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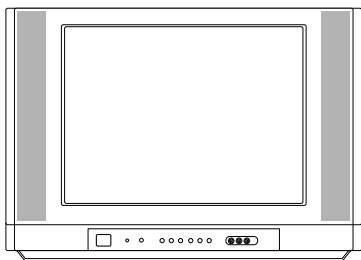
COLOR TV SERVICE MANUAL

CHASSIS : MC-019A

MODEL : RE-21FB50RX

CAUTION

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



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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 ; 15KV: 14-19 inch, 26 ; 15KV: 19-21 inch,

29.0 ; 15KV: 25-29 inch, 30.0 ; 15KV: 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 $1M\Omega$ and $5.2M\Omega$.

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.

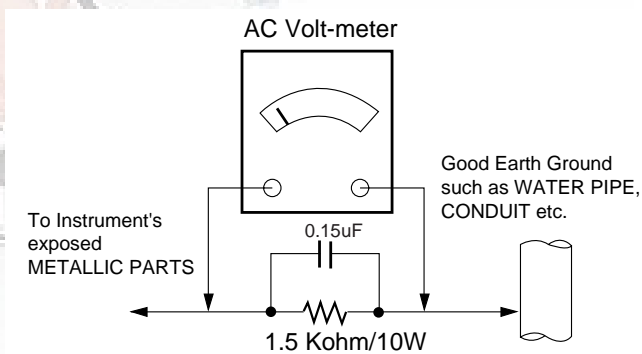
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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 fieldeffect

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 mall wirebrush (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.
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.

CAUTION: Work quickly to avoid overheating the circuitboard printed foil.

TeensPorn.us

- 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 : Specification and others are subject to change without notice for improvement.

- **Video input system:**

PAL-B/G, D/K, I/I
SECAM-B/G, D/K, L/L'
NTSC M
NTSC 4.43

SOUND IF : 33.4MHz (B/G)
32.9MHz (I/I)
32.4MHz (D/K)
34.4MHz (M)

- **Intermediate Frequency (Unit : MHz)**

VISION IF : 38.9MHz
COLOR IF : 34.47MHz(4.43)
35.32MHz(3.58) : NTSC-M
(VIF-4.25000MHz): SECAM
VIF-4.40625MHz

- **Power requirement :** 110~240V, 50/60Hz

- **Power consumption :** 95

- **STAND-BY :** 3W

- **Tuning range**

Band	For TV				For CATV
	B/G	D/K	I/I	NTSC	
VHF-Low	Ch2-4	Ch1-5		Ch2-13	S1'-S3', S1
VHF-High	Ch5-12	Ch6-12	Ch4-13		S2-S10, S11-S20
Hyper					S21-S41
UHF	Ch21-69			Ch14-69	

- **Tuning system :**

FVS
100 Programme memory
200 Programme memory(W/O TXT)

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

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

- **Voice coil impedance :** 8 ohm

- **Sound output :** 7W_i, 2(MAX)
Dual/Stereo : A2/NICAM(Optional)

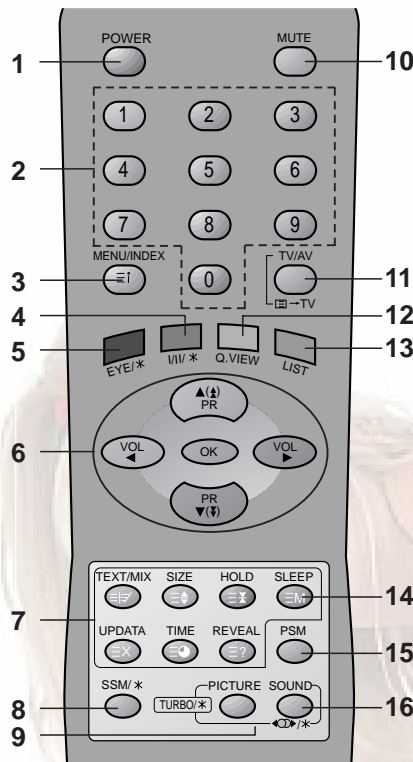
- **External connection :** Head Phone Jack
A/V in : 2
PERI Connector(Full Scart) : 1
DVD in

- **External In/Output**

Audio-In:0.5Vrms±3dB, over 10Kohm
Audio-Out:0.5Vrms±3dBb, below 1Kohm
Video-In/Out:1Vp-p±3dB, 75ohm
DVD In Y: 1Vp-p±3dB
Pb,Pr: 0.7Vp-p±3dB

- **Feature :** Auto programme/Manual programme
CSM (Color Status Memory)
Auto Sleep
Turbo Picture & Sound
Programme Editing
PSM (Picture Status Memory)
Teletext (TOP/FLOF/LIST)
ACMS
Auto Volume Level
Game
SSM(Sound Status Memory)
Favorite Program

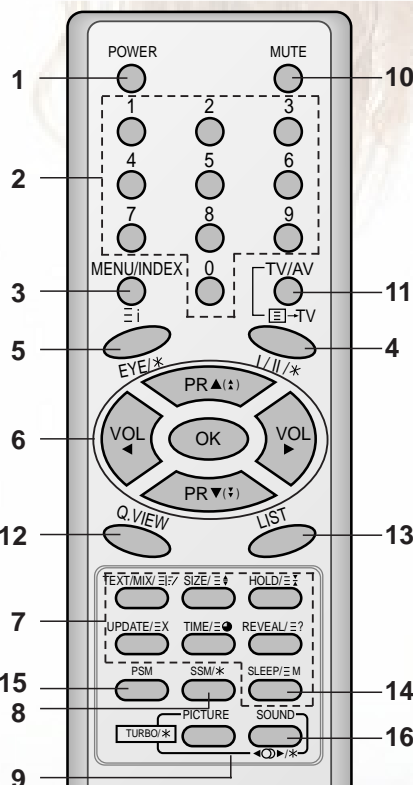
DESCRIPTIONS OF CONTROLS



All the functions can be controlled with the remote control handset. Some functions can also be adjusted with the buttons on the front panel of the set.

Remote control handset

Before you use the remote control handset, please install the batteries. See the next page.



(With TELETEXT)

1. **POWER**
switches the set on from standby or off to standby.
2. **NUMBER BUTTONS**
switches the set on from standby or directly select a number.
3. **MENU (or INDEX)**
selects a menu.
selects an index page in the teletext mode (only TELETEXT models).
4. **I/II/* (option)**
selects the language during dual language broadcast. (option)
selects the sound output.
5. **EYE/* (option)**
switches the eye function on or off.
6. **▲(▲) / ▼(▼) (Programme Up/Down)**
selects a programme or a menu item.
switches the set on from standby.
scans programmes automatically.
◀ / ▶ (Volume Up/Down)
adjusts the volume.
adjusts menu settings.
OK
accepts your selection or displays the current mode.
7. **TELETEXT BUTTONS (option)**
These buttons are used for teletext.
For further details, see the 'Teletext' section.
8. **SSM/* (option) (Sound Status Memory)**
recalls your preferred sound setting.
9. **TURBO PICTURE / SOUND BUTTON (option)**
selects Turbo picture and sound.

10. MUTE

switches the sound on or off.

11. TV/AV

selects TV or AV mode.

clears the menu from the screen.

switches the set on from standby.

12. Q.VIEW

returns to the previously viewed programme.

selects a favorite programme.

13. LIST

displays the programme table.

14. SLEEP

sets the sleep timer.

15. PSM (Picture Status Memory)

recalls your preferred picture setting.

16. SURROUND (◀▶/*) (option)

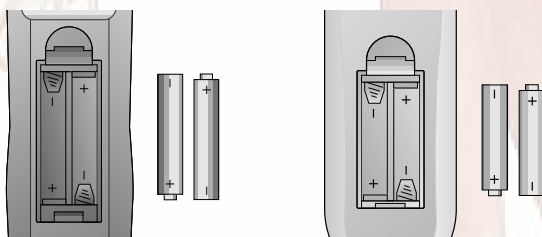
selects surround sound.

*** : No function**

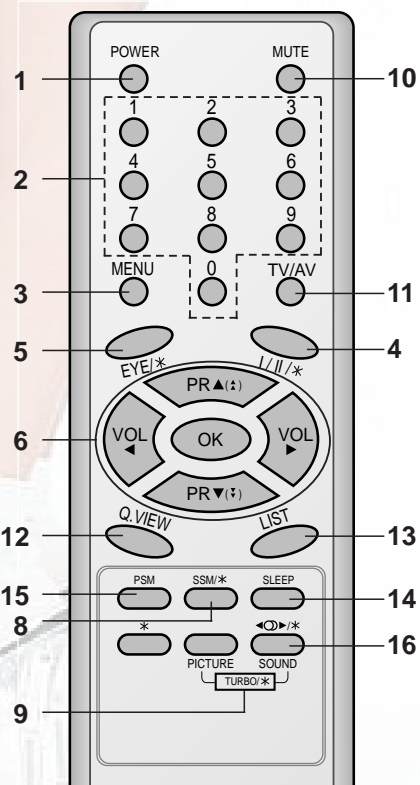
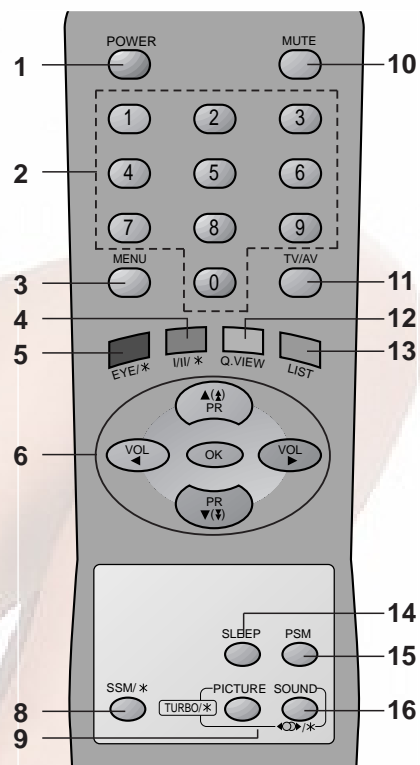
COLOURED BUTTONS : These buttons are used for teletext (only TELETEXT models) or programme edit.

Battery installation

The remote control handset is powered by two AAA type batteries. To load the batteries, turn the remote control handset over and open the battery compartment. Install two batteries as indicated by the polarity symbols (+ and -) marked inside the compartment.



Note : To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.

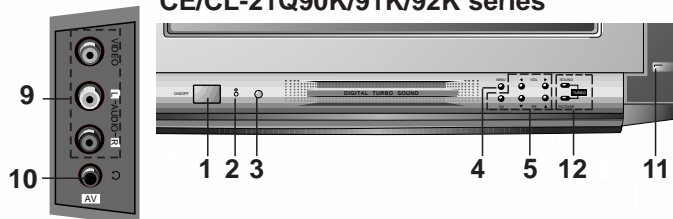


(Without TELETEXT)

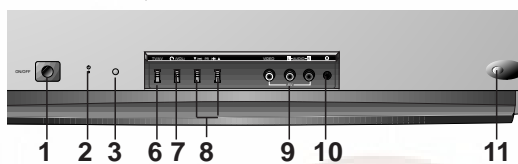
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Front panel

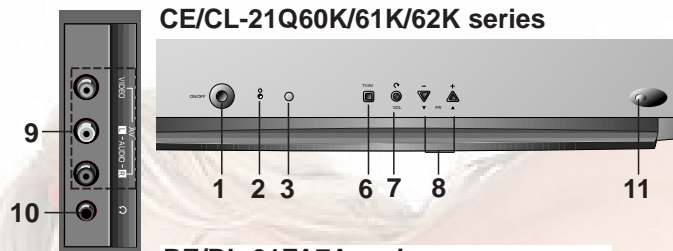
CE/CL-21Q90K/91K/92K series



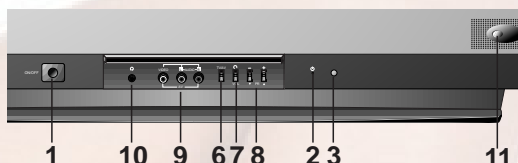
CE/CL-21Q64K/65K/66K series



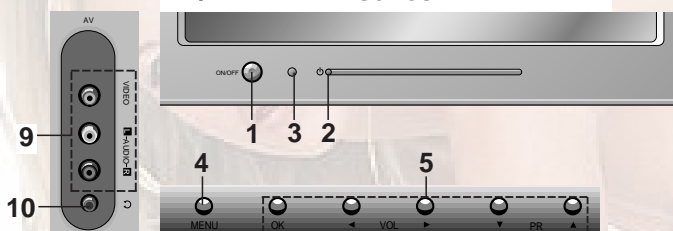
CE/CL-21Q60K/61K/62K series



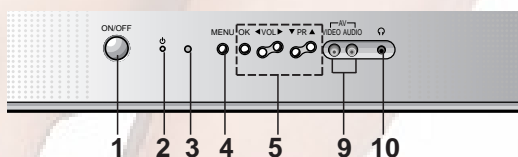
CE/CL-21Q20K/21K/22K series



RE/RL-21FA7A series



RE/RL-21FB30 series



(Side panel)

(Top of panel)

1. **MAIN POWER (ON/OFF)**
switches the set on or off.
2. **POWER/STANDBY INDICATOR**
illuminates brightly when the set is in standby mode.
dims when the set is switched on.
blinks when signal is input from the remote control.
3. **REMOTE CONTROL SENSOR**
4. **MENU (option)**
selects a menu.
5. **OK**
accepts your selection or displays the current mode.
◀ / ▶ (Volume Up/Down)
adjusts the volume.
adjusts menu settings.
▲ / ▼ (Programme Up/Down)
selects a programme or a menu item.
switches the set on from standby.
6. **TV/AV (option)**
selects TV or AV mode.
clears the menu from the screen.
switches the set on from standby.
7. **⌂ (Function) (option)**
selects volume, EYE (option), picture items or brief auto programme while the menus not display.
8. **+/- (▲/▼) (option)**
adjusts the function or selects a programme.
switches the set on from standby.
9. **AUDIO/VIDEO IN SOCKETS (AV) (option)**
Connect the audio/video out sockets of external equipment to these sockets.
10. **HEADPHONE SOCKET (option)**
Connect the headphone plug to this socket.
11. **EYE (option)**
adjusts picture according to the surrounding conditions.
12. **TURBO SOUND / PICTURE (option)**
switches Turbo sound or Turbo picture function on or off.

