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COLOR TV

SERVICE MANUAL

CHASSIS : MC-059C

MODEL : 21FS7RG/RE/RGG

21FS7RG/RE/RGG-TS

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 \triangle in the Schematic Diagram and Replacement Parts List.

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

Do not modify the original design without permission of manufacturer.

General Guidance

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

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

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

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

Keep wires away from high voltage or high temperature parts.

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

X-RAY Radiation

Warning:

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

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

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

Adjust brightness, color, contrast controls to minimum.

Measure the high voltage.

The meter reading should indicate

23.5 \pm 1.5KV: 14-19 inch, 26 \pm 1.5KV: 19-21 inch,

29.0 \pm 1.5KV: 25-29 inch, 30.0 \pm 1.5KV: 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 Ω and 5.2M Ω .

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.

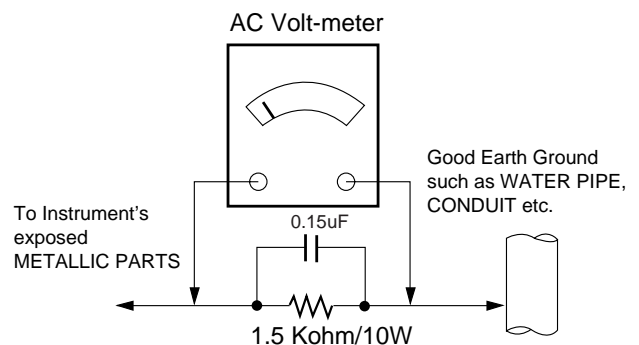
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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

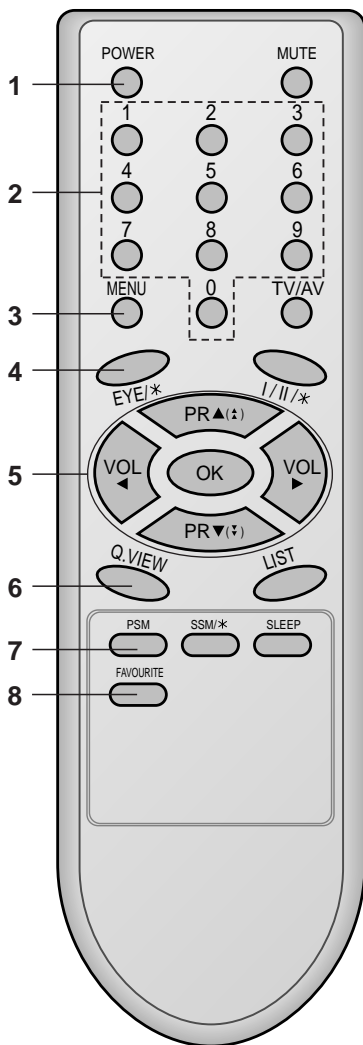


DESCRIPTION OF CONTROLS

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.

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.
adjusts menu settings.
OK
accepts your selection or displays the current mode.
6. **Q.VIEW**
returns to the previously viewed programme.
7. **PSM (Picture Status Memory)**
recalls your preferred picture setting.
8. **FAVOURITE**
selects a favorite programme.

9. MUTE

switches the sound on or off.

10. TV/AV

selects TV or AV mode.
switches the set on from standby.

11. I/II/* (option)

selects the language during dual language broadcast. (option)
selects the sound output.

12. LIST

displays the programme table.

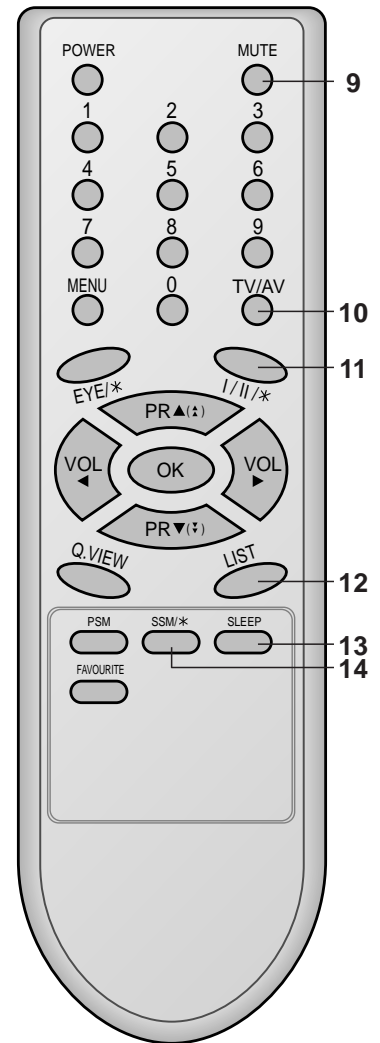
13. SLEEP

sets the sleep timer.

14. SSM/* (Sound Status Memory) (option)

recalls your preferred sound setting.

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



SPECIFICATIONS

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

■ Scope

This specification is applied to all the television related to MC-059C Chassis.

4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.

5) The receiver must be operated for about 20 minutes prior to the adjustment.

■ Requirement for Test

Each part is tested as below without special appointment.

- 1) Temperature : $25 \pm 5^{\circ}\text{C}$ ($77 \pm 9^{\circ}\text{F}$), CST : 40 ± 5
(CST must be tested $40 \pm 5^{\circ}\text{C}$. Humidity : 50%)
- 2) Relative Humidity : $65 \pm 10\%$
- 3) Power Voltage : Standard input Voltage (AC110-240V~, 50/60Hz)
* Standard Voltage of each products is marked by models.

■ Test Method

- 1) Performance : LGE TV test method followed.
- 2) Demanded other specification
 - CCC
 - Safety : K60065

■ General specification

No.	Item	Specification	Remark
1	Receiving System	PAL BG, DK, I / NTSC M (AV 3.58/ 4.43) SECAM DK	China/ Indonesia/ Thai/ Vietnam CIS
2	Available Channel	VHF : E2 ~ E12 UHF : E21 ~ E69 CATV : S1 ~ S20 HYPER : S21 ~ S41	
3	Input Voltage	AC100 - 240V~, 50/60Hz	
4	Market	China, Indonesia, Thai, Vietnam, CIS	
5	Screen Size	14 ~ 21inch (FLAT / Conventional)	
6	Aspect Ratio	4:3	
7	Display Method	CRT	
8	Tuning System	FVS	
9	Operating Environment	Temp : 0 ~ 40 deg Humidity : ~ 85 %	
10	Storage Environment	Temp : -20 ~ 60 deg Humidity : ~ 90 %	

■ Features and Function

No.	Item	Specification	Remark	
1	Feature	AV Input	2 AV 1, 2	Rear1, Front1(CVBS,L,R)
		AV Output	1 Monitor out	Rear
		Component	Input(For component)	Rear(Y,Pb,Pr,DVD-L/R)
		Earphone	1 Front	
2	Key	Local Key	Power, Vol(◀, ▶), PR(▼, ▲), MENU, OK	7EA/ Front
			Turbo-Picture, Sound	Option
	Remocon	LG Code (NEC)		
3	Channel	Auto prog.	System/ Storage/ Normal/ Turbo	
		Manual	Storage/ System/ Channel/ Fine/ Search/ Name	
		Prog. edit	Copy/ Move/ Delete/ Skip	
		Favorite	8 Channel	
4	Picture	PSM	Dynamic/ Standard/ Mild/ Game/ User	
		User Control	Contrast/ Brightness/ Color/ Sharpness Tint (NTSC-M Only)	
5	Sound	SSM	Flat/ Music/ Movie/ Speech/ User	AV, RF Stereo Option
		Treble/ Bass	0 ~ 100	AV Stereo
		Equalizer	100/ 400/ 1K/ 4K/ 10K	RF Stereo
		FM Transmitter	Low Band(7ch) 87.7/ 87.9/ 88.1/ 88.3/ 88.5/ 88.7/ 88.9(MHz)	
			High Band(7ch) 106.7/ 106.9/ 107.1/ 107.3/ 107.5/ 107.7/ 107.9(MHz)	
Wide Range(1091ch) 88.0 ~ 107.0MHz				
6	Timer	Clock	-- : --	
		Off time	-- : -- Off(On)	
		On time	-- : -- Pr 1 VOL 30 Off(On)	
		Auto off	On/ Off	
7	Special	Language	Chinese/ English English/ Russia English/ Indonesia/ Thai/ Vietnam	China CIS East-Asia
		Input	TV/ AV1/ AV2/ Component	
		Child lock	On/ Off	
8	Etc.	Sleep		
		Review		

ADJUSTMENT

1. Scope of Application

These instructions are applied to MC-059C Chassis.

