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COLOR TV

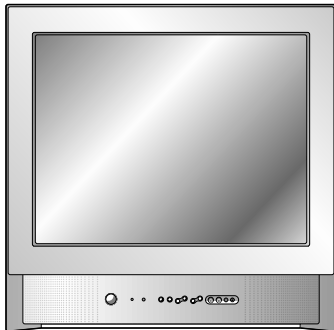
SERVICE MANUAL

CHASSIS : MC-049B

MODEL:RZ-21FB35MX/RX

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.

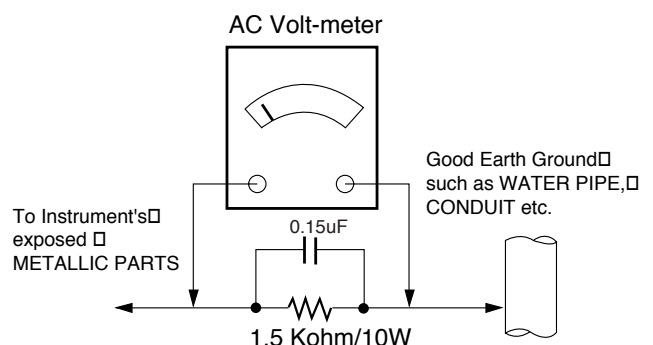
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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.

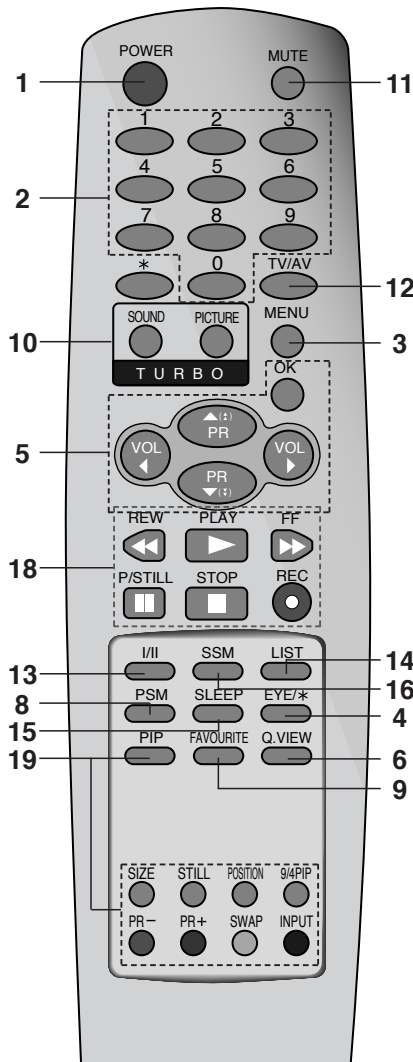
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit

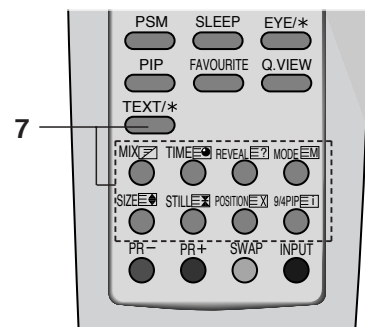


DESCRIPTION OF CONTROLS

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.



(Without TELETEXT / With PIP)



(With TELETEXT / PIP)

Remote control handset

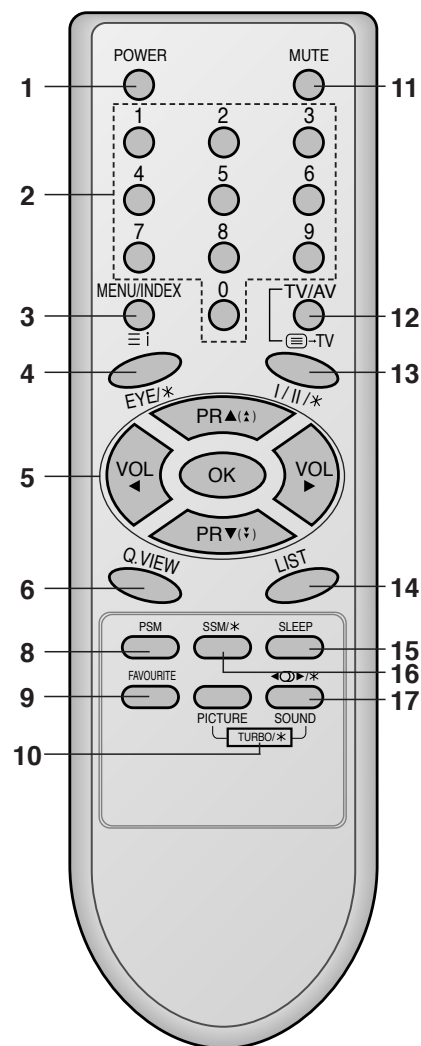
Before you use the remote control handset, please install the batteries. See the next page.

- 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**
selects a menu.
- 4. EYE/* (option)**
switches the eye function on or off.
- 5. ▲ / ▼ (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.
- 4. OK**
accepts your selection or displays the current mode.
- 6. Q.VIEW**
returns to the previously viewed programme.
- 7. TELETEXT BUTTONS (option)**
These buttons are used for teletext.
For further details, see the 'Teletext' section.
- 8. PSM (Picture Status Memory)**
recalls your preferred picture setting.
- 9. FAVOURITE**
selects a favorite programme.
- 10. TURBO PICTURE / SOUND BUTTON (option)**
selects Turbo picture and sound.
- 11. MUTE**
switches the sound on or off.
- 12. TV/AV**
selects TV or AV mode.
switches the set on from standby.

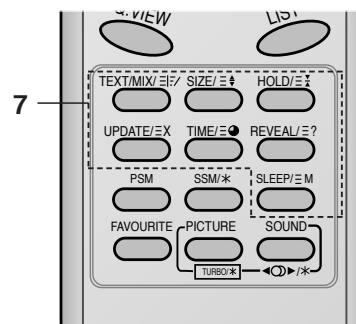
- 13. I/II/* (option)**
selects the language during dual language broadcast. (option)
selects the sound output.
- 14. LIST**
displays the programme table.
- 15. SLEEP**
sets the sleep timer.
- 16. SSM/* (option) (Sound Status Memory)**
recalls your preferred sound setting.
- 17. SURROUND (◀▶/*) (option)**
selects surround sound.
- 18. VCR BUTTONS**
control a LG video cassette recorder.
- 19. PIP BUTTONS (option)**
PIP
switches the sub picture on or off.
PR +/-
selects a programme for the sub picture.
SWAP
alternates between main and sub picture.
INPUT
selects the input mode for the sub picture.
SIZE
adjusts the sub picture size.
STILL
freezes motion of the sub picture.
POSITION
relocates the sub picture in clockwise direction.
9/4 PIP
switches on or off the 9 or 4 sub pictures.

*** : No function**

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



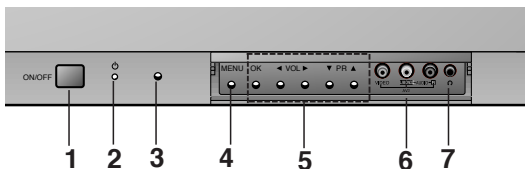
(Without TELETEXT / PIP)



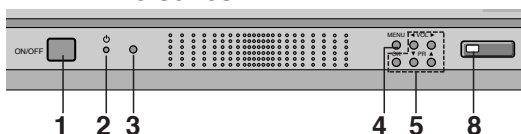
(With TELETEXT / Without PIP)

Front panel

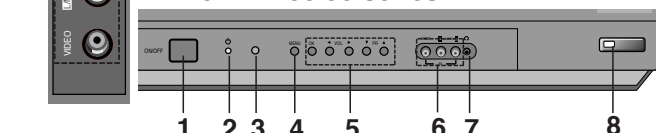
RZ-21FA35 series



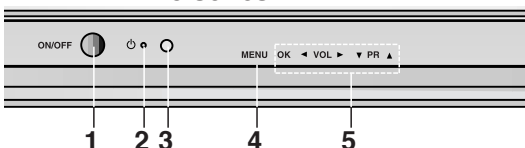
RZ-21FB25 series



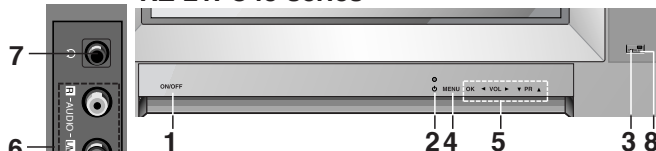
RZ-15/21FB55/56 series



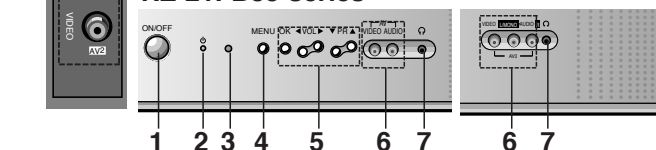
RZ-17/21FB75 series



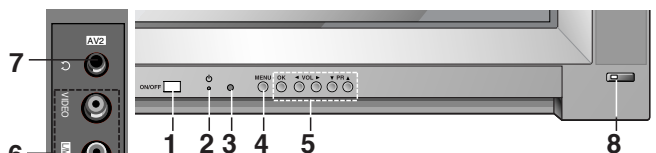
RZ-21FC45 series



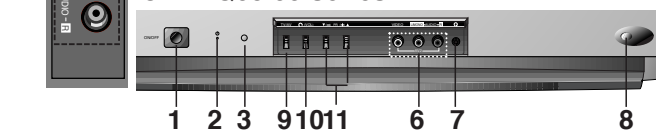
RZ-21FB35 series



RZ-15/21FB95 series



CZ-21Q65/66 series



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.
3. **REMOTE CONTROL SENSOR**
4. **MENU**
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. **AUDIO/VIDEO IN SOCKETS (AV2) (option)**
Connect the audio/video out sockets of external equipment to these sockets.
7. **HEADPHONE SOCKET (option)**
Connect the headphone plug to this socket.
8. **EYE (option)**
adjusts picture according to the surrounding conditions.
9. **TV/AV (option)**
selects TV or AV mode.
clears the menu from the screen.
switches the set on from standby.
10. **⌂ (Function) (option)**
selects volume, EYE (option), picture items or brief auto programme while the menus not display.
11. **+ / - (▲ / ▼) (option)**
adjusts the function or selects a programme.
switches the set on from standby.
12. **TURBO SOUND / PICTURE (option)**
switches Turbo sound or Turbo picture function on or off.

Note :

- a. Do not place any heavy objects (over 4Kg) on the RZ-21FA35 series models.
- b. Shown is a simplified representation of front or side panel. Here shown may be somewhat different from your set.

SPECIFICATIONS

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

■ Scope

This specification can be applied to all the television related to MC-049B Chassis.

■ Test and Inspection Method

- 1) Capacity : Follow LG electronics TV testing Standard.
- 2) Another Required Standard
 - EMI : Following CE Standard (EN55020, EN55013)
 - Safety : Following CB Standard (EN55013)

■ Requirement for Test

Testing for standard of each par must be followed in below condition

- 1) Temperature : $20 \pm 5^{\circ}\text{C}$
(CST must be tested $40 \pm 5^{\circ}\text{C}$. Humidity : 50%)
- 2) Relative Humidity : $65 \pm 10\%$
- 3) Power : Standard input Voltage (110~240V, 50/60Hz)
- 4) Measurement must be performed after heat-run more than 20min.
- 5) Adjusting Standard for this chassis is followed a special standard.

■ General Specification

No	Item	Specification	Remark
1	Receiving System	1) PAL/SECAM BG 2) PAL/SECAM DK 3) PAL I/I 4) NTSC M 5) SECAM-L/L' 6) NTSC 4.43(AV)	For EU/ For Non EU
2	Receiving Channel	1) VHF : E2 ~ E12 UHF : E21 ~ E69 CATV : S1 ~ S20 HYPER : S21 ~ S41 2) L/L' : B,C,D	For EU/ For Non EU
		3) VHF : 02 ~ 13 UHF : 14~ 69 CATV : 02 ~ 71	NTSC-M (Multi - model)
3	Input Voltage	110-240V~, 50/60Hz 240V~, 50Hz	Non EU EU
4	Market	EU,CIS, China, Asia, Africa	
5	Screen Size	14" ~ 21"	FLAT / CONVENTIONAL
6	Tuning System	FVS 100Program	
7	Operating Environment	1) Temp. : 0 ~ 45 deg 2) Humidity: 85% under	200 PR. (OPTION)
8	Storage Environment	1) Temp. : -20 ~ 60 deg 2) Humidity: 85% under	

ADJUSTMENT INSTRUCTIONS

1. Application Object

These instructions are applied to all of the color TV, MC-049B.

