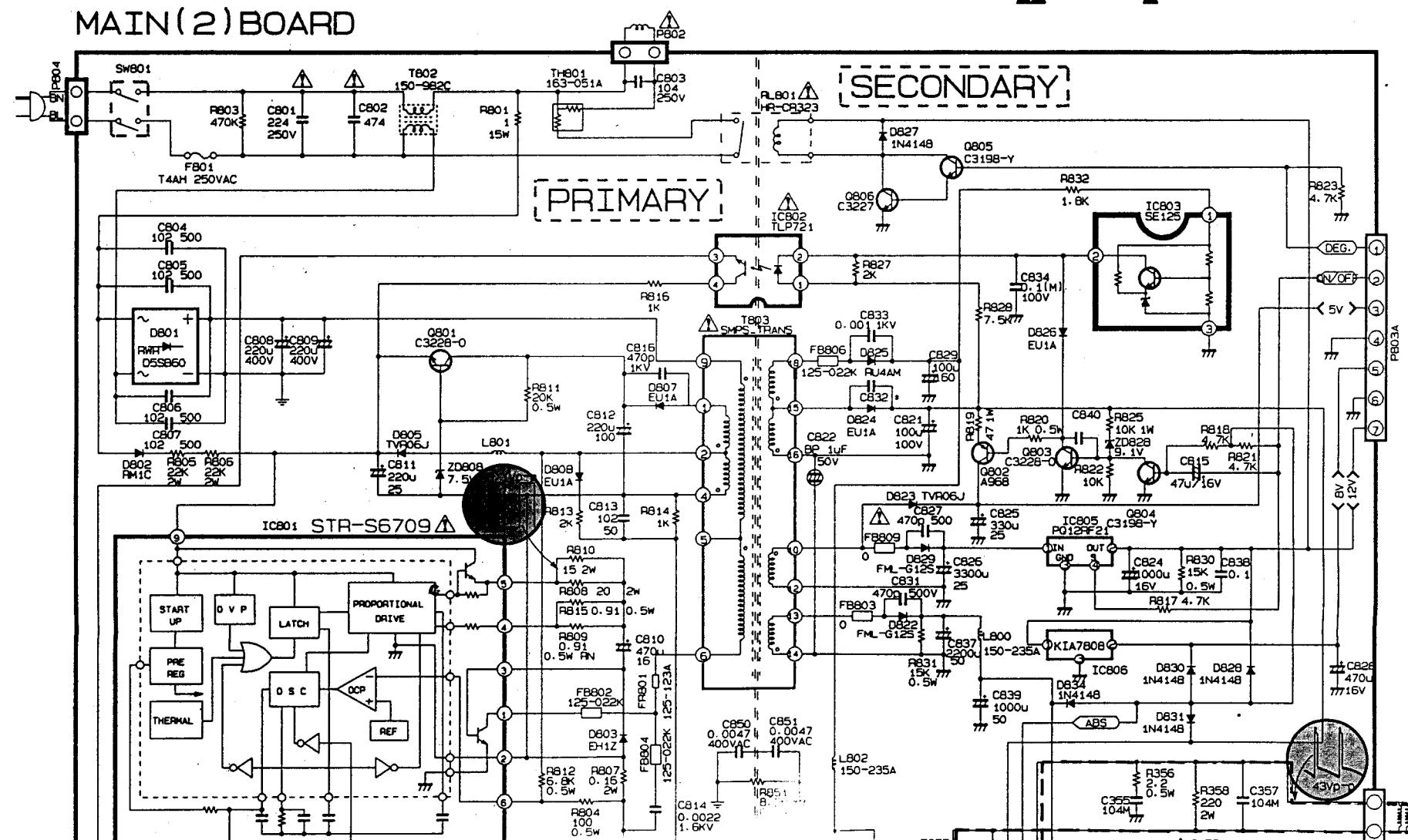


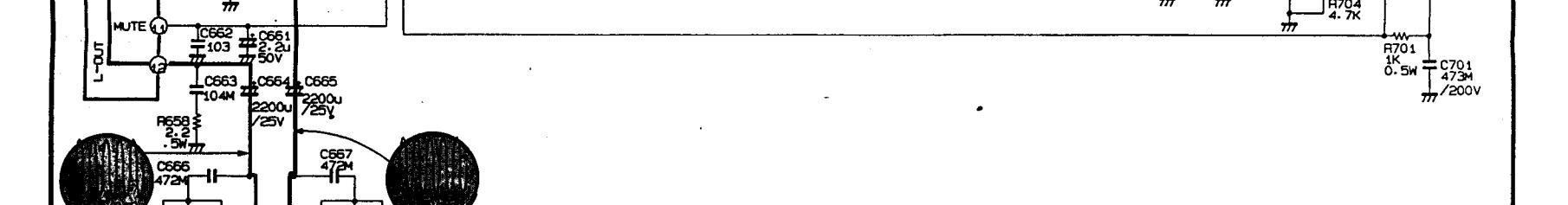
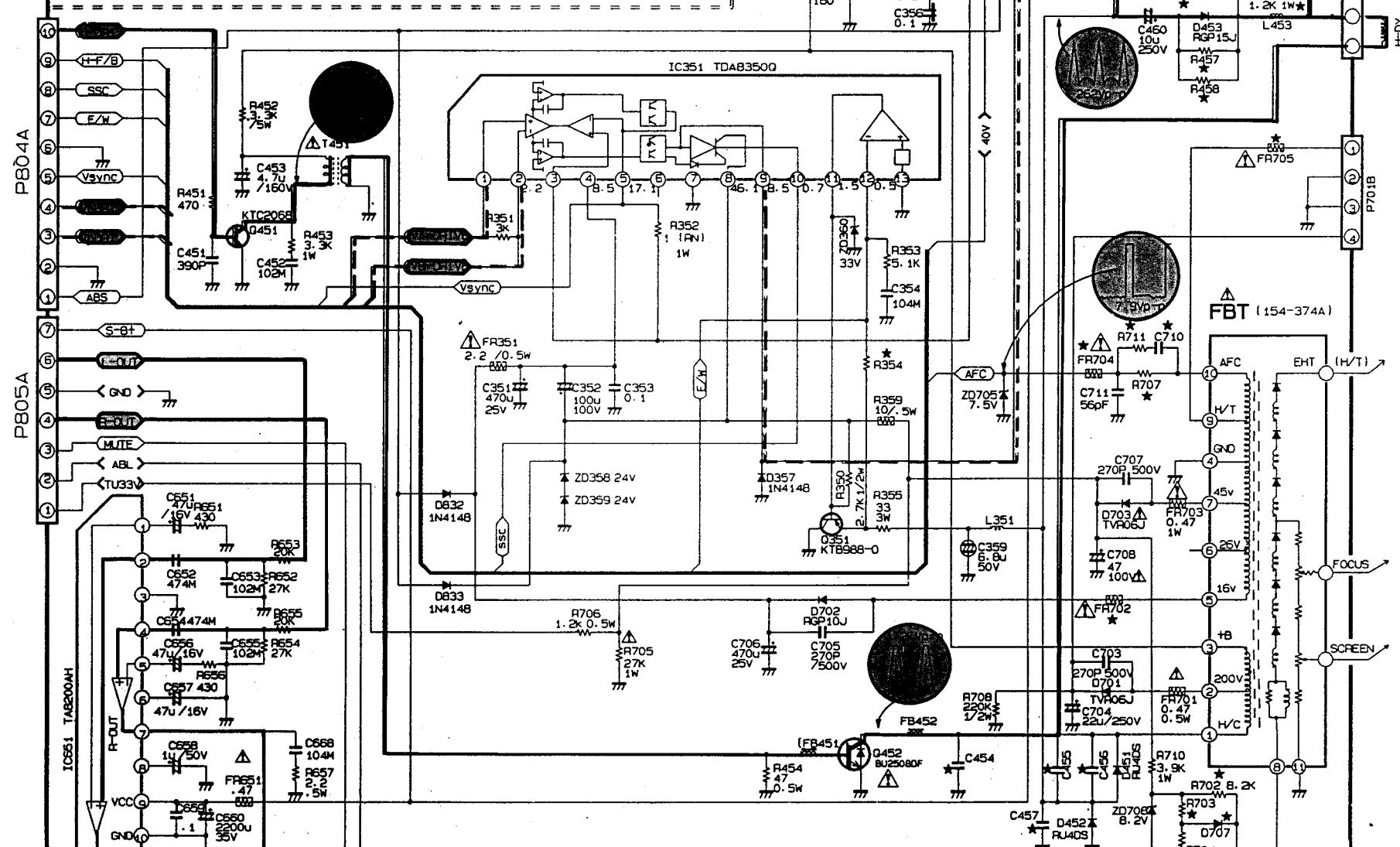
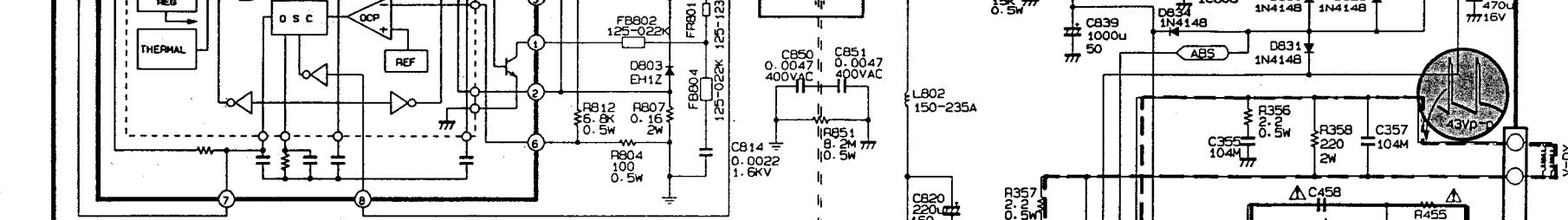
MAIN(2)BOARD