2. Notes

- 1) Because this is a cold chassis, it is not necessary to use an isolation transformer. However, operating it using a transformer between the power supply line and chassis input to prevent electric shock and to protect the test instrument.
- 2) All adjustment must be done in the correct sequence. However, for better productivity, it can be change in a pre-permitted range.
- 3) Environment conditions : If not specified, it must be done in following conditions.
 Temperature : $25 \pm 5^{\circ}\text{C}$
 Humidity : $60\% \pm 10\%$
- 4) Power supply of SET : AC100-240~ $\pm 10\%$, 50/60Hz
- 5) If not specified, the receiver must be operated for more than 20 minutes prior to the adjustment.
- 6) Signal : Received the standard color signal ($65 \pm 1\text{dBuV}$).
 - NTSC
 : LG standard signal means the digital pattern 13CH(480NC)
 - PAL/SECAM
 : LG standard signal means the digital pattern PAL-B/G 05CH
- 7) If not specified, APC ON is APC CLEAR(DYNAMIC)

3. AGC Voltage Adjustment

3-1. Necessary Instrument

- : Digital Multi-meter-1 set
- Max Input Current : Over 1A/ Max Input Voltage : 500Vdc
- Measurement Range : 10mV-100mVdc/ Accuracy : 0.03%

3-2. Adjustment Preparation

- 1) Input in the 75Ω cable $65\text{dB}(\pm 1\text{dB})$ LG standard signal.
- 2) Connect the multi-meter to J105(AGC Check, Marking).

3-3. Adjustment

- 1) Press the "INSTART" key of factory remote control and select "VP0 (RFAGC)" adjustment mode.
- 2) Press the VOL+/- (◀/ ▶) key until the multi-meter shows reading as shown below.

Tuner P/N	Maker	AGC Vol	Signal	Tuner Spec.	Remark
6700VS0002F	LGIT	$3.0 \pm 0.05\text{V}$	70dBu	TAEW-G002D	
6700PF0002F	SANYO	$2.3 \pm 0.05\text{V}$	65dBu	115-B-A86EL	
6700MF0014A	LGIT	$2.3 \pm 0.05\text{V}$	65dBu	TAEW-G013D	
6700MF0014B	LGIT	$2.15 \pm 0.05\text{V}$	65dBu	TAEW-G017D	CIS

3) CAUTION

: Since the signal strength can be easily changed by the condition of signal cable, you need to check the signal strength frequently in order to prevent error.

4. Screen Voltage Adjustment

4-1. Adjustment of Screen Manually (Using SVC Remote Control)

- 1) Input in the 75ohm cable LG standard signal(Digital Pattern, 480NC).
- 2) Press the "ADJ" key of factory remote control once to make the TV set display.
- 3) Turn the screen volume on the FBT clockwise until the horizontal line is visible and turn it counterclockwise until horizontal line faintly visible.
(Exit screen voltage adjustment by press "Enter(■)" key of factory remote control.)

5. Purity and Convergence Adjustment

5-1. Purity adjustment

(1) Adjustment Preparation

- 1) Receive Red Raster Pattern for purity adjustment(51CH).
- 2) Demagnetize the CPT and Cabinet with a degaussing coil.

(2) Adjustment

- 1) Pre-adjust the static convergence (STC) with the 4 and 6pole magnet.
- 2) If the horizontal Line is inline with CPT Mark, 2-Pole magnet should direct 3-9 o'clock direction.
- 3) If not, direct 2-pole magnet handle toward 6-12 o'clock direction and adjust the Horizontal Line to fall onto the mark opening the magnet at an angle.
- 4) Push the DY(deflection yoke) all the way to the CPT funnel.
- 5) Turn the purity magnet(2-pole magnet) so that the "green" color portion of left side and the "blue" color portion on the right side have equal amount of color.



- 6) Pull the DY slowly backward and fix it when the whole screen becomes red.
(The specified torque for fixing DY screw should be 10Kg/cm.)



5-2. Convergency Adjustment

(1) Necessary Instrument

- 1) Degaussing Coil
- 2) Convergency fixing instrument

(2) Preliminary steps

- 1) Operate the unit at the least 30minutes before adjustment.
- 2) Using degaussing coil, remove the stains on CPT & Cabinet.
- 3) Received the Cross Hatch Pattern of Convergence.(09ch)
- 4) Let the Contrast in normal luminance level.

(3) Static Convergence (STC) Adjustment

- 1) Receive the Cross Hatch Pattern Convergence(09ch).
- 2) Before adjusting Static Convergence(STC), adjust the focus first seeing to it that the WHITE color picture quality is sharp enough.
- 3) Converge the RED vertical and BLUE vertical line in unity(same line) by changing the angle between the 2 tabs of 4-pole magnet.
- 4) Converge the RED horizontal and BLUE horizontal line in unity(same line) by turning the 2 tabs of the 4-pole magnet. At this time, do not change the angle between the 2 tabs.
- 5) Converge the R, G, B vertical line in unity(same line) by changing the angle between the 2 tabs of the 6-pole magnet.
- 6) Converge the R, G, B horizontal line in unity(same line) by turning the 2 tabs of the 6-pole magnet. At this time, do not change the angle between the 2 tabs.

(4) Dynamic Convergence (DYC) Adjustment

- 1) Y-axis Adjustment
: Adjust convergence of Y-axis(vertical) by moving the deflection yoke(DY) left and right.
- 2) X-axis Adjustment
: Adjust convergence of X-axis(horizontal) by moving the deflection yoke(DY) up and down.

6. White Balance Adjustment

6-1. Necessary Instrument

- 1) Automatic White Balance Meter(Low/High light Pattern generator)
- 2) White Balance meter(CRT Color Analyzer, CA-100) :1set
- 3) Factory Remote Control

6-2. Adjustment Preparation

: Prior to this adjustment, the Screen Voltage adjustment should be finished.

6-3. Automatic adjustment

- 1) Adjust the using Auto White Balance Meter.
- 2) Enter CPU OFF Mode by pressing "IN-START" & "MUTE" key of factor remote control in turn before adjustment. Exit CPU OFF mode by press the "TV/AV" key of factory remote control after adjustment finished.

* In case there is excess RED color at screen voltage adjustment, adjust it using "volume - (◀) key of factory remote control until the RED color disappear.

6-4. Manual adjustment

- 1) Adjust using white Balance meter and factory remote control.
- 2) Enter white balance adjustment mode by pressing "INSTART" key
- 3) Use the CH▲, CH▼ Key to choose adjustment item.
- 4) Use the VOL◀, VOL▶ Key to change item data.
- 5) Adjustment Procedure
 - a. Make the picture luminance 45Ft-L by changing the "CONTRAST" and "BRIGHTNESS".
 - b. Adjust X data of High light with R-DRIVE(VP7) and Y data with B-DRIVE(VP9) to have the color temperature as shown below.

- c. Make the picture luminance 4.5Ft-L by changing the "CONTRAST" and "BRIGHTNESS".
- d. Adjust X data of low light with R-BIAS(VP4) and Y data with B-BIAS(VP6) to have the color temperature as shown below.
- e. Repeat steps a~d until both low and high light have same readings as shown below.

Market	Color Temperature	X-AXIS	Y-AXIS
PAL/SECAM	12,000±800	0.270±0.003	0.283±0.003

7. Focus Voltage Adjustment

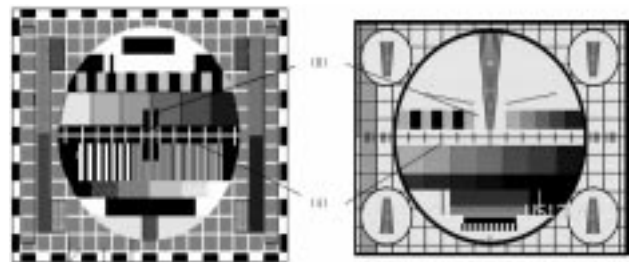
This adjustment must be done after operating the TV set receiver sufficiently.

7-1. Adjustment Preparation

- 1) Receive Digital pattern and Set the picture condition on "APC ON"(CLEAR) mode.

7-2. Adjustment

Turn the focus volume on the FBT upper direction th have the best focus vertical line(figure 1.(a)) and horizontal line (figure 1(b)) as shown below.