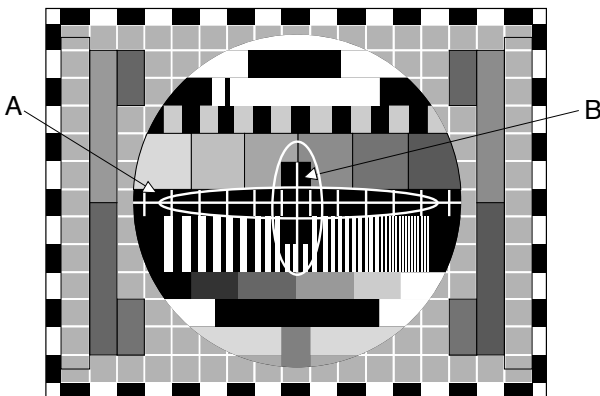
2. Notes

- (1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
- (2) Adjustment must be done in the correct order. But the adjustment can be changed by consideration of mass production.
- (3) The adjustment must be performed in the circumstance of $25 \pm 5^\circ\text{C}$ of temperature and $65 \pm 10\%$ of relative humidity if there is no specific designation.
- (4) The input AC voltage of the receiver must keep rating voltage in adjusting.
- (5) The receiver must be operated for about 15 minutes prior to the adjustment.

3. Focus adjustment

3.1. Preliminary steps

Tune the TV set to receive a digital pattern.
(SVC mode: Automatically mode change the STANDARD MODE)



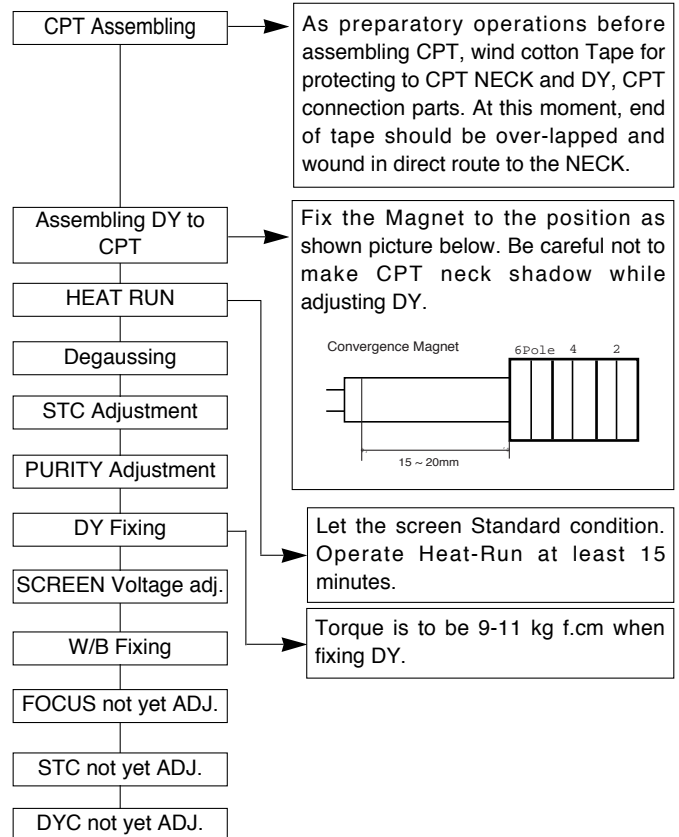
<Fig 1. PAL Digital Pattern(EU05CH)>

3.2. Adjustment Method

1) Single Focus CPT

Adjust the upper Focus volume of FBT for the best focus of horizontal line A, vertical line B.

4. Purity & Convergence adjustment



4.1. Color purity adjustment

- (1) It makes CPT enough to demagnetization.
- (2) Receive the signal of red raster.
- (3) Loosen fixed screw of DY and closely to CPT funnel part.
- (4) Check the center of screen that PURITY MAGNET of CPT by crossing adjustment. At this time, 4 & 6 pole magnet is located to magnet of nothing.
- (5) Move the DY to make equal red on whole screen and it does not to make the DY by fixed screw after check a simple color of Red/Green/Blue and white raster whether or not it is a pollution of color.
(At this time, take care raster of screen and DY must fixing in the condition which maintains a horizontality.)
- (6) Check the receiver by move direction. When adjustment is not working, adjust with the assisted MAGNET.

4.2. Convergence adjustment

These adjustments can the best condition of focus after finished purity adjustment.

- (1) Receive the signal of CROSS HATCH that BACK RASTER is black.
- (2) Adjust brightness and luminosity till dot appear 9 ~ 12.
- (3) Open angle of the two tab of 4 pole MAGNET by isogonic angle and accord with vertical line of red and blue color in the middle of screen.

- (4) Maintain as angle of (3) and rotate the tab to accord with vertical line of Red and Blue color in the middle of screen.
- (5) Open angle of the two tab of 6 pole magnet by isogonic angle and accord with vertical line of Red/Blue and Green.
- (6) Maintain as angle of (5) and rotate the tab to accord with horizontal line. In case of twisted horizontal line, repeat adjustment of (3) ~ (5) remembering the movement of Red/Green/Blue color.
- (7) Move the DY to best condition of convergence and attach the CPT to a rubber-check for fixed DY.

5. Screen voltage adjustment

- (1) Receive the PAL or SECAM(NTSC) signal into RF mode regardless of channel.
- (2) If you press the "ADJ" button in LINE SVC mode(IN-START button), the LINE SVC mode changes to screen adjustment mode.
- (3) Adjust the screen volume of FBT jack, When width line is seen turn the FBT screen volume at the position of disappearance it.
- (4) Press the TV/AV button to exit SVC mode.

6. White balance adjustment

NOTE : When adjusting white balance automatically, connect the adjustment JIG in SVC mode. (When pressing ,MUTE button on remote control, it changes to CPU OFF MODE and screen displays "AUTO".)

- (1) Receive 100% white pattern.
- (2) Adjust LOW Light status(4.5FL) of CUT R, CUT B at CG:60.
- (3) Adjust HIGH Light status(35FL) of WDR R, WDR B at WDR G:450.
- (4) Repeat above step (2) and (3) for the best condition each status of High Light and Low Light.

<Table 1> White Balance Color analyzer

Menu	EU	N-EU
X	288	266
Y	295	273
Color Temperature	9000°K	13000°K

<Table 2> White Balance Initial Data

Menu	Menu	Range	DATA
LOW LIGHT	CUT R	0 ~ 511	60
	CUT G	0 ~ 511	60
	CUT B	0 ~ 511	60
HIGH LIGHT	WDR R	0 ~ 511	450
	WDR G	0 ~ 511	450
	WDR B	0 ~ 511	450

* Auto adjustment

<Table 3> White Balance Initial Data

1. IC

	Name	Maker	Algorithm		
VCD IC	VCT49xyi	Micronas	0	A	0
EP_ROM	24C16	ST, ATMEL			

2. White balance IIC Parameter

Program	TWBeng_v049	Program	TWBeng_v049	Speed	Delay
Vcd Slave	BCF0	Eprom_Slave	AE	1	30

	R_Amp	R_Cut	B_Amp	B_Cut
Program	TWBeng_v049	TWBeng_v049	TWBeng_v049	TWBeng_v049
Sub Add	1C8	1C3	1CA	1C5
Start Bit	12	12	12	12
Stop Bit	4	4	4	4
Offset	0	0	0	0
Polarity	1	1	1	1
EP_Rom_S	9091	8A8B	9495	8E8F

Speed/ Plus	1	1	1	1
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<CAUTION> W/B Program "Twbeng_v049"

- W/B adjustment after Cutoff
: Instart -> adj. -> mute(cutoff)-> tv/av(wb)
Release key is EXIT key
- W/B adjustment
: Instart -> mute(cpuoff)
Release key is TV/AV key

7. Deflection setting Data Adjustment

7.1 Adjustment preparation

- (1) Tune the TV set to receive an Digital pattern(EU05CH).
- (2) Deflection setting data adjustment is operate by SVC communicator.
- (3) Enter the deflection adjustment mode by selection SERVICE1 on SERVICE MENU after pressing LINE SVC MODE(IN-START KEY).
- (4) Use the CH ▲, ▼ key to select adjustment item.
- (5) Use the VOL ◀, ▶ key to increase/decrease data.

<Note>

- (1) When adjusting a deflection, adjust N50Hz of PAL signal first and adjust a deflection at Normal 60Hz(NTSC).
- (2) Adjust a deflection as shown below.
PAL 4:3 -> NTSC 4:3
- (3) After finishing deflection adjustment, press the ENTER key to exit in adjustment mode.

* Before adjusting the PIP P(PIP Position), store the deflection data in the EEPROM by using the "ENTER" key.

7.2 Adjustment

- (1) VL(Vertical Linearity) adjustment:
Adjust the top & bottom size of inner circle to be equal.
- (2) VA (Vertical Amplitude) adjustment:
Adjust so that the circle of a digital circle pattern should be located interval of 6~7mm from the effective screen of the CPT.
- (3) SC (S correction) adjustment:
Adjust so that all distance between each lattice width of top/center/bottom are to be the same.

* Setting the CPT Default(Initial data) value like that, because it is decide by CPT DY value

(4) VS (Vertical Shift) adjustment:

Adjust so that the geometric vertical center line is in accord with vertical center line of CPT.

(5) HS(Horizontal Shift) adjustment:

Adjust so that the geometric horizontal center line is in accord with horizontal center line of CPT.

<Table 4> Initial deflection setting data

Menu	Variable range	N50Hz(PAL) FLAT 21"	N60Hz(NTSC) FLAT 21"
VS	-512~511	150	140
VA	-512~511	-12	-12
VL	-512~511	140	140
SC	-512~511	6	6
HS	32~2047	100	123

8.OPTION Adjustment

8-1. Preparation for Adjustment

- 1) This option adjustment decides function in accordance with model. Press IN-START button on SVC communicator, then adjust the option at OPTION1 mode.
- 2) Mark the option adjustment data like [111,111,111,111] in BOM.

8-2. Adjustment Method

OPTION data input

- 1) Function : YES, No function : NO
- 2) Select each OPTION function by the CH Up/Down button and then set up each OPTION(yes or no) by the VOL Up/Down button.

8-3. OPTION 1

Option	Code	Function
INCH	0	21A
	1	21B
	2	21C
	3	29F/25F
	4	28WF/32WF
	5	28N
	6	34F
SYS	7	29N/25N
	0	BG/I/DK
	1	BG/I/DK/L
	2	BG/I/DK/M
SOUND	3	BG/L
	0	RF STEREO
	1	AV STEREO
	2	MONO
CH+AU	3	MONO DUAL
	0	Using
	1	Not using

8-4. OPTION2 Function

Option	Code	Function
AV2	0	Without A/V2
	1	With AV2
DVD	0	Without DVD
	1	With DVD
SCART1	0	Without SCART1
	1	With SCART1
GAME	0	Without GAME function
	1	With GAME function
EYE	0	Without EYE
	1	With EYE
TX	0	LARGE
	1	SMALL
KEY	0	6,8 KEY
	1	4 KEY
DEGAU	0	Without DEGAU
	1	Whit DEGAU

8-5. OPTION3 Function

Option	Code	Function
TEXT	0	Without TEXT (200PR)
	1	With TEXT (100PR)
TOP	0	FLOP
	1	TOP
ACMS	0	Without ACMS
	1	With ACMS
I 2 SV	0	Without I 2 SV
	1	With I 2 SV
VOL	0	VOL 0
	1	VOL 1
TSEAR	0	Without TURBO SEARCH
	1	With TURBO SEARCH
T P-S	0	Without TURBO PICTURE/ SOUND
	1	With TURBO PICTURE/ SOUND
HDEV	0	Without HDEV
	1	With HDEV