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. (Fig. 2-1).

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 5 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.

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.

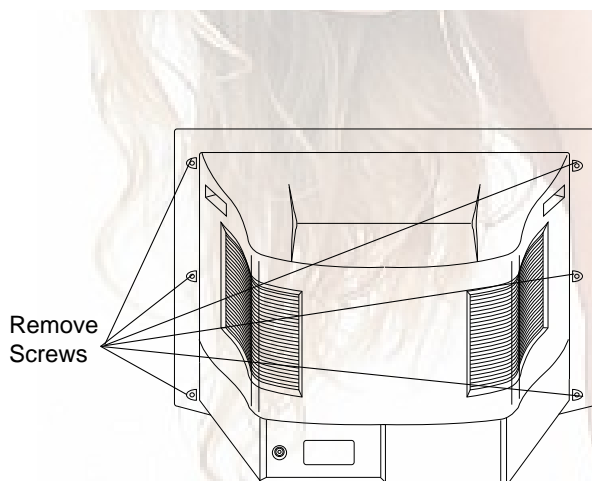


Fig. 2-1

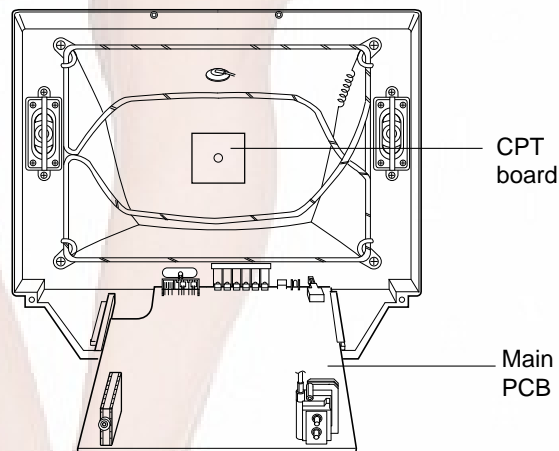


Fig. 2-2

ADJUSTMENT

● Safety Precautions

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 110~240Vac $\pm 10\%$, 50/60Hz.
6. The adjustment of TV should be performed after warming up for 20 minutes.

● Test Equipment required

1. Multimeter (volt meter)
2. Oscilloscope
3. 10:1 PROBE
4. Color Analyzer

● CDL Data Adjustment(LINE SVC-0)

- 1) Press the SVC button to get into the SVC-0 Mode.
- 2) Press the Channel UP/DOWN button to select CDL12.
- 3) Press the Volume UP/DOWN button until the CDL data is the same as the Table below.

	21" FCD	14,16" CPT	15" CPT	20,21" CPT
CDL Data	12	8	10	12
Remark	FLAT		FLAT	

- 4) Press the OK(■) button to memorize the data.

● OPTION Data Adjustment(OPTION-1,OPTION-2)

- 1) Press OK buttons on both TV set and Remote Controller at the same time to get into SVC mode.
- 2) Press the Yellow button several times to find OPTION-1 or OPTION-2.
- 3) Input the correspond OPTION data referring to Table below with the numeric buttons.
- 4) Press the OK(■) button to memorize the data.

Table 1. OPTION 1 Function

Option	Code	Function	Remark
C MUTE	0	ACTIVE	
	1	NOT ACTIVE	
DVD	0	W/O DVD	
	1	DVD(REAR JACK)	
2 IN 1	0	W/O 2 IN 1 TUNER	
	1	WITH 2 IN 1 TUNER	
TOP	0	FLOF TXT	
	1	TOP TXT	
SCART	0	PHONO JACK	
	1	SCART JACK	

Option	Code	Function	Remark
TBS	0	W/O TBS	
	1	WITH TBS	
EYE	0	W/O EYE	
	1	WITH EYE	
4 KEY	0	W/O 4 KEY	
	1	WITH 4 KEY	
MONO	0		
	1	FORCED MONO	

Table 2. OPTION 2 Function

Option	Code	Function	Remark
BCF	0	Auto Abnormal ON	
	1	Not Used	
GAME	0	W/O GAME PACK	
	1	WITH GAME PACK	
200 PRO	0	100 PRO	
	1	200 PRO	
CHA + AU	0	Except China,Austrailia	
	1	China,Austrailia	
DUAL	0	W/O DUAL	
	1	WITH DUAL	
ACMS	0	Austrailia	
	1	Except Austrailia	
T-SCH	0	W/O TURBO SEARCH	
	1	WITH TURBO SEARCH	
T-P/S	0	W/O TURBO P/S	
	1	WITH TURBO P/S	
CURVE	0	NORMAL VOLUME CURVE	
	1	M-A,India VOLUME CURVE	

Table 3. OPTION 3 Function

Option	Code	Function	Remark
RESERVED	0	***	
	1	***	
HOTEL	0	W/O HOTEL	
	1	W/HOTEL	
SYSTEM	0	BG/L	
	1	BG/I/DK	
	2	BG/I/DK/M	
	3	BG/I/DK DUAL	
	4	BG/I/DK/M DUAL	
	5	2nd IF BG	
	6	2nd IF I	
	7	2nd IF DK	

Option	Code	Function	Remark
OSD-L (EU)	0	ENG. ONLY	English
	1	EU-7EA	English,Deutsch,Francais,Italiano,Espanol
	2	EU ALL	English,,Nederlands,Svenska,Dansk,Suomi,Portugues,Romaneste,Polski,Cesky,Pyccknn
	3	EU EAST	English,Romaneste,Polski,Cesky,Pyccknn,Magyar
OSD-L (M-ASIA)	0	ENG. ONLY	English
	1	ARABIC	English,Arab,,Urdu,French
	2	PARSI	English,Parsi,Urdu,French
	3	ARAB,FARSI,URDE	English,French,Arab,Urdu,Parsi
OSD-L (E-ASIA)	0	ENG.ONLY	English
	1	ASIA-ALL	English,Malay,Vietnam,Indonesian,Thai
OSD-L (CH+HI)	0	ENG.ONLY	English
	1	E+CHINA	English,Chinese
	2	E+HINDI	English,Hindi
TXT-L (EU)	0	W-EU	
	1	E-EU	
	2	CYRILLIC	
	3	UKRAINIAN	
TXT-L (E-ASIA)	0	WEST-EU	
	1	ARABIC	
TXT-L (FARSI)	0	WEST-EU	
	1	FARSI	

● AGC Adjustment (SERVICE 1)

Test Point : AGC TP (C101)
Adjust : Remote Controller

- 1) Connect RF signal (70dB±0.2dB) and turn on the TV.
i Standard adjustment Channel
- EU 05 Ch. (fr= 175.25MHz)
- 2) Press the OK buttons on TV set and Remote Controller at the same time to get into SVC-0 mode.
- 3) Press the Channel UP/DOWN button on the Remote Controller several times to find AGC??.
- 4) Press the Volume UP/DOWN button until the AGC Voltage is the same as the Table below.
- 5) Press the OK(■) button to memorize the data.

Tuner P/N	6700VPF009G	6700VPF016A
Marker	LG Innotek(W/S TUNER)	DAEWOO(W/S TUNER)
AGC Voltage	2.7± 0.05V	2.7± 0.05V

Tuner P/N	6700VPF009S	
Marker	LG Innotek(TBS TUNER)	
AGC Voltage	2.5± 0.05V	

● FOCUS Adjustment

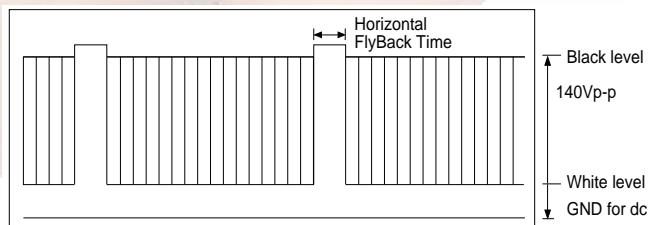
Test Point : RK (Red Cathode of CPT Board)
Adjust : Screen Volume of FBT

- 1) Tune the TV set to receive a PAL 05CH.
- 2) Adjust the Focus Volume of FBT for best focus.

● Screen Voltage Adjustment

Test Point : Observing Display
Adjust : Focus Volume of FBT

- 1) Connect the probe of oscilloscope to the RK (Red Cathode) of CPT Board.
- 2) Set the oscilloscope to 50V/div and 20Us/div and after putting GND line upon the lowest grid line of the scope by pressing GND button,enter into DC mode.
- 3) Tune the TV set to receive a PAL-B/G 05CH.
- 4) Adjust Screen Volume of FBT so that the waveform is the same as below figure (DC 140±3V) .



14"	OTHERS
DC 130V±3 V	DC 140V±3 V

● White Balance Adjustment.(LINE SVC-0)

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

- 1) Tune the TV set to receive an 100% white pattern.
- 2) Press OK(■) buttons on TV set and remote controller at the same time to get into SVC mode.
- 3) Press Yellow button on remote controller. (Standard mode)
- 4) Press Channel UP/DOWN button for desirous function adjustment.
- 5) Adjust VOL+ or VOL-button in each status of "RG-"/"BG-" for X=272±8, Y=288±8 with color analyzer.(Europe Model: X=288±8, Y=295±X=272±8, 11,000K)

Status	Initial Data	Remark
RG	31	
GG	31	
BG	31	
BLO-R	31	
BLO-G	31	

- 7) Press the OK(■) button to memorize the data.

● Deflection Data Adjustment (Line SVC-1)

NOTE: To enter SVC mode, press "OK" buttons on both TV set and the Remote control at the same time.

1. Preparation for Deflection Adjustment

- 1) At SVC mode, press the Yellow colored button.
And then, deflection data adjustment OSD (SVC1 mode) will be displayed.
- 2) Tune the TV set to receive a PAL 05 CH and set the ARC mode is standard.

2. Deflection Initial Setup Data

Status	Default	21" FLAT S/S	21" FLAT LG
VL	31	31	31
VA	31	31	31
VS	31	31	31
HS	31	31	31
SC	25	25	25

3. Deflection Adjustment Procedure

VL (Vertical Linearity)

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

VA (Vertical Amplitude)

Adjust so that the circle of a digital circle pattern may be located within the effective screen of the CPT.

SC (Vertical "S" Correction)

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

VS (Vertical Shift)

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

HS (Horizontal Shift)

Adjust so that the vertical center line of a digital circle pattern is in accord with geometric vertical center of the CPT.

Press the OK(■) button to memorize the data.