<Fig. 1>

8. SUB-BRIGHTNESS Adjustment

This adjustment must be done after White balance adjustment.

8-1. Adjustment Preparation

- 1) Receive the LG standard Mono scope pattern(CH14).
- 2) Set the picture condition on "APC ON"(CLEAR) mode.

8-2. Adjustment

- 1) Press the "ADJ"key of the factory remote control twice to enter to "SUB-BRIGHTNESS" adjustment mode.
- 2) Change the Sub-Brightness data by pressing the VOL◀, VOL▶ key so that the number 1 in gray scale of mono scope pattern almost disappear.(See figure 2)

	0	1	2	3	4	5	6	7	8	9	◀ Gray Scale
											◀ Color Bar

<Fig. 2> MONO SCOPE Pattern signal

8-3. Sub-Tint adjustment

This adjustment has to be done only if the picture has bad tint otherwise, it can be omitted if the picture has good tint.

- 1) Receive LG standard pattern signal(SMPTE, 2CH)
- 2) Set the picture condition on "APC ON"(CLEAR) mode.

- 3) Press the "ADJ" key of the factory remote control three times to enter to "SUB-TINT" adjustment mode.
- 4) Change the Sub-Tint data by pressing the VOL◀, VOL▶ key until the upper and lower CYAN color becomes same color.

9. Deflection setting data adjustment

These adjustment will be done by automatic adjustment Equipment.

For manual adjustment, it is also possible by the following procedure.

9-1. Adjustment Preparation

- 1) Deflection setting data adjustment can be done only with remote control.
- 2) Press "IN-START" key on factory remote control continuously to enter to Deflection Adjustment mode.
- 3) Press the CH▲, ▼ key to select adjustment item.
- 4) Press the VOL◀, ▶ key to change the data.

9-2. Adjustment

- 1) Horizontal Position Adjustment
Select VP1(H-POS) and adjust so that the left and right vertical line are symmetrical as possible.
- 2) Vertical Position Adjustment
Select VP2(V-POS) and adjust so that the horizontal center line coincide with geometric horizontal center of the CPT.
- 3) Vertical Size Adjustment
Select VP3(V-SIZE) and so that the middle circle of the Digital Pattern(480NC, 13CH) coincide with the effective screen of CPT
- 4) H-SIZE
Adjustment of the H-size is not basically done but if the H-size is inappropriate, the H-size is adjustable by adjusting variable resistance(VR403) of the main assy.
-> Adjustment for the received pattern is done so that the outer line of the left, right and the remotest grid will correspond to the effective boundary surface. (The remotest grid, NTSC : within 2.5 ~ 3.0 column, PAL : within 0 ~25 %)
- 5) Trapezoidal
Adjust a trap by adjusting variable resistance(VR402) of the main A'ssy.
-> Adjustment is done so that the upper horizontal width of the received screen and the bottom horizontal width will be same (when the screen is a trapezoid shape, adjust it to make a right square)
- 6) PIN AMP.
Adjust the pin AMP by adjusting variable resistance(VR401) of the main A'ssy.

-> Adjustment is done so that the vertical line of the remotest grid at the left or right side of the screen will be parallel to the vertical line of the center of screen (or the remotest grid of CPT)

10. IIC BUS Adjustment Data Table

: Refer to <TABLE 1>

11. Instrument setting data

(automatic adjustment)

<TABLE 2>

	VIDEO IC	EEPROM	Speed	Delay
SLave ADD	BA	A2	1	30

VCD	TV				PC			
	B(R)AMP	B(R)CUT	G(B)AMP	G(B)CUT	B AMP	B CUT	G AMP	G CUT
Sub Add	C	9	E	B				
Start Bit	6	7	6	7				
Stop Bit	0	0	0	0				
Masking	0	0	0	0				
Direction	1	1	1	1				

EEPROM Sub Add	74	71	76	73				

SpeedPlus Step/Data	3	3	3	3				

12. EEPROM OPTION TABLE

<TABLE 3>

OPTION 1	INITIAL	REMARK
DVD	0	DVD function (1:W, 0:W/O)
TURBO ME	0	T-P,T-S FUNCTION DISPLAY on MENU
V-CURVE	0	VOLUME CURVE (1:HIGH, 0:LOW)
V-MUTE	0	VIDEO MUTE
EYE	0	EYE function (1:W, 0:W/O)
NICAM DT	0	NICAM ID
SND MUTE	1	SOUND MUTE at no signal (yes or not)
GAME	0	GAME function (1:Yes, 0:No)
OPTION2		REMARK
TURBO	0	TURBO P/S function (1:W, 0:W/O)
ARC	0	ARC function (1:W, 0:W/O)
200PR	0	200 CH. MEMORY
BLUEBACK	1	BLUEBACK function (1:W, 0:W/O)
TURBO AT	1	TURBO SEARCH function (1:W, 0:W/O)
A2STEREO	1	A2 STEREO(WITH NICAM)
SHARP	0	SHARPNESS DATA (1:+10, 0:NORMAL)
DVDN 6P	1	DVD 6P (1:W, 0:W/O)
OPTION3		REMARK
FM TRANS	0	FM TRANS function (1:W, 0:W/O)
FM HIGH	0	FM TRANS FREQUENCY (1:HIGH, 0:LOW)
NTSC	1	NTSC function (1:W, 0:W/O)
DUAL SV	1	AV ST MODE (1:PSEUDO, 0:MATRIX)
SYNC KI	0	SYNC KILL function (1:W, 0:W/O)
SND FL1	0	MONO FILTER (50MHz/ 75Hz)
SND FL2	0	MONO FILTER (100Hz/ 200KHz)
SWOOFER	0	WOOFER function (1:W, 0:W/O)
OPTION 4		REMARK
SYSTEM	4	0:CHINA / 1:INDONESIA / 2: THAI / 3: VIETNAM / 4MULTI
SND MODE	1	0:MONO / 1:AV ST / 2:REAL ST
AV	2	0:NO AV / 1:AV1 / 2:AV1,2 / 3:AV1,2,3
LOC KEY	1	0:4KEY / 1:6KEY / 2:8KEY
COLOR T	1	COLOR TABLE
PLL DIV	31	PLL DATA (NTSC Tuning Level)
OPTION 5		REMARK
FM PRE	6	FM PRESCALER
NICAM PRE	8	NICAM PRESCALER
SCART PRE	2	SCART PRESCALER
A2 FM TH	5	A2 PRESCALER
FIRST TH	10	MONO THRESHOLD
ZWT TH	7	A2 THRESHOLD

<TABLE 4> SECAM MODEL 1 PAL

OPTION 1	INITIAL	REMARK
DVD	0	DVD function (1:W, 0:W/O)
TURBO ME	0	T-P,T-S FUNCTION DISPLAY on MENU
V-CURVE	1	VOLUME CURVE (1:HIGH, 0:LOW)
V-MUTE	1	VIDEO MUTE
EYE	0	EYE function (1:W, 0:W/O)
FLAT	1	CPT
SND MUTE	1	SOUND MUTE at no signal (yes or not)
GAME	0	GAME function (1:W, 0:W/O)
OPTION2		REMARK
TURBO	0	TURBO P/S function (1:W, 0:W/O)
ARC	1	ARC function (1:W, 0:W/O)
200PR	0	200CH. MEMORY
BLUEBACK	0	BLUEBACK display (1:W, 0:W/O)
TURBO AT	1	TURBO SEARCH function (1:W, 0:W/O)
SHARP	0	SHARPNESS DATA (1:+10, 0:NORMAL)
DVDN 6P	0	DVD 6P (1:W, 0:W/O)
OPTION3		REMARK
FM TRANS	0	FM TRANS function (1:W, 0:W/O)
NTSC	0	NTSC function (1:W, 0:W/O)
AV PSEU	1	AV ST MODE (1:PSEUDO, 0:MATRIX)
SYNC KI	1	SYNC KILL function (1:W, 0:W/O)
A2 SW	1	MONO DUAL function (1:5.74MHz possible, 0:NORMAL)
LNA	0	LNA TUNER (1:LNA, 0:NORMAL)
SWOOFER	0	WOOFER function (1:W, 0:W/O)
OPTION 4		REMARK
SYSTEM	1	0:ENG / 1:ARAB / 2:PARSI
SND MODE	0	0:MONO / 1:AV ST
AV	1	0:NO AV / 1:AV1 / 2:AV1,2
LOC KEY	1	0:4KEY / 1:6KEY / 2:8KEY
COLOR T	1	COLOR TABLE
PLL DIV	31	PLL DATA (NTSC Tuning Level)
OPTION 5		REMARK
FM PRE	6	FM PRESCALER
NICAM PRE	13	NICAM PRESCALER
SCART PRE	0	SCART PRESCALER
A2 FM TH	5	A2 PRESCALER
FIRST TH	15	MONO THRESHOLD
ZWT TH	2	A2 THRESHOLD