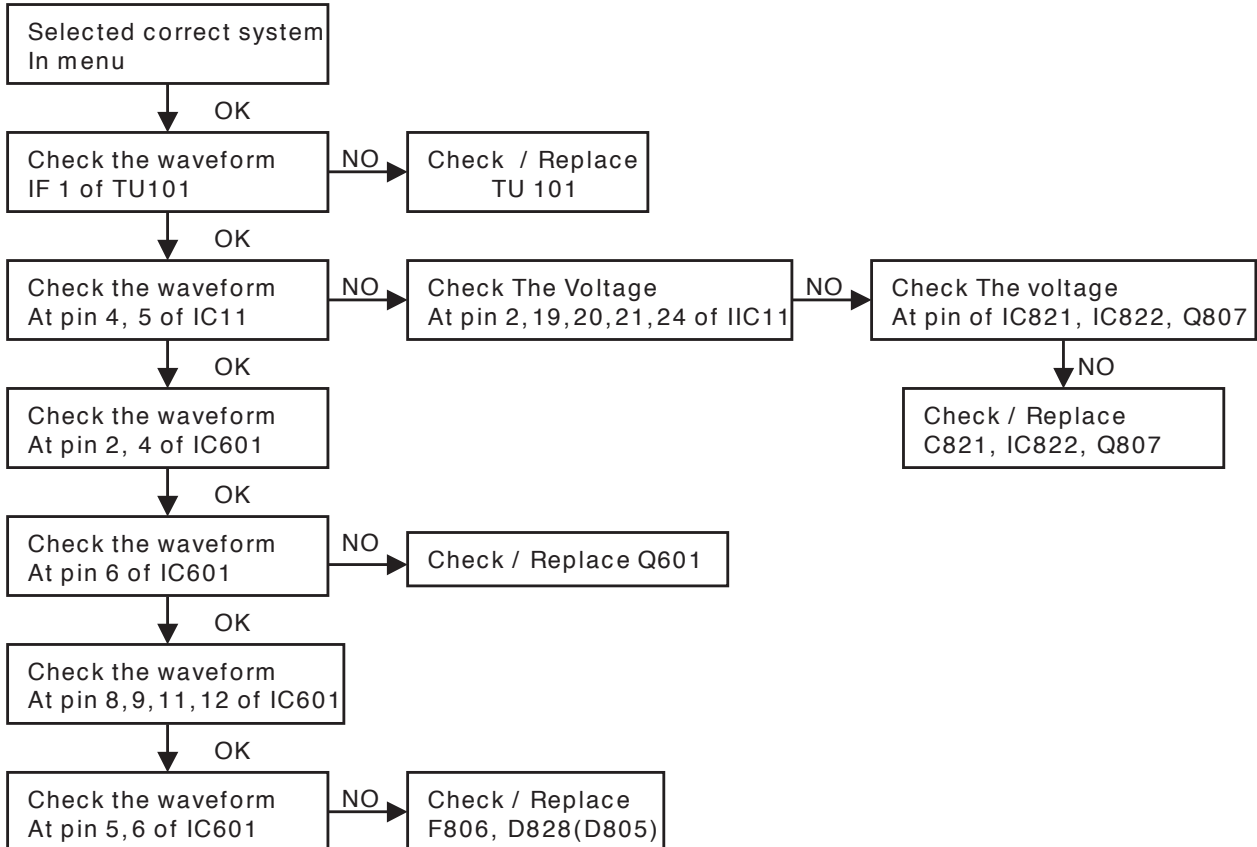
8-6. OPTION4 Function

Option	Code	Function
OSD L	0	ENG ONLY
	1	EU-5EA
	2	EU ETC
	3	GREECE
	4	EU-ALL
	5	FARSI
	6	ARAB URDU
	7	E+HINDI
	8	E+I+M+V
	9	E+THAI
	10	E+CHINA
TXT L	0	WEST EU
	1	EAST EU1
	2	TURKEY EU
	3	EAST EU2
	4	CYRILLIC1
	5	CYRILLIC2
	6	CYRILLIC3
	7	TURK GRE1
	8	TURK GRE2
	9	TURK GRE3
	10	ARAB FRA
	11	ARAB ENG
	12	ARAB HEB1
	13	ARAB HEB2
	14	FARS ENG
	15	FARS FA
	16	FARS ALL
	17	AUTO
HOTEL	0	WITHOUT HDEV
	1	WITH HDEV
MAX V	0~ 100	SETTING VOL MAX

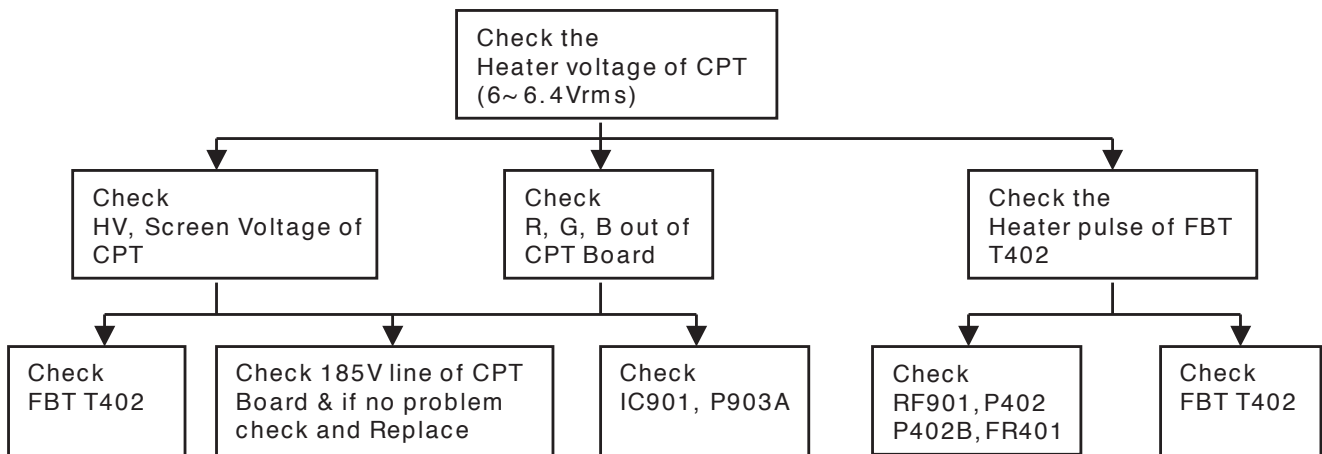
TROUBLE SHOOTING

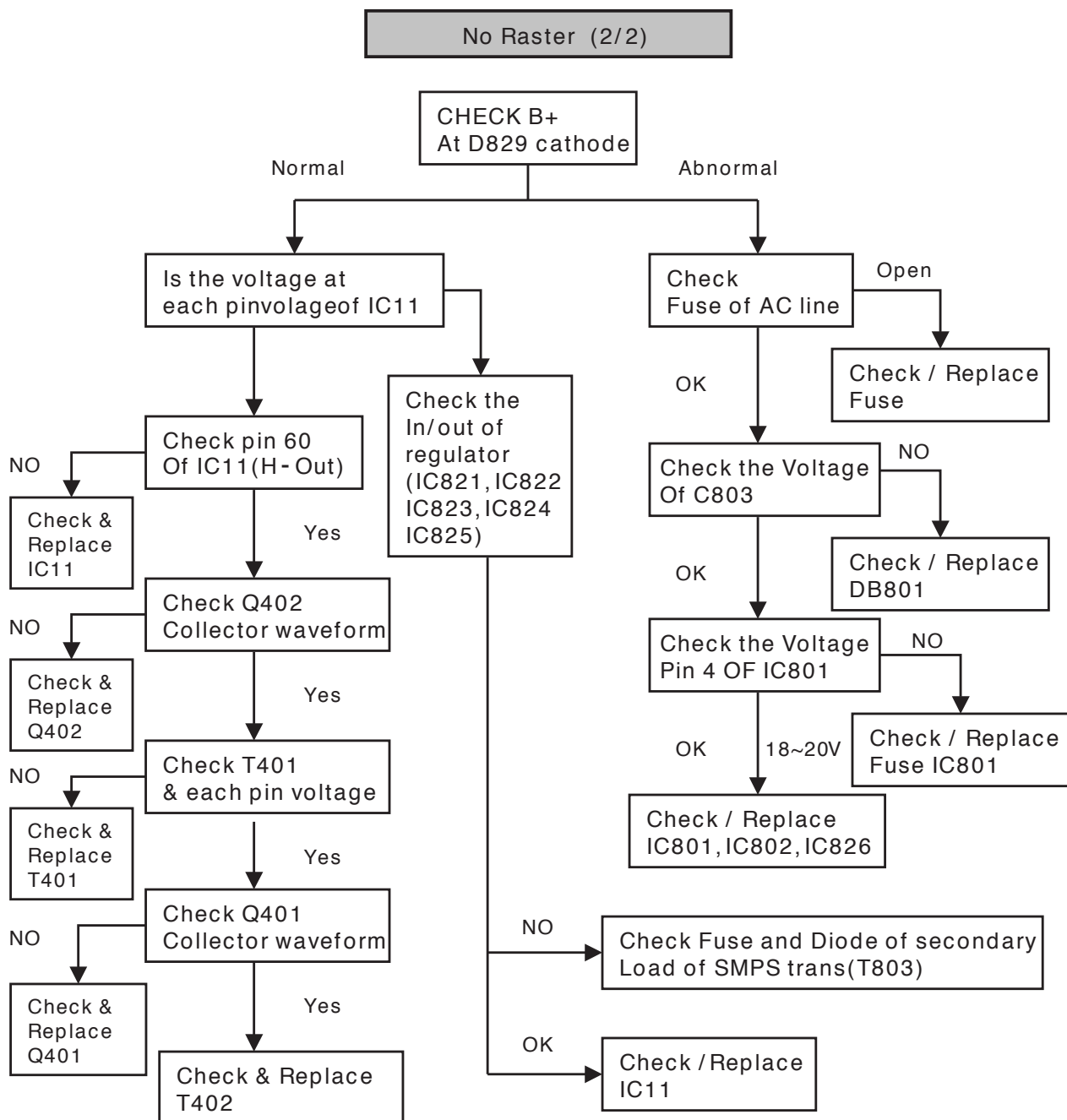
RF- STEREO MODEL

PICTURE O.K / NO SOUND

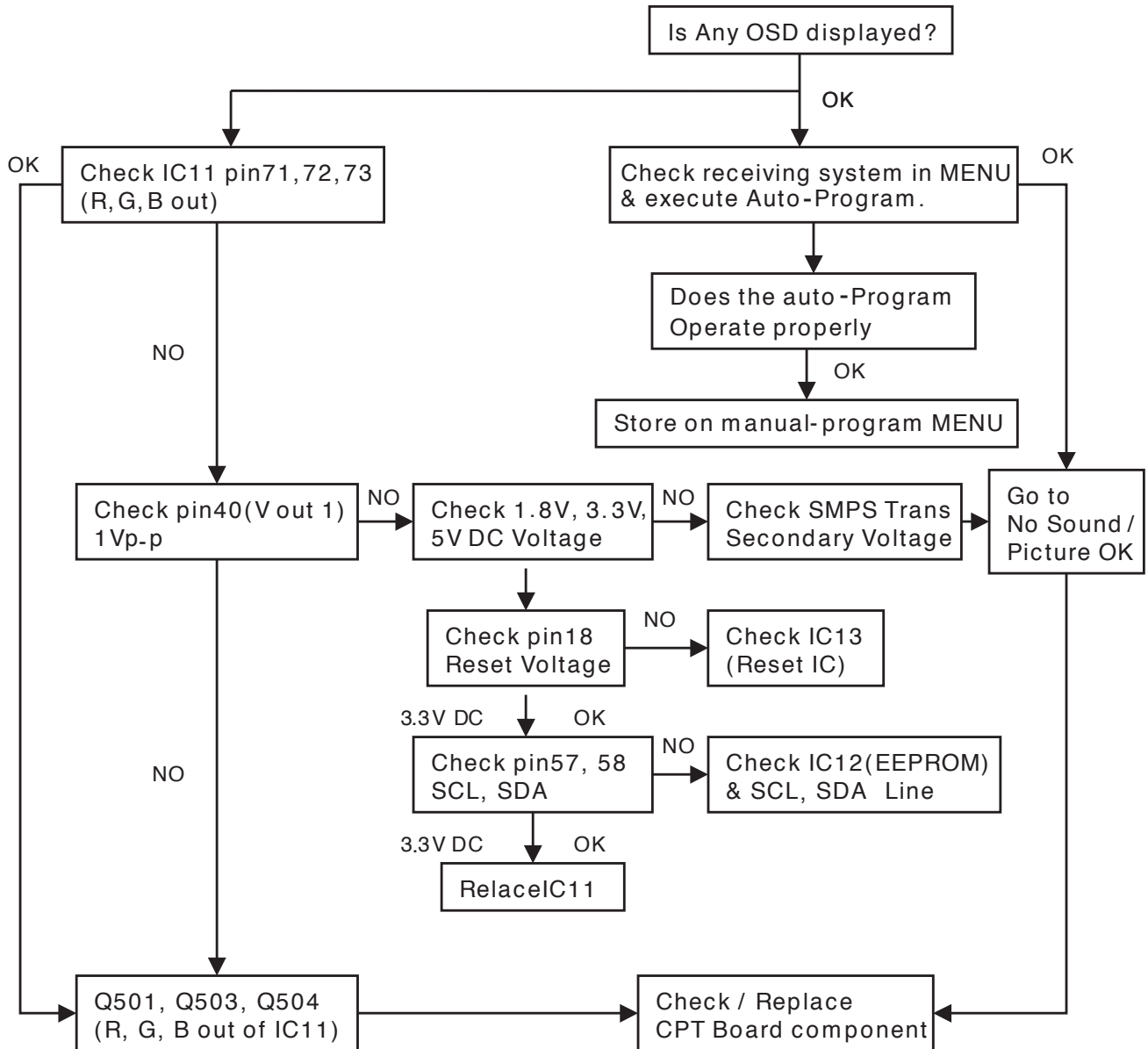


No Raster / Sound OK (1/2)