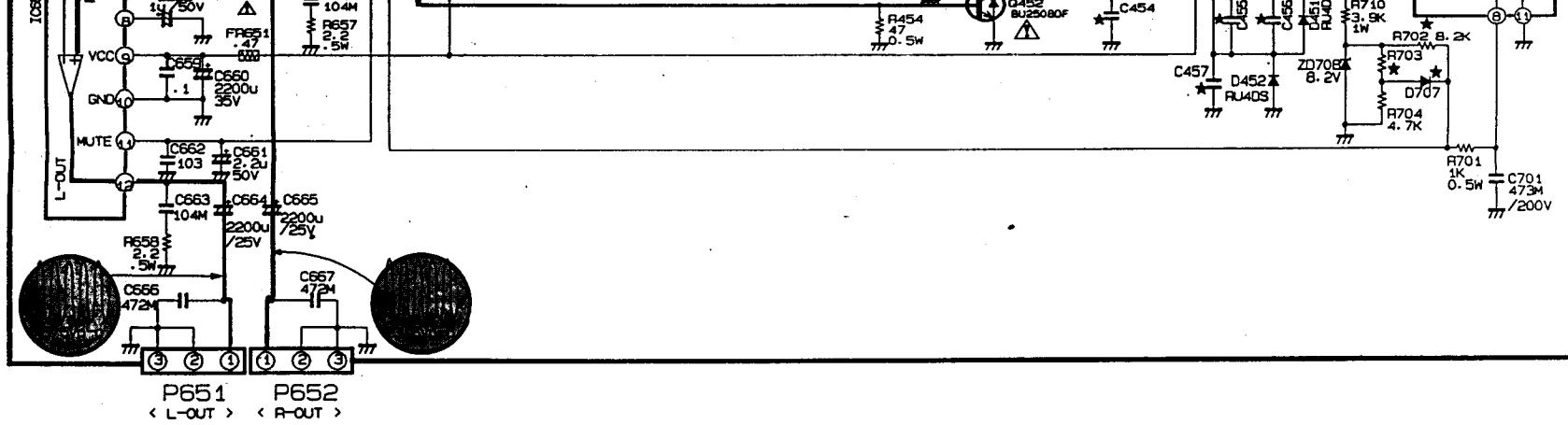




MAIN(2)BOARD

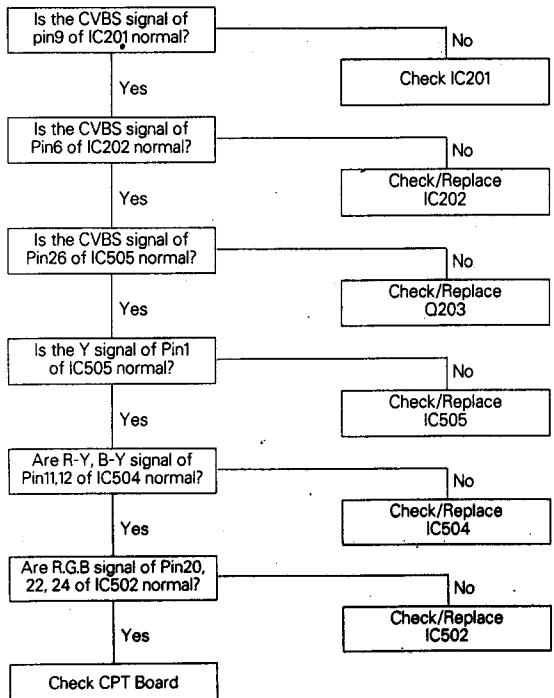




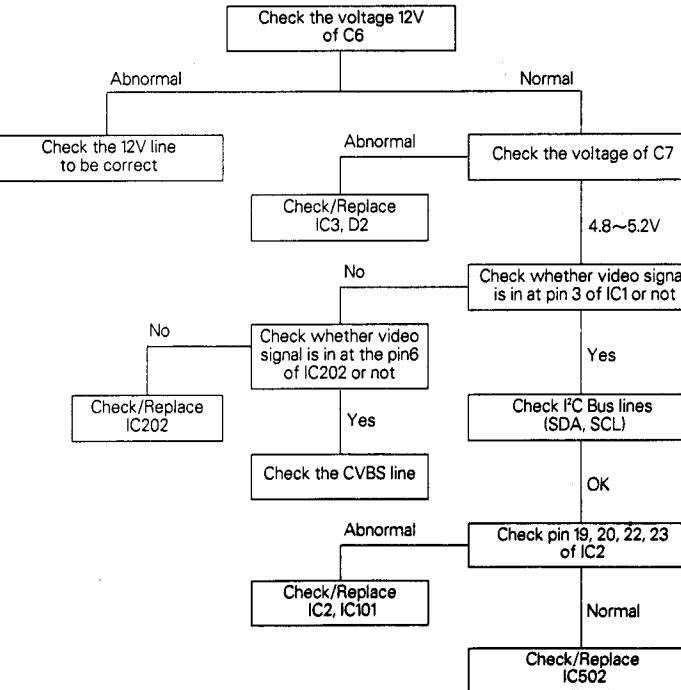


Troubleshooting

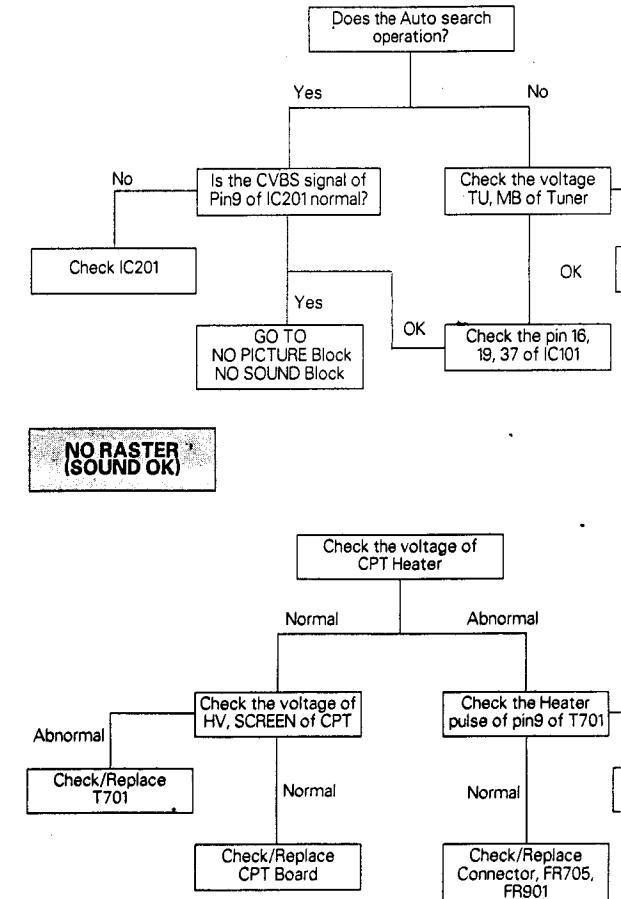
NO PICTURE/ NO COLOR



NO TELETEXT

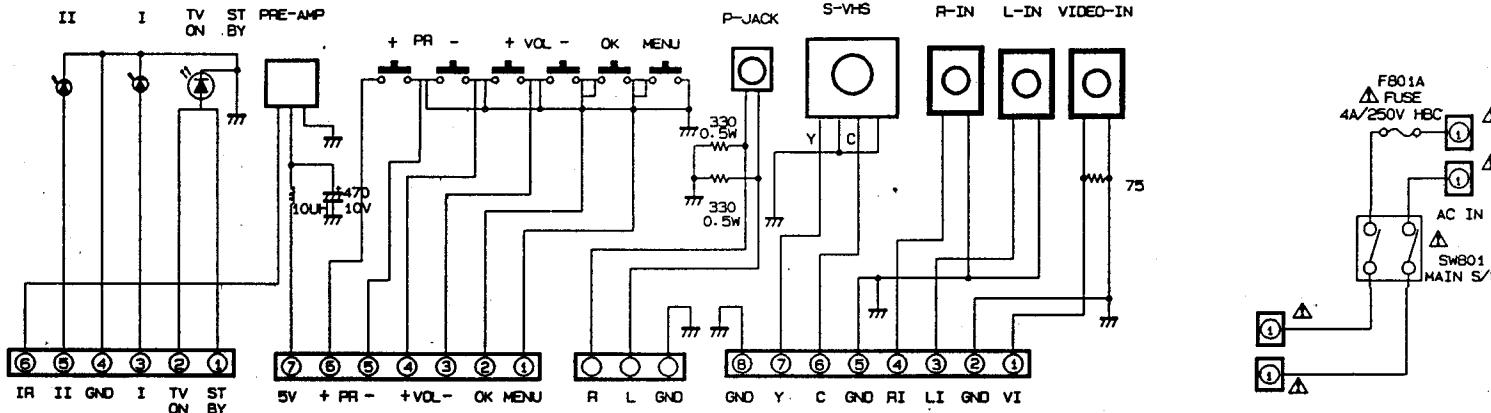


NO PICTURE/NO SOUND (RASTER OK)

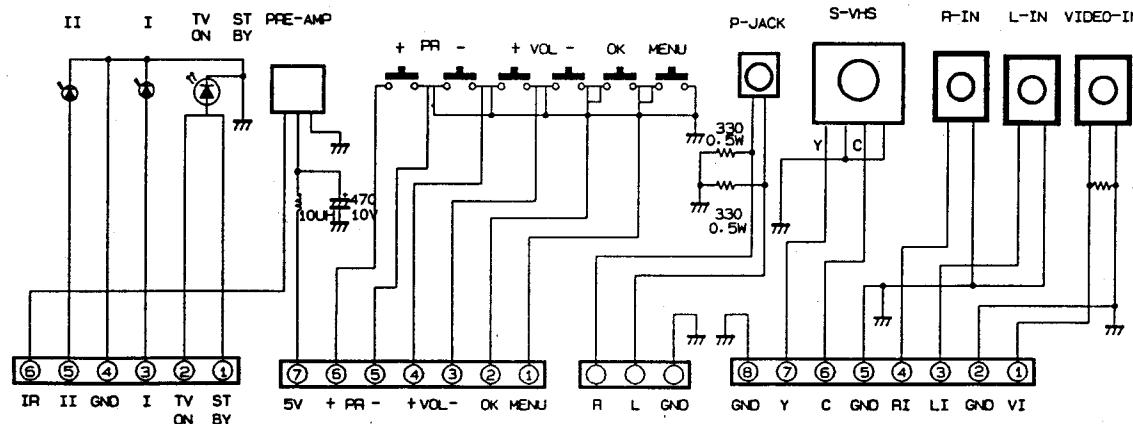


RAM(MC51B, SUB)

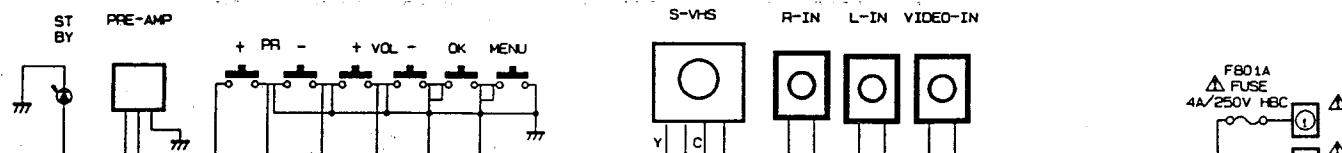
CONTROL BOARD OPTION FOR TOOLS (29C26, 28C26, 25C26)



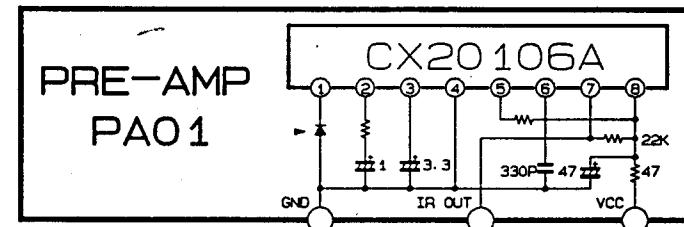
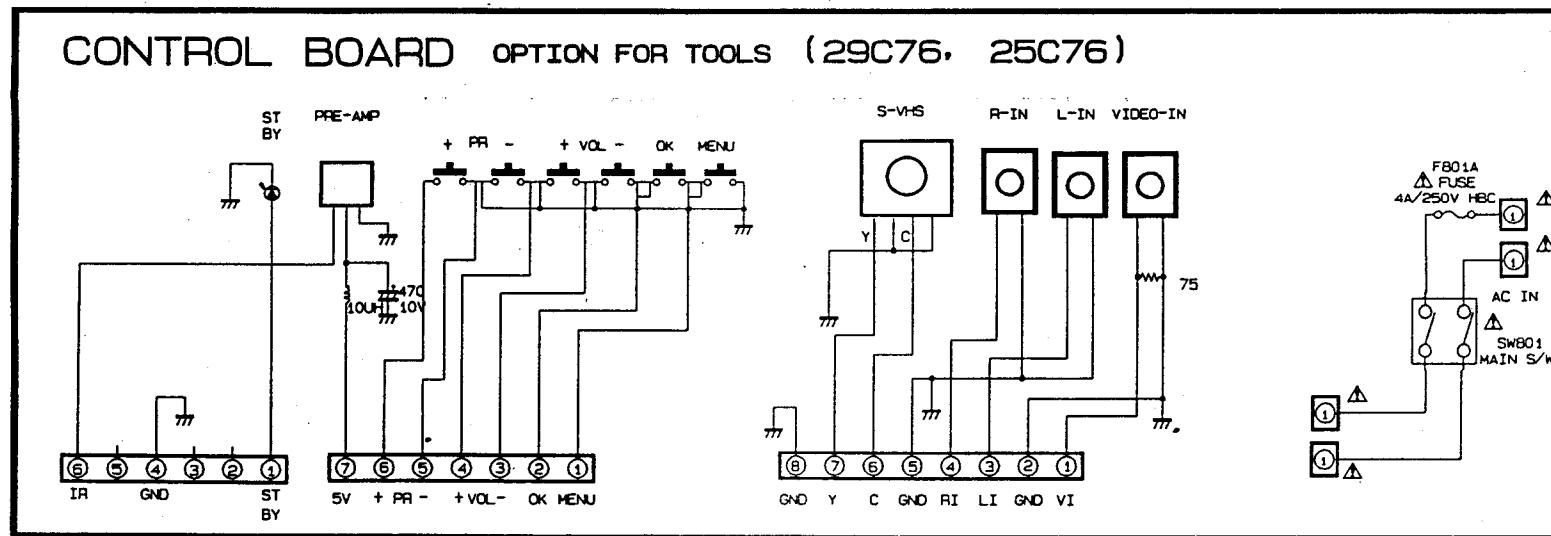
CONTROL BOARD OPTION FOR TOOLS (29C36, 25C36)



CONTROL BOARD OPTION FOR TOOLS (29C76, 25C76)

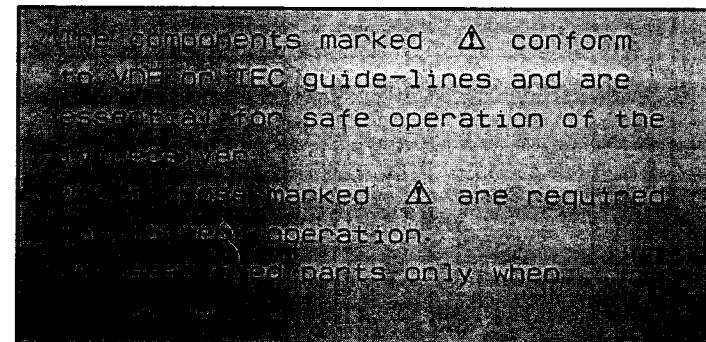


CONTROL BOARD OPTION FOR TOOLS (29C76, 25C76)



NOTICE

Since this is basic circuit diagram.
 The value of components and some
 partial connection are subject to
 change for improvement without notice.