<TABLE 5> SECAM MODEL 1 CIS

OPTION 1	INITIAL	REMARK
DVD	0	DVD function (1:W, 0:W/O)
TURBO ME	0	T-P,T-S FUNCTION DISPLAY on MENU
V-CURVE	1	VOLUME CURVE (1:HIGH, 0:LOW)
V-MUTE	1	VIDEO MUTE
EYE	0	EYE function (1:W, 0:W/O)
FLAT	1	CPT
SND MUTE	1	SOUND MUTE at no signal
GAME	0	GAME function (1:W, 0:W/O)
OPTION2		REMARK
TURBO	0	TURBO P/S function (1:W, 0:W/O)
ARC	1	ARC function (1:W, 0:W/O)
200PR	0	200CH. MEMORY
BLUEBACK	0	BLUEBACK display (1:W, 0:W/O)
TURBO AT	1	TURBO SEARCH function (1:W, 0:W/O)
SHARP	0	SHARPNESS DATA (1:+10, 0:NORMAL)
DVDN 6P	0	DVD 6P (1:W, 0:W/O)
OPTION3		REMARK
FM TRANS	0	FM TRANS function (1:W, 0:W/O)
NTSC	0	NTSC function (1:W, 0:W/O)
AV PSEU	1	AV ST MODE (1:PSEUDO, 0:MATRIX)
SYNC KI	1	SYNC KILL function (1:W, 0:W/O)
A2 SW	1	MONO DUAL function (1:5.74MHz possible, 0:NORMAL)
LNA	0	LNA TUNER (1:LNA, 0:NORMAL)
SWOOFER	0	WOOFER function (1:W, 0:W/O)
OPTION 4		REMARK
SYSTEM	1	0:CIS / 1:HUNGAR / 2:CHESKY/ 3:RUMANI/ 4:MULTI
SND MODE	0	0:MONO / 1:AV ST
AV	1	0:NO AV / 1:AV1 / 2:AV1,2
LOC KEY	1	0:4KEY / 1:6KEY / 2:8KEY
COLOR T	1	COLOR TABLE
PLL DIV	31	PLL DATA (NTSC Tuning Level)
OPTION 5		REMARK
FM PRE	6	FM PRESCALER
NICAM PRE	13	NICAM PRESCALER
SCART PRE	0	SCART PRESCALER
A2 FM TH	5	A2 PRESCALER
FIRST TH	15	MONO THRESHOLD
ZWT TH	2	A2 THRESHOLD

<TABLE 1>

Menu	OSD	Adjustment	Range	Initial(PAL)	Initial(SECAM)	Remark
VP 0	RF AGC	RF AGC Delay	0 ~ 63	40	40	Necessary
VP 1	H POS	H PHASE	0 ~ 31	12	12	Necessary
VP 2	V POS	V Shift (V POSI)	0 ~ 15	5	5	Necessary
VP 3	V SIZE	Vertical Size	0 ~ 127	80	105	Necessary
VP 4	R BIAS	Red Bias	0 ~ 255	127	127	Necessary
VP 5	G BIAS	Green Bias	0 ~ 255	127	127	Unnecessary
VP 6	B BIAS	Blue Bias	0 ~ 255	127	127	Necessary
VP 7	R DRIVE	Red Drive	0 ~ 127	64	64	Necessary
VP 8	G DRIVE	Green Drive	0 ~ 15	8	8	Unnecessary
VP 9	B DRIVE	Blue Drive	0 ~ 127	64	64	Necessary
VP 10	V LIN	V LIN (Vertical Linearity)	0 ~ 31	23	23	Unnecessary
VP 11	V SCORR	Vertical S-Correction	0 ~ 31	10	10	Unnecessary
VP 12	V COMP	V.COMP	0 ~ 3	3	7	Unnecessary
VP 13	H BLK L	H BLK L	0 ~ 3	0	0	Unnecessary
VP 14	H BLK R	H BLK R	0 ~ 3	3	3	Unnecessary
VP 15	AFC GAIN	AFC Gain & gate	0 / 1	0	0	Unnecessary
VP 16	H FREQ	H Freq.	0 ~ 63	15	15	Unnecessary
VP 17	CD MODE	Count Down Mode	0 ~ 7	0	0	Unnecessary
VP 18	VBLK SW	VBLK SW	0 / 1	0	0	Unnecessary
VP 19	FBP SW	FBP Blanking OR SW	0 / 1	1	1	Unnecessary
VP 20	YC FILTER	Filter System	0 ~ 15	2	2	Unnecessary
VP 21	Y APF	Y APF Select	0 / 1	0	0	Unnecessary
VP 22	C SYSTEM	Color System	0 ~ 7	0	0	Unnecessary
VP 23	C VCO	C/VCO Adjustment	0 ~ 7	4	4	Unnecessary
VP 24	PAL APC	PAL APC SW	0 / 1	0	0	Unnecessary
VP 25	S TRAP SW	S.TRAP SW	0 / 1	1	1	Unnecessary
VP 26	VIF SYS	VIF System SW	0 ~ 3	1	1	Unnecessary
VP 27	VCO FREQ	VCO Freq	0 ~63	28	112	Unnecessary
VP 28	SIF SYS	SIF System SW	0 ~ 3	1	1	Unnecessary
VP 29	SUB BIAS	Sub Bias (sub-bright)	0 ~ 127	45	45	Unnecessary
VP 30	BRIGHT	Brightness Control	0 ~ 127	64	64	Unnecessary
VP 31	ABL	Bright ABL Defeat	0 / 1	1	1	Unnecessary
VP 32	BRI STOP	Bright Mid Stop Defeat	0 / 1	0	0	Unnecessary
VP 33	ABL TH	Bright ABL Threshold	0 ~ 7	4	4	Unnecessary
VP 34	RGB TEMP	RGB Temp SW	0 / 1	0	0	Unnecessary
VP 35	COR GAIN	Coring Gain Select	0 ~ 3	3	3	Unnecessary
VP 36	PRE SHOOT	Pre-shoot Adjustment	0 ~ 3	0	0	Unnecessary
VP 37	OVER SHOOT	Over-shoot Adjustment	0 ~ 3	3	3	Unnecessary
VP 38	Y GAMMA	Y Gamma start point Select	0 ~ 3	0	0	Unnecessary
VP 39	DC REST	DC Restoration Select	0 ~ 3	1	1	Unnecessary
VP 40	B-ST START	Black Stretch Start Point Select	0 ~ 3	1	1	Unnecessary
VP 41	B-ST GAIN	Black Stretch Gain Select	0 ~ 3	2	2	Unnecessary
VP 42	C BYPASS	C Bypass	0 / 1	0	1	Unnecessary
VP 43	C KILL ON	C Kill On	0 / 1	0	0	Unnecessary
VP 44	C KILL OFF	C Kill Off	0 / 1	0	0	Unnecessary
VP 45	C KILL OPER	Color Killer Operational Point	0 ~ 7	7	7	Unnecessary
VP 46	RB BAL	R/B Gain Balance	0 ~ 15	5	10	Unnecessary
VP 47	RB ANG	R/B Angle	0 ~ 15	5	8	Unnecessary
VP 48	B-Y LEVEL	B-Y DC Level	0 ~ 15	10	28	Unnecessary
VP 49	R-Y LEVEL	R-Y DC Level	0 ~ 15	11	27	Unnecessary
VP 50	V LEVEL	Video Level	0 ~ 7	7	6	Unnecessary
VP 51	OVER MO SW	OVER.MOD.SW	0 / 1	0	0	Unnecessary
VP52	OVER MO LE	OVER.MOD.LEVEL	0 ~ 15	8	8	Unnecessary
VP53	TINT TH	Tint Through	0 / 1	0	0	Unnecessary