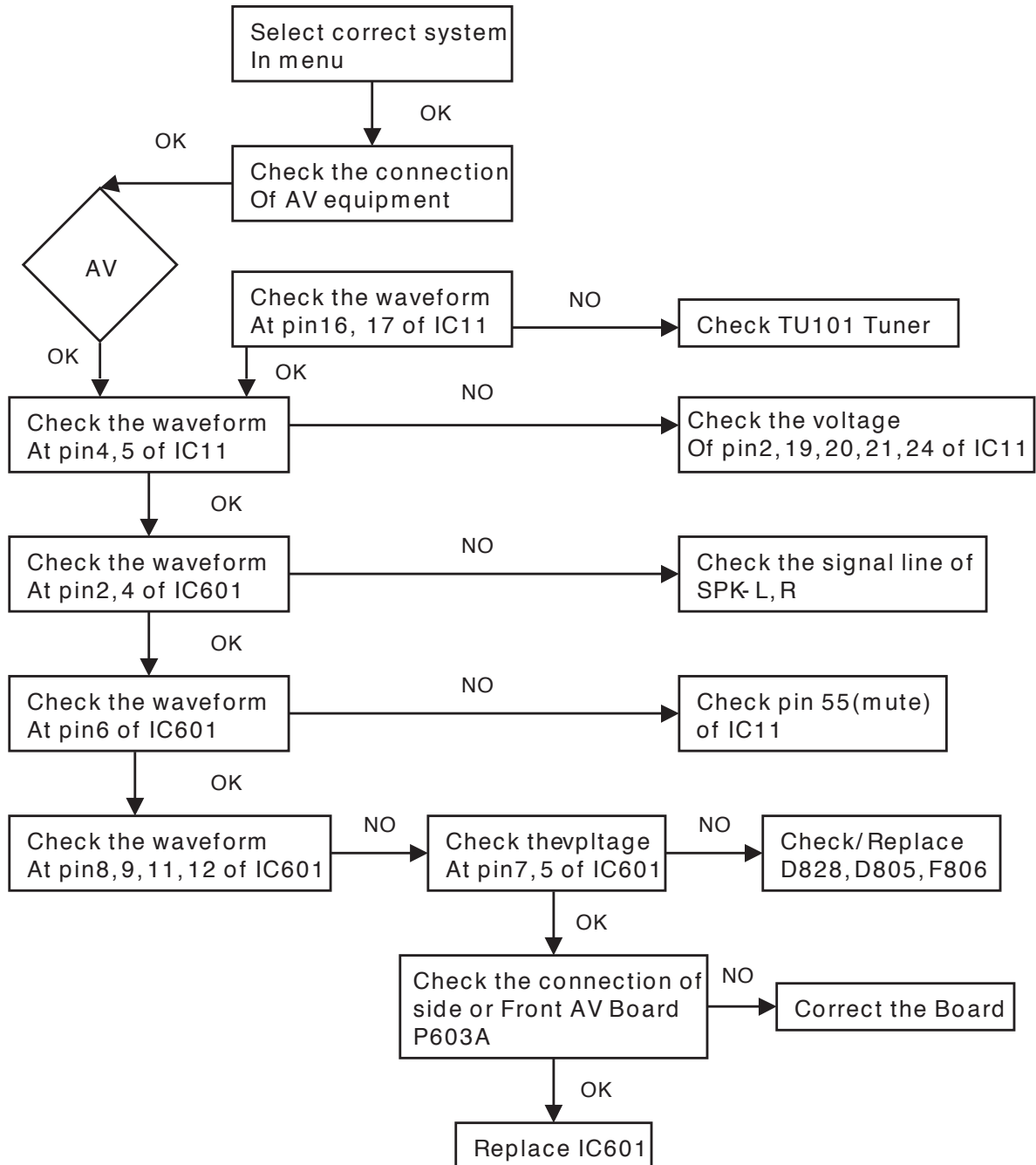




NO Picture / No Sound

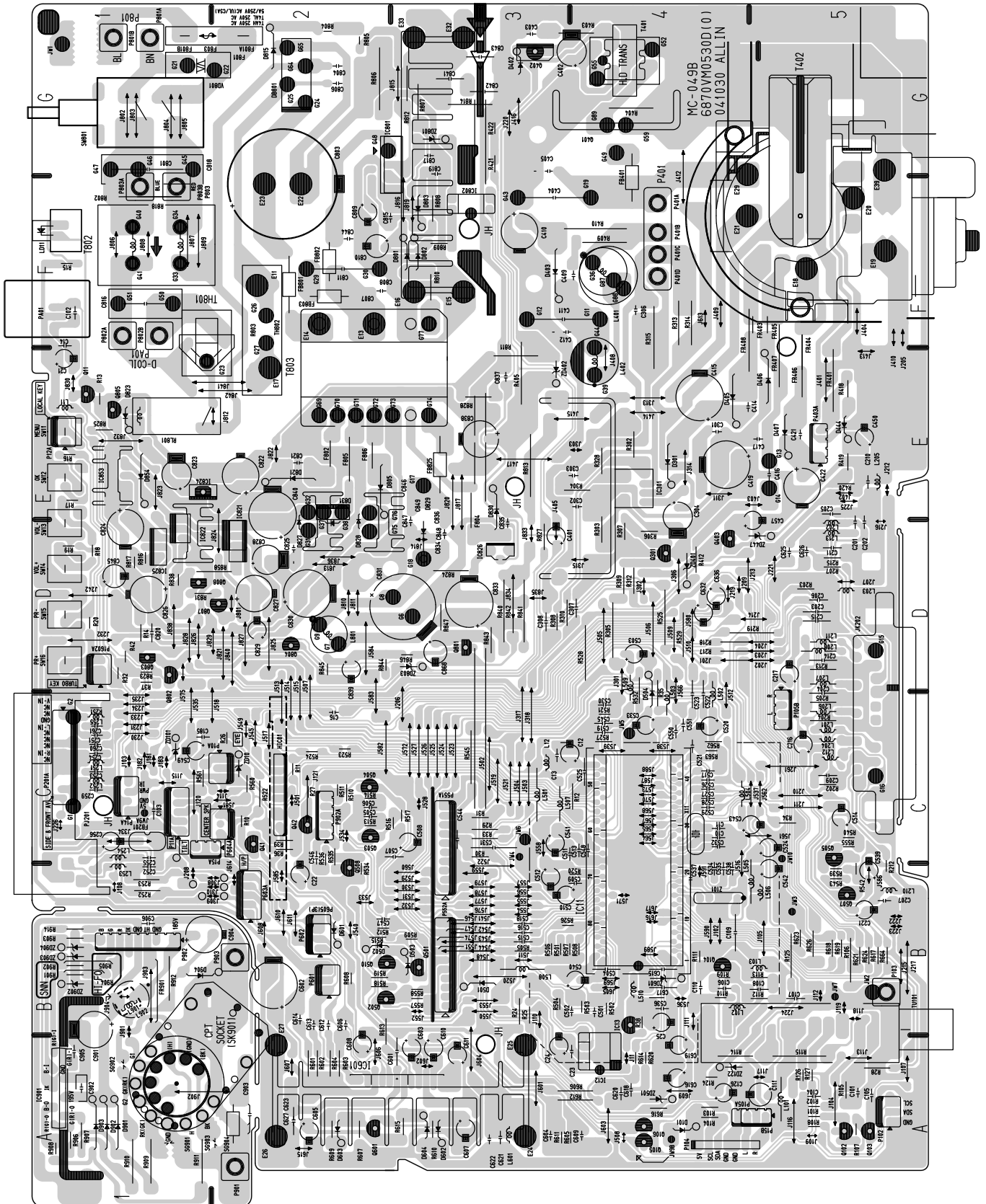


AV STERRO / MONO MODEL



PRINTED CIRCUIT BOARD

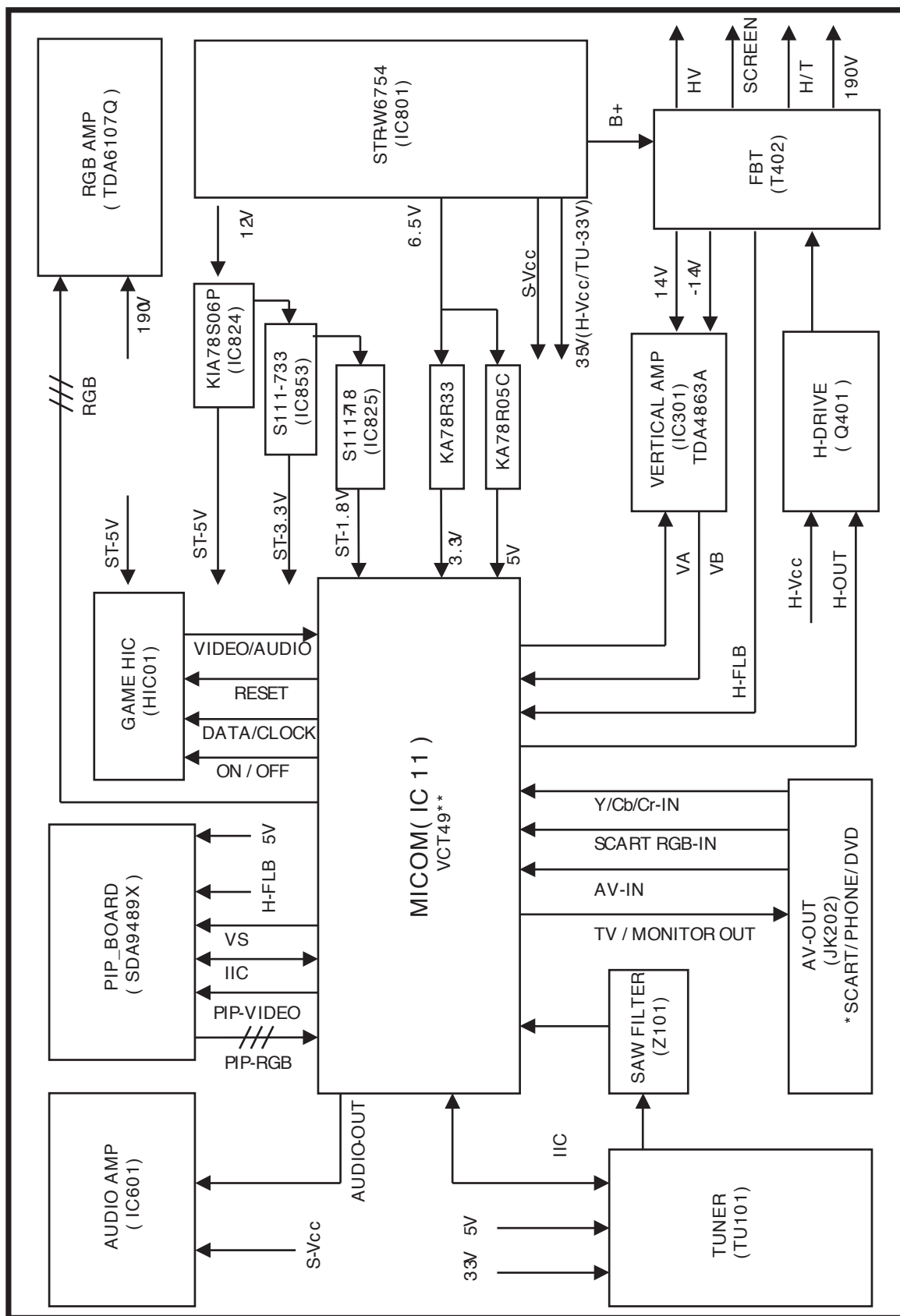
MAIN



COMPONENT LOCATION GUIDE

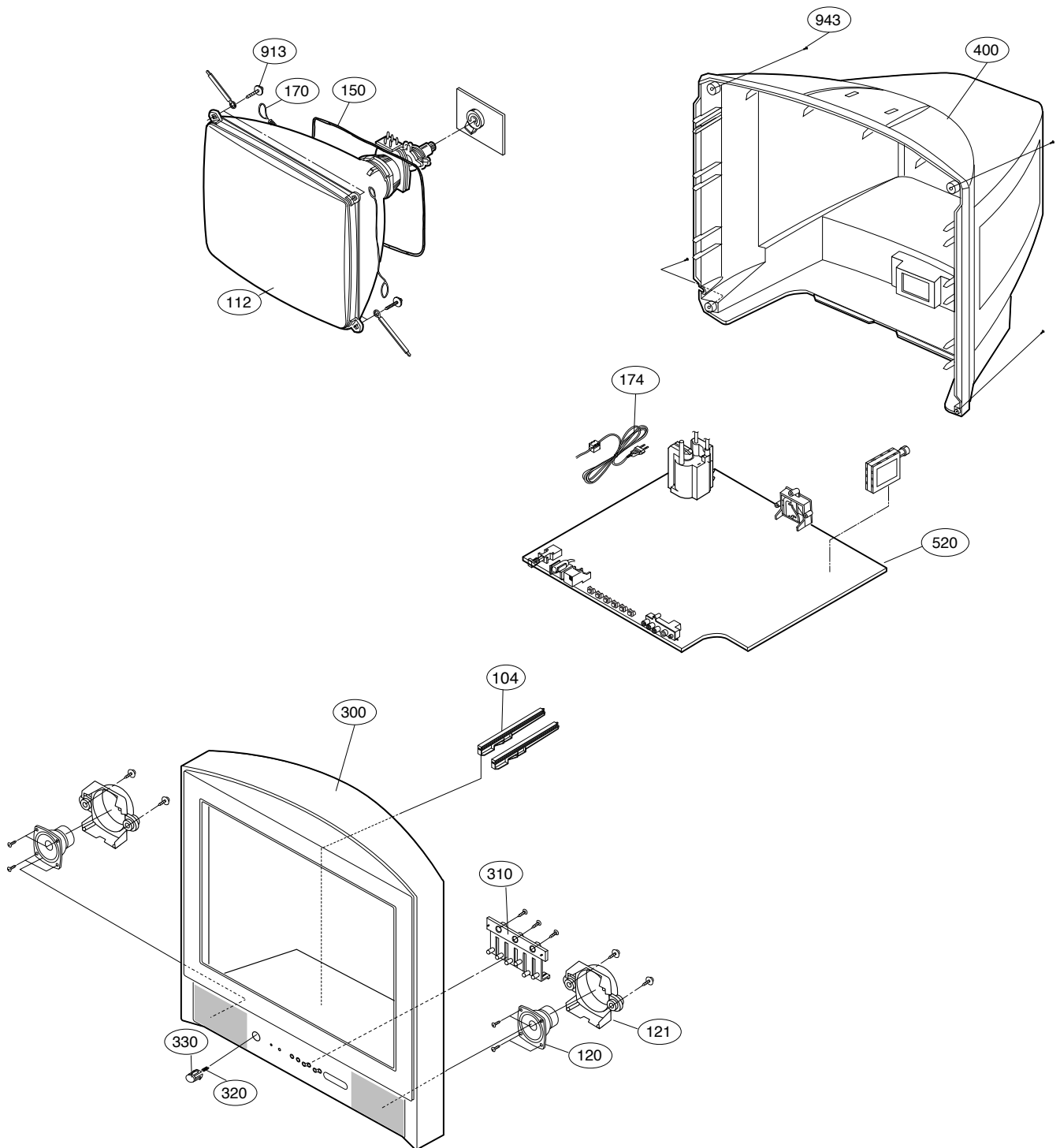
C10.....C4	C403.....G3	C541.....C3	C823.....E1	D827.....D2	P803A.....F1	R36.....C2	R410.....F4	R605.....A4	R904.....B1
C11.....C4	C404.....F3	C542.....B5	C824.....D1	D828.....D2	P803B.....F1	R37.....D1	R412.....D4	R606.....A4	R905.....B1
C12.....C4	C405.....G3	C543.....C5	C825.....D2	D829.....D3	P902A.....C2	R38.....B4	R418.....E5	R607.....A2	R906.....A1
C13.....C3	C409.....F4	C544.....C3	C826.....D1	D830.....E3	PA01.....F1	R39.....C2	R419.....E5	R608.....B2	R907.....A1
C14.....F1	C410.....F3	C545.....C4	C827.....D2	D854.....E1	PJ201.....C1	R42.....D1	R420.....E5	R609.....A2	R908.....A1
C16.....C2	C411.....F3	C546.....B2	C828.....D2	D901.....A1	Q11.....E1	R101.....A5	R421.....F3	R610.....A3	R909.....A1
C21.....E1	C412.....F4	C547.....B2	C829.....D2	D902.....A1	Q41.....C2	R102.....A5	R422.....G3	R611.....A3	R910.....A1
C22.....B2	C414.....E5	C548.....C4	C830.....D2	D903.....A1	Q42.....C2	R103.....A4	R501.....B3	R612.....A4	R911.....A2
C23.....A4	C415.....E4	C549.....C1	C831.....D3	D904.....B2	Q102.....A5	R104.....A4	R502.....B4	R613.....B3	R912.....B1
C25.....B4	C416.....E5	C550.....C4	C833.....D3	DB801.....G2	Q103.....A5	R105.....A4	R503.....B4	R614.....A4	R914.....B1
C101.....A5	C417.....E5	C551.....C4	C834.....D3	HIC01.....C2	Q104.....B4	R106.....B5	R504.....B3	R615.....A3	RL801.....E1
C102.....F1	C419.....E4	C601.....A3	C835.....E3	IC11.....B4	Q105.....A4	R107.....A5	R505.....B3	R616.....A4	SG901.....A1
C103.....C1	C421.....E5	C602.....B2	C836.....E3	IC12.....A4	Q106.....A4	R108.....A5	R506.....B3	R617.....B5	SG902.....A1
C104.....A5	C422.....E5	C603.....A3	C837.....E3	IC13.....B4	Q301.....D4	R109.....B4	R507.....B4	R618.....B5	SG903.....A2
C105.....A5	C450.....E5	C604.....A3	C838.....E3	IC301.....E4	Q401.....G4	R110.....B4	R508.....B4	R619.....B5	SG904.....A2
C106.....B4	C457.....D5	C605.....A2	C839.....D2	IC601.....A3	Q402.....G3	R111.....B4	R509.....B3	R620.....A4	SK901.....A1
C107.....B5	C501.....B4	C606.....B2	C840.....E2	IC801.....G2	Q403.....D4	R112.....B5	R510.....C2	R621.....B5	SW11.....E1
C108.....B5	C502.....B4	C607.....A3	C841.....G3	IC802.....F3	Q501.....B3	R113.....B5	R511.....C2	R623.....B5	SW12.....E1
C109.....B4	C503.....D4	C608.....B2	C842.....G3	IC821.....D2	Q502.....B2	R114.....A5	R512.....B3	R624.....B5	SW13.....D1
C110.....B4	C504.....B4	C609.....A4	C843.....G3	IC822.....E1	Q503.....C2	R115.....A5	R513.....C3	R626.....B5	SW14.....D1
C111.....A5	C505.....C3	C610.....A3	C844.....F2	IC824.....E1	Q504.....C2	R124.....A4	R514.....C3	R664.....B5	SW15.....D1
C126.....A4	C506.....C3	C611.....A3	C845.....D1	IC825.....D1	Q505.....C5	R125.....B5	R515.....B3	R802.....F1	SW16.....D1
C185.....C1	C507.....C3	C612.....B2	C846.....E3	IC826.....D3	Q507.....B5	R126.....A5	R516.....C3	R803.....E2	SW801.....G1
C201.....D5	C508.....C3	C613.....B2	C847.....D3	IC853.....E1	Q508.....B2	R127.....A5	R517.....C3	R804.....G2	T401.....G4
C202.....D5	C509.....B4	C614.....B2	C848.....D3	IC901.....A1	Q510.....B2	R202.....C5	R518.....B3	R805.....G2	T402.....F5
C203.....D5	C510.....B3	C615.....B4	C849.....D3	P102.....A5	Q601.....A2	R203.....D5	R519.....B3	R806.....G2	T802.....F1