Value of resistor,
 capacitor and inductor

1. Resistances are shown in ohm.

Value of resistor, capacitor and inductor

1. Resistances are shown in ohm.
 $K=1,000$. $M=1,000,000$.
2. Unless otherwise noted in schematic.
All capacitor values less than 1
are expressed in mfd and the values
more than 1 in pF.
3. Unless otherwise noted in schematic.
all inductor values more than 1
are expressed in uH and the values
less than 1 in Henry(H).

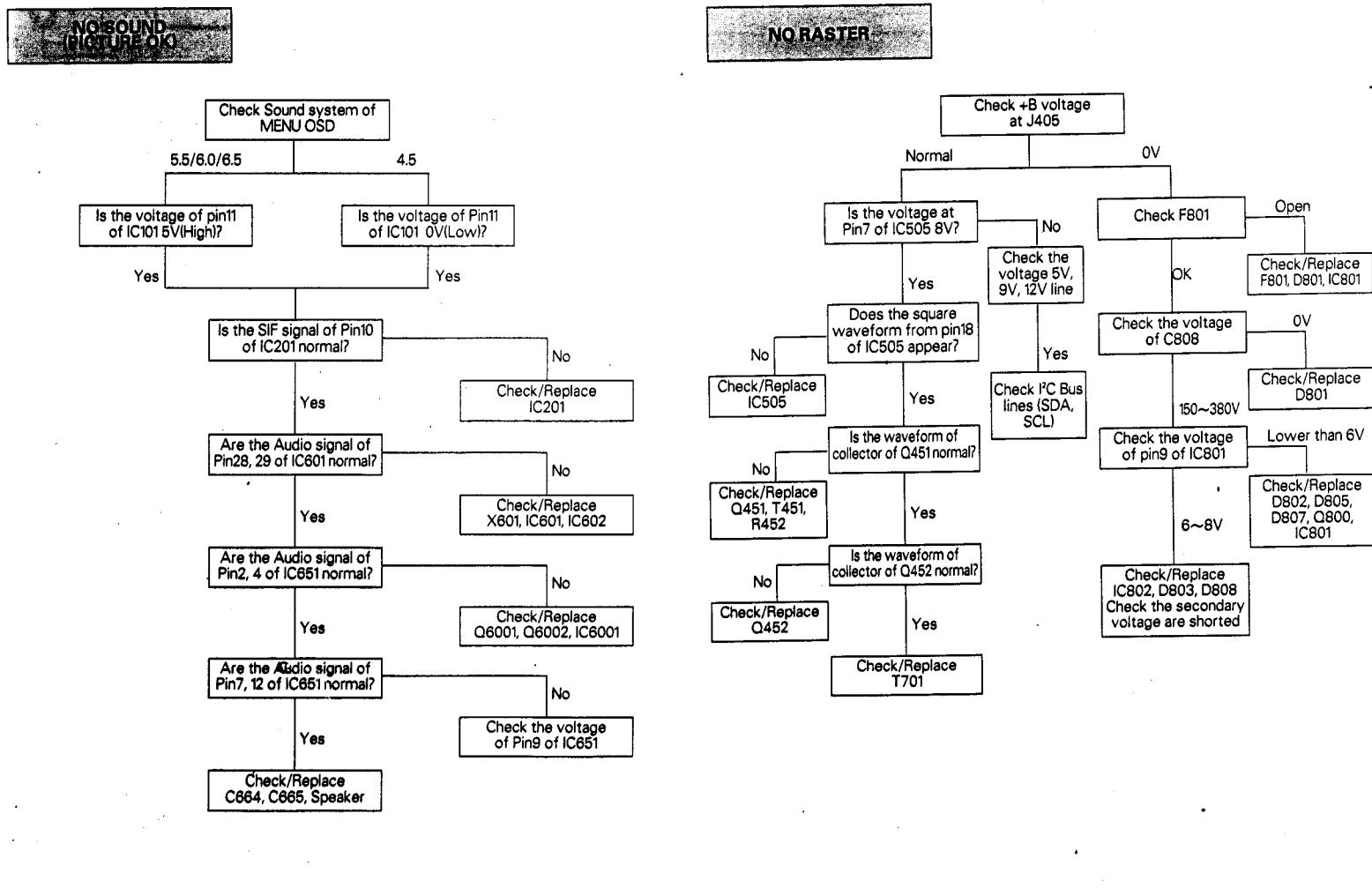
Observation of voltages and waveforms

1. Voltages read with VTVM from point
to chassis ground.
line voltage is $230 \pm 20\%$ volts.
signal pattern is colour-bar.
2. The schematic shown is
representative only.
3. All waveforms are taken using a
wide band oscilloscope and a low
capacity probe.
4. Check FINE TUNING, AGC, CONTRAST,
BRIGHTNESS and COLOUR controls for
best picture. make sure that
COLOUR and BRIGHTNESS are in mid-
point and CONTRAST is in 75%.
5. Waveforms are taken using a
standard colour signal.

★ INCH CONVERSION PARTS

CIR. NO	25INCH	28INCH	29INCH
C454	MPP1.6K222	MPP2K222	MPP1.6K102
C455	MPP1.6K952	PP1.6K102	MPP1.6K822
C456	MPP1.6K952	MPP2K103	MPP1.6K862
C457	PE400V223	PE400V333	PE400V333
C458	MPP200V704	MPP400V224	MPP200V504
L453	150-L01E	150-L01J	150-L01D
R351	RN1/6W3.3K	RN1/6W3K	RN1/6W3K
R457 458	RS2W10K	RS2W20K	RS2W15K

C454	MPP1. 6K952	MPP2K103	MPP1. 6K852
C456	MPP1. 6K952	MPP2K103	MPP1. 6K852
C457	PE400V223	PE400V333	PE400V333
C458	MPP200V704	MPP400V224	MPP200V504
L453	150-L01E	150-L01J	150-L01D
R351	RN1/6W3. 3K	RN1/6W3K	RN1/6W3K
R457	RS2W10K	RS2W20K	RS2W15K
R702	RD1/6W5. 1K	RD1/6W4. 7K	RD1/6W8. 2K
FR702	RF2W1	RF1W0. 47	RF1W0. 47
FR705	RF 2W 1. 2	RF2W5. 6	RF 2W 1. 2
D707	--	1N4005	1N4005
R703	RD1/6W3. 9K	RD1/6W5. 1K	RD1/6W5. 1K
R707	RF1/2W0. 47	--	RF1/2W0. 47
FR704	RS1W2. 7K	TIN WIRE	RS1W2. 7K
R711	RD1/2W4. 7K	TIN WIRE	RD1/2W4. 7K
C710	CK500V560P	CQ682	CK500V560P
R354	RD1/6W51K	RD1/6W62K	RD1/6W51K



ADJUSTMENT INSTRUCTIONS

■ Alignment procedures

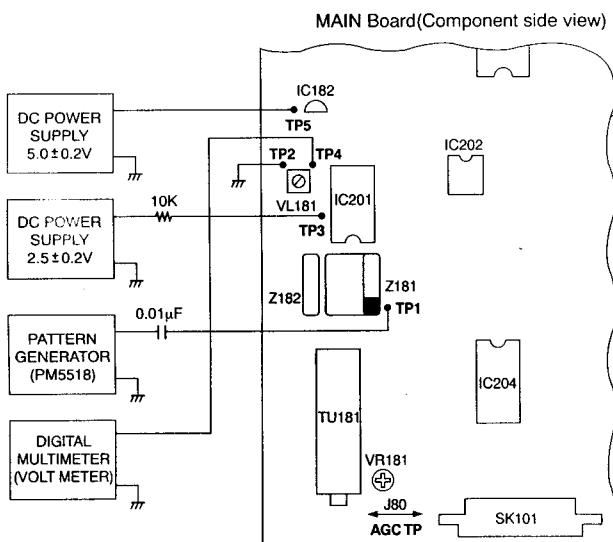
1. It is safe to adjust after using insulating transformer between the power supply line and chassis input to prevent the risk of electric shock and protect the instrument.
2. Never disconnect leads while the TV receiver is on.
3. Don't short any portion of circuits while power is on.
4. The adjustment must be done by the correct appliances. But this is changeable in view of productivity.
5. Unless otherwise noted, set the line voltage to 100V~270V, 50hz.

■ Test Equipment required

1. Pattern generator(PM5518 or equivalent)
2. Oscilloscope
3. DC power supply x 2
4. Digital multi-meter
5. Color analyzer

Preparation for VIF Adjustment

1. Connect the measuring equipment to the Main PCB as shown in Fig.1
2. Set system and pattern of pattern generator to PAL-B/G and color-bar pattern.
3. Set RF frequency and output level of pattern generator to 38.0MHz and Max.(over 60dB μ V).



NOTE: TP point is on the copper side of PCB.

Fig. 1: Connection Diagram of Equipment for VIF Adjustment

● VIF(Video Intermediate Frequency) Adjustment

Test Point : TP4

Adjust : VL181

- 1) Turn on DC power supplies.
- 2) Adjust Video Detector Coil (VL181) so that TP4 is 2.5 ± 0.1 V on Digital multimeter.

● RF AGC(Auto Gain Control) Adjustment

Test Point : J80 or Observing Display

Adjust : VR181

The RF AGC control (**VR181**) was aligned at the time of manufacture for optimum performance over a wide range conditions. Readjust of VR181 should not be necessary unless unusual local conditions exist, such as:

- 1) Channel interference in a CATV system
- 2) Picture bending and/or color beats, which are unusually due to excessive RF signal input when the receiver is too close to a transmitting tower or when the receiver is connected to an antenna distribution system where the RF signal has been amplified.
In this case, the input signal should be attenuated (with pad or filter) to a satisfactory level.
- 3) Picture noise caused by "broadcast noise" or weak signal.
If the broadcast is "clean" and the RF signal is at least 1mV (60dB μ V), the picture will be noise free in any area.

Adjusting the VR181(RF AGC) control to one end of rotation will usually cause a relatively poor signal to noise ratio; Adjusting to the other end of rotation will usually cause a degradation of over load capabilities resulting in color beats or adjacent channel reference.

For best results, adjust the VR181 control while performing on all over local channels, or the voltage at **J80** will be **6.0 ± 0.1Vdc** in RF level **60 ± 1dB μ V**.

Button	OSD	Adjustment	Reference
6	VL --	Vertical Linearity	
9	VS --	Vertical Shift	
7	VH --	Vertical Height	
8	SC --	Vertical "S" Compensation	Receive cross hatch pattern.
1	HS --	Horizontal Shift	
2	EW --	Horizontal Width	
3	EP --	East-West Parabol	Receive cross hatch pattern.
4	EC --	East-West Corner	Receive cross hatch pattern.
5	ET --	East-West Trapezium	Receive cross hatch pattern.
TXT/M	PL --	Peak Limit	[■], Set to PL45
INDEX	GG --		[■], Set to GG31
Reveal	RG --	White Balance	[■]
UPDATE	BG --		[■]

Ref) "--" of OSD column means variable number, for example 35, from 00 to 63.

NOTE : These adjustments are possible with serviceable remote controller installed SVC button.

If you don't have serviceable remote controller, press MENU, VOL- and PR- buttons on control board simultaneously then TV is changed from normal mode to SVC mode.

Table 1: Corresponding buttons for each adjustment.

● Vertical/Horizontal/E-W(East-West) Adjustment

NOTE: These adjustments are already aligned at the time of manufacture for optimum performance. Readjust of them should not be necessary unless IC102(EEPROM) is defective. Because all the information of these adjustment are memorized in that IC.

Adjustment Procedures

- 1) Tune the TV set to receive a digital pattern unless otherwise noted.
- 2) Press SVC button on remote controller for about 3 seconds.
- 3) Press corresponding button (Refer to Table 1) on remote controller then you can find respective On Screen Display (OSD) around upper-left of screen.
- 4) Adjust Volume up or down button for correct picture.
- 5) Press OK button to memorize all the adjusted data.
- 6) After finishing adjustment, press stand-by ON/OFF button on the remote controller then TV is changed from SVC mode to normal mode.

Adjustment(Refer to Table 1)

VL--(Vertical Linearity)

NOTE: When you press volume up or down button, the colour will disappear at lower half of the screen.
- excepting μ-COM "A" version

Adjust so that the boundary line between upper and lower half is in accord with geometric horizontal center of the picture tube.

VS--(Vertical Shift)

Adjust so that the horizontal center line of digital circle pattern is in accord with geometric horizontal center of the picture tube.

VH--(Vertical Height)

Adjust for 1/8" overscan at top and bottom display.

SC--(Vertical "S" Compensation)

Adjust so that all distance between each horizontal lines are to be the same.