Menu	OSD	Adjustment	Range	Initial(PAL)	Initial(SECAM)	Remark
VP 54	Y TH	Y TH	0 ~ 3	1	1	Unnecessary
VP 55	Y GAIN	Y Gain	0 ~ 3	0	0	Unnecessary
VP 56	R WIDTH	R width	0 ~ 3	0	0	Unnecessary
VP 57	R OFFSET	R offset	0 ~ 3	0	0	Unnecessary
VP 58	B WIDTH	B width	0 ~ 3	0	0	Unnecessary
VP 59	B OFFSET	B offset	0 ~ 3	0	0	Unnecessary
VP 60	T DISABLE	T Disable	0 / 1	1	1	Unnecessary
VP 61	V TRANCE	V TRANCE	0 / 1	0	0	Unnecessary
VP 62	A MUTE	Audio Mute	0 / 1	0	0	Unnecessary
VP 63	V MUTE	Video Mute	0 / 1	0	0	Unnecessary
VP 64	SYNC KILL	Sync Kill	0 / 1	0	0	Unnecessary
VP 65	V KILL	Vertical Kill	0 / 1	0	0	Unnecessary
VP 66	FSC SW	SVO or fsc Output	0 / 1	0	0	Unnecessary
VP 67	GRAY	Gray Mode	0 / 1	0	0	Unnecessary
VP 68	CROSS BW	Cross B/W	0 ~ 3	0	0	Unnecessary
VP 69	H-TONE	Half Tone	0 ~ 3	0	0	Unnecessary
VP 70	RGB BLK	Blank Defeat	0 / 1	0	0	Unnecessary
VP 71	C EXT	C Ext	0 / 1	0	0	Unnecessary
VP 72	CRCB IN	CbCr IN	0 / 1	0	0	Unnecessary
VP 73	AUDIO SW	Audio SW	0 / 1	0	0	Unnecessary
VP 74	VOL FIL	VOL. FIL	0 / 1	0	0	Unnecessary
VP 75	FM MUTE	FM Mute	0 / 1	0	0	Unnecessary
VP 76	IF AGC	IF AGC Defeat	0 / 1	0	0	Unnecessary
VP 77	A-OUT SW	A.MONI.SW	0 / 1	1	1	Unnecessary
VP 78	DE-EMPH	De-emphasis TC	0 / 1	0	0	Unnecessary
VP 79	FM GAIN	FM Gain	0 / 1	0	PAL/CIS1	Unnecessary
VP 80	VOLUME	VOLUME	0 ~ 127	126	126	Unnecessary
VP 81	S TRAP	S Trap Test	0 ~7	4	Refer to <table 1-1>	Unnecessary
VP 82	C TRAP	C. Trap Test	0 ~ 7	4		Unnecessary
VP 83	FLESH	Auto-Flesh	0 / 1	0		Unnecessary
VP 84	OSD CONT	OSD Contrast	0 ~ 3	0		Unnecessary
VP 85	OSD POS	OSD Position	-	38		Unnecessary

<TABLE 1-1> SECAM MODEL (DATA 81 ~ 109)

Menu	Adjustment	Initial	Remark	Menu	Adjustment	Initial	Remark
VP 81	V D C	32	Unnecessary	VP 96	HTNOC	0	Unnecessary
VP 82	V SEP UP	0	Unnecessary	VP 97	OVER MT	0	Unnecessary
VP 83	V RES TM	0	Unnecessary	VP 98	APC OFF	4	Unnecessary
VP 84	HLLDET	1	Unnecessary	VP 99	VL OFFS	3	Unnecessary
VP 85	ERGBL OUT	8	Unnecessary	VP 100	A2SW	0	Unnecessary
VP 86	S TRAP	4	Unnecessary	VP 101	VCO AD	8	Unnecessary
VP 87	C TRAP	4	Unnecessary	VP 102	EQU AD	8	Unnecessary
VP 88	DIG OSD	0	Unnecessary	VP 103	BEL AD	3	Unnecessary
VP 89	V MAUD SW	0	Unnecessary	VP 104	EQU ON	0	Unnecessary
VP 90	V INRGB SW	1	Unnecessary	VP 105	BA SW	1	Unnecessary
VP 91	FLESH	0	Unnecessary	VP 106	SECK OFF	0	Unnecessary
VP 92	WPLO [E	0	Unnecessary	VP 107	SECK ON	0	Unnecessary
VP 93	VM GAIN	0	Unnecessary	VP 108	OSD CONT	0	Unnecessary
VP 94	SYNC SS	3	Unnecessary	VP 109	OS POS	38	Unnecessary
VP 95	GY AMP	4	Unnecessary				Unnecessary

12. Inspection Item

12-1. Multiplex Sound Adjustment

- 1) Received 06CH factory signal. Check if the OSD displays "ST." for Stereo Broadcasting.
- 2) Press sound multiplex(MPX) button for stereo sound separation. Check if the "L" channel produce 1kHz output.
- 3) Received 02CH factory signal. Check if the OSD displays "SAP" for Secondary Audio Program Broadcasting.

12-2. External Input(A/V IN)

- 1) Connect through 75 ohm A/V input terminal standard picture signal. The standard video input level is 1Vp-p.
- 2) Connect to input terminal sound signal strength of 1kHz 400mVrms(1.13Vp-p) and compare status.
- 3) Check picture status by if it is in good condition by pressing the TV/AV IN key on the remote control and compare standard input condition of the receiver.
- 4) Check speaker output status if it is in good condition and check input terminal against receiver ground by connecting "R" channel of RCA JACK.

12-3. Signal, Sound Adjustment Condition

(1) Necessary parts and instrument

- Adjustment remote control(with signal, sound check button)
- * LG standard, DATA CODE FC(h) FD(h)

(2) Checking

- 1) Received US30CH standard signal.
- 2) Check CONTRAST, BRIGHTNESS, COLOR, TINT, SHARPNESS by pressing the Signal Check button continuously.
- 3) Received US06CH.
- 4) Check STEREO function by pressing Sound Check button.

13. TV/CABLE TV Channel operation condition

(1) Necessary parts and instruments

- Remote controller (with AIR/CABLE TV button)

(2) Checking

- Check receiver channel operation for some abnormality by pressing AIR/CABLE TV button continuously.

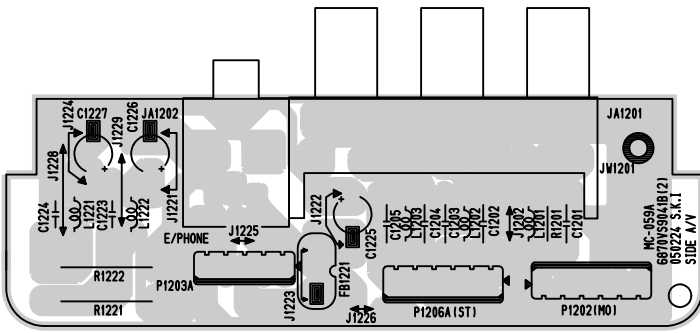
13-1. HOLD DOWN CHECK (X-RAY Protect)

- This X-RAY Protect testing is applicable only for model with HOLD DOWN circuit only.

(1) Checking

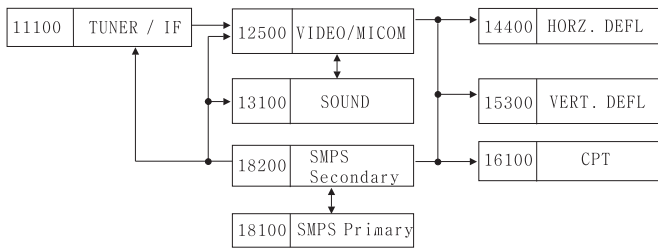
- 1) Check HOLD DOWN circuit operation by shorting R419.
- 2) At this time, the receiver turns to POWER OFF and goes to STAND-BY condition. Accordingly, the high voltage does not occurred and you can perform HOLD DOWN