PURITY & CONVERGENCE ADJUSTMENT

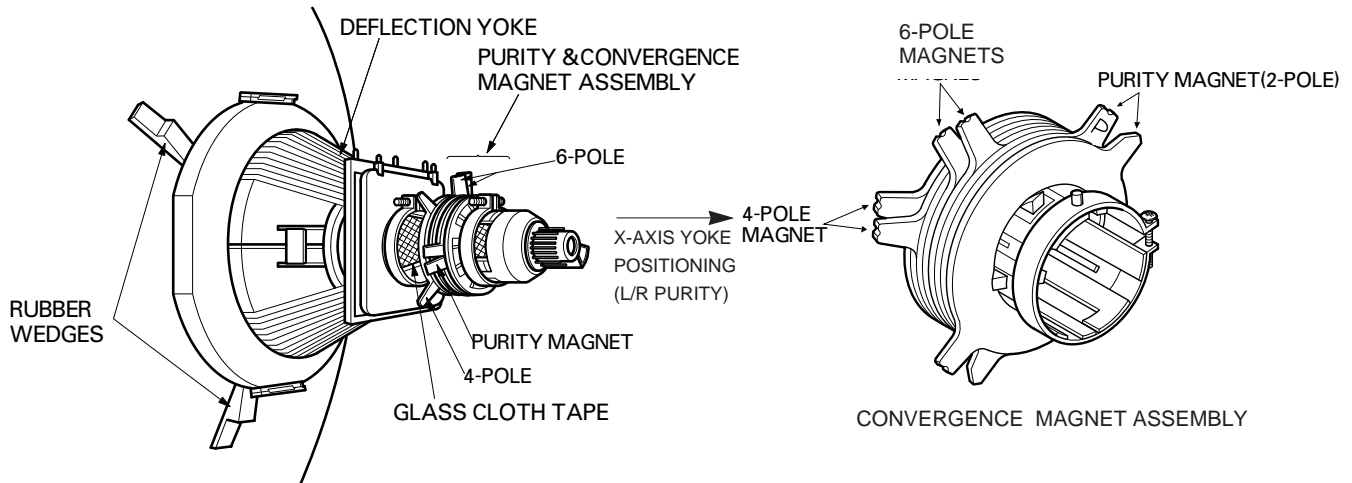
Caution:

Convergence and Purity have been factory aligned. Do not attempt to tamper with these alignments.

However, the effects of adjacent receiver components, or replacement of picture tube or deflection yoke may require the need to readjust purity any convergence.

5. Reconnect the internal degaussing coil.

6. Position the beam bender locking rings at the 9 o'clock position and the other three pairs of tabs (2,4 and 6 pole magnets) at the 12 o'clock position.



Purity Adjustment

This procedure DOES NOT apply to bonded yoke and picture tube assemblies.

The instrument should be at room temperature (60 degrees F or above) for six (6) hours and be operating at low beam current (dark background) for approximately 20 to 30 minutes before performing purity adjustments.

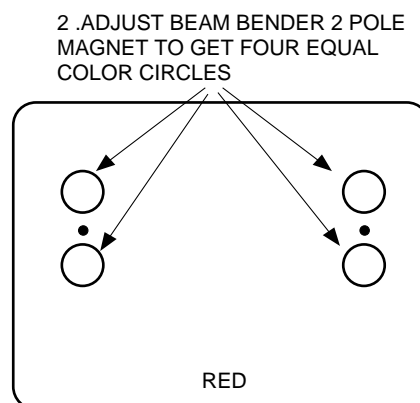
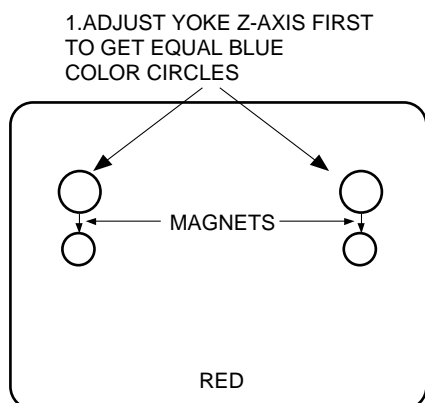
CAUTION: Do not remove any trim magnets that may be attached to the bell of the picture tube.

1. Remove the AC power and disconnect the internal degaussing coil.
2. Remove the yoke from the neck of the picture tube.
3. If the yoke has the tape version beam bender, remove it and replace it with a adjustable type beam bender (follow the instructions provided with the new beam bender)
4. Replace the yoke on the picture tube neck, temporarily remove the three (3) rubber wedges from the bell of the picture tube and then slide the yoke completely forward.

7. Perform the following steps, in the order given, to prepare the receiver for the purity adjustment procedure.

- a. Face the receiver in the "magnetic north" direction.
- b. Externally degauss the receiver screen with the television power turned off.
- c. Turn the television on for approximately 10 seconds to perform internal degaussing and then turn the TV off.
- d. Unplug the internal degaussing coil. This allows the thermistor to cool down while you are performing the purity adjustment. DO NOT MOVE THE RECEIVER FROM ITS "MAGNETIC NORTH" POSITION.
- e. Turn the receiver on and obtain a red raster by increasing the red bias control (CW) and decreasing the bias controls for the remaining two colors (CCW).
- f. Attach two round magnets on the picture tube screen at 3 o'clock and 9 o'clock positions, approximately one (1) inch from the edge of the mask (use double-sided tape).

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8. Referring to above, perform the following two steps:
 - a. Adjust the yoke Z-axis to obtain equal blue circles.
 - b. Adjust the appropriate beam bender tabs to obtain correct purity (four equal circles).
9. After correct purity is set, tighten the yoke clamp screw and remove the two screen magnets.
10. Remove the AC power and rotate the receiver 180 degrees (facing "magnetic south").
11. Reconnect the internal degaussing coil.
12. Turn the receiver on for 10 seconds (make sure the receiver came on) to perform internal degaussing, and then turn the receiver off.
13. Unplug the internal degaussing coil.
14. Turn on the receiver and check the purity by holding one (1) round magnet at the 3 o'clock and a second round magnet at 9 o'clock position. If purity is not satisfactory, repeat steps 8 through 14.
15. Turn off the receiver and reconnect the internal degaussing coil.

Convergence Adjustment

Caution: This procedure DOES NOT apply to bonded yoke and picture tube assemblies. Do not use screen magnets during this adjustment procedure. Use of screen magnets will cause an incorrect display.

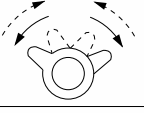
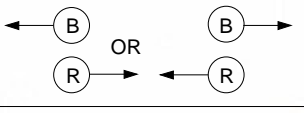
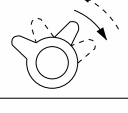
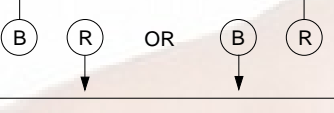
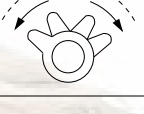
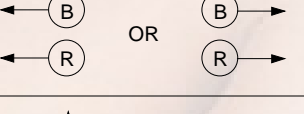

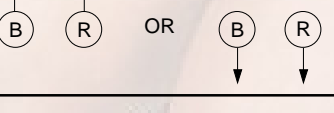
1. Remove AC power and disconnect the internal degaussing coil.
2. Apply AC Power and set the brightness to the Picture Reset condition. Set the Color control to minimum.
3. Make a horizontal line.
4. Adjust the Red, Green and Blue Bias controls to get a dim white line.
5. Restore the screen by removing the horizontal line.

6. Reconnect the internal degaussing coil and apply AC power.
7. Turn the receiver on for 10 seconds to perform internal degaussing and then turn the receiver off again.
8. Unplug the internal degaussing-coil.
9. Turn on the receiver, connect a signal generator to the VHF antenna terminal and apply a crosshatch signal.

Caution: During the convergence adjustment procedure, be very careful not to disturb the purity adjustment tabs are accidentally move, purity should be confirmed before proceeding with the convergence adjustments.

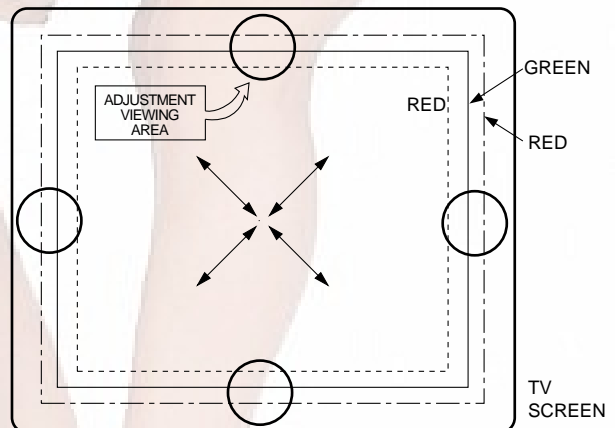
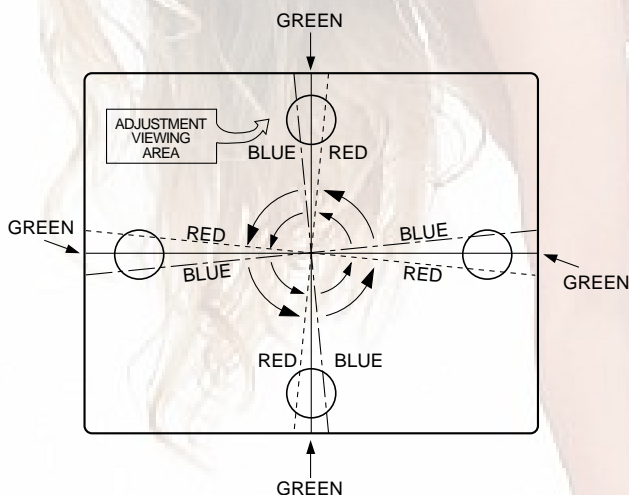
Note: Make sure the focus is set correctly on this instrument before proceeding with the following adjustment.

10. Converge the red and blue vertical lines to the green vertical line at the center of the screen by performing the following steps (below TABLE).
 - a. Carefully rotate both tabs of the 4-pole ring magnet simultaneously in opposite directions from the 12 o'clock position to converge the red and blue vertical lines.
 - b. Carefully rotate both tabs of the 6-pole ring magnet simultaneously in opposite directions from the 12 o'clock position to converge the red and blue (now purple) vertical lines with the green vertical line.
11. Converge the red and blue horizontal with the green line at the center of the screen by performing the following steps. (below TABLE)
 - a. Carefully rotate both tabs of the 4-pole ring magnet simultaneously in the same direction (keep the spacing between the two tabs the same) to converge the red and blue horizontal lines.
 - b. Carefully rotate both tabs of the 6-pole ring magnet simultaneously in same direction (keep the spacing between the two tabs the same) to converge the red and blue (now purple) horizontal lines with the green horizontal line.
 - c. Secure the tabs previously adjusted by locking them in place with the locking tabs on the beam bender.

RING PAIRS	ROTATION DIRECTION OF BOTH TABS	MOVEMENT OF RED AND BLUE BEAMS
4 POLE	 OPPOSITE	
	 SAME	
6 POLE	 OPPOSITE	
	 SAME	