HS--(Horizontal Shift)

Adjust so that vertical center line of the digital pattern is in accord with geometric vertical center of picture tube.

EW--(Horizontal Width)

Adjust so that digital circle pattern looks like exact circle.

EP--(East-west Parabolar)

Adjust so that middle portion of the outermost left and right vertical line looks like parallel with vertical lines of the picture tube.

EC--(East-west Corner)

Adjust so that the vertical line at every 4 corners of the screen looks like parallel with the vertical lines of the picture tube.

ET--(East-west Trapezium)

Adjust to make the length of top horizontal line same with it of the bottom horizontal line.

● Screen Voltage Adjustment

Test Point : RK (Red Cathod of CPT Board)

Adjust : Screen Control of FBT

- 1) Tune the TV set to receive digital pattern.
- 2) Set contrast to 47, brightness and color to 31 respectively.
- 3) Connect the prove of oscilloscope to the RK(Red Cathod of CPT Board).
- 4) Adjust Screen Volume of FBT so that the waveform is the same as below Fig.2.

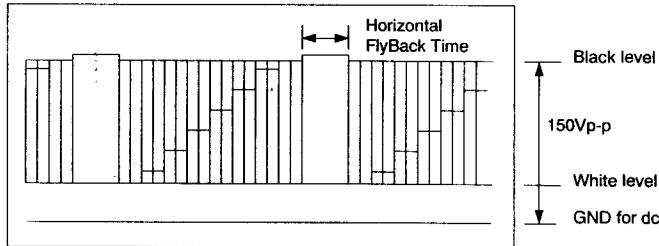


Fig. 2:The waveform at RK(Red Cathod) on CPT Board

● Peak Limit Adjustment (Refer to Table 1)

- 1) Press TXT/M (✉) button on remote controller then you can find "PL--" OSD around upper-left of screen.
- 2) Adjust volume up or down button for PL 45.

● White Balance Adjustment (Refer to Table 1)

NOTE: This adjustment should be performed after screen voltage adjustment.

- 1) Tune the TV set to receive 87.5% white pattern.
- 2) Set contrast to 47, brightness and color to 31 respectively.
- 3) Press INDEX (✉) button on remote controller then you can find "GG--" OSD around upper-left of screen.
- 4) Adjust volume up or down button for GG31.
- 5) Press Reveal (✉) / UP DATE (✉) button you can find "RG--"/"BG--" OSD around upper-left of screen.
- 6) Adjust volume up or down button in each status of "RG--"/"BG--" for X=281±10, Y=287±10 with color analyzer.

● Focus Adjustmtnt

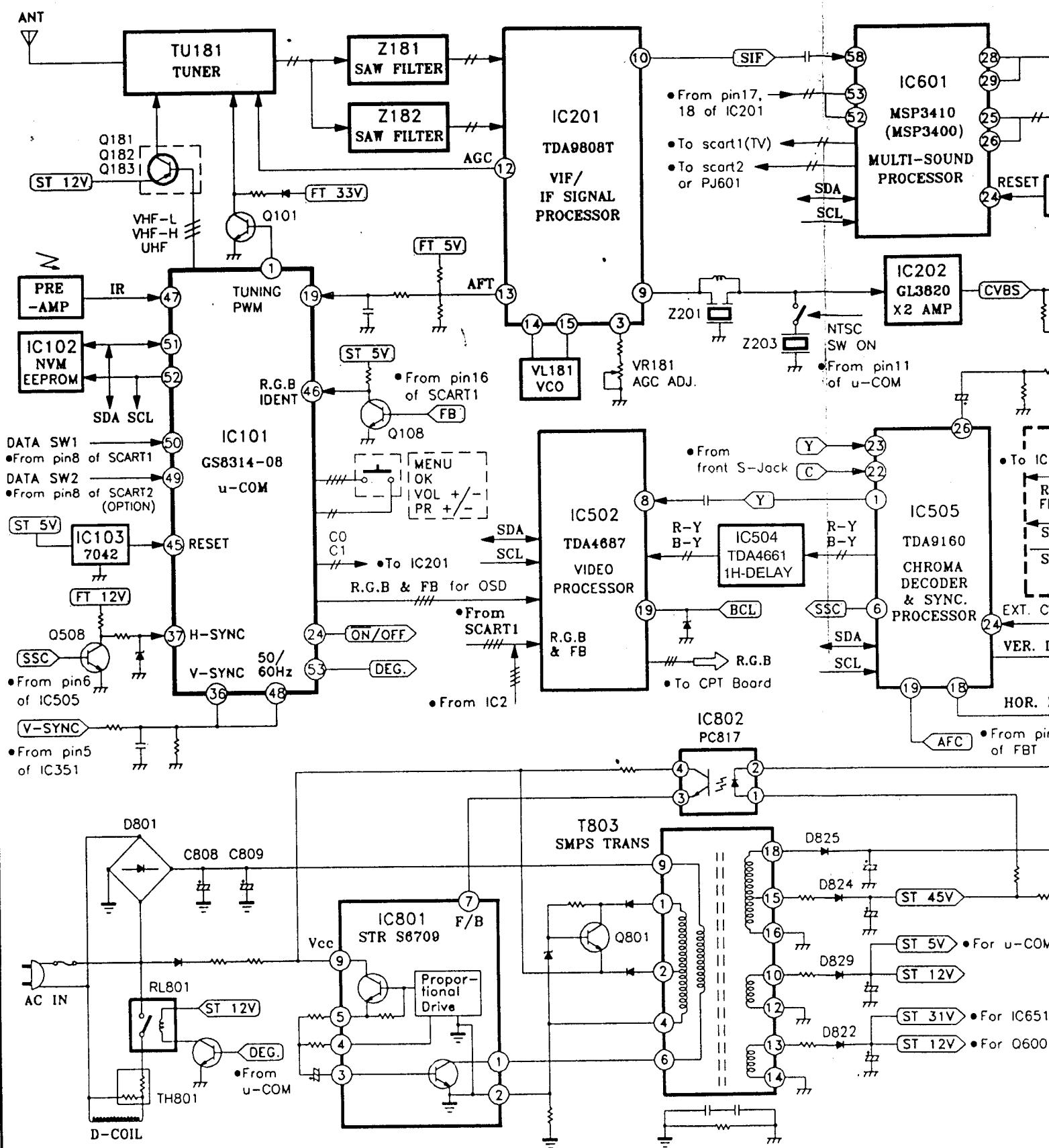
NOTE: This adjustment should be performed after warming up for 10 minutes.

Test Point : Observing display

Adjust : Focus control of FBT

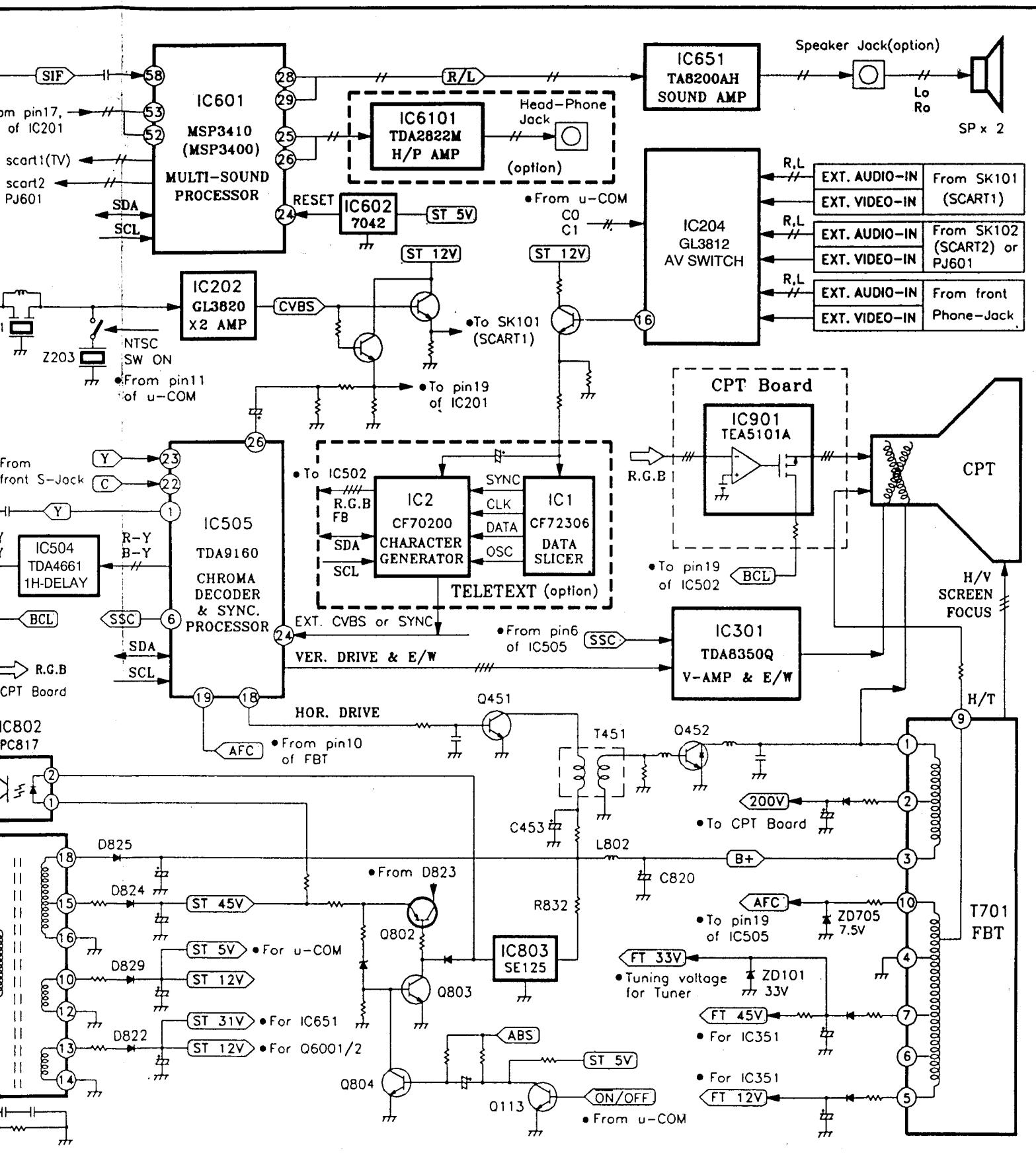
- 1) Tune the TV set to an inactive channel station.
- 2) Adjust the Focus control for best overall focus.