SIDE A/V

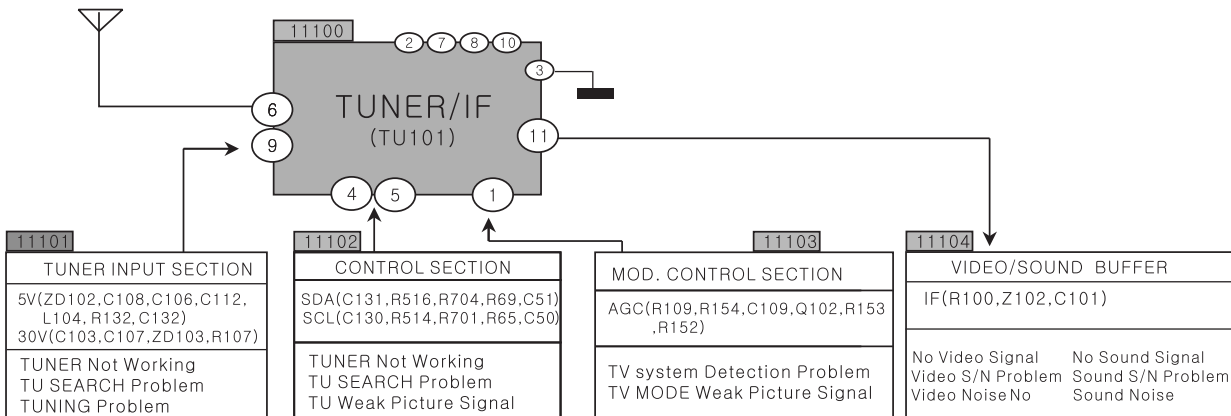


TROUBLE SHOOTING

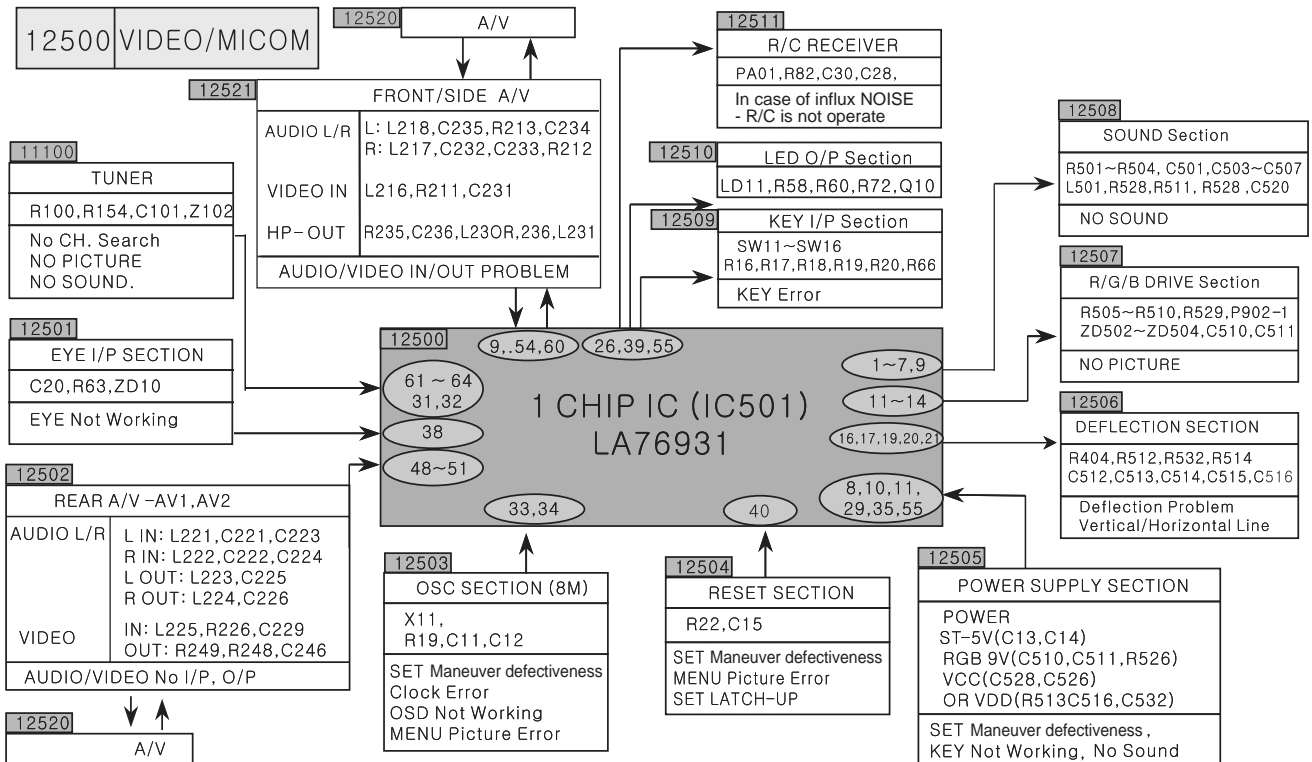
1. TV FUNCTIONAL



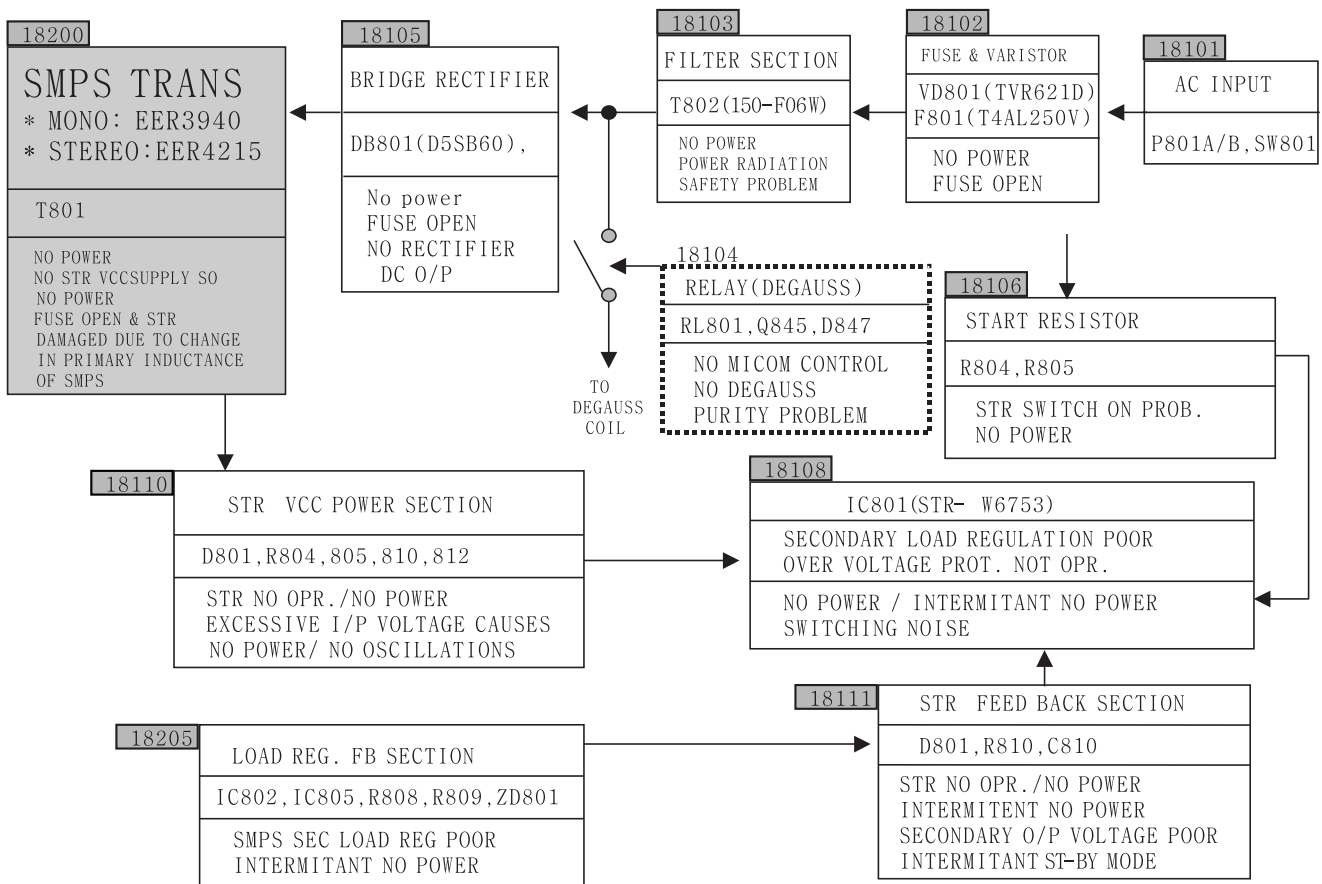
2. TU / IF SECTION



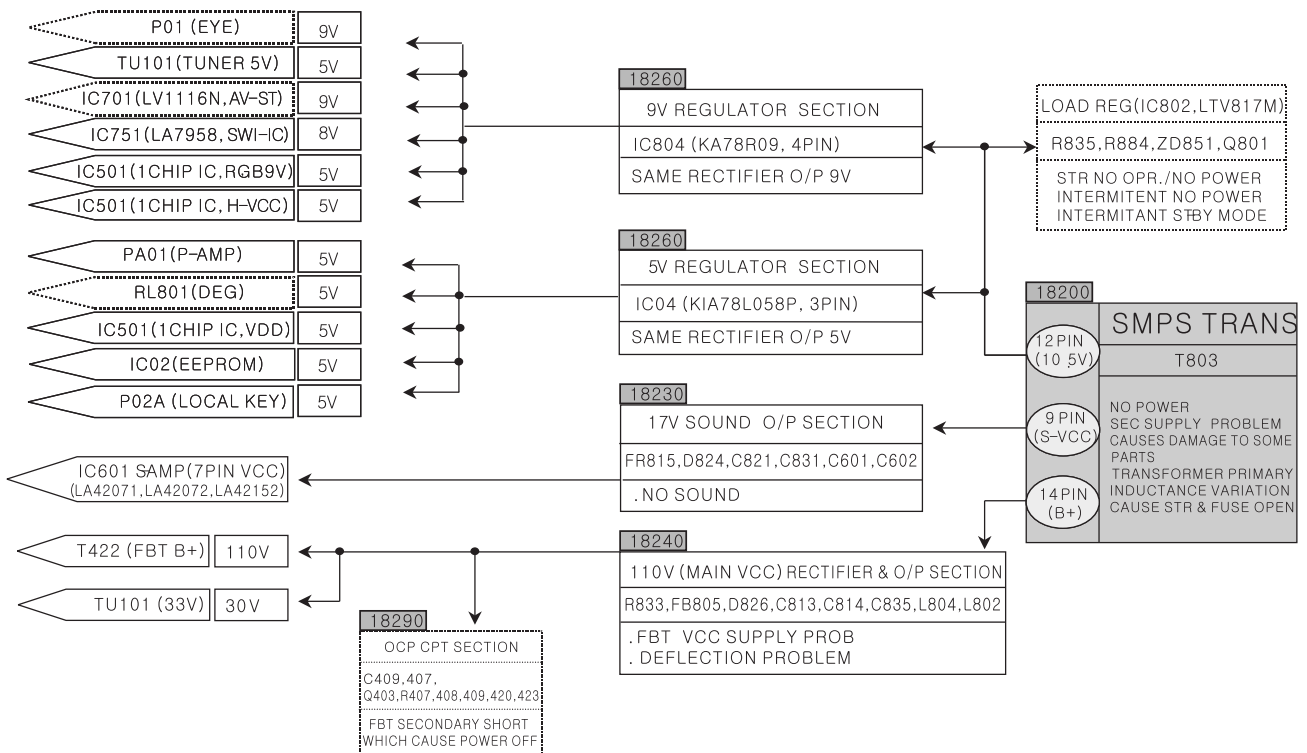
3. VIDEO PROCESSING



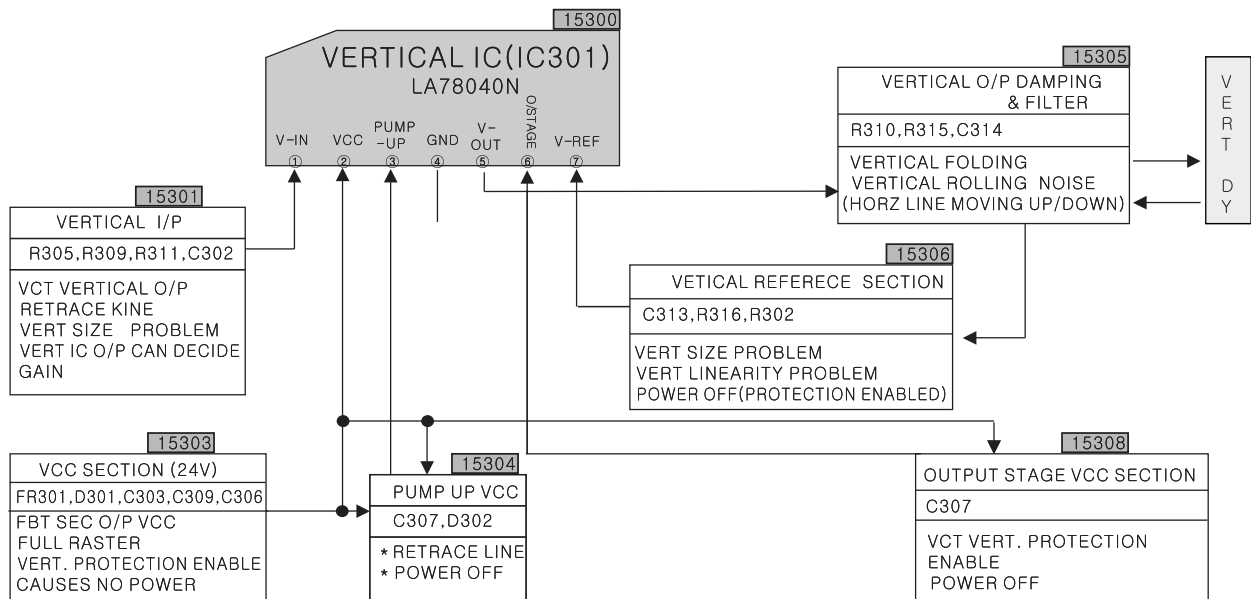
4. SMPS PRIMARY SECTION



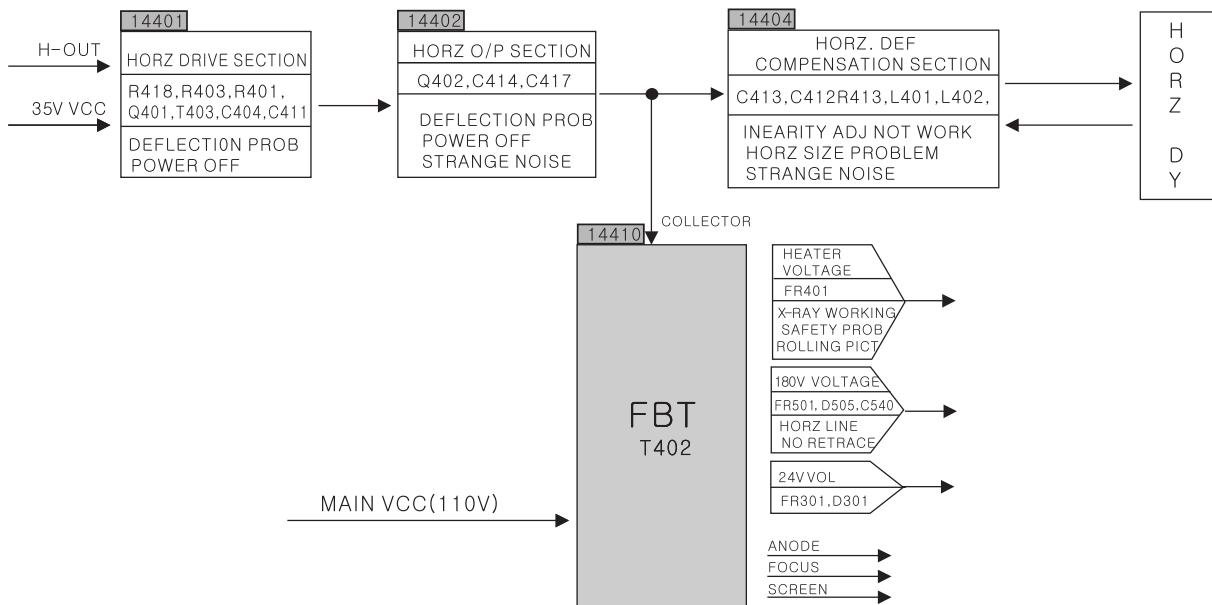
5. SMPS SECONDARY SECTION