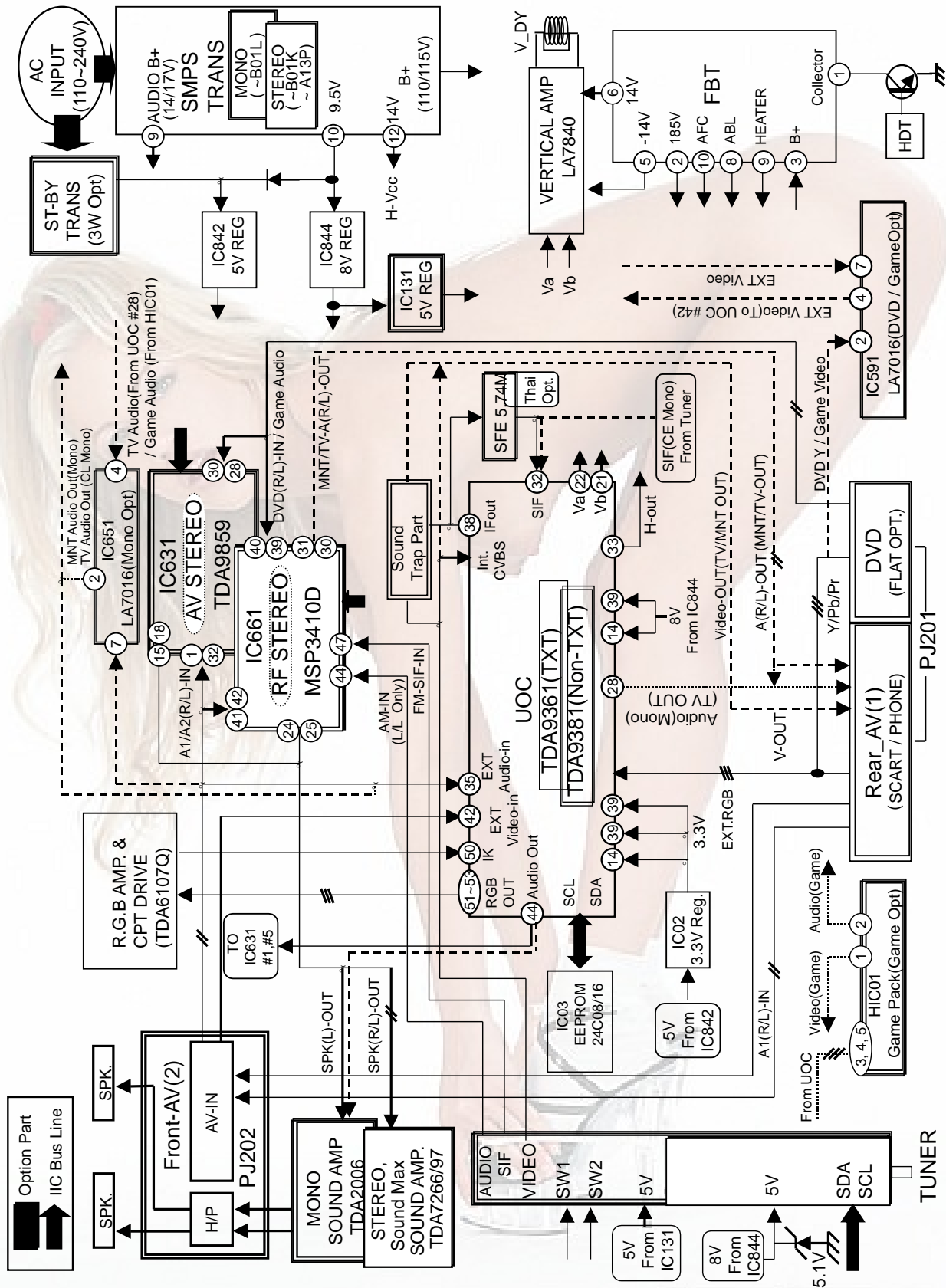
UP/DOWN ROCKING OF THE YOKE CAUSES OPPOSITE ROTATION OF RED AND BLUE RASTERS

LEFT/RIGHT ROCKING OF THE YOKE CAUSES OPPOSITE SIZE CHANGE OF THE RED AND BLUE RASTERS

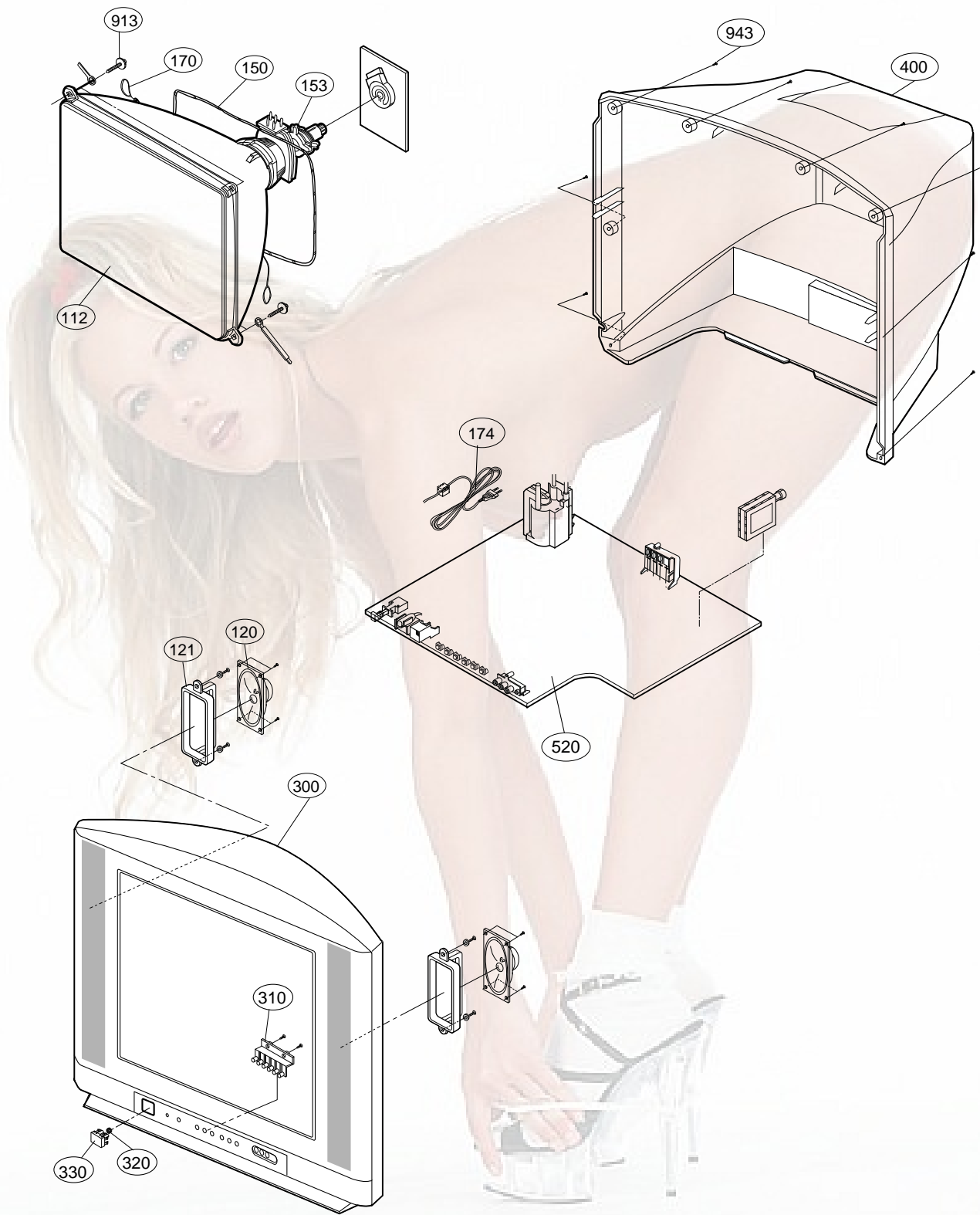


12. While watching the 6 o'clock positions on the screen, rock the front of the yoke in a vertical (up/down) direction to converge the red and blue vertical lines. (Fig upper left)
13. Temporarily place a rubber wedge at the 12 o'clock position to hold the vertical position of the yoke.
14. Check the 3 o'clock and 9 o'clock areas to confirm that the red and blue horizontal lines are converged.
If the lines are not converged, slightly offset the vertical tilt of the yoke (move the rubber wedge if necessary) to equally balance the convergence error of the horizontal lines at 3 o'clock and 9 o'clock and the vertical lines at 6 o'clock and 12 o'clock.
15. Place a 1.5 inch piece of glass tape over the rubber foot at the rear of the 12 o'clock wedge.
16. While watching the 6 o'clock and 12 o'clock areas of the screen, rock the front of the yoke in the horizontal (left to right) motion to converge the red and blue horizontal lines. (Fig. upper right)
17. Temporarily place a rubber wedge at the 5 o'clock and 7 o'clock positions to hold the horizontal position of the yoke.
18. Check the 3 o'clock and 9 o'clock areas to confirm that the red and blue vertical lines are converged. If the lines are not converged, slightly offset the horizontal tilt of the yoke (move the temporary rubber wedges if necessary) to equally balance the convergence error of the horizontal lines at 6 o'clock and 12 o'clock and the vertical lines at 3 o'clock and 9 o'clock.
19. Using a round magnet confirm purity at the center, right and left sides and corners. See Purity Adjustment Procedure.
20. Reconfirm convergence and apply a 1.5 inch piece of glass tape over the rubber foot at the rear of the 5 o'clock and the 7 o'clock wedges.

BLOCK DIAGRAM



EXPLODED VIEW



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EXPLODED VIEW PARTS LIST

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

LOCA. NO	PART NO	DESCRIPTIONS
Δ 112	6335V21009B	CPT ASSEMBLY A51QDX992X005 0.4G 0G SDIH ZH 48,ITC
120	120-C77M	SPEAKER,FULLRANGE 8 OHM 10/15W 130DB 57*117MM
121	4810V00088A	BRACKET,SPEAKER
Δ 150	150-D02X	COIL,DEGAUSSING CU 21 60TURN 12 OHM D02N (NYLON)
Δ 170	170-A01N	CPT EARTH 21 64T 2LUG 1P HSG
Δ 174	174-009E	POWER CORD(W/HOLD,HOUSING,L=200,4.0
300	3091V00B25C	CABINET ASSEMBLY STEREO MC019A W/O EYE, W/O TXT
310	5020V00704A	BUTTON,CONTROL
320	320-062E	SPRING,KNOB
330	5020V00703A	BUTTON,POWER
400	3809V00A74D	BACK COVER ASSEMBLY 1SCART C/SKD
520	6871VMMN97H	PWB ASSEMBLY,MAIN MC019A RE-21FB50RX KUSLMP8
913	332-057B	SCREW ASSY,HEXAGON HEAD
943	1PTF0403116	SCREW,TAP TITE(P)[TRUSS HEAD]

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

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
IC		
IC01	0ICTMPH006C	TDA9361PS/N2/4I,0793 64P ST MC019A EURO/CIS TXT
IC02	0IMCRNS005A	LM1117T-3.3 3P TO-220 BK LDO LINEAR
IC03	0IAL241610B	AT24C16A-10PI-2.7 8PIN DIP ST EEPROM NON
IC130	0IMCRSG004A	L7805CV SGS-THOMSON 3PIN TO220 ST
IC301	0ISA784070A	LA7840 7S VERTICAL
IC602	0ISG726600A	TDA7266S 15 SIP ST SOUND AMP
IC603	0IFA754207A	KA75420ZTA(KA7542ZTA) 3P,TO-92 TP 4.2V
IC661	0IMCRMN011C	MSP3410G PO B8 V3 MICRONAS 52P
IC662	0IFA753307A	KA75330ZTA(KA7533ZTA) 3P,TO-92 TP 3.3V
Δ IC801	0ILI817000G	LTV817M-VB 4P,DIP BK PHOTO COUPLER
Δ IC802	0ILI817000G	LTV817M-VB 4P,DIP BK PHOTO COUPLER
Δ IC803	0ISK665413C	STR-F6654R(LF1352) 5 SIP BK STR MC00AA
Δ IC804	0ISK110000A	SE110N(LF12) 3P 110V ERROR AMP
IC842	0IMCRUK002A	S78DL05 AUK 3P,TO92 TP 5V-REGULATOR
IC844	0IMCRKE001A	KIA78R08PI KEC 4PIN,TO220IS-4 ST 1A
IC901	0IPH610700B	TDA6107JF/N3 9P ST RGB AMP
DIODE		
D301	0DD400509AA	DIODE,RECTIFIERS 1N4005 TP
D401	0DD150009CA	DIODE,RECTIFIERS RGP15J TP
D441	0DD060009AC	DIODE,RECTIFIERS TVR06J 600V 250NSEC
D442	0DD060009AC	DIODE,RECTIFIERS TVR06J 600V 250NSEC
D443	0DD060009AC	DIODE,RECTIFIERS TVR06J 600V 250NSEC
D501	0DD414809ED	DIODE,SWITCHING 1N4148 TP
D571	0DD414809ED	DIODE,SWITCHING 1N4148 TP
D802	0DD100009AM	DIODE,RECTIFIERS EU1ZV(1) TP
D803	0DD414809ED	DIODE,SWITCHING 1N4148 TP
D806	0DD100009AM	DIODE,RECTIFIERS EU1ZV(1)
D807	0DD300009AC	DIODE,RECTIFIERS RU3AMV(1)
D808	0DD060009AC	DIODE,RECTIFIERS TVR06J 600V 250NSEC
D815	0DD420000BB	DIODE,RECTIFIERS D4L20U SHINDENGEN
D824	0DD420000BB	DIODE,RECTIFIERS D4L20U SHINDENGEN
D901	0DR210009AC	DIODE,RECTIFIERS BAV21 200V 0.2A 1A 50SEC 100A
D902	0DR210009AC	DIODE,RECTIFIERS BAV21 200V 0.2A 1A 50SEC 100A
D903	0DR210009AC	DIODE,RECTIFIERS BAV21 200V 0.2A 1A 50SEC 100A
D904	0DR140049AC	DIODE,RECTIFIERS 1N4004A 500V 1.0A 30A - 10UA
Δ DB801	0DD260000BB	DIODE,RECTIFIERS BRIDGE D2SBA60(STK)
LD01	4930V00183B	HOLDER LED MODULE ASSY . 4PIN
ZD101	0DZ510009AK	DIODE,ZENERS GDZJ5.1B TP GRANDE DO34 0.5W 5.1V
ZD441	0DZ620009AK	DIODE,ZENERS GDZJ6.2B TP GRANDE DO34 0.5W 6.2V
ZD442	0DZ820009BF	DIODE,ZENERS GDZJ8.2B TP GRANDE DO34 0.5W 8.2V
ZD443	0DZ330009DG	DIODE,ZENERS GDZJ33B TP GRANDE DO34 0.5W 33.0V
ZD501	0DZ820009BF	DIODE,ZENERS GDZJ8.2B TP GRANDE DO34 0.5W 8.2V
ZD601	0DZ910009BD	DIODE,ZENERS GDZJ9.1B TP GRANDE DO34 0.5W 9.1V
TRANSISTOR		
Q01	0TR198009BA	TR,2SA1980Y TP AUK - -
Q301	0TR198009BA	TR,2SA1980Y TP AUK - -
Q402	0TRSA10002A	TR,TT2140 SANYO ST TO220F 1500V 6A
Q442	0TR233109AA	TR,KSC2331-Y TP
Q551	0TR198009BA	TR,2SA1980Y TP AUK - -