C204.....C5	C511.....C4	C616.....A4	C868.....D3	P103.....B5	Q801.....D3	R204.....C5	R520.....B4	R807.....G3	T803.....F3
C205.....E5	C512.....B3	C617.....B4	C901.....B1	P104.....A4	Q802.....D1	R205.....C5	R521.....C4	R808.....F3	TH801.....F1
C206.....D5	C513.....C4	C618.....A4	C902.....A1	P601.....B2	Q803.....D1	R207.....D5	R522.....C2	R809.....F3	TH802.....F2
C207.....B5	C514.....C5	C619.....A4	C903.....A2	P602.....B2	Q804.....D2	R212.....C5	R523.....C2	R810.....F3	TU101.....B5
C209.....C5	C515.....B3	C620.....A4	C904.....B2	P605.....B2	Q805.....E1	R213.....D5	R524.....C2	R811.....E3	VD801.....G1
C210.....E5	C516.....B3	C621.....A3	C905.....A1	P901.....A2	Q807.....D2	R215.....D5	R525.....D4	R812.....G3	X11.....C4
C211.....D5	C517.....C4	C622.....A3	C906.....B1	P902.....B1	Q808.....D2	R217.....D5	R526.....B4	R813.....E3	Z101.....B4
C214.....D5	C518.....B3	C623.....A2	D101.....A4	P903.....B2	R10.....C2	R218.....D5	R527.....C4	R814.....G3	ZD10.....C2
C215.....D5	C519.....C4	C625.....D5	D301.....E4	P105A.....A5	R11.....C2	R219.....D5	R528.....D4	R816.....D1	ZD101.....C1
C216.....C5	C520.....C4	C626.....D5	D402.....G3	P105B.....C5	R12.....C4	R251.....C1	R529.....D4	R817.....D1	ZD122.....A4
C217.....D5	C521.....C4	C627.....A2	D403.....F3	P10A.....C2	R13.....E1	R252.....B1	R532.....C4	R818.....F1	ZD401.....D4
C221.....B5	C522.....C4	C632.....D4	D405.....E4	P11A.....C1	R14.....D1	R253.....B1	R534.....B2	R823.....D1	ZD402.....E3
C251.....C1	C523.....C4	C636.....D4	D406.....E5	P12A.....E1	R15.....F1	R302.....E4	R535.....B2	R824.....D3	ZD447.....D5
C252.....B1	C524.....C5	C801.....G1	D407.....E5	P14A.....C1	R16.....E1	R303.....D4	R536.....B2	R825.....E1	ZD501.....A4
C253.....C1	C525.....C4	C803.....F2	D444.....E5	P15A.....C2	R17.....E1	R304.....E4	R539.....B5	R827.....D3	ZD601.....B4
C254.....C1	C526.....C4	C804.....G2	D501.....B3	P15B.....A5	R18.....D1	R305.....D4	R540.....C5	R828.....E3	ZD801.....G3
C255.....C1	C527.....C4	C806.....G2	D502.....B2	P1602A.....D1	R19.....D1	R306.....D4	R542.....C5	R831.....D2	ZD803.....D3
C256.....C1	C528.....C4	C807.....F3	D503.....B3	P201A.....C1	R20.....D1	R307.....D4	R543.....B5	R838.....D1	ZD902.....B1
C259.....C1	C529.....C4	C808.....F3	D504.....D4	P401A.....F4	R24.....B3	R308.....D3	R545.....C3	R840.....D3	ZD903.....B1
C260.....C1	C530.....C4	C809.....F2	D601.....B2	P401B.....F4	R25.....B3	R309.....D4	R555.....C5	R841.....D3	ZD904.....B1
C261.....C1	C531.....C3	C810.....F2	D602.....A3	P401C.....F4	R26.....C2	R310.....D4	R557.....B3	R842.....D3	
C301.....E4	C532.....C4	C811.....F2	D603.....A2	P401D.....F4	R27.....C2	R312.....D4	R558.....B3	R843.....D3	
C302.....E4	C533.....C4	C815.....F3	D604.....A3	P403A.....E5	R28.....A5	R313.....F4	R560.....C2	R844.....D3	
C303.....E4	C534.....B4	C816.....F1	D801.....F3	P551A.....C3	R29.....C3	R314.....F4	R561.....C2	R845.....D2	
C304.....D4	C535.....B4	C817.....G3	D802.....F3	P603A.....B2	R30.....C3	R315.....F4	R562.....C4	R846.....D3	
C306.....F4	C536.....B4	C818.....G1	D803.....F3	P604A.....C2	R31.....C3	R328.....E4	R563.....C4	R847.....D3	
C307.....D4	C537.....C4	C819.....G3	D805.....E3	P801A.....G1	R32.....D1	R403.....G4	R601.....A2	R858.....D1	
C308.....D3	C538.....B4	C820.....D1	D815.....G2	P801B.....G1	R33.....C3	R404.....G4	R602.....A2	R901.....B1	
C401.....D3	C539.....C5	C821.....E2	D821.....E2	P802A.....F1	R34.....C5	R405.....F3	R603.....A2	R902.....B1	
C402.....G4	C540.....B4	C822.....E2	D823.....E1	P802B.....F1	R35.....C4	R409.....F4	R604.....A2	R903.....B1	