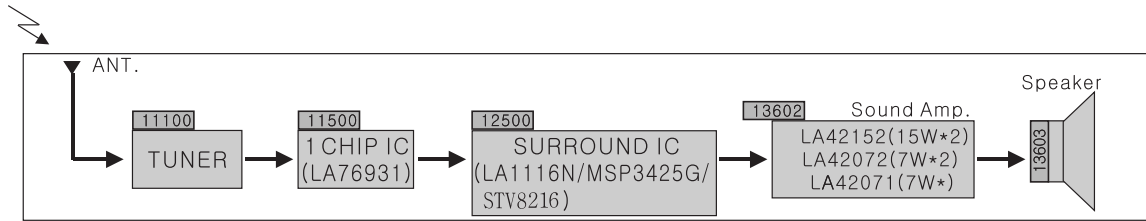
6. VERTICAL SECTION



7. HORIZONTAL SECTION



8. SOUND PROCESSING SECTION

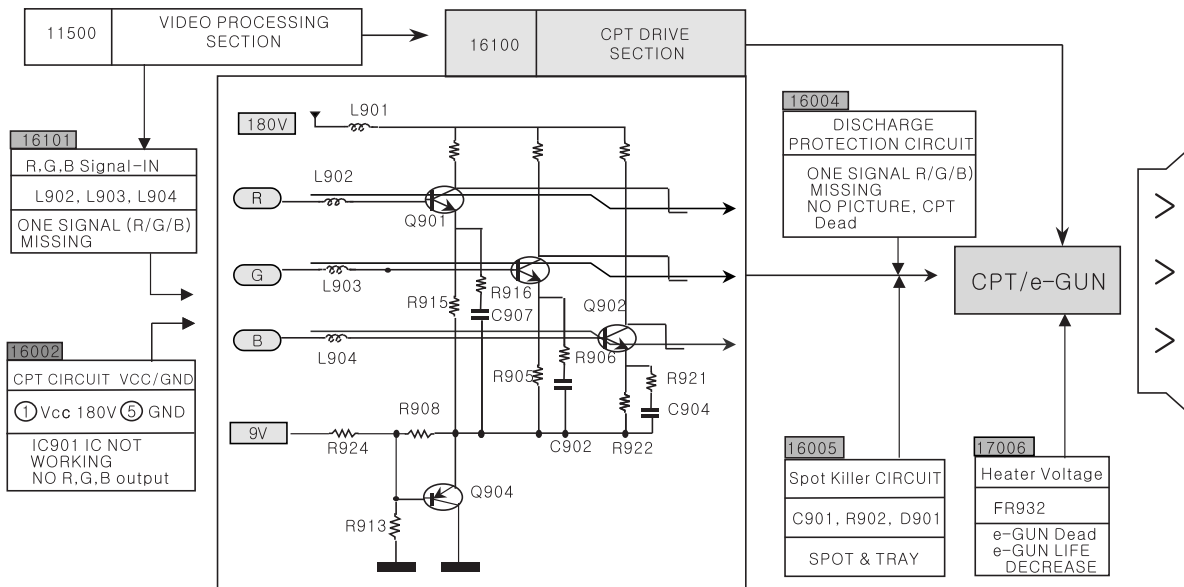
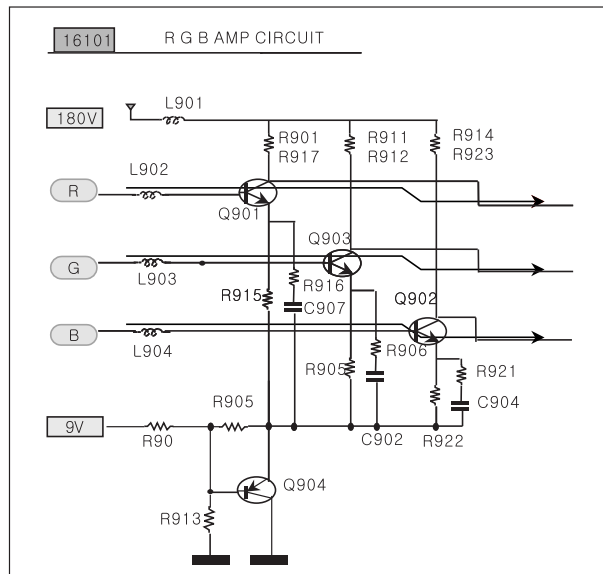


- TUNER : RF signal is feed to TUNER through Antenna. IF output from Tuner is then given to 1 CHIP IC.
- 1 CHIP IC : 1 CHIP IC processes the input IF. Demodulates Picture and sound information and gives