LOCA. NO	PART NO	DESCRIPTION
Q555	0TR534309AA	TR,2SC5343Y TP AUK - -
Q571	0TR198009BA	TR,2SA1980Y TP AUK - -
Q621	0TR534309AA	TR,2SC5343Y TP AUK - -
Q671	0TR198009BA	TR,2SA1980Y TP AUK - -
Q672	0TR198009BA	TR,2SA1980Y TP AUK - -
Q801	0TR102009AB	TR,KRC102M(KRC1202)
Q802	0TR102009AB	TR,KRC102M(KRC1202)
Q806	0TR102009AB	TR,KRC102M(KRC1202)
CAPACITOR		
C01	0CN1020K519	1000P 50V K B TA52
C02	0CN1030F679	10000P 16V M Y TA52
C03	0CE107DD618	100UF STD 10V M FL TP5
C04	0CC2400K415	24P 50V J NP0 TP
C05	0CC2400K415	24P 50V J NP0 TP
C07	0CE107DD618	100UF STD 10V M FL TP5
C102	0CE105DK618	1UF STD 50V M FL TP5
C107	0CE107DD618	100UF STD 10V M FL TP5
C109	0CE476DK618	47UF STD 50V M FL TP5
C113	0CN1020K519	1000P 50V K B TA52
C121	0CN1010K519	100P 50V K B TA52
C131	0CE107DD618	100UF STD 10V M FL TP5
C201	0CE227DD618	220UF STD 10V M FL TP5
C202	0CN4710K519	470P 50V K B TA52
C204	0CN4710K519	470P 50V K B TA52
C206	0CN4710K519	470P 50V K B TA52
C207	0CN4710K519	470P 50V K B TA52
C208	0CE226DF618	22UF STD 16V M FL TP5
C209	0CE226DF618	22UF STD 16V M FL TP5
C21	0CE107DD618	100UF STD 10V M FL TP5
C210	0CN1030F679	10000P 16V M Y TA52
C211	0CN1010K519	100P 50V K B TA52
C212	0CN1010K519	100P 50V K B TA52
C253	0CN1020K519	1000P 50V K B TA52
C255	0CN1020K519	1000P 50V K B TA52
C256	0CN1020K519	1000P 50V K B TA52
C257	0CN1020K519	1000P 50V K B TA52
C260	0CE226DF618	22UF STD 16V M FL TP5
C261	0CN1010K519	100P 50V K B TA52
C262	0CN1010K519	100P 50V K B TA52
C301	0CQ1041N509	0.1U 100V K POLY TP
C302	0CQ3931N509	0.0390UF 100V K PE TP
C303	0CK1810W515	180P 500V K B TS
C304	0CE107DJ618	100UF STD 35V M FL TP5
C307	0CQ6821N509	0.0068U 100V K POLY TP
C401	181-013Q	MPP 400V 0.36UF J
C402	0CE475DP618	4.7UF STD 160V 20% FL TP 5
C403	181-015E	MPP 1600V 0.0068UF H
C404	0CK8210W515	820P 500V K B TS
C405	181-091U	R 220PF 2KV 10%,-10% R/TP TP7.5
C441	0CQ1531N509	0.015U 100V K POLY TP
C443	0CE477DH618	470UF STD 25V M FL TP5
C444	0CE475DR618	4.7UF STD 250V 20% FL TP 5

For Capacitor & Resistors,
the characters at 2nd and 3rd
digit in the P/No. means as
follows;

CC, CX, CK, CN : Ceramic
CQ : Polyester
CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

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

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C446	OCE477DH618	470UF STD 25V M FL TP5	C678	OCF3341L438	0.33UF D 63V 5% TP 5 M/PE NI
C447	OCQ3321N509	0.0033U 100V K POLY TP	C679	OCF3341L438	0.33UF D 63V 5% TP 5 M/PE NI
C449	181-009V	PP 200V 0.047UF K	C680	OCN1030F679	10000P 16V M Y TA52
C452	OCE106DK618	10UF STD 50V M FL TP5	C681	OCE106DF618	10UF STD 16V M FL TP5
C501	OCF2241L438	0.22UF D 63V 5% TP 5 M/PE NI	C684	OCN1030F679	10000P 16V M Y TA52
C502	OCN1030F679	10000P 16V M Y TA52	C685	OCE106DF618	10UF STD 16V M FL TP5
C503	OCE107DD618	100UF STD 10V M FL TP5	C686	OCX5600K409	56P 50V J SL TA52
C504	OCE225DK618	2.2UF STD 50V 20% FL TP 5	C687	OCX5600K409	56P 50V J SL TA52
C505	OCQ2221N509	0.0022U 100V K POLY TP	C688	OCX5600K409	56P 50V J SL TA52
C506	OCE105DK618	1UF STD 50V M FL TP5	C689	OCQ0200K115	2P 50V D NP0 TS
C507	OCQ2221N509	0.0022U 100V K POLY TP	C690	OCQ0200K115	2P 50V D NP0 TS
C509	OCE106DF618	10UF STD 16V M FL TP5	C801	OCE107BJ618	100UF KME 35V M FL TP5
C51	OCN1030F679	10000P 16V M Y TA52	C802	181-091U	R 220PF 2KV 10%,-10% R/TP TP7.5
C511	OCE105DK618	1UF STD 50V M FL TP5	C803	OCK4710W515	470PF 500V K B TR
C512	OCN1020K519	1000P 50V K B TA52	C804	OCQ1041N509	0.1U 100V K POLY TP
C513	OCN1020K519	1000P 50V K B TA52	Δ C806	181-001V	CE 450V 220UF M LUG(85)
C519	OCF1041N450	0.1UF D 100V 5% BULK PP NI	C807	OCK10201515	1000P 1KV K B TS
C524	OCN1030F679	10000P 16V M Y TA52	C808	OCK10201515	1000P 1KV K B TS
C531	OCN1020K519	1000P 50V K B TA52	Δ C809	OCQZVBK002C	A.C 275V 0.22UF K (S=22.5)
C534	OCN1030F679	10000P 16V M Y TA52	Δ C811	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C535	OCN1010K519	100P 50V K B TA52	Δ C812	OCE108DH618	1000UF STD 25V M FL TP5
C538	OCF4741L438	0.47UF D 63V 5% TP 5 M/PE NI	C813	OCK4710W515	470PF 500V K B TR
C540	OCN2230H949	22000P 25V Z FTA52	C815	OCK4710W515	470PF 500V K B TR
C541	OCN2230H949	22000P 25V Z FTA52	C816	OCN1030F679	10000P 16V M Y TA52
C542	OCN2230H949	22000P 25V Z FTA52	C817	OCK4710W515	470PF 500V K B TR
C553	OCN1030F679	10000P 16V M Y TA52	C818	OCE107BH618	100UF KME 25V M FL TP5
C561	OCE107DD618	100UF STD 10V M FL TP5	C819	181-091Y	R 680PF 2KV 10%,-10% R/TP TP7.5
C573	OCE107DF618	100UF STD 16V M FL TP5	C820	OCE227DP650	220UF STD 160V M FM7.5 BULK
C574	OCQ1021N509	0.001U 100V K POLY TP	C821	181-120N	1000PF 4KV M E FMTW LEAD4.5
C594	OCQ1041N509	0.1U 100V K POLY TP	C823	OCK4710K515	470PF 50V K B TR
C601	OCE226DF618	22UF STD 16V M FL TP5	C825	181-091P	SL 270PF 1KV 10%,-10% R/TP TP5
C602	OCF2241L438	0.22UF D 63V 5% TP 5 M/PE NI	C828	OCE107DF618	100UF STD 16V M FL TP5
C603	OCQ4721N509	0.0047U 100V K POLY TP	C829	OCF1021047A	1000PF D 800V 5% TP 7.5 M/PP NI
C605	OCQ4721N509	0.0047U 100V K POLY TP	C830	OCE475DK618	4.7UF STD 50V 20% FL TP 5
C606	OCF2241L438	0.22UF D 63V 5% TP 5 M/PE NI	C831	OCE108BF618	1000UF KME 16V M FL TP5
C607	OCN1030F679	10000P 16V M Y TA52	C832	181-091P	SL 270PF 1KV 10%,-10% R/TP TP5
C612	OCE477DH618	470UF STD 25V M FL TP5	C834	OCE476CP618	47UF SHL,SD 160V 20% FL TP 5
C661	OCX4700K409	47P 50V J SL TA52	C835	OCE107DF618	100UF STD 16V M FL TP5
C662	OCX4700K409	47P 50V J SL TA52	C841	OCE477DD618	470UF STD 10V M FL TP5
C663	OCE227DD618	220UF STD 10V M FL TP5	C901	OCE475DR618	4.7UF STD 250V 20% FL TP 5
C664	OCN1030F679	10000P 16V M Y TA52	C902	OCQ1044R539	0.1UF TE 250V K M/PE NI TP5
C665	OCN1030F679	10000P 16V M Y TA52	C903	OCK12202510	1200P 2KV K B S
C666	OCE335DK618	3.3UF STD 50V 20% FL TP 5	C904	OCE475DR618	4.7UF STD 250V 20% FL TP 5
C667	OCN3320F569	3300P 16V K X TA52	C905	OCN5610K519	560P 50V K B TA52
C668	OCN3320F569	3300P 16V K X TA52	R655	OCN1030F679	10000P 16V M Y TA52
C669	OCE226DF618	22UF STD 16V M FL TP5	COIL & TRANSFORMER		
C670	OCE106DF618	10UF STD 16V M FL TP5	J136	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
C671	OCE107DD618	100UF STD 10V M FL TP5	J57	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
C672	OCE106DF618	10UF STD 16V M FL TP5	L04	0LA1000K119	INDUCTOR, 100UH K 2.3*3.4 TP
C673	OCN1030F679	10000P 16V M Y TA52	L05	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
C674	OCN1030F679	10000P 16V M Y TA52	L202	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
C675	OCE106DF618	10UF STD 16V M FL TP5			

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RD : Carbon Film
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RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
L203	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L204	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L205	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L251	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L252	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L253	0LA0472K119	INDUCTOR, 47UH K 2.3*3.4 TP
L254	0LA0472K119	INDUCTOR, 47UH K 2.3*3.4 TP
L401	6140VE0001V	COIL,LINEARITY 60UH 0.6PHY 69.5TURN
Δ L402	6140VB0001F	COIL,CHOKE 130UH 0.45PHY 55.5TURN
L501	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L502	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L503	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L506	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L611	0LA0102K049	INDUCTOR, 10UH 10%
L661	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L662	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L663	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L801	150-C02F	COIL,CHOKE 82UH PHY TURN
L901	150-C02A	COIL,CHOKE 10UH PHY TURN
R443	0LA0101K119	INDUCTOR, 1.0UH K 2.3*3.4 TP
R545	0LA0681K119	INDUCTOR, 6.8UH K 2.3*3.4 TP
R546	0LA0681K119	INDUCTOR, 6.8UH K 2.3*3.4 TP
R547	0LA0681K119	INDUCTOR, 6.8UH K 2.3*3.4 TP
Δ T401	6174V-6006E	FBT,BSC23-N0107 20/21
Δ T402	6170VC0003A	TRANSFORMER,H-DRIVER DRUM 10*12 JSUH BASE 10MM
Δ T802	6170VMCB01K	TRANSFORMER,SMPS EER4215 340UH MC019A
CONNECTOR		
P301	366-043K	CONNECTOR, PLUG(4P)
P601	366-932B	CONNECTOR, 2.5MM 3P
P602	366-932C	CONNECTOR, 2.5MM 4P
P801	366-043B	CONNECTOR, ASSY,PLUG(2P)
P802	366-043B	CONNECTOR, ASSY,PLUG(2P)
P902	387-603E	CONNECTOR, 9P 2.5MM 430MM
P903	366-009D	CONNECTOR, 2.36PAI 1P
RESISTOR		
C546	ORD1103F609	110K OHM 1/6 W 5.00% TA52
D813	ORS0272H609	27 OHM 1/2 W 5.00% TA52
F812	ORP0050H709	0.05 OHM 1/2 W 10% TA52
Δ FR441	ORF0470J607	0.47 OHM 1 W 5.00% TA62
Δ FR442	ORF0151J607	1.5 OHM 1 W 5.00% TA62
Δ FR443	ORF0470J607	0.47 OHM 1 W 5.00% TA62
Δ FR802	ORF0470H609	0.47 OHM 1/2 W 5.00% TA52
Δ FR803	ORP0020J809	0.02 OHM 1 W 20% TA52
Δ FR901	ORF0151J607	1.5 OHM 1 W 5.00% TA62
J149	ORD1001F609	1K OHM 1/6 W 5% TA52
J154	ORD6800F609	680 OHM 1/6 W 5% TA52
J30	ORD2200F609	220 OHM 1/6 W 5.00% TA52
J33	ORD2200F609	220 OHM 1/6 W 5.00% TA52
J39	ORD2200F609	220 OHM 1/6 W 5.00% TA52
J69	ORD1000F609	100 OHM 1/6 W 5% TA52