BLOCK DIAGRAM



MEMO

EXPLODED VIEW



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
104	343-B40C	SUPPORTER, PCB HIPS 40AF RN-21FB30
Δ 112	6335V21017A	CPT ASSEMBLY A51QDX993X005 N(+0.40G) 0G SDIH FLAT(MST,ITC),ZH 36
120	6400GESS01A	SPEAKER,FULLRANGE C070P01K1450 ESTEC 8OHM 10/20W 83DB 70
121	4810V00617A	BRACKET, SPEAKER RT-21FB30 ABS,HF-380
Δ 150	150-D02X	COIL,DEGAUSSING CU 21" 60TURN 12 OHM D02N (NYLON)
Δ 170	170-A01N	CPT EARTH, 21" 64T 2LUG 1P HSG CL-21Q20ET(PC-99DA)
Δ 174	174-009E	POWER CORD, POWER(W/HOLD,HOUSING,L=200,4.0
300	3091V00B13C	CABINET ASSEMBLY, RZ-21FB35MX MONO E_PHONE MC049B LGEMA LOCAL
	3091V00B13D	CABINET ASSEMBLY, RZ-21FB35RX STEREO E_PHONE MC049B LGEMA LOCAL
310	5020V00684B	BUTTON, CONTROL RZ-21FB35MX ABS, HF-380 6KEY LGEMA 117A
320	320-062D	SPRING, KNOB
330	5020V00685B	BUTTON, POWER RZ-21FB35MX ABS, HF-380 1KEY LGEMA 117A
400	3809V00A66B	BACK COVER ASSEMBLY, RZ-21FB35MX 1PHONE LGEMA MC049B
520	6871VMM794B	PWB(PCB) ASSEMBLY,MAIN MC049B RZ-21FB35MX.LDSLML8 M
	6871VMM794P	PWB(PCB) ASSEMBLY,MAIN MC049B RZ-21FB35MX.LPSLMI8 M
	6871VMM796D	PWB(PCB) ASSEMBLY,MAIN MC049B RZ-21FB35MX.LUSLMP3 M
	6871VMM796X	PWB(PCB) ASSEMBLY,MAIN MC049B RZ-21FB35RX.LUSLMR8 M/I
	6871VMM863A	PWB(PCB) ASSEMBLY,MAIN MC049B RZ-21FB35RX.LUSLMP8 M/I
	6871VMM863B	PWB(PCB) ASSEMBLY,MAIN MC049B RZ-21FB35MX.LUSLMR8 M/I
	6871VMM863D	PWB(PCB) ASSEMBLY,MAIN MC049B RZ-21FB35MX.LUSLMH8 M/I
	6871VMM863E	PWB(PCB) ASSEMBLY,MAIN MC049B RZ-21FB35RX.LUSLMH8 M/I
	6871VMM863L	PWB(PCB) ASSEMBLY,MAIN MC049B RZ-21FB35MX.LPSLMG8 M/I
	6871VMM863M	PWB(PCB) ASSEMBLY,MAIN MC049B RZ-21FB35RX.LPSLMG8 M/I
913	332-057J	SCREW,DRAWING PAN WASHER 6mm 35mm
943	1PTF0403116	SCREW TAP TITE(P),TRUSS HEAD + D4.0 L16.0 MSWR3/FZB

REPLACEMENT PARTS LIST

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
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LOCA. NO	PART NO	DESCRIPTION
IC		
IC12	0IMMRSG036C	M24C16-WBN6 8PIN PDIP ST 16M
IC13	0ILNRKE020B	KIA7027AP KEC TO-92 3P TP RE-SET IC
IC301	0IPMGPH002A	TDA4863A 7P SOT524-1 ST
IC601	0IPMGSA021A	LA42071 12P ST 7W 1CH AUDIO AMP
IC601	0IPMGSA021C	LA42152 13P ST 15W 2CH AUDIO AMP
IC801	0IPMGSK016B	STR-W6754 SANKEN 7PIN T0220F ST
IC802	0ILI817000G	LTV817M-VB 4P,DIP BK PHOTO COUPLER
IC821	0IMCRKE019A	KIA78R33API KEC 4P TO220 ST 3.3V 1A
IC822	0IMCRKE018A	KIA78R05API KEC 4P TO220 ST 5V 1A
IC824	0IMCRKE020A	KIA78S06P KEC 3P TO-92 TP 6V 0.15A
IC825	0IMCRAU003A	S1117-18PIC 3P TO220F ST 1.8V 1A
IC826	0ISK110000A	SE110N(LF12) 3P 110V ERROR AMP
IC853	0IMCRAU004A	S1117-33PIC 3P TO220F ST 3.3V 1A
IC901	0IPH610700B	TDA6107JF/N3 9P ST RGB AMP
TRANSISTOR		
Q104	0TR319709AB	KTC3197,TP(KTC388A),KEC
Q11	0TR126609AA	KTA1266-Y(KTA1015) TO92 50V 150MA
Q301	0TR198009BA	2SA1980Y TP AUK
Q401	0TRSA10004A	TT2170LS-YB11 ST TO-220FM 1500V 5A
Q402	0TR233109AA	KSC2331-Y TP SAMSUNG TO-92L
Q501	0TR198009BA	2SA1980Y TP AUK
Q502	0TR198009BA	2SA1980Y TP AUK
Q503	0TR198009BA	2SA1980Y TP AUK
Q504	0TR198009BA	2SA1980Y TP AUK
Q505	0TR534309AA	2SC5343Y TP AUK
Q507	0TR198009BA	2SA1980Y TP AUK
Q508	0TR534309AA	2SC5343Y TP AUK
Q510	0TR534309AA	2SC5343Y TP AUK
Q601	0TR198009BA	2SA1980Y TP AUK
Q802	0TR534309AA	2SC5343Y TP AUK
Q803	0TR102009AB	KRC102M(KRC1202) KEC TP
Q805	0TR534309AA	2SC5343Y TP AUK
Q807	0TR127409AB	KTA1274-Y TO-92L TP KEC
Q808	0TR102009AB	KRC102M(KRC1202) KEC TP
Q808	0TR102009AB	KRC102M(KRC1202) KEC TP
DIODE		
D301	0DD400509AA	1N4005 TP KEC
D403	0DRTW00164B	RG15J TP52 DO15 .V 1.5A 50A 250NSEC
D405	0DD060009AC	TVR06J TP - 600V 250NSEC -
D405	0DRTW00164B	RG15J TP52 DO15 .V 1.5A 50A 250NSEC
D406	0DD060009AC	TVR06J TP - 600V 250NSEC -
D406	0DRTW00164B	RG15J TP52 DO15 .V 1.5A 50A 250NSEC
D407	0DD060009AC	TVR06J TP - 600V 250NSEC
D501	0DD414809ED	1N4148 TP GRANDE
D502	0DD414809ED	1N4148 TP GRANDE
D503	0DD414809ED	1N4148 TP GRANDE

LOCA. NO	PART NO	DESCRIPTION
D504	0DD414809ED	1N4148 TP GRANDE
D601	0DD414809ED	1N4148 TP GRANDE
D602	0DD414809ED	1N4148 TP GRANDE
D603	0DD414809ED	1N4148 TP GRANDE
D604	0DD414809ED	1N4148 TP GRANDE
D801	0DD100009AM	EU1ZV(1) TP SANKEN
D802	0DD100009AM	EU1ZV(1) TP SANKEN
D803	0DD100009AM	EU1ZV(1) TP SANKEN
D815	0DD060009AC	TVR06J TP - 600V 250NSEC -
D821	0DD060009AC	TVR06J TP - 600V 250NSEC -
D823	0DD414809ED	1N4148 TP GRANDE
D827	0DRTW00141A	SFAF504G ST ITO220 200V 5A .A .SEC 10UA
D828	0DRTW00141A	SFAF504G ST ITO220 200V 5A .A .SEC 10UA
D828	0DRTW00141A	SFAF504G ST ITO220 200V 5A .A .SEC 10UA
D829	0DD300009AC	RU3AMV(1) TP SANKEN
D830	0DD060009AC	TVR06J TP - 600V 250NSEC
D854	0DD060009AC	TVR06J TP - 600V 250NSEC
D901	0DR210009AC	BAV21 TP DO35 200V 0.2A 1A 50SEC 100A
D902	0DR210009AC	BAV21 TP DO35 200V 0.2A 1A 50SEC 100A
D903	0DR210009AC	BAV21 TP DO35 200V 0.2A 1A 50SEC 100A
D904	0DR140049AC	1N4004A T-81 TP DO41 500V 1.0A 30A
DB801	0DRTW00131A	D2SB60 ST GBL 600V 1.5A .A .SEC 10UA
ZD101	0DZ510009BF	GDZ5.1B TP DO34 0.5W 5.1V 0.02A
ZD122	0DZ330009DG	GDZJ33B TP DO34 0.5W 33.0V
ZD401	0DZ510009BF	GDZ5.1B TP DO34 0.5W 5.1V 0.02A
ZD402	0DZ240009CG	MTZJ24B TP DO34 - 24V 5UA
ZD501	0DZ110009AD	MTZJ11B TP DO34 - 11V 5UA
ZD601	0DZ820009AH	MTZJ8.2B TP DO34 - 8.2V 5UA
ZD801	0DZ620009AH	MTZJ6.2A TP DO34 0.5W 6.2V 150UA
ZD803	0DZ560009CF	MTZJ5.6B TP DO34 0.5W 5.6V 5UA
CAPACITOR		
C10	0CX2200K409	22P 50V J SL TA52
C101	0CQ2721N409	0.0027UF D 100V 5% PE TP5
C103	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C104	0CN1030F679	10000PF D 16V 20% X5R TA52
C106	0CN1030F679	10000PF D 16V 20% X5R TA52
C107	0CN1030F679	10000PF D 16V 20% X5R TA52
C108	0CN1030F679	10000PF D 16V 20% X5R TA52
C109	0CN1030F679	10000PF D 16V 20% X5R TA52
C11	0CX2200K409	22P 50V J SL TA52
C110	0CN1030F679	10000PF D 16V 20% X5R TA52
C111	0CE227DD618	220UF STD 10V M FL TP5
C12	0CE107DD618	100UF STD 10V M FL TP5
C126	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C13	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C14	0CN1020K519	1000PF D 50V 10% B(Y5P) TA52
C201	0CN1010K519	100PF D 50V 10% B(Y5P) TA52
C202	0CN1010K519	100PF D 50V 10% B(Y5P) TA52
C203	0CN4710K519	470P 50V K B TA52

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C204	0CN4710K519	470P 50V K B TA52	C515	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C205	0CN1010K519	100PF D 50V 10% B(Y5P) TA52	C515	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C205	0CN4710K519	470P 50V K B TA52	C516	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C206	0CN4710K519	470P 50V K B TA52	C516	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C209	0CN4710K519	470P 50V K B TA52	C517	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C21	0CE107DD618	100UF STD 10V M FL TP5	C518	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C211	0CN1010K519	100PF D 50V 10% B(Y5P) TA52	C518	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C211	0CN4710K519	470P 50V K B TA52	C519	0CN1010K519	100PF D 50V 10% B(Y5P) TA52
C214	0CN4710K519	470P 50V K B TA52	C520	0CE107DD618	100UF STD 10V M FL TP5
C215	0CN4710K519	470P 50V K B TA52	C521	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C216	0CE226DF618	22UF STD 16V M FL TP5	C523	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C217	0CE226DF618	22UF STD 16V M FL TP5	C524	0CE107DD618	100UF STD 10V M FL TP5
C221	0CE476DH618	47UF STD 25V 20% FL TP 5	C525	0CN3310K519	330P 50V K B TA52
C23	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52	C526	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C24	0CE226DD618	22UF STD 10V 20% FL TP 5	C527	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C25	0CE105DK618	1UF STD 50V M FL TP5	C528	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C252	0CN2710K519	270P 50V K B TA52	C529	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C253	0CN1010K519	100PF D 50V 10% B(Y5P) TA52	C530	0CN1010K519	100PF D 50V 10% B(Y5P) TA52
C254	0CN1010K519	100PF D 50V 10% B(Y5P) TA52	C531	0CN1010K519	100PF D 50V 10% B(Y5P) TA52
C255	0CN2710K519	270P 50V K B TA52	C532	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C256	0CE106DH618	10UF STD 25V M FL TP5	C533	0CE107DD618	100UF STD 10V M FL TP5
C260	0CN1010K519	100PF D 50V 10% B(Y5P) TA52	C534	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C261	0CN4710K519	470P 50V K B TA52	C535	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C303	0CQ1041N409	0.1UF D 100V 5% PE TP5	C536	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C304	0CE107DJ618	100UF STD 35V M FL TP5	C537	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C306	0CQ3331N509	0.033UF D 100V 10% PE TP5	C538	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C402	0CE475DK618	4.7UF STD 50V 20% FL TP 5	C540	0CE107DD618	100UF STD 10V M FL TP5
C403	0CQ1521N509	0.0015UF D 100V 10% PE TP5	C541	0CE107DD618	100UF STD 10V M FL TP5
C404	181-015E	MPP 1600V 0.0068UF H	C542	0CE107DD618	100UF STD 10V M FL TP5
C405	181-091U	R 220PF 2KV 10%,-10% R/TP TP7.5	C543	0CE107DD618	100UF STD 10V M FL TP5
C409	0CK8210W515	820P 500V K B TS	C545	0CX2200K409	22P 50V J SL TA52
C410	0CE475DP618	4.7UF STD 160V 20% FL TP 5	C546	0CN1510K519	150P 50V K B TA52
C411	181-013P	MPP 400V 0.33UF J	C547	0CN2710K519	270P 50V K B TA52
C414	0CK2710W515	270P 500V K B TS	C548	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C415	0CE477DH618	470UF STD 25V M FL TP5	C550	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C416	181-009R	PP 200V 0.022UF K	C601	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C417	0CK2710W515	270P 500V K B TS	C602	0CE477DH618	470UF STD 25V M FL TP5
C419	0CE477DH618	470UF STD 25V M FL TP5	C603	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C421	0CK2710W515	270P 500V K B TS	C604	0CQ2231N509	0.022UF D 100V 10% PE TP5
C422	0CE475DR618	4.7UF STD 250V 20% FL TP 5	C605	0CE476DF618	47UF STD 16V M FL TP5
C501	0CQ6831N509	0.068UF D 100V 10% PE TP5	C606	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF
C502	0CQ6831N509	0.068UF D 100V 10% PE TP5	C607	0CE106DF618	10UF STD 16V M FL TP5
C503	0CE475DK618	4.7UF STD 50V 20% FL TP 5	C608	0CE106DF618	10UF STD 16V M FL TP5
C504	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52	C609	0CQ2231N509	0.022UF D 100V 10% PE TP5
C505	0CN2710K519	270P 50V K B TA52	C610	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C506	0CN2710K519	270P 50V K B TA52	C611	0CE476DH618	47UF STD 25V 20% FL TP 5
C508	0CE107DD618	100UF STD 10V M FL TP5	C612	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF
C509	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52	C613	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF
C510	0CE475DK618	4.7UF STD 50V 20% FL TP 5	C614	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF
C511	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52	C615	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C512	0CE107DD618	100UF STD 10V M FL TP5	C616	0CE476DD618	47UF STD 10V 20% FL TP 5
C513	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52	C617	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C514	0CE107DD618	100UF STD 10V M FL TP5	C618	0CN1010K519	100PF D 50V 10% B(Y5P) TA52