Block Diagram



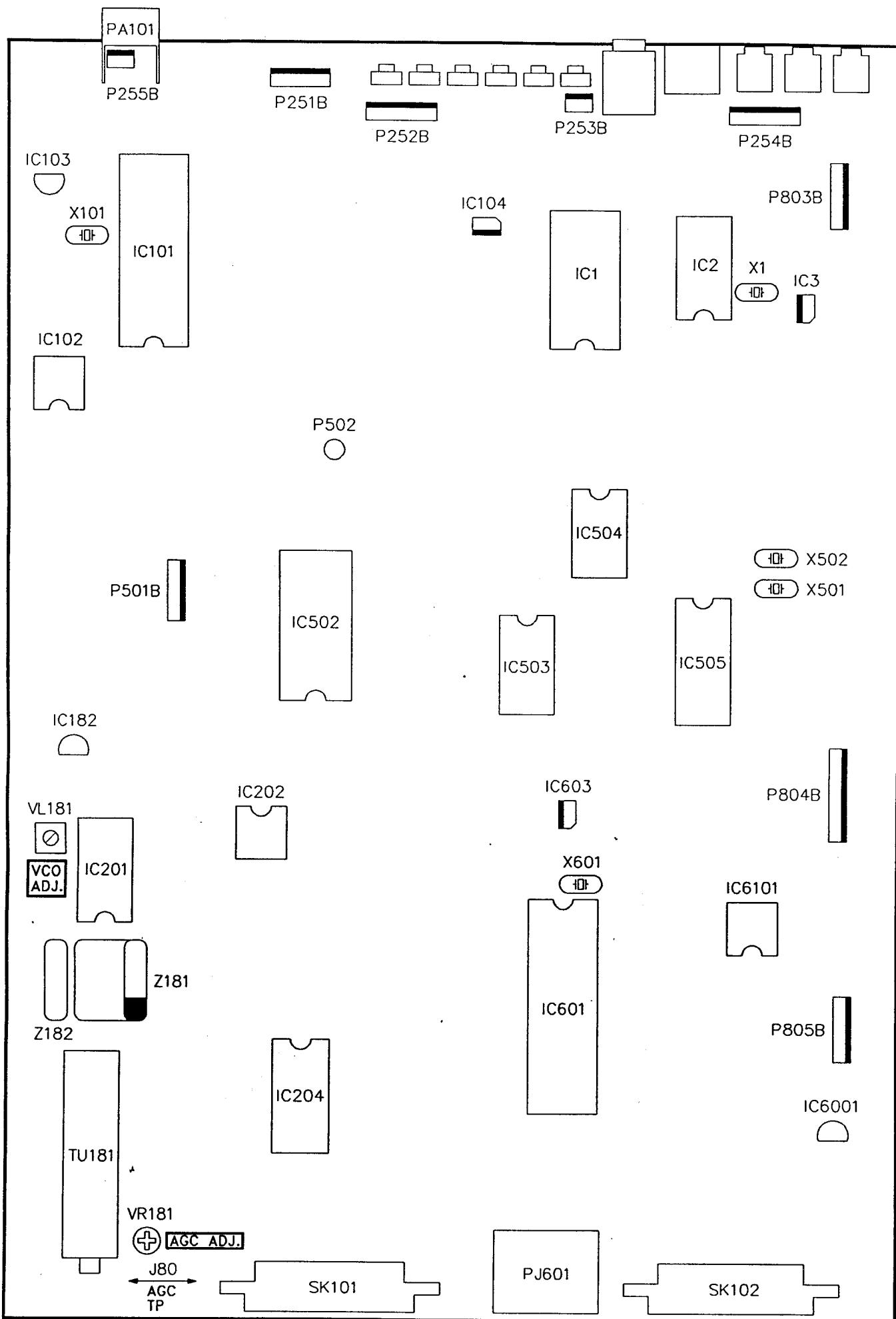
Wiring Diagram

Block Diagram

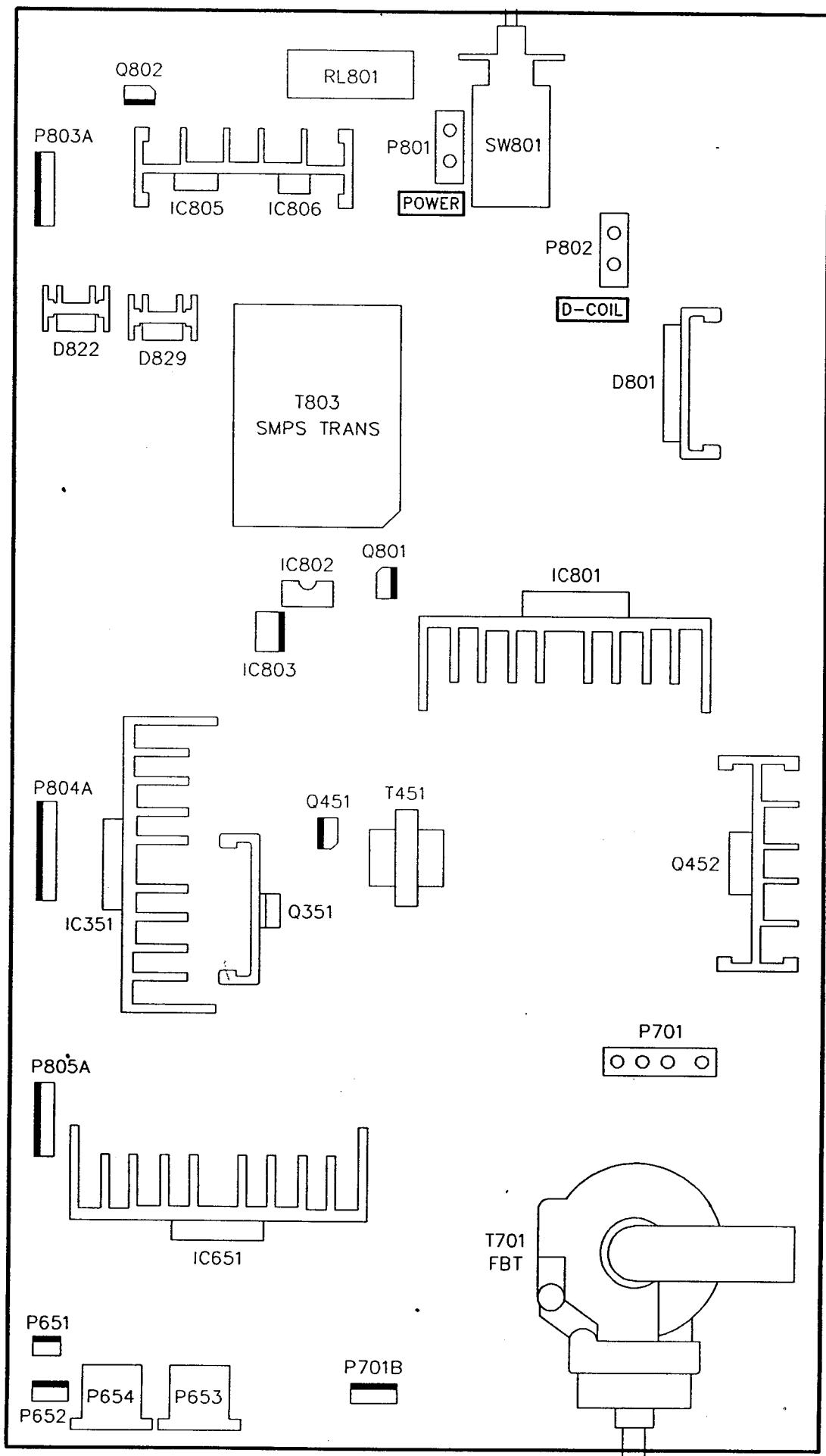


Wiring Diagram

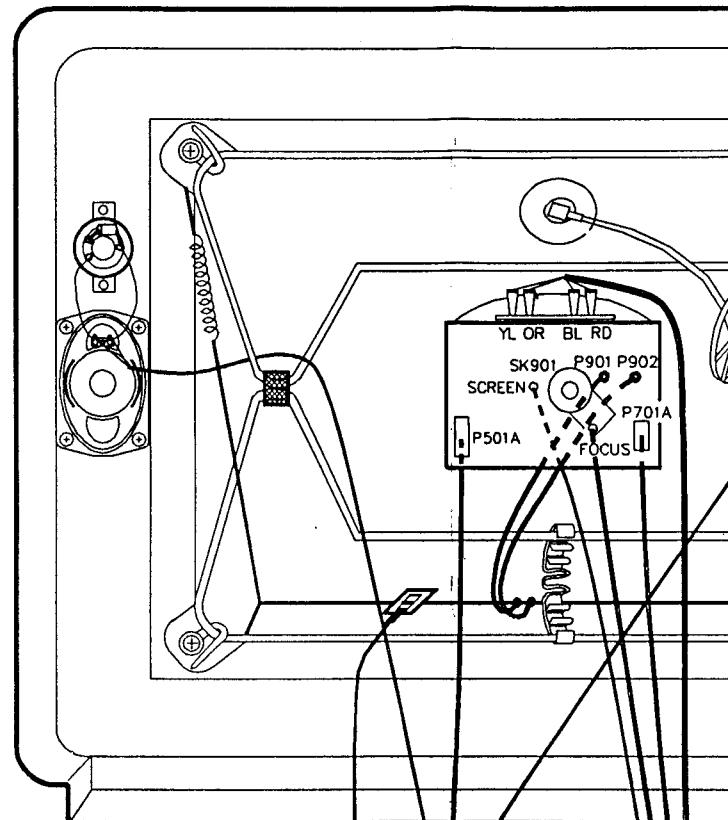
Alignment/Test Point Location Guide (MAIN 1 BOARD)



(MAIN 2 BOARD)-POWER, DEFLECTION & SOUND AMP

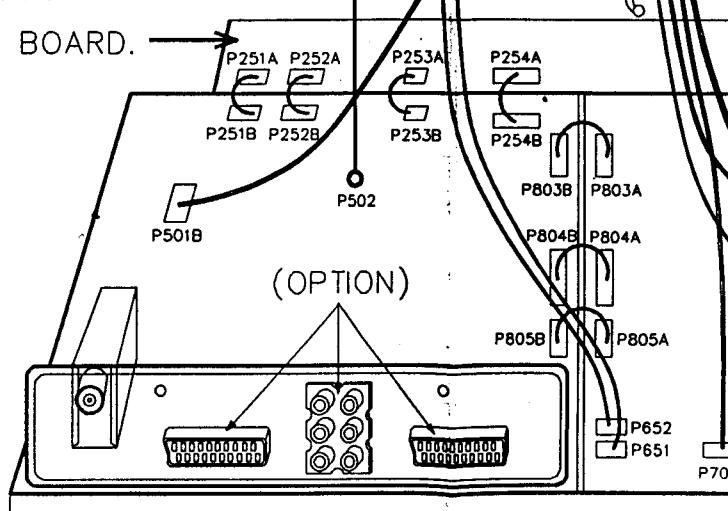


Wiring Diagram

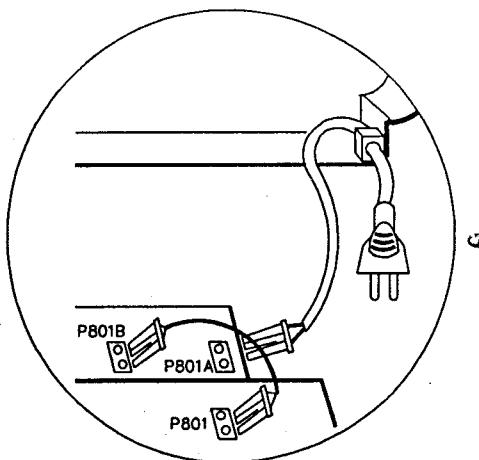
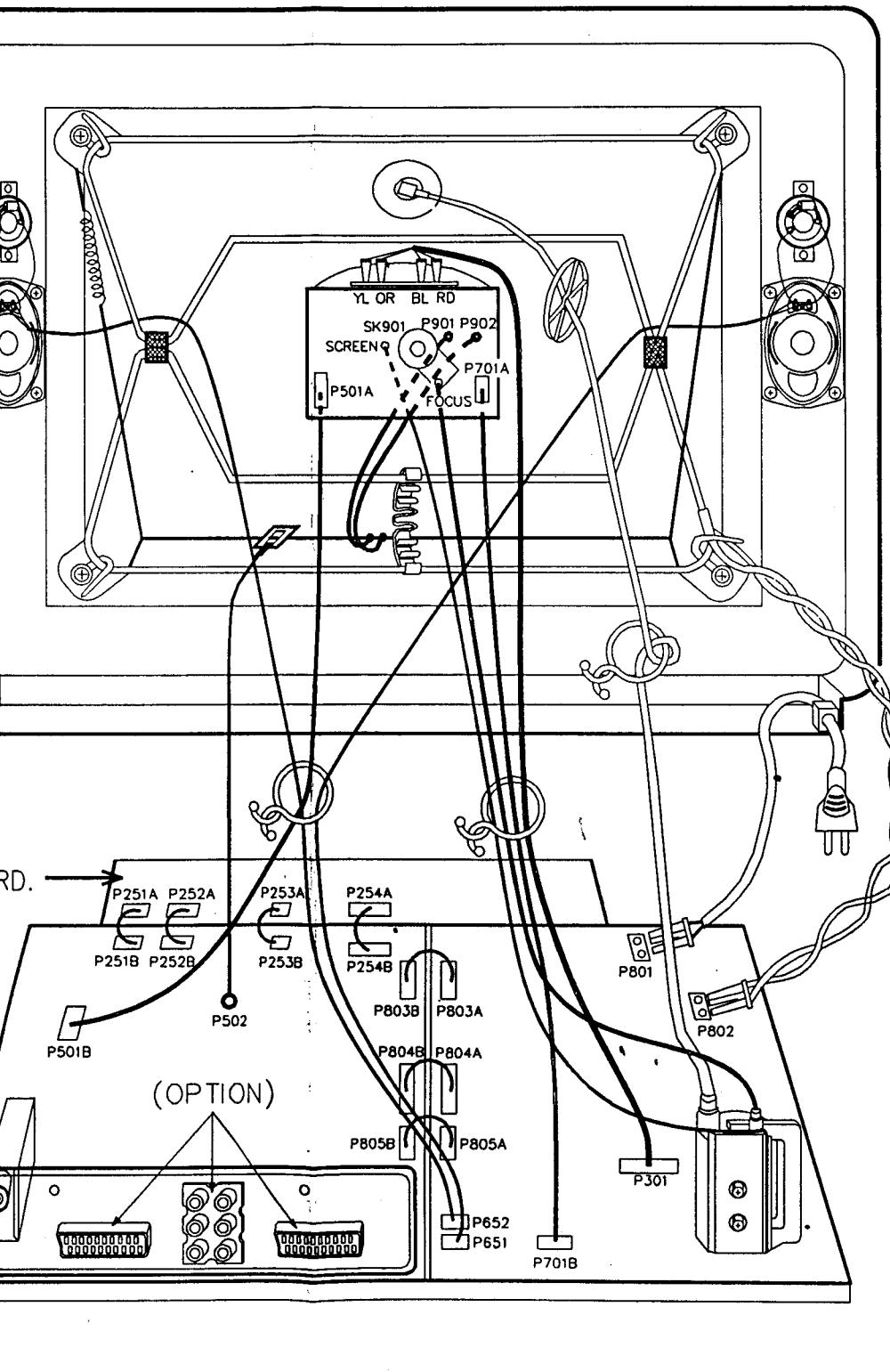