LOCA. NO	PART NO	DESCRIPTION
L01	ORD1500F609	150 OHM 1/6 W 5.00% TA52
L10	ORD0102F609	10 OHM 1/6 W 5% TA52
L210	ORD0101F609	1 OHM 1/6 W 5.00% TA52
R01	ORD1002F609	10K OHM 1/6 W 5% TA52
R03	ORD1000F609	100 OHM 1/6 W 5% TA52
R04	ORD3301F609	3.3K OHM 1/6 W 5.00% TA52
R05	ORD3301F609	3.3K OHM 1/6 W 5.00% TA52
R06	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R07	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R09	ORD1000F609	100 OHM 1/6 W 5% TA52
R10	ORD1000F609	100 OHM 1/6 W 5% TA52
R105	ORD1000F609	100 OHM 1/6 W 5% TA52
R106	ORD1000F609	100 OHM 1/6 W 5% TA52
R107	ORS0272J607	27 OHM 1 W 5.00% TA62
R121	ORD1001F609	1K OHM 1/6 W 5% TA52
R122	ORD1001F609	1K OHM 1/6 W 5% TA52
R13	ORD1000F609	100 OHM 1/6 W 5% TA52
R14	ORD1603F609	160K OHM 1/6 W 5.00% TA52
R16	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R18	ORD1203F609	120K OHM 1/6 W 5.00% TA52
R201	ORD0682F609	68 OHM 1/6 W 5.00% TA52
R204	ORD0752F609	75 OHM 1/6 W 5.00% TA52
R205	ORD0822F609	82 OHM 1/6 W 5.00% TA52
R206	ORD0822F609	82 OHM 1/6 W 5.00% TA52
R207	ORD0822F609	82 OHM 1/6 W 5.00% TA52
R208	ORD1001F609	1K OHM 1/6 W 5% TA52
R21	ORD2201F609	2.2K OHM 1/6 W 5.00% TA52
R22	ORD3902F609	39K OHM 1/6 W 5.00% TA52
R23	ORD2200F609	220 OHM 1/6 W 5.00% TA52
R25	ORD1201F609	1.2K OHM 1/6 W 5% TA52
R251	ORD0822F609	82 OHM 1/6 W 5.00% TA52
R254	ORD2200A609	220 OHM 1/2 W(7.0) 5.00% TA52
R255	ORD2200A609	220 OHM 1/2 W(7.0) 5.00% TA52
R26	ORD1601F609	1.6K OHM 1/6 W 5.00% TA52
R26	ORD2201F609	2.2K OHM 1/6 W 5.00% TA52
R27	ORD3601F609	3.6K OHM 1/6 W 5.00% TA52
R29	ORD1201F609	1.2K OHM 1/6 W 5% TA52
R301	ORD0101F609	1 OHM 1/6 W 5.00% TA52
R302	ORN1501F409	1.5K OHM 1/6 W 1.00% TA52
R304	ORD0221A609	2.2 OHM 1/2 W(7.0) 5.00% TA52
R305	ORD0221A609	2.2 OHM 1/2 W(7.0) 5.00% TA52
R306	ORS2700K607	270 OHM 2 W 5.00% TA62
R307	ORD1501F609	1.5K OHM 1/6 W 5% TA52
R310	ORD1801F609	1.8K OHM 1/6 W 5.00% TA52
R311	ORD4701A609	4.7K OHM 1/2 W(7.0) 5.00% TA52
R312	ORD2201F609	2.2K OHM 1/6 W 5.00% TA52
R313	ORD1002F609	10K OHM 1/6 W 5% TA52
R401	ORD1501A609	1.5K OHM 1/2 W(7.0) 5.00% TA52
R402	ORS2702K607	27K OHM 2 W 5.00% TA62
R442	ORD5100A609	510 OHM 1/2 W(7.0) 5.00% TA52
R444	ORD0392A609	39 OHM 1/2 W(7.0) 5.00% TA52
R446	ORD1001F609	1K OHM 1/6 W 5% TA52

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LOCA. NO	PART NO	DESCRIPTION
R447	ORD2401F609	2.4K OHM 1/6 W 5.00% TA52
R450	ORD4701A609	4.7K OHM 1/2 W(7.0) 5.00% TA52
R451	ORD0392H609	39 OHM 1/2 W 5.00% TA52
R453	ORS5602H609	56K OHM 1/2 W 5.00% TA52
R455	ORS2702K607	27K OHM 2 W 5.00% TA62
R456	ORS2202H609	22K OHM 1/2 W 5.00% TA52
R501	ORD2202F609	22K OHM 1/6 W 5% TA52
R502	ORD1002F609	10K OHM 1/6 W 5% TA52
R504	ORN3902F409	39K OHM 1/6 W 1.00% TA52
R51	ORD1000F609	100 OHM 1/6 W 5% TA52
R518	ORD3302F609	33K OHM 1/6 W 5% TA52
R52	ORD1000F609	100 OHM 1/6 W 5% TA52
R521	ORD1000F609	100 OHM 1/6 W 5% TA52
R522	ORD2702F609	27K OHM 1/6 W 5.00% TA52
R523	ORD1003F609	100K OHM 1/6 W 5% TA52
R524	ORD3001F609	3K OHM 1/6 W 5.00% TA52
R537	ORD1000F609	100 OHM 1/6 W 5% TA52
R538	ORD1000F609	100 OHM 1/6 W 5% TA52
R539	ORD1000F609	100 OHM 1/6 W 5% TA52
R540	ORD1000F609	100 OHM 1/6 W 5% TA52
R542	ORD1002F609	10K OHM 1/6 W 5% TA52
R551	ORD2200F609	220 OHM 1/6 W 5.00% TA52
R552	ORD2200F609	220 OHM 1/6 W 5.00% TA52
R558	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R559	ORD1800F609	180 OHM 1/6 W 5.00% TA52
R572	ORD5600F609	560 OHM 1/6 W 5% TA52
R573	ORD2403F609	240K OHM 1/6 W 5.00% TA52
R601	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R602	ORD1002F609	10K OHM 1/6 W 5% TA52
R604	ORD1201F609	1.2K OHM 1/6 W 5% TA52
R606	ORD7501F609	7.5K OHM 1/6 W 5.00% TA52
R608	ORD1201F609	1.2K OHM 1/6 W 5% TA52
R609	ORD7501F609	7.5K OHM 1/6 W 5.00% TA52
R610	ORD4702F609	47K OHM 1/6 W 5% TA52
R611	ORD4702F609	47K OHM 1/6 W 5% TA52
R662	ORD1000F609	100 OHM 1/6 W 5% TA52
R663	ORD1000F609	100 OHM 1/6 W 5% TA52
R664	ORD1002F609	10K OHM 1/6 W 5% TA52
R665	ORD3901F609	3.9K OHM 1/6 W 5% TA52
R666	ORD3901F609	3.9K OHM 1/6 W 5% TA52
R667	ORD0102F609	10 OHM 1/6 W 5% TA52
R670	ORD1001F609	1K OHM 1/6 W 5% TA52
R671	ORD1001F609	1K OHM 1/6 W 5% TA52
R801	ORD2701F609	2.7K OHM 1/6 W 5% TA52
R802	ORD2201F609	2.2K OHM 1/6 W 5.00% TA52
R803	ORD1001F609	1K OHM 1/6 W 5% TA52
R804	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R805	180-A01P	0.13 OHM 2 W 5% TA62 RWR
R806	ORD2401F609	2.4K OHM 1/6 W 5.00% TA52
R808	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R809	ORS4702K607	47K OHM 2 W 5.00% TA62
Δ R812	ORK8204H609	8.2M OHM 1/2 W 5.00% TA52

LOCA. NO	PART NO	DESCRIPTION
R813	ORD1002F609	10K OHM 1/6 W 5% TA52
R815	ORD0751A609	7.5 OHM 1/2 W(7.0) 5.00% TA52
R816	ORD2001F609	2K OHM 1/6 W 5% TA52
R903	ORD2200F609	220 OHM 1/6 W 5.00% TA52
R904	ORD2200F609	220 OHM 1/6 W 5.00% TA52
R905	ORD2200F609	220 OHM 1/6 W 5.00% TA52
R906	ORD1000F609	100 OHM 1/6 W 5% TA52
R907	ORD1000F609	100 OHM 1/6 W 5% TA52
R908	ORD1000F609	100 OHM 1/6 W 5% TA52
R909	ORS1501H609	1.5K OHM 1/2 W 5.00% TA52
R910	ORS1501H609	1.5K OHM 1/2 W 5.00% TA52
R911	ORS1501H609	1.5K OHM 1/2 W 5.00% TA52
R912	ORD2204A609	2.2M OHM 1/2 W(7.0) 5.00% TA52
RC801	180-822N	RWR 7W 1.0 OHM J PD
SWITCH		
SW01	140-315A	SWITCH,TACT SKHV17910B LG C&D NON 12V
SW02	140-315A	SWITCH,TACT SKHV17910B LG C&D NON 12V
SW03	140-315A	SWITCH,TACT SKHV17910B LG C&D NON 12V
SW04	140-315A	SWITCH,TACT SKHV17910B LG C&D NON 12V
SW05	140-315A	SWITCH,TACT SKHV17910B LG C&D NON 12V
SW06	140-315A	SWITCH,TACT SKHV17910B LG C&D NON 12V
Δ SW801	6600VM2002A	SWITCH,SDKEA3 250V 8A HORIZONTAL 480G
FILTER & CRYSTAL		
FB801	125-022R	FILTER,BI3857 FEELUX 5.7X3.6MM 26MM
FB802	125-022R	FILTER,BI3857 FEELUX 5.7X3.6MM 26MM
FB803	125-022R	FILTER,BI3857 FEELUX 5.7X3.6MM 26MM
L201	125-022R	FILTER,BI3857 FEELUX 5.7X3.6MM 26MM
L255	125-123A	FILTER,FERRITE BFD3565R2F
L260	125-022R	FILTER,BI3857 FEELUX 5.7X3.6MM 26MM
T801	6200JB8008J	FILTER,SQ2626 FEEL LUX BK 27-45MH,0.5PHY
X01	156-A02B	RESONATOR,CRYSTAL 12.000MHZ 30PPM 16PF
X661	156-A02M	RESONATOR,CRYSTAL 18.432MHZ 30PPM 10PF
ACCESSORIES		
A1	3828VA0378M	MANUAL,OWNERS PL/SPEC LG PL 090A/D TX 017B
A2	6710V00090A	REMOTE CONTROLLERMC019A TXT LG NON
MISCELLANEOUS		
Δ F801	0FS4001B53C	FUSE,SLOW BLOW 4000MA 250 V 5.2X20
PA01	6726VV0006H	REMOTE CONTROLLER RECEIVER TSOP2238NN1
PJ201	381-091A	SOCKET S-091A URIM ELECTRNICS 21PIN H
PJ202	6613V00006E	JACK ASSY,PJ6062E A/V 3P+E/P WITH DOUBLE S/W
Δ SK901	6620VBC003A	SOCKET (CIRC),CPT PCS030A 8PIN 14/360
Δ TH801	163-051F	THERMISTOR,PTC J503P84D140M290Q
TU101	6700MF0001H	TUNER,TAFD-M232D LG MULTI FS 3SYS,2IN1,DIN
VD801	164-003G	VARISTOR TVR621D14A THINKING 620V