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LOCA. NO	PART NO	DESCRIPTION
C619	0CE335DK618	3.3UF STD 50V 20% FL TP 5
C620	0CN1010K519	100PF D 50V 10% B(Y5P) TA52
C625	0CQ5631N409	0.056UF D 100V 5% PE TP5
C626	0CQ5631N409	0.056UF D 100V 5% PE TP5
C627	0CK1030K945	0.01UF 50V Z F TR
C632	0CQ5631N409	0.056UF D 100V 5% PE TP5
C636	0CQ5631N409	0.056UF D 100V 5% PE TP5
C803	181-001E	LUG 120UF 400V 20% T
C804	0CK10201515	1000P 1KV K B TS
C806	0CK10201515	1000P 1KV K B TS
C807	181-091P	SL 270PF 1KV 10%,-10% R/TP TP5
C807	181-091X	R 560PF 2KV 10%,-10% R/TP TP7.5
C809	0CE105DK618	1UF STD 50V M FL TP5
C810	0CE336DK618	33UF STD 50V M FL TP5
C811	181-011B	0.001UF D 1.6KV J M/PP NI FM20
C815	0CK8210K515	820P 50V K B TS
C816	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C817	0CK1040K945	0.1UF 50V Z F TR
C818	0CQZVBK002C	A.C 275V 0.22UF K (S=22.5)
C819	0CK1520K515	1500P 50V K B TS
C820	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C821	0CK4710W515	470PF 500V K B TR
C822	0CE477BH618	470UF KME TYPE 25V 20% FL TP 5
C823	0CE107DD618	100UF STD 10V M FL TP5
C824	0CE477BD618	470UF KME TYPE 10V 20% FL TP 5
C824	0CE477DD618	470UF STD 10V M FL TP5
C825	181-091P	SL 270PF 1KV 10%,-10% R/TP TP5
C826	0CE227DD618	220UF STD 10V M FL TP5
C827	0CE477DD618	470UF STD 10V M FL TP5
C828	0CE477BF618	470UF KME 16V M FL TP5
C829	0CE335CK636	3.3UF SHL,SD 50V 20% FM5 BP(D) TP
C830	0CE108DH618	1000UF STD 25V M FL TP5
C831	0CE227DP61A	220UF STD 160V 20% FL TP 7.5
C833	0CE476CP618	47UF SHL,SD 160V 20% FL TP 5
C834	181-091X	R 560PF 2KV 10%,-10% R/TP TP7.5
C835	0CK4710W515	470PF 500V K B TR
C837	0CQ4731N509	0.047UF D 100V 10% PE TP5
C838	0CE227DK618	220UF STD 50V M FL TP5
C840	0CE228BF618	2200UF KME 16V M FL TP5
C843	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C845	0CE107DD618	100UF STD 10V M FL TP5
C847	181-091P	SL 270PF 1KV 10%,-10% R/TP TP5
C901	0CE475DR618	4.7UF STD 250V 20% FL TP 5
C902	0CQ1044R539	0.1UF TE 250V 10% M/PE NI TP5
C903	181-033S	2KV B 122K TP7.5
C904	0CE475DR618	4.7UF STD 250V 20% FL TP 5
COIL & INDUCTOR		
J210	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L101	0LA0102K139	INDUCTOR,AXIAL LEAD 10UH K 4*10.5 TP
L103	0LA0101K119	INDUCTOR,AXIAL LEAD 1.0UH K 2.3*3.4 TP
L11	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L12	0LA0101K119	INDUCTOR,AXIAL LEAD 1.0UH K 2.3*3.4 TP

LOCA. NO	PART NO	DESCRIPTION
L201	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L202	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L204	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L206	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L207	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L208	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L211	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L213	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L251	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L252	0LA0102K119	INDUCTOR,AXIAL LEAD 10UH K 2.3*3.4 TP
L253	0LA0472K119	INDUCTOR,AXIAL LEAD 47UH K 2.3*3.4 TP
L254	0LA0472K119	INDUCTOR,AXIAL LEAD 47UH K 2.3*3.4 TP
L401	6140VE0001V	COIL,LINEARITY 60UH 0.6PHY 69.5TURN
L402	6140VB0001F	COIL,CHOKE 130UH 0.45PHY 55.5TURN
L501	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L502	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L503	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L504	0LA0101K119	INDUCTOR,AXIAL LEAD1.0UH K 2.3*3.4 TP
L505	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L506	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L507	0LA0101K119	INDUCTOR,AXIAL LEAD1.0UH K 2.3*3.4 TP
L508	0LA0101K119	INDUCTOR,AXIAL LEAD1.0UH K 2.3*3.4 TP
L509	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L510	0LA0821K119	INDUCTOR,AXIAL LEAD8.2UH K 2.3*3.4 TP
L801	150-C02F	COIL,CHOKE82UH PHY TURN
T401	151-C02F	TRANSFORMER, H-DRIVE,EI-19,BULK
T803	6170VMCA43J	TRANSFORMER,SMPS[COIL] EER3940 400UH
RESISTOR		
C210	ORD0102F609	10 OHM 1/6 W 5% TA52
F802	ORP0050H709	0.05 OHM 1/2 W 10% TA52
F804	ORP0050H709	0.05 OHM 1/2 W 10% TA52
F805	ORP0020J809	0.02 OHM 1 W 20% TA52
F806	ORP0020J809	0.02 OHM 1 W 20% TA52
FR401	ORF0101K607	1 OHM 2 W 5.00% TA62
FR406	ORF0101J607	1 OHM 1 W 5.00% TA62
FR407	ORF0470J607	0.47 OHM 1 W 5.00% TA62
FR408	ORF0470J607	0.47 OHM 1 W 5.00% TA62
FR901	ORF0101K607	1 OHM 2 W 5.00% TA62
FR901	ORF0161K607	1.6 OHM 2 W 5.00% TA62
J201	ORD1000F609	100 OHM 1/6 W 5% TA52
J211	ORD1000F609	100 OHM 1/6 W 5% TA52
J402	ORD0752F609	75 OHM 1/6 W 5.00% TA52
J506	ORD3000F609	300 OHM 1/6 W 5.00% TA52
L205	ORD0102F609	10 OHM 1/6 W 5% TA52
L509	ORD3000F609	300 OHM 1/6 W 5.00% TA52
R102	ORD6801F609	6.8K OHM 1/6 W 5.00% TA52
R109	ORD0562F609	56 OHM 1/6 W 5.00% TA52
R110	ORD8200F609	820 OHM 1/6 W 5.00% TA52
R111	ORD0682F609	68 OHM 1/6 W 5.00% TA52
R112	ORD1501F609	1.5K OHM 1/6 W 5% TA52
R113	ORD3000F609	300 OHM 1/6 W 5.00% TA52
R12	ORD1000F609	100 OHM 1/6 W 5% TA52

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LOCA. NO	PART NO	DESCRIPTION
R124	0RD2202F609	22K OHM 1/6 W 5% TA52
R124	0RD2202F609	22K OHM 1/6 W 5% TA52
R125	0RD2700A609	270 OHM 1/2 W(7.0) 5.00% TA52
R126	0RD1000F609	100 OHM 1/6 W 5% TA52
R127	0RD1000F609	100 OHM 1/6 W 5% TA52
R13	0RD1301F609	1.3K OHM 1/6 W 5.00% TA52
R14	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R15	0RD3300F609	330 OHM 1/6 W 5.00% TA52
R16	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R17	0RD3000F609	300 OHM 1/6 W 5.00% TA52
R18	0RD3300F609	330 OHM 1/6 W 5.00% TA52
R19	0RD3900F609	390 OHM 1/6 W 5% TA52
R20	0RD4300F609	430 OHM 1/6 W 5.00% TA52
R202	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R203	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R204	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R205	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R207	0RD5602F609	56K OHM 1/6 W 5% TA52
R212	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R213	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R215	0RD2402F609	24K OHM 1/6 W 5.00% TA52
R217	0RD1000F609	100 OHM 1/6 W 5% TA52
R218	0RD1000F609	100 OHM 1/6 W 5% TA52
R24	0RD1000F609	100 OHM 1/6 W 5% TA52
R25	0RD1000F609	100 OHM 1/6 W 5% TA52
R251	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R252	0RD1200A609	120 OHM 1/2 W(7.0) 5.00% TA52
R253	0RD1200A609	120 OHM 1/2 W(7.0) 5.00% TA52
R28	0RD1000F609	100 OHM 1/6 W 5% TA52
R28	0RD1000F609	100 OHM 1/6 W 5% TA52
R29	0RD1000F609	100 OHM 1/6 W 5% TA52
R30	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R302	0RN3602F409	36K OHM 1/6 W 1.00% TA52
R303	0RD2400A609	240 OHM 1/2 W(7.0) 5.00% TA52
R304	0RD0561A609	5.6 OHM 1/2 W(7.0) 5.00% TA52
R305	0RD1002F609	10K OHM 1/6 W 5% TA52
R306	0RD1002F609	10K OHM 1/6 W 5% TA52
R307	0RD3601F609	3.6K OHM 1/6 W 5.00% TA52
R308	0RN4702F409	47K OHM 1/6 W 1.00% TA52
R309	0RD2001F609	2K OHM 1/6 W 5% TA52
R31	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R310	0RN4702F409	47K OHM 1/6 W 1.00% TA52
R312	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R313	0RN0471H609	4.7 OHM 1/2 W 5.00% TA52
R314	0RN0471H609	4.7 OHM 1/2 W 5.00% TA52
R315	0RS2700K607	270 OHM 2 W 5.00% TA62
R32	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R328	0RN3602F409	36K OHM 1/6 W 1.00% TA52
R33	0RD1000F609	100 OHM 1/6 W 5% TA52
R35	0RD1000F609	100 OHM 1/6 W 5% TA52
R37	0RD1000F609	100 OHM 1/6 W 5% TA52
R38	0RD1002F609	10K OHM 1/6 W 5% TA52
R403	0RD5600A609	560 OHM 1/2 W(7.0) 0.05 TA52

LOCA. NO	PART NO	DESCRIPTION
R404	0RD0332A609	33 OHM 1/2 W(7.0) 5.00% TA52
R405	0RS8200K607	820 OHM 2 W 5.00% TA62
R409	0RD1501A609	1.5K OHM 1/2 W(7.0) 5.00% TA52
R410	0RS2702K607	27K OHM 2 W 5.00% TA62
R412	0RD7501A609	7.5K OHM 1/2 W(7.0) 5.00% TA52
R42	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R421	0RD3600F609	360 OHM 1/6 W 5.00% TA52
R422	0RD1002F609	10K OHM 1/6 W 5% TA52
R501	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R502	0RN6801F409	6.8K OHM 1/6 W 1.00% TA52
R503	0RN6801F409	6.8K OHM 1/6 W 1.00% TA52
R505	0RD1000F609	100 OHM 1/6 W 5% TA52
R506	0RD2202F609	22K OHM 1/6 W 5% TA52
R507	0RD3300F609	330 OHM 1/6 W 5.00% TA52
R508	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R509	0RD3000F609	300 OHM 1/6 W 5.00% TA52
R510	0RD3000F609	300 OHM 1/6 W 5.00% TA52
R511	0RD3000F609	300 OHM 1/6 W 5.00% TA52
R512	0RD0332F609	33 OHM 1/6 W 5.00% TA52
R513	0RD0332F609	33 OHM 1/6 W 5.00% TA52
R514	0RD0332F609	33 OHM 1/6 W 5.00% TA52
R515	0RD1600F609	160 OHM 1/6 W 5.00% TA52
R516	0RD1600F609	160 OHM 1/6 W 5.00% TA52
R517	0RD1600F609	160 OHM 1/6 W 5.00% TA52
R518	0RD0222F609	22 OHM 1/6 W 5.00% TA52
R519	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R519	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R520	0RD1001F609	1K OHM 1/6 W 5% TA52
R521	0RD3002F609	30K OHM 1/6 W 5.00% TA52
R522	0RD0152F609	15 OHM 1/6 W 5.00% TA52
R522	0RD0302F609	30 OHM 1/6 W 5.00% TA52
R523	0RD1000F609	100 OHM 1/6 W 5% TA52
R524	0RD1000F609	100 OHM 1/6 W 5% TA52
R526	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R526	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R527	0RD2702F609	27K OHM 1/6 W 5.00% TA52
R532	0RD1000F609	100 OHM 1/6 W 5% TA52
R534	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R535	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R536	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R539	0RD1002F609	10K OHM 1/6 W 5% TA52
R540	0RD4702F609	47K OHM 1/6 W 5% TA52
R542	0RD8200F609	820 OHM 1/6 W 5.00% TA52
R543	0RD9100F609	910 OHM 1/6 W 5.00% TA52
R545	0RD1002F609	10K OHM 1/6 W 5% TA52
R555	0RD6800F609	680 OHM 1/6 W 5% TA52
R557	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R558	0RD3001F609	3K OHM 1/6 W 5.00% TA52
R562	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R563	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R563	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R601	0RD0221A609	2.2 OHM 1/2 W(7.0) 5.00% TA52
R602	0RD0221A609	2.2 OHM 1/2 W(7.0) 5.00% TA52