(NOTE)

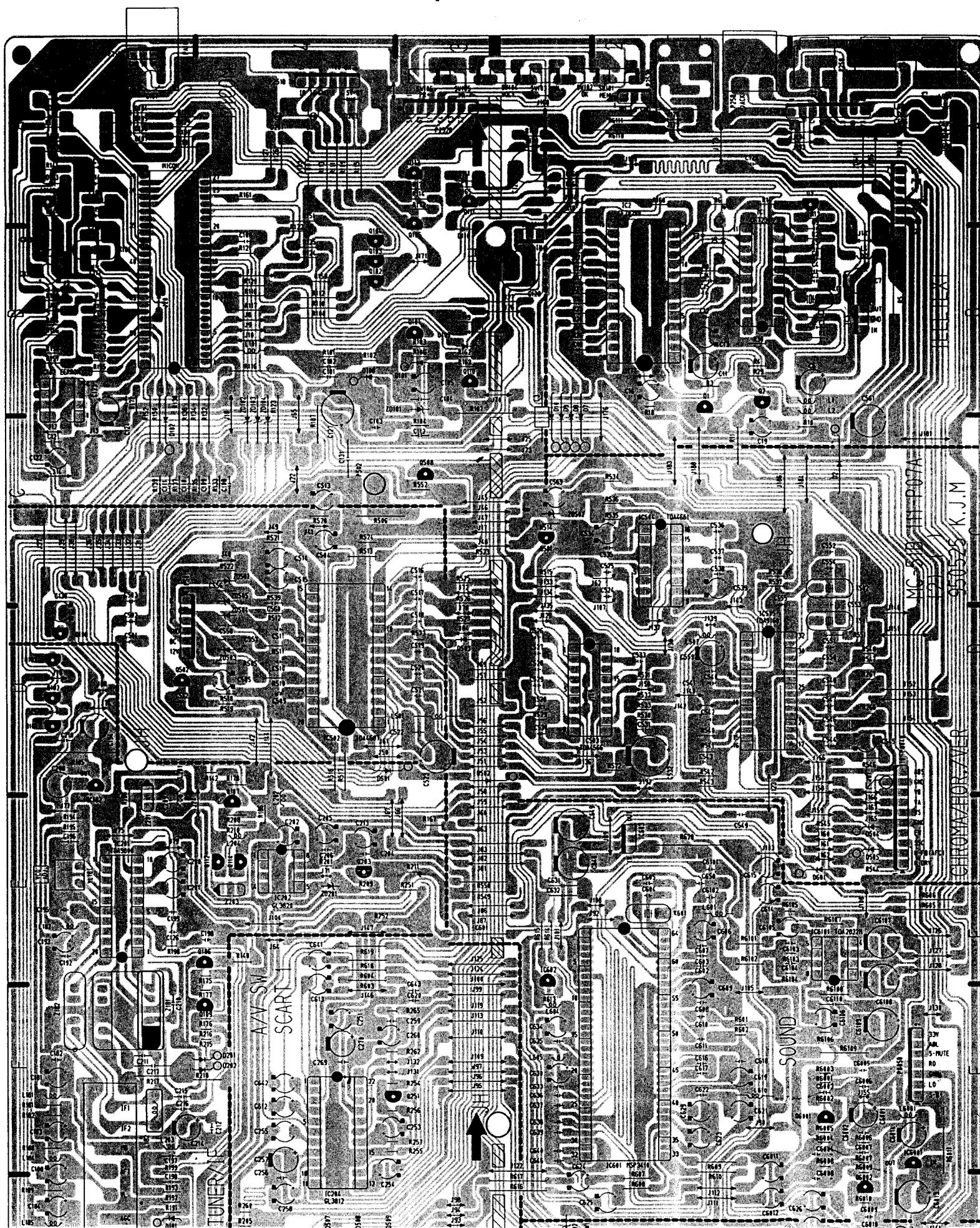
- 1) THE FEATURES MAY BE DIFFERENT
IN ACCORDANCE WITH THE TOOL.
- 2) 25C26 MODEL HAS NOT THIS BOARD.

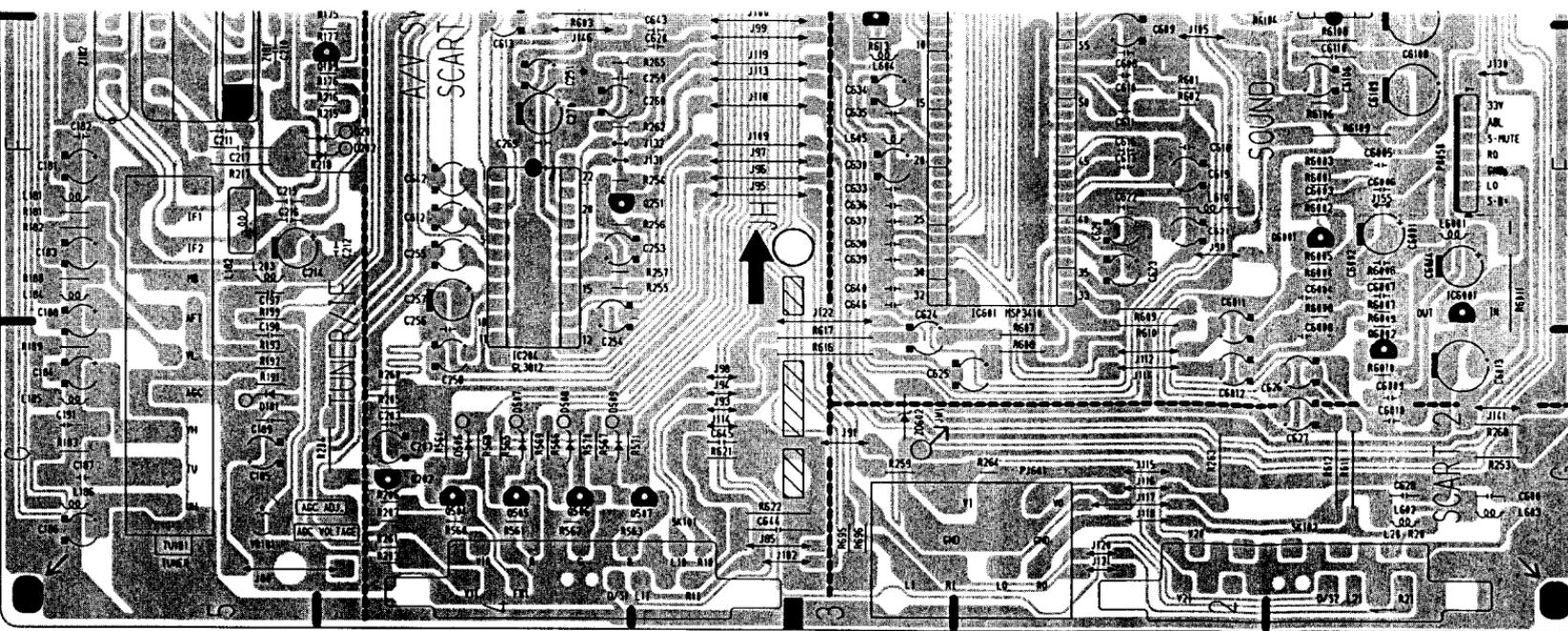


Wiring Diagram



Main1 Printed Circuit Board(Component Side)





5

4

3

2

1

Main2 Printed Circuit Board(Component Side) (POWER, DEFLECTION & SOUND AMP Board)

A

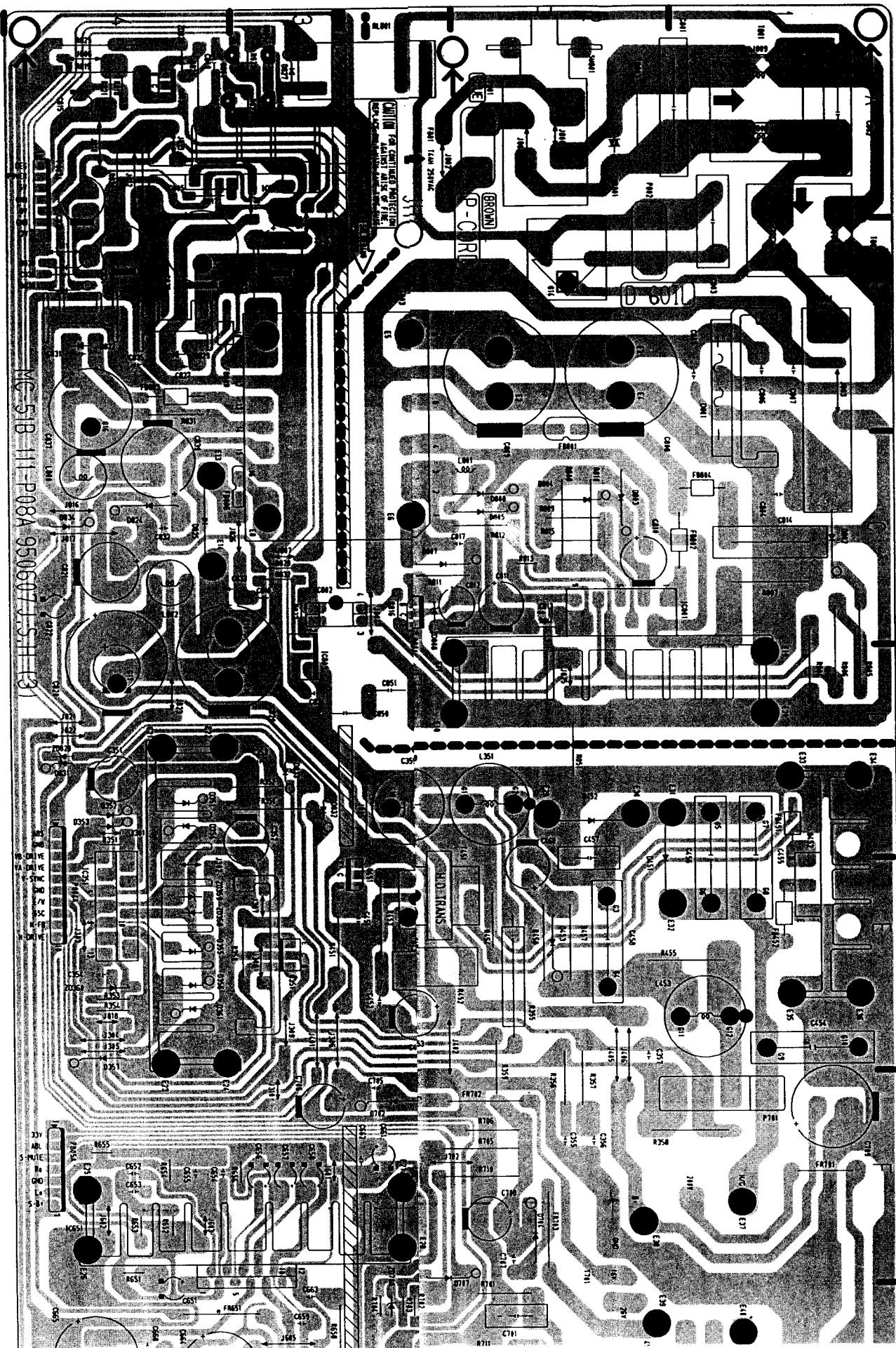
B

C

D

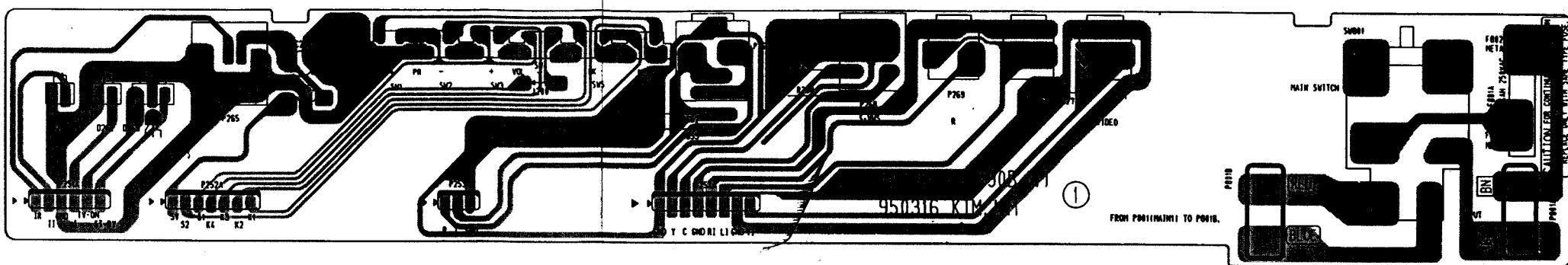
E

F

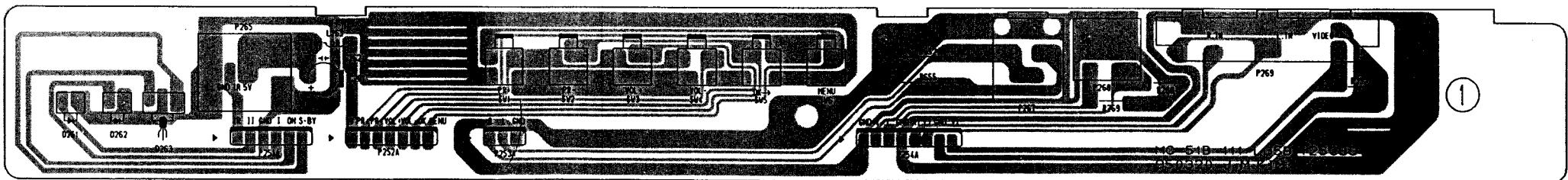


Control Printed Circuit Board(Component Side)