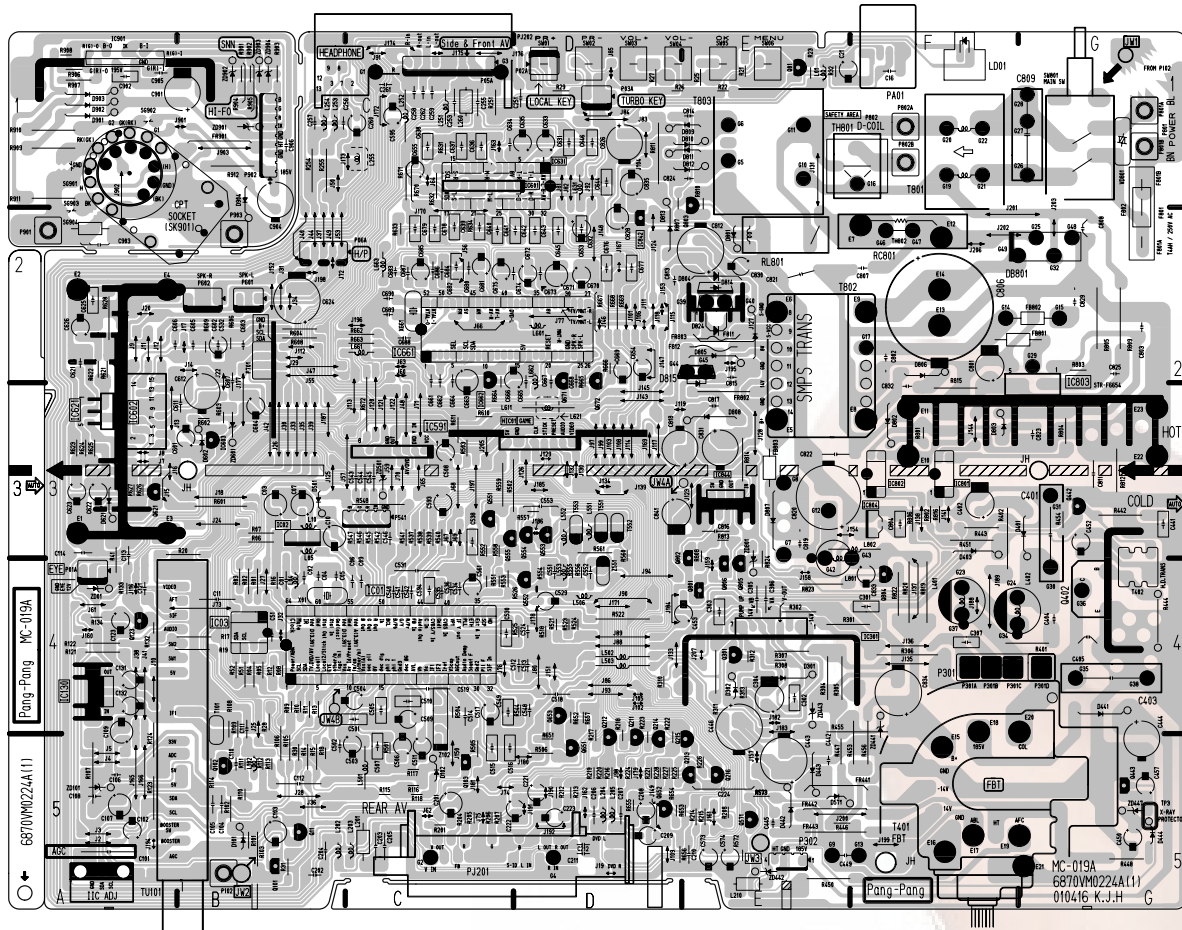
A blonde woman with long, wavy hair is crouching on a white surface, looking towards the camera. She is wearing white high-heeled sandals and white socks. Her body is angled, with her back to the camera but her head turned. The background is a plain, light-colored wall.

SVC. SHEET : 3854VA0083A-S

SVC. SHE

TeensPorn.us

MAIN & CPT

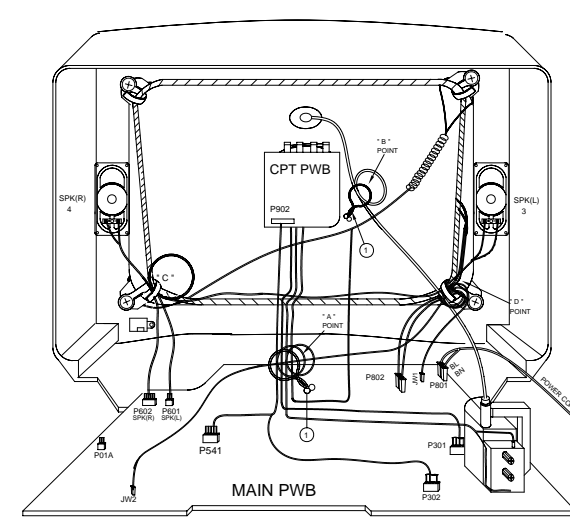


PRINTED CIRCUIT BOARD

COMPONENT LOCATION GUIDE

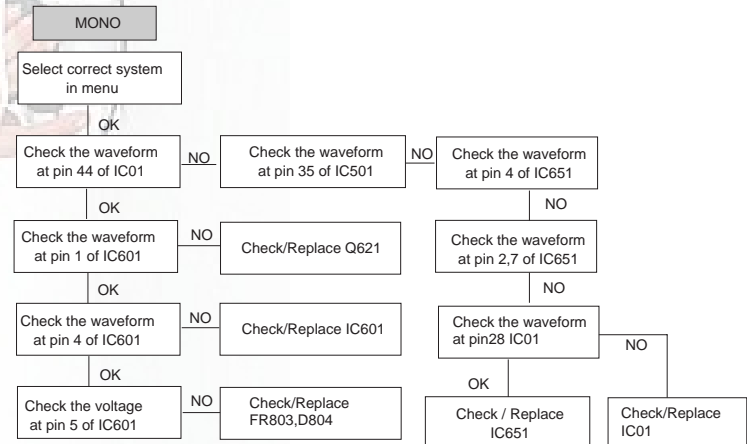
C01.....B4	C403.....G4	C607.....B3	C811.....G3	F812.....E2	L801.....E4	R05.....B4	R218.....D5	R554.....D4	R820.....F4
C02.....B4	C404.....G4	C611.....B3	C812.....E2	F801A.....G2	L802.....E3	R06.....B3	R219.....D5	R555.....D4	R822.....F4
C03.....B3	C405.....G4	C612.....B3	C813.....D2	F801B.....G1	L001.....F1	R07.....B3	R220.....D5	R556.....D4	R823.....E4
C04.....B4	C441.....G3	C621.....A2	C814.....D1	F8801.....F2	P102.....B5	R08.....B4	R221.....D5	R557.....D3	R824.....E4
C05.....B4	C442.....E5	C622.....A3	C815.....E3	F8802.....F2	P302.....E5	R09.....B4	R222.....D5	R558.....C4	R901.....B1
C06.....C4	C443.....E5	C623.....A3	C816.....E3	F8903.....E3	P541.....C3	R10.....B4	R223.....D5	R559.....C3	R902.....B1
C07.....B3	C444.....G5	C624.....B2	C817.....E3	F8441.....E5	P601.....B2	R11.....B4	R224.....D5	R560.....D4	R903.....B1
C08.....C4	C445.....E5	C625.....A2	C818.....D3	F8442.....E5	P602.....B2	R12.....B4	R225.....D5	R561.....D4	R904.....B1
C09.....B3	C446.....E5	C626.....A2	C819.....E4	F8443.....E5	P701.....B2	R13.....B4	R226.....E5	R572.....E5	R905.....B1
C10.....B3	C446.....E5	C626.....A2	C820.....E3	F8802.....E3	P901.....A2	R14.....B5	R227.....D5	R573.....E5	R906.....A1
C11.....B4	C449.....F5	C631.....D1	C821.....E2	F8803.....E2	P902.....B1	R15.....B5	R228.....D5	R601.....B3	R907.....A1
C12.....E1	C452.....G3	C633.....D1	C822.....E3	F8901.....B1	P903.....B2	R16.....B4	R229.....D5	R602.....B3	R908.....A1
C51.....B4	C453.....E4	C634.....C1	C823.....G3	HIC01.....D3	P01A.....A4	R17.....B4	R254.....B2	R603.....B3	R909.....A1
C101.....A5	C457.....G5	C635.....D1	C824.....D1	IC01.....A1	P02A.....D1	R18.....B5	R255.....B2	R604.....B2	R910.....A1
C102.....A5	C501.....C4	C636.....C1	C825.....G3	IC02.....B3	P03A.....D1	R19.....B4	R301.....E4	R606.....B2	R911.....A2
C103.....B5	C502.....B5	C637.....C1	C826.....D1	IC03.....B4	P05A.....C1	R20.....A4	R302.....A4	R608.....B2	R912.....B1
C104.....B5	C503.....C5	C638.....C1	C828.....D2	IC130.....A4	P06A.....B2	R21.....E1	R304.....E4	R609.....B2	R901.....F2
C105.....B5	C504.....C4	C639.....C2	C829.....G2	IC301.....E4	P301A.....F4	R22.....E1	R305.....E4	R610.....C3	RL801.....E2
C106.....A5	C505.....C4	C640.....C2	C830.....E2	IC591.....C3	P301B.....F4	R23.....E1	R306.....F4	R611.....C3	SG901.....A1
C107.....A5	C506.....C5	C641.....C2	C831.....E3	IC601.....D1	P301C.....F4	R25.....E1	R307.....E4	R621.....A3	SG902.....A1
C108.....A5	C507.....C5	C642.....D2	C832.....F3	IC602.....A3	P301D.....G4	R26.....D1	R308.....E4	R622.....A3	SG903.....A2
C109.....A4	C508.....C3	C643.....D2	C833.....F4	IC603.....B3	P801A.....G1	R27.....D1	R310.....D4	R623.....A3	SG904.....A2
C110.....B5	C509.....C4	C644.....D1	C834.....F4	IC621.....A3	P801B.....G1	R28.....B5	R311.....E4	R624.....A3	SW01.....D1
C111.....B5	C510.....C4	C645.....D2	C835.....D1	IC631.....D1	P802A.....F1	R29.....D1	R312.....E4	R625.....A3	SW02.....D1
C112.....B5	C511.....C5	C646.....D1	C841.....D3	IC641.....C2	P802B.....F1	R30.....B5	R313.....E4	R626.....A3	SW03.....D1
C113.....A4	C512.....D4	C653.....D2	C901.....B1	IC662.....C2	PA01.....F1	R31.....B5	R401.....F4	R627.....A3	SW04.....D1
C114.....A4	C513.....D4	C654.....D3	C902.....A1	IC801.....F3	PJ201.....C5	R32.....E1	R402.....F4	R628.....A2	SW05.....E1
C121.....A4	C514.....C4	C655.....C1	C903.....A2	IC802.....F3	PJ202.....C1	R41.....A4	R442.....G3	R631.....C1	SW06.....E1
C123.....A4	C515.....C5	C661.....C3	C904.....B2	IC803.....G2	Q01.....E1	R51.....B4	R443.....F3	R632.....C2	SW801.....G1
C131.....A4	C516.....C5	C662.....C3	C905.....A1	IC804.....F3	Q11.....B5	R52.....B4	R444.....G4	R633.....C2	T101.....B6
C132.....A4	C517.....C4	C663.....C3	C906.....B1	IC842.....D2	Q101.....B5	R101.....B5	R445.....E5	R634.....C2	T401.....F5
C201.....C5	C518.....D4	C664.....C3	D101.....B5	IC844.....E3	Q102.....B5	R102.....B5	R447.....E5	R651.....D5	T402.....G4
C202.....B5	C519.....C4	C665.....D3	D102.....C5	IC901.....A1	Q103.....C5	R103.....B5	R448.....G5	R652.....D4	T551.....D3
C203.....C5	C524.....D4	C666.....D2	D301.....E4	L01.....E1	Q123.....A4	R105.....B5	R450.....E5	R653.....E5	T552.....D3
C204.....B5	C529.....D4	C667.....D3	D302.....E4	L04.....B4	Q211.....D4	R106.....B5	R451.....F3	R654.....D5	T553.....D3
C205.....C5	C530.....C4	C668.....D3	D401.....G4	L05.....B3	Q212.....D4	R107.....A5	R453.....F5	R655.....D5	T801.....F1
C206.....D5	C531.....C4	C669.....D3	D403.....F4	L10.....B5	Q213.....E5	R108.....B5	R454.....G3	R656.....D5	T802.....F3
C207.....D5	C532.....D2	C670.....D2	D441.....G4	L102.....B5	Q214.....D5	R109.....B5	R455.....E5	R657.....D4	T803.....E1
C208.....D5	C534.....C4	C671.....D2	D442.....E5	L201.....C5	Q215.....E4	R110.....B5	R456.....F5	R662.....B2	T801.....E1
C209.....D5	C535.....C4	C672.....D2	D443.....E5	L202.....B5	Q216.....E5	R111.....B5	R501.....C5	R663.....B2	T802.....F2
C210.....E5	C536.....C4	C673.....D2	D444.....G5	L203.....C5	Q301.....E4	R112.....B5	R502.....D3	R664.....C3	TU101.....B5
C211.....D5	C538.....C3	C674.....D2	D501.....B3	L204.....D5	Q402.....G4	R113.....B5	R503.....C3	R665.....D3	VD801.....G1
C212.....D5	C540.....C4	C675.....C2	D571.....F5	L205.....D6	Q442.....G3	R114.....B5	R504.....C4	R666.....D3	X01.....B4
C221.....D5	C541.....C4	C676.....D2	D602.....D5	L210.....B5	Q443.....C5	R115.....C5	R505.....C5	R667.....C3	ZD01.....C2
C222.....D5	C542.....C4	C677.....D2	D621.....A3	L251.....C1	Q551.....C3	R116.....C5	R506.....D6	R668.....D2	Z102.....C5
C223.....D5	C543.....C3	C678.....C2	D801.....E2	L252.....C1	Q552.....D4	R117.....C5	R518.....D4	R669.....D2	Z551.....D4
C224.....E5	C544.....C3	C679.....C2	D802.....F3	L253.....B1	Q553.....D3	R118.....C5	R521.....D4	R670.....C2	ZD01.....A4
C251.....D1	C545.....C3	C680.....C2	D803.....F3	L254.....B1	Q554.....D3	R121.....A4	R522.....D4	R671.....C2	ZD101.....A5
C253.....C1	C546.....C3	C681.....C2	D804.....E2	L255.....C1	Q555.....C3	R122.....A4	R523.....D4	R672.....C3	ZD441.....F4
C255.....D1	C548.....D4	C682.....C2	D806.....E2	L260.....C1	Q571.....E5	R123.....A4	R524.....D4	R673.....F3	ZD42.....E5
C256.....B1	C549.....C4	C683.....C2	D808.....F2	L401.....F4	Q621.....A3	R124.....A5	R525.....D4	R802.....F3	ZD43.....E4
C257.....B1	C551.....D4	C684.....C2	D807.....E4	L402.....F4	Q651.....D5	R132.....A4	R526.....C4	R803.....G2	ZD447.....G5
C258.....C1	C552.....D4	C685.....C2	D808.....E3	L501.....C5	Q652.....D5	R133.....A4	R537.....C3	R804.....G3	ZD501.....C3
C259.....C1	C553.....D3	C686.....C2	D809.....D1	L502.....D4	Q653.....D4	R134.....A4	R538.....C3	R805.....G2	ZD601.....B3
C260.....C1	C561.....C4	C687.....C2	D810.....E1	L503.....D4	Q671.....D3	R201.....C5	R539.....C3	R806.....F3	ZD801.....E4
C261.....C1	C573.....E5	C688.....C2	D811.....D1	L508.....D4	Q672.....D3	R204.....C5	R540.....C3	R807.....D2	ZD901.....B1
C262.....C1	C574.....E5	C689.....G2	D812.....E1	L551.....D3	Q801.....E4	R205.....C5	R541.....C3	R808.....E4	ZD902.....B1
C301.....F4	C593.....G3	C690.....C2	D813.....D2	L552.....D3	Q802.....E4	R206.....C5	R542.....C3	R809.....G2	ZD903.....B1
C302.....E4	C594.....C4	C801.....F2	D814.....E2	L553.....D4	Q803.....E2	R207.....C5	R544.....D4	R810.....E2	ZD904.....B1
C303.....E4	C595.....C1	C802.....F2	D901.....A1	L601.....D2	Q804.....F4	R208.....E5	R545.....C3	R811.....D1	
C304.....E4	C601.....B3	C803.....G2	D902.....A1	L611.....D3	Q805.....E4	R212.....D5	R546.....C3	R812.....G3	
C305.....E4	C602.....B2	C804.....F3	D903.....A1	L621.....D3	Q806.....E4	R213.....D5	R547.....C3	R813.....E3	
C306.....E4	C603.....B2	C806.....F2	D904.....B2	L631.....D2	R01.....B4	R214.....E5	R548.....C3	R814.....E3	
C307.....F4	C604.....B3	C807.....F2	DB801.....G2	L661.....B2	R02.....B4	R215.....E5	R551.....C4	R815.....F3	
C401.....G4	C605.....B2	C808.....G2	F802.....G2	L662.....D2	R03.....B4	R216.....D5	R552.....C4	R816.....F3	
C402.....F3	C606.....A2	C809.....G1	F811.....E2	L663.....C2	R04.....B4	R217.....D5	R553.....C4	R819.....F4	