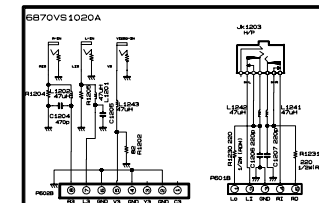
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	CQ : Polyester	RS : Metal Oxide Film
	CE : Electrolytic	RN : Metal Film
		RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
R603	ORD0221A609	2.2 OHM 1/2 W(7.0) 5.00% TA52
R604	ORD0221A609	2.2 OHM 1/2 W(7.0) 5.00% TA52
R605	ORD1101F609	1.1K OHM 1/6 W 5.00% TA52
R606	ORD5101F609	5.1K OHM 1/6 W 5.00% TA52
R606	ORD5601F609	5.6K OHM 1/6 W 5% TA52
R607	ORD1002F609	10K OHM 1/6 W 5% TA52
R608	ORD1001F609	1K OHM 1/6 W 5% TA52
R609	ORD1000F609	100 OHM 1/6 W 5% TA52
R610	ORD1802F509	18K OHM 1/6 W 2.00% TA52
R611	ORD1101F609	1.1K OHM 1/6 W 5.00% TA52
R612	ORD5601F609	5.6K OHM 1/6 W 5% TA52
R613	ORD0221F609	2.2 OHM 1/6 W 5.00% TA52
R614	ORD1000F609	100 OHM 1/6 W 5% TA52
R615	ORD1001F609	1K OHM 1/6 W 5% TA52
R616	ORD2700F609	270 OHM 1/6 W 5% TA52
R617	ORD6801F609	6.8K OHM 1/6 W 5.00% TA52
R618	ORD6801F609	6.8K OHM 1/6 W 5.00% TA52
R619	ORD6801F609	6.8K OHM 1/6 W 5.00% TA52
R620	ORD1000F609	100 OHM 1/6 W 5% TA52
R621	ORD6801F609	6.8K OHM 1/6 W 5.00% TA52
R624	ORD6801F609	6.8K OHM 1/6 W 5.00% TA52
R664	ORD6801F609	6.8K OHM 1/6 W 5.00% TA52
R802	ORKZVTA001K	0.47M OHM 1/2 W 5% TA52
R803	180-822N	RWR 7W 1.0 OHM J PD
R804	ORS4702K619	47K OHM 2 W 5% TR
R805	ORS4702K619	47K OHM 2 W 5% TR
R806	180-A01N	0.18 OHM 2 W 5% TA62 PRW
R807	ORD2200A609	220 OHM 1/2 W(7.0) 5.00% TA52
R808	ORD1501F609	1.5K OHM 1/6 W 5% TA52
R809	ORD1001F609	1K OHM 1/6 W 5% TA52
R810	ORD0472F609	47 OHM 1/6 W 5% TA52
R814	ORK8204H609	8.2M OHM 1/2 W 5.00% TA52
R816	ORD1001F609	1K OHM 1/6 W 5% TA52
R817	ORD0152F609	15 OHM 1/6 W 5.00% TA52
R818	ORKZVTA001K	0.47M OHM 1/2 W 5% TA52
R823	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R825	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R827	ORD1001F609	1K OHM 1/6 W 5% TA52
R828	ORD1501F609	1.5K OHM 1/6 W 5% TA52
R831	ORD2201F609	2.2K OHM 1/6 W 5.00% TA52
R838	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R838	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R858	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R858	ORD4701F609	4.7K 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	ORCZVTA002D	1/2 W 1.5K,10%,PLIKOR(HIGH SURGE)
R910	ORCZVTA002D	1/2 W 1.5K,10%,PLIKOR(HIGH SURGE)
R911	ORCZVTA002D	1/2 W 1.5K,10%,PLIKOR(HIGH SURGE)

LOCA. NO	PART NO	DESCRIPTION
R912	ORD2204A609	2.2M OHM 1/2 W(7.0) 5.00% TA52
R914	ORD0102F609	10 OHM 1/6 W 5% TA52
SWITCH		
SW11	140-315A	TACT SKHV17910B LG C&D 12V
SW12	140-315A	TACT SKHV17910B LG C&D 12V
SW13	140-315A	TACT SKHV17910B LG C&D 12V
SW14	140-315A	TACT SKHV17910B LG C&D 12V
SW15	140-315A	TACT SKHV17910B LG C&D 12V
SW16	140-315A	TACT SKHV17910B LG C&D 12V
SW801	6600VM2002A	SDKEA3 ALPS IEC 250V 8A HORIZONTAL 480G
FILTER & CRYSTAL		
FB201	125-123A	FERRITE BFD3565R2F(TAPING)
FB801	125-022K	FERRITE AXIAL 62MM 1UH NY 3.5X6.0MM
FB802	125-022K	FERRITE AXIAL 62MM 1UH NY 3.5X6.0MM
FB803	125-022K	FERRITE AXIAL 62MM 1UH NY 3.5X6.0MM
FB825	125-022K	FERRITE AXIAL 62MM 1UH NY 3.5X6.0MM
T802	150-F06W	SQE2930 36MH 0.5PHY 105TURN .
X11	6212AA2994A	RESONATOR,CRYSTAL HC-49U 20.25MHZ
Z101	6200QL3001Z	B39361-X6966-D100 EPCOS ST
JACK		
JK202	6612M00005A	UPJ-R1-027 UGCOM CH1
PJ201	6613V00006A	3P+EAR(PJ6062A)
PJ201	6613V00006B	2P+EAR(PJ6062B)
ACCESSORIES		
A1	3828VA0492C	MANUAL,OWNERS HS112P/R/124D/E TX 050A
A1	3828VA0492F	MANUAL,OWNERS IS 112P/R/124D/E TX
A1	3828VA0492L	MANUAL,OWNERS MK 112P/R/124D/E TX 051A/B/C
A1	3828VA0492M	MANUAL,OWNERS PL 112P/R/124D/E TX 017B
A1	3828VA0492N	MANUAL,OWNERS RO 112P/R/124D/E TX 008C
A1	3828VA0492Q	MANUAL,OWNERS CZ/SK 112P/R/124D/E TX 051B/C
A2	6710V00124E	REMOTE CONTROLLER,MC049B TXT 35KEY CI
A3	5010V00004B	ANTENNA, 3SECTION 750MM NTSC W/ADP
MISCELLANEOUS		
F801	0FS4001B53C	FUSE,SLOW BLOW 4000MA 250 V 5.2X20
P902	387-603E	CONNECTOR ASSEMBLY, 9P 2.5MM 430MM
PA01	6712SCA226B	REMOTE CONTROLLER RECEIVER,KSM-913LG1T
SK901	6620VBC003A	SOCKET (CIRC),CPT PCS030A 8PIN 14/360
T402	6174V-6006M	FBT, BSC25-N1648 21 YY
TH801	163-051F	THERMISTOR,PTC J503P84D140M290Q
TU101	6700VS0002H	TUNER, TAEW-G003D LGIT MULTI VS
VD801	164-003G	VARISTORTVR621D14A THINKING 620V

MC-049B CIRCUIT DIAGRAM 040531

SIDE A/V BOARD



NOTICE

Since this is a test circuit diagram, the value of components and some special connection are subject to be changed for improvement without notice.

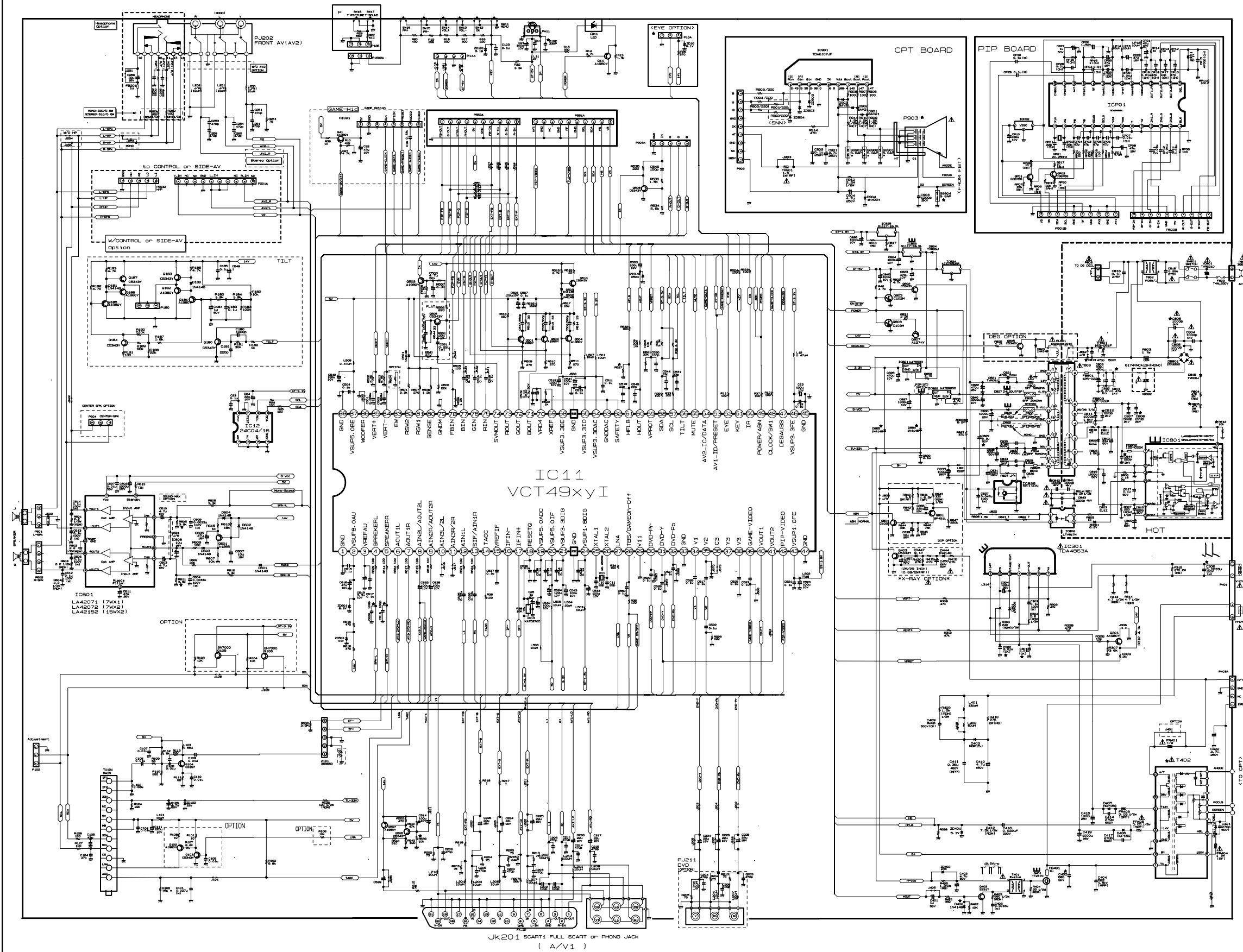
The components marked with a triangle are for use in the production and are essential for some operation of the TV receiver. While these marks are required for correct operation, use specified parts only when replacing.

Value of resistor, capacitor and inductor

- Resistances are shown in ohms, kΩ, MΩ, and GΩ.
- Unless otherwise noted in schematic, all resistor values less than 1 are expressed in ohms and the values more than 1 in kΩ.
- Unless otherwise noted in schematic, all capacitor values more than 1 are expressed in μF and the values less than 1 in pF (microfarads).

Observation of voltages and waveforms

- Voltage read with VTVM from point to chassis ground.
- Wave voltage is 250V/500V video signal pattern in oscilloscope.
- The schematic shown is representative only.
- All waveforms are taken using a wide band oscilloscope with a low capacity probe.
- Check FOCUS, TUNING, and CONTRAST. Brightness and COLOR controls for best picture. Make sure the COLOR and BRIGHTNESS are in high position and CONTRAST is in 75%.
- Waveforms are taken using a standard color signal.



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