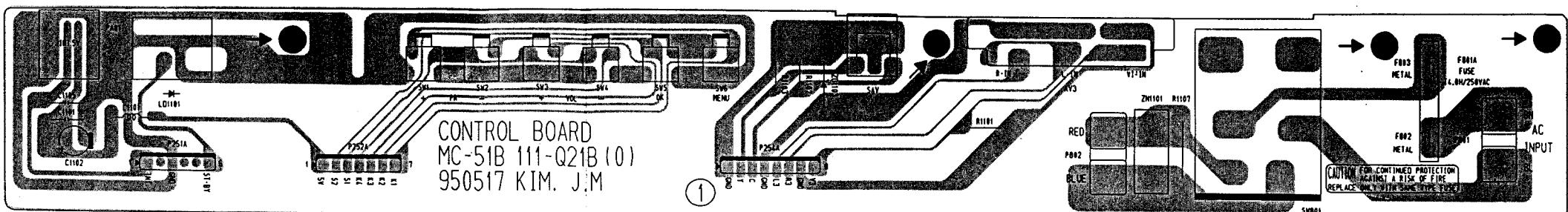
* 25/29C26 P.C.B



* 25/29C36 P.C.B



* 25/29C76 P.C.B



Component Location Guide for Main1

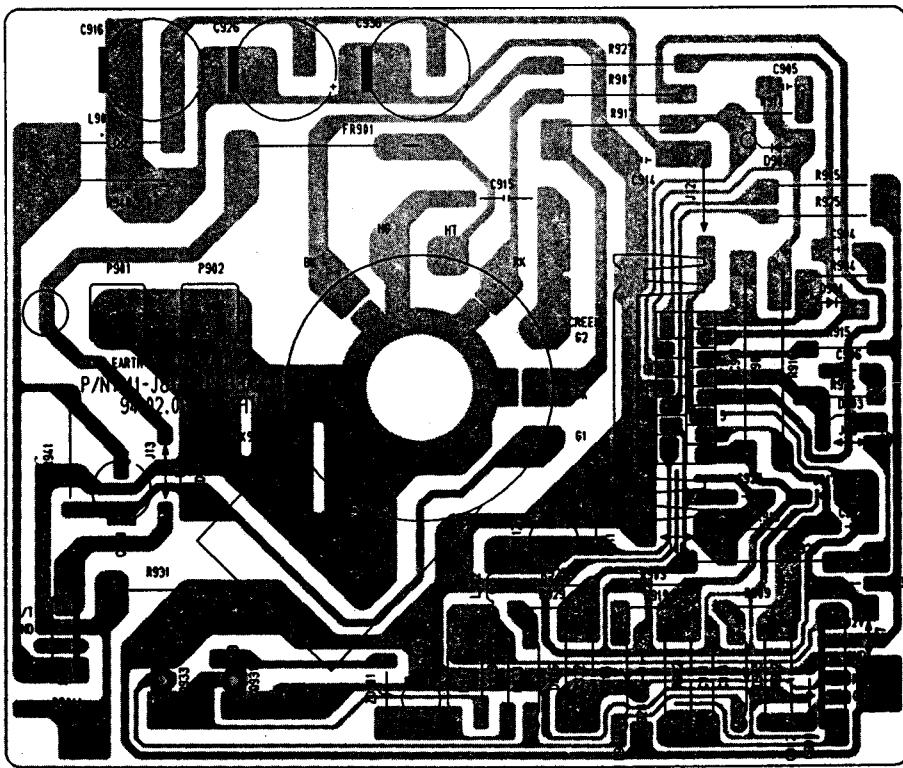
C1C6001	F1	C184	G5	C514	C4	C607	E2	C6011	G2	IC202	E4	J57	D3	J114	G3	J173	A2	P804B	E1	R23	B3	R153
C1	B2	C185	G5	C515	C4	C608	F2	C6012	G2	IC204	F4	J58	D3	J115	G2	J174	A3	P805B	F1	R26	B3	R154
C2	B2	C186	G5	C516	C3	C609	F2	C6013	G1	IC502	D4	J59	E3	J116	G2	J176	B3	PA101	A5	R29	B2	R155
C3	B2	C187	G5	C517	C3	C610	F2	C6014	F1	IC503	D3	J60	E3	J117	G2	J177	B2	PJ601	G3	R30	B2	R156
C4	B2	C190	G5	C518	D3	C611	F2	C6101	E2	IC504	C2	J61	D4	J118	G2	J178	A2	Q1	B2	R101	B4	R157
C5	B2	C191	G5	C519	D3	C612	F4	C6102	E2	IC505	D2	J62	C3	J119	F3	J179	A2	Q2	B2	R102	B4	R158
C6	B2	C192	E5	C520	D3	C613	F4	C6103	E2	IC601	E3	J63	E3	J120	G2	J180	A2	Q3	A1	R103	B3	R159
C7	B1	C193	E5	C521	D3	C614	E2	C6104	E2	IC602	E3	J64	E4	J121	G2	J181	C1	Q101	B3	R104	C3	R160
C8	B2	C194	D5	C524	C3	C615	E2	C6105	E2	IC603	E2	J65	B4	J122	F3	J183	C2	Q102	B4	R105	D5	R161
C9	B2	C195	E5	C525	C3	C616	F2	C6106	F1	C6101	E1	J66	D4	J123	D2	J184	C1	Q103	B4	R106	B3	R162
C11	B2	C196	E5	C526	D3	C617	F2	C6107	E1	J1	A5	J67	D4	J124	E3	J186	C2	Q104	B4	R107	B3	R163
C12	B2	C197	F5	C527	D3	C618	F2	C6108	E1	J3	B5	J69	D3	J125	E3	J187	B1	Q105	A3	R108	B4	R164
C13	B2	C198	E4	C528	D3	C621	F2	C6109	F1	J4	B5	J80	B3	J126	E1	J188	C2	Q106	E5	R109	A4	R165
C14	B2	C199	E5	C529	D3	C622	F2	C6110	F1	J5	B5	J71	E4	J127	E1	J192	D2	Q107	E4	R110	B4	R166
C15	B2	C200	E5	C530	D3	C623	F2	D2	C1	J6	A4	J72	C3	J128	E1	J193	A2	Q108	D5	R111	A4	R167
C16	B2	C201	E5	C531	D2	C624	G3	D6	A2	J7	B4	J73	C3	J129	D3	J194	A2	Q109	F5	R112	B4	R168
C17	B3	C202	E4	C532	D2	C625	G3	D9	C3	J8	B4	J74	D5	J120	F1	J195	A1	Q110	B3	R113	A4	R169
C18	B3	C203	G4	C533	D2	C626	G1	D10	C3	J9	B4	J75	E5	J131	F4	L1	B2	Q111	A3	R114	A3	R170
C19	C2	C204	E4	C534	C3	C627	G1	D101	B3	J10	B4	J76	D5	J132	F4	L2	B2	Q112	E4	R115	A4	R171
C30	A2	C205	E4	C535	C3	C628	G1	D102	C5	J11	B3	J77	E5	J133	C3	L3	B3	Q113	A3	R116	B4	R172
C101	B4	C206	E4	C536	C2	C629	F2	D103	A5	J14	C5	J78	D3	J134	C3	L4	B1	Q114	E4	R117	B4	R174
C102	B4	C207	G4	C537	C2	C630	F3	D104	A5	J17	C3	J79	E5	J135	D3	L101	B4	Q181	D5	R118	B4	R175
C103	C4	C208	D5	C538	C2	C631	E3	D105	A5	J18	B4	J80	G4	J136	D3	L102	A5	Q182	D5	R119	B3	R176
C104	B3	C209	D5	C539	C2	C632	E3	D106	A5	J19	B5	J81	E3	J137	D2	L103	A4	Q183	D5	R120	B4	R177
C105	B3	C210	F5	C540	D2	C633	F3	D107	A5	J20	B5	J84	D3	J138	D2	L181	F5	Q202	G4	R121	B4	R178
C106	B4	C211	F5	C541	D2	C634	F3	D108	B4	J22	C4	J85	G3	J139	D2	L182	F5	Q203	E4	R122	B4	R181
C107	A5	C212	F4	C542	D2	C635	F3	D109	B3	J24	D5	J86	E3	J140	D2	L184	F5	Q251	F4	R123	B4	R182
C108	C4	C213	E4	C543	D2	C636	F3	D110	B3	J25	C3	J87	E3	J141	G1	L185	G5	Q501	C3	R124	B4	R183
C109	C4	C214	F5	C544	D1	C637	F3	D111	A3	J26	B3	J88	D5	J144	D4	L186	G5	Q502	D5	R125	B4	R186
C110	C5	C215	F5	C545	D1	C638	F3	D181	G5	J27	B3	J89	E2	J145	D5	L187	E5	Q504	G4	R126	A4	R187
C111	C5	C216	F5	C546	D1	C639	F3	D201	F4	J31	C5	J90	F2	J146	F4	L201	D5	Q505	G4	R127	A4	R188
C112	C3	C217	F5	C547	D1	C640	F3	D202	F4	J32	C5	J91	G3	J147	E4	L202	D4	Q506	G4	R128	A5	R189
C113	A5	C218	D5	C548	D1	C641	F4	D251	A4	J33	C5	J92	E2	J148	D1	L501	D3	Q507	G4	R129	A5	R191
C114	A5	C251	F4	C549	E2	C642	F4	D252	A4	J34	C5	J93	G3	J149	D3	L502	D2	Q508	C3	R130	A5	R192
C115	A5	C253	F4	C550	D1	C643	F4	D253	A4	J35	C5	J94	G3	J150	D2	L601	E2	Q6001	F1	R131	A5	R193
C116	B5	C254	F4	C551	D1	C644	G3	D501	D3	J36	C5	J95	F3	J151	D1	L602	G1	Q6002	G1	R132	B4	R194
C117	B5	C255	F4	C552	C1	C645	G3	D502	D3	J37	C5	J96	F3	J152	D1	L603	G1	R3	B2	R133	C4	R195
C119	B5	C256	G4	C553	D1	C646	F3	D503	D3	J38	C5	J97	F3	J153	D1	L604	F3	R4	B2	R134	B5	R196
C120	B5	C257	F4	C554	C1	C648	E3	D504	E1	J39	C5	J98	G3	J154	D1	L605	F3	R5	B1	R135	C5	R198
C121	C5	C258	G4	C555	D2	C649	E3	D505	E1	J40	C4	J99	F3	J155	F1	L610	F2	R6	A2	R136	B5	R199
C122	C5	C259	F4	C556	C4	C650	F2	D506	G4	J41	C4	J100	F3	J156	D2	L684	A1	R7	B3	R139	C5	R201
C123	C5	C260	F4	C557	D4	C651	A1	D507	G4	J42	D4	J101	E3	J157	D2	L685	A1	R8	B2	R140	E4	R203
C124	B5	C269	F4	C558	D4	C696	A1	D508	G4	J45	C3	J102	G3	J158	D2	L6001	F1	R9	B3	R141	A5	R204
C125	A3	C270	F4	C559	D2	C834	B5	D509	G4	J46	C3	J103	E2	J159	F2	P257	A2	R10	C2	R142	D5	R205
C126	E5	C501	D5	C560	C4	C6001	F1	D601	E2	J47	C3	J104	E4	J160	E1	P258	A2	R11	C2	R143	A5	R208
C127	B4	C502	D5	C561	C1	C6002	F1	IC1	B2	J48	C3	J105	F2	J161	E1	P259	A1	R12	B3	R144	A5	R209
C128	B3	C503	C5	C563	C3	C6003	F1	IC2	B2	J49	C4	J106	E1	J162	E1	P260	A1	R13	A2	R145	B5	R210
C129	A2	C504	C4	C600	G1	C6004	F2	IC3	B1	J50	D4	J107	C3	J165	E1	P261	A1	R14	A2	R146	B5	R211
C130	D5	C505	D4	C601	E3	C6005	F1	IC101	B4	J51	D3	J108	E3	J166	D1	P251B	A4	R15	A3	R147	B5	R215
C131	C4	C509	D4	C602	E2	C6006	F1	IC102	C5	J52	D3	J109	F3	J167	E1	P252B	A3	R16	B3	R148	A5	R216
C165	B5	C510	D4	C603	E2	C6007	F1	IC103	A5	J53	D3	J110	F3	J168	A3	P253B	A2	R18	B2	R149	B5	R217
C181	F5	C511	D4	C604	E2	C6008	G2	IC104	B3	J54	D3	J111	G2	J170	A3	P254B	A2	R20	B3	R150	B5	R218
C182	F5	C512	D5	C605	E2	C6009	G1	IC182	D5	J55	D3	J112	G2	J171	B3	P501B	C5	R21	B3	R151	A4	R251
C183	F5	C513	C4	C606	E2	C6010	G1	IC201	E5	J56	D3	J113	F3	J172	B3	P803B	B1	R22	B3	R152	B5	R252