WIRING DIAGRAM

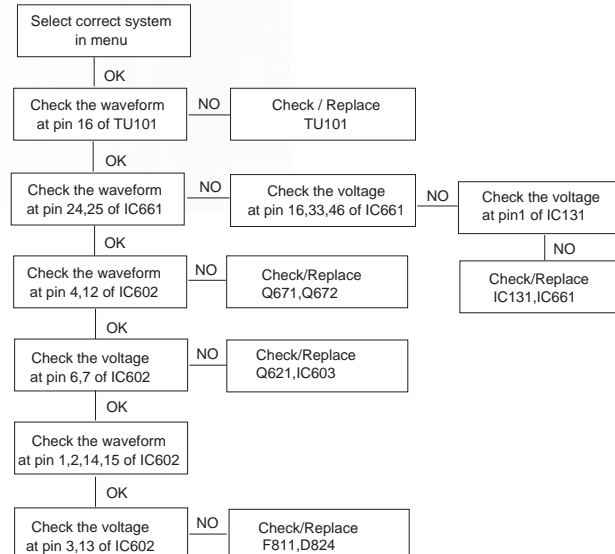


1. CONNECTOR LEAD
"A" POINT : P541, P301, P302, CPT EARTH.
JW1, FOCUS & SCREEN LEAD
TWISTER HOLDER
"B" POINT : TWISTER HOLDER
"C" POINT : D-COIL HOLDER SPEAKER(L)
LEAD
"D" POINT : SPEAKER(L) LEAD & D-COIL
P802 D-COIL HOLDER 1
JW2

NO SOUND / PICTURE OK

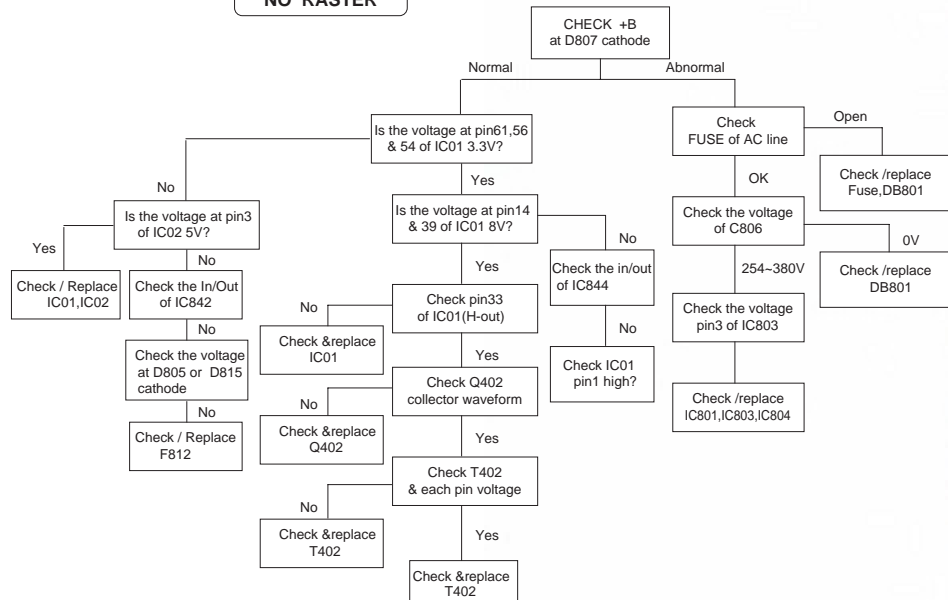


RF STEREO

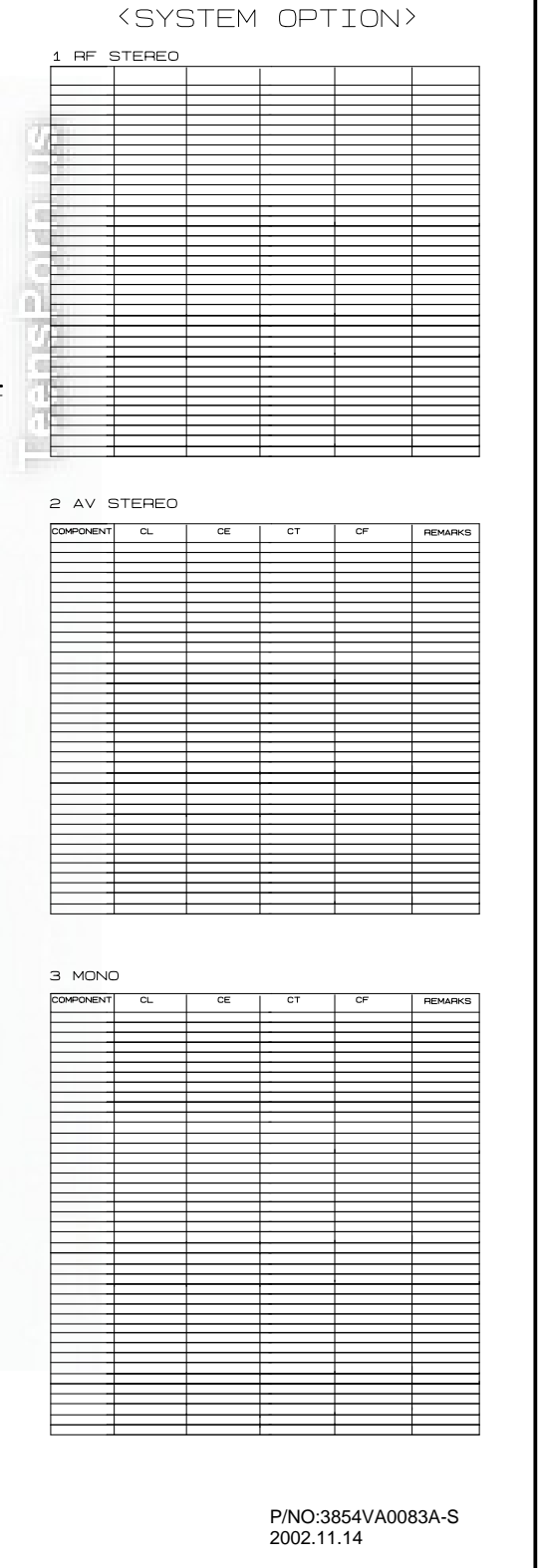


TROUBLESHOOTING

NO RASTER



NOTICE		
<p>Since this is basic control diagram, the value of components and some partial contents are subject to be changed for improvement without notice.</p> <p>The components marked △ conform to IEC 60060 standards and are essential for safe operation of the TV receiver.</p> <p>The components marked △ are required for correct operation. Use specified parts only when necessary.</p>	<p>Value of resistor, capacitor and inductor</p> <ol style="list-style-type: none"> 1. Resistances are shown in Ω, $k\Omega$, $M\Omega$ and ∞. 2. Unless otherwise noted in schematic, all capacitor values less than 1 μF are expressed in pF and the value zero (0) is 0 μF. 3. Unless otherwise noted in schematic, all inductor values more than 1 μH are expressed in mH and the values less than 1 mH are in μH. 	<p>Observation of voltages and waveforms</p> <ol style="list-style-type: none"> 1. Voltages read with VTVM from point to chassis ground. 2. Use voltage in 200V-V500V range. Signal pattern is "color-bar". 3. The schematic shows the approximate value in the impedance position. 4. All waveforms are taken using a standard oscilloscope and in the density position. 5. Screen FINE TUNING ADJ. CONTROL, REVERSEMENT and COLOR CONTROL for DISC 1, make sure that COLOR and BRIGHTNESS are in stop position and CONTRAST is in 75%. 6. Waveforms are taken using a standard oscilloscope.





LG Electronics Inc.

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