Component Location Guide for Main2

R153	B5	R253	G1	R549	E3	R6102	E2
R154	B5	R254	F4	R550	E3	R6103	E2
R155	B5	R255	F4	R551	D1	R6104	E2
R156	B5	R256	F4	R552	C3	R6105	E2
R157	B5	R257	F4	R560	G4	R6106	F1
R158	B5	R259	G3	R561	G4	R6107	E1
R159	B4	R260	G4	R562	G4	R6108	F1
R160	A2	R261	G4	R563	G4	R6109	F1
R161	A4	R262	F4	R564	G4	R6110	A3
R162	B3	R263	G2	R565	G4	R6111	A3
R163	B3	R264	G3	R566	G4	SK101	G4
R164	A3	R265	F4	R567	G4	SK102	G1
R165	A3	R266	D1	R568	G4	SW101	A2
R166	A3	R267	D1	R569	G4	SW102	A3
R167	E3	R268	G1	R570	G4	SW103	A3
R168	A3	R505	D4	R571	G4	SW104	A3
R169	B5	R506	C4	R572	D3	SW105	A3
R170	A3	R510	D4	R573	D3	SW106	A3
R171	B5	R511	D4	R601	F2	T181	F5
R172	A3	R512	D4	R602	F2	VL181	E5
R174	A5	R513	C4	R603	E4	VR181	G5
R175	E5	R514	C3	R604	E4	X1	B2
R176	F5	R515	C3	R605	E1	X101	B5
R177	F5	R516	D4	R606	E1	X501	D1
R178	D4	R517	D4	R607	G2	X502	C1
R181	F5	R518	D4	R608	G2	X601	E2
R182	F5	R519	D4	R609	F2	Z181	F5
R183	G5	R520	C4	R610	G2	Z182	F5
R186	E4	R521	C4	R611	G1	Z201	D5
R187	B4	R522	C4	R612	G1	Z203	E4
R188	F5	R523	C3	R613	F3	ZD101	B3
R189	G5	R524	C4	R614	E3	ZD102	C4
R191	G5	R525	C3	R615	E3	ZD103	C4
R192	G5	R526	C3	R616	G3	ZD104	C4
R193	G5	R527	D3	R617	G3	ZD106	A5
R194	E5	R528	D3	R618	E4	ZD201	E4
R195	E5	R529	D3	R619	E4	ZD501	C4
R196	E5	R530	D2	R620	E2	ZD502	C3
R198	E5	R531	D2	R621	G3	ZD503	D4
R199	F5	R532	D2	R622	G3	ZD504	D4
R201	E4	R533	D2	R695	G3	ZD505	C4
R203	G4	R534	C3	R696	G3	ZD601	A1
R204	G4	R535	C3	R697	A1	ZD602	G3
R205	G4	R536	C3	R698	A1		
R208	E4	R537	C2	R6001	F1		
R209	E4	R538	C2	R6002	F1		
R210	E4	R539	C4	R6003	F1		
R211	E4	R540	D2	R6004	F1		
R215	F5	R543	D2	R6005	F1		
R216	F5	R544	E1	R6006	F1		
R217	F5	R545	E1	R6007	F1		
R218	F5	R546	D1	R6008	F1		
R251	E4	R547	D1	R6011	F1		
R252	E4	R548	D1	R6101	E2		

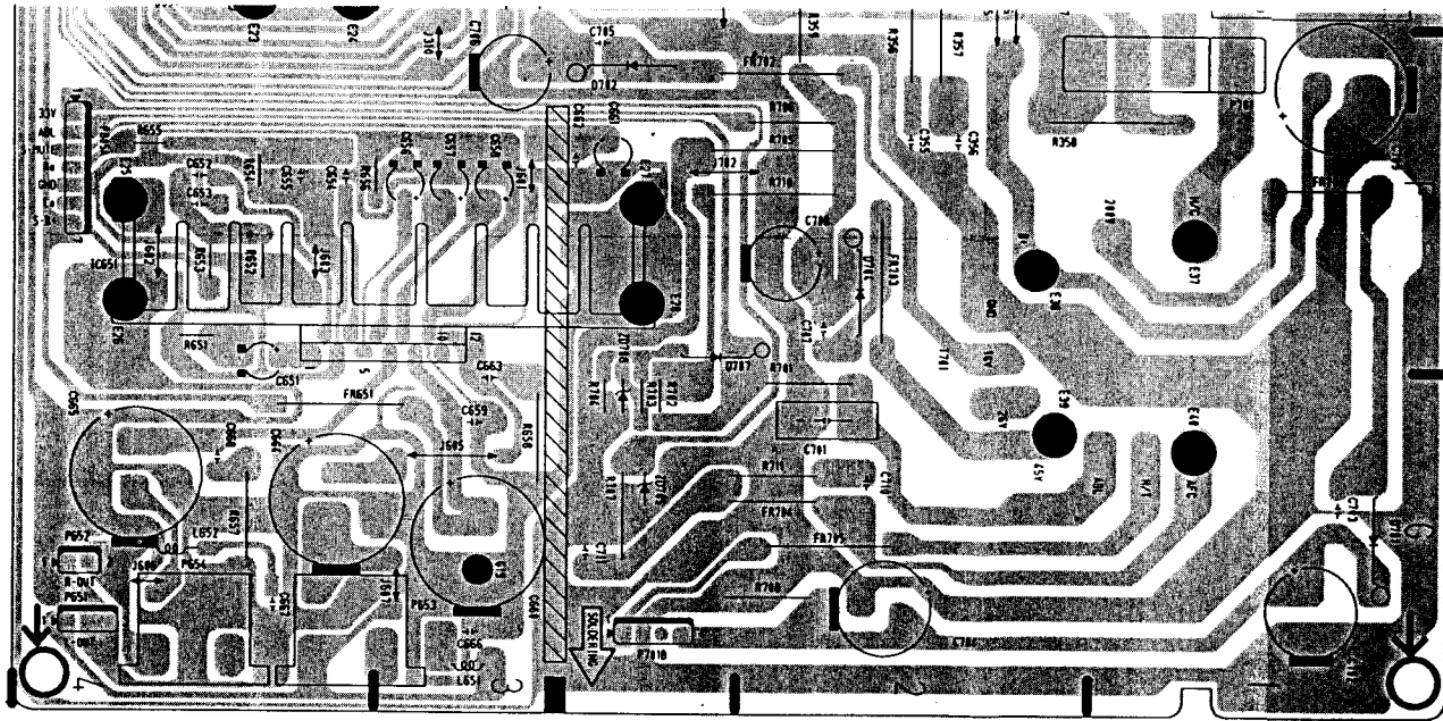
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C352	D3	C710	G2	D357	E4	E21	D4	G11	E2	J807	C3	R351	D4	R813	C2
C353	D3	C711	G3	D361	E4	E22	D4	G12	E1	J808	A1	R352	D4	R814	C2
C354	E4	C801	A2	D451	E2	E23	E4	G13	E3	J809	A1	R353	E4	R815	C2
C355	F2	C802	A1	D452	D2	E24	E4	G14	B2	J810	A4	R354	E4	R816	C3
C356	F2	C803	A1	D453	E2	E25	F4	G15	B4	J811	B4	R355	E2	R817	A4
C357	E2	C804	C1	D701	G1	E26	F4	G16	B4	J812	A4	R356	E2	R818	A4
C359	D3	C805	B1	D702	F3	E27	F3	G17	D4	J813	A4	R357	E2	R819	A4
C451	E3	C806	B1	D704	F2	E28	F3	G18	D3	J814	A3	R358	E2	R820	
C452	E3	C809	B2	D707	F2	E29	D2	G19	G3	J815	A3	R359	E2	R821	A4
C453	E3	C810	C2	D801	B1	E30	D2	IC351	E4	J818	E4	R451	E3	R822	A3
C454	E1	C811	C2	D802	C1	E31	D2	IC651	F4	J821	D4	R452	E3	R823	A3
C455	D1	C812	C3	D803	C2	E32	E2	IC801	C2	J822	D4	R453	E3	R825	A4
C456	D1	C813	C2	D804	C2	E33	D1	IC802	C3	J823	D4	R454	E2	R827	C3
C457	E2	C814	C1	D805	C2	E34	D1	IC803	D3	J825	D2	R455	E2	R828	C3
C458	E2	C815	A4	D807	C2	E35	E1	IC805	A4	J826	C4	R457	E2	R830	A4
C460	D2	C816	C3	D808	C2	E36	E1	J301	D4	L351	D2	R458	E2	R831	B4
C651	F4	C817	C3	D822	B4	E37	F1	J302	E4	L453	E1	R651	F4	R832	C3
C652	F4	C820	D4	D823	B3	E38	F2	J303	E4	L651	G3	R652	F4	R851	D2
C653	F4	C821	C4	D824	C4	E39	G2	J304	E4	L652	G4	R653	F4	RL801	A3
C654	F4	C822	C4	D825	C4	E40	G1	J305	E4	L800	C4	R654	F4	SW801	A2
C655	F4	C824	B4	D826	A3	F801	A3	J306	E3	L801	C3	R655	F4	T451	E3
C656	F3	C825	B3	D827	A3	FB451	D1	J307	E3	L802	C4	R656	F4	T701	F2
C657	F3	C826	B4	D828	B4	FB452	E1	J308	E3	P651	G4	R657	G4	T801	A1
C658	F3	C827	B4	D831	D4	FB801	B2	J309	E3	P652	G4	R658	G3	T802	B1
C659	G3	C828	A4	D832	D3	FB802	C2	J310	E3	P653	G4	R703	G3	T803	B3
C660	G3	C829	D4	D833	D3	FB803	B4	J401	E3	P654	G4	R704	G3	TH801	B2
C661	F3	C831	B4	D834	C4	FB804	C2	J402	E3	P701	F1	R705	F3	ZD358	E4
C662	F3	C832	C4	E1	B2	FB806	C4	J405	E2	P801	A2	R706	F3	ZD359	E4
C663	G3	C833	C4	E2	B2	FB809	B4	J406	E2	P802	B2	R707	G3	ZD360	E4
C664	G4	C834	D3	E3	B2	FR351	D4	J601	F3	P701B	G3	R708	G3	ZD705	G3
C665	G4	C835	B4	E4	B2	FR651	G4	J602	F4	P803A	A4	R710	F3	ZD708	G3
C666	G3	C837	B4	E5	B3	FR701	F1	J603	F4	P804A	D4	R711	G3	ZD808	C3
C667	G4	C838	B4	E6	C3	FR702	F3	J605	G3	P805A	F4	R801	C1	ZD820	D4
C668	G4	C839	C4	E7	B3	FR704	G3	J606	G4	Q351	E3	R803	A2	ZD828	A4
C701	G2	C840	A4	E8	C3	FR705	G2	J607	G3	Q451	E3	R804	C1	ZNR801	A2
C702	G1	C850	D3	E13	C4	G1	D3	J702	F3	Q452	E1	R805	C1		
C703	G1	C851	D3	E14	C4	G2	D2	J800	A2	Q801	C3	R806	C1		
C704	G2	D351	D4	E15	C4	G5	D1	J801	A2	Q802	A4	R807	C1		
C705	F3	D352	D4	E16	D4	G6	E1	J802	A3	Q803	A4	R808	C2		
C706	F3	D353	D4	E17	D3	G7	D1	J803	B1	Q804	A4	R809	C2		
C707	F2	D354	D4	E18	D3	G8	E1	J804	C3	Q805	A3	R810	C2		
C708	F2	D355	E4	E19	D1	G9	E1	J805	D3	Q806	A3	R811	C3		

CPT Printed Circuit Board(Component Side)



G

F



4

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