analog RGB output for Display and SPKL/R as audio output, this sound output is further Amplified and feed to speakers.
- Sound Amp : Sound amps(LA42152,LA42072,LA42071) is and Audio Amplifier it amplified the output sound signal from Surround ic(LA1116/MSP3425G/ STV8216) and feeds to speaker which generats Sound.

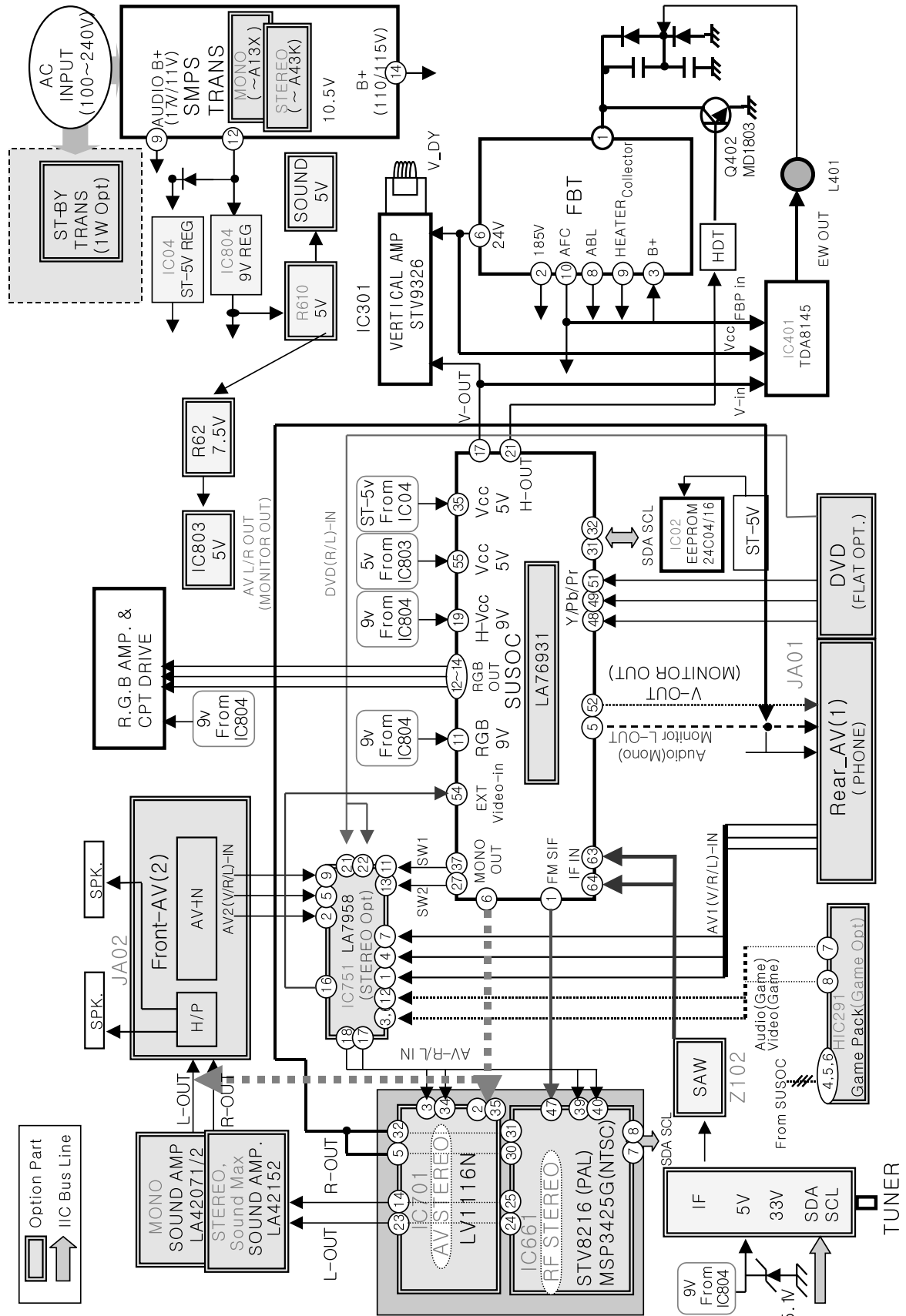
9. CPT DRIVE SECTION

CPT Board Circuit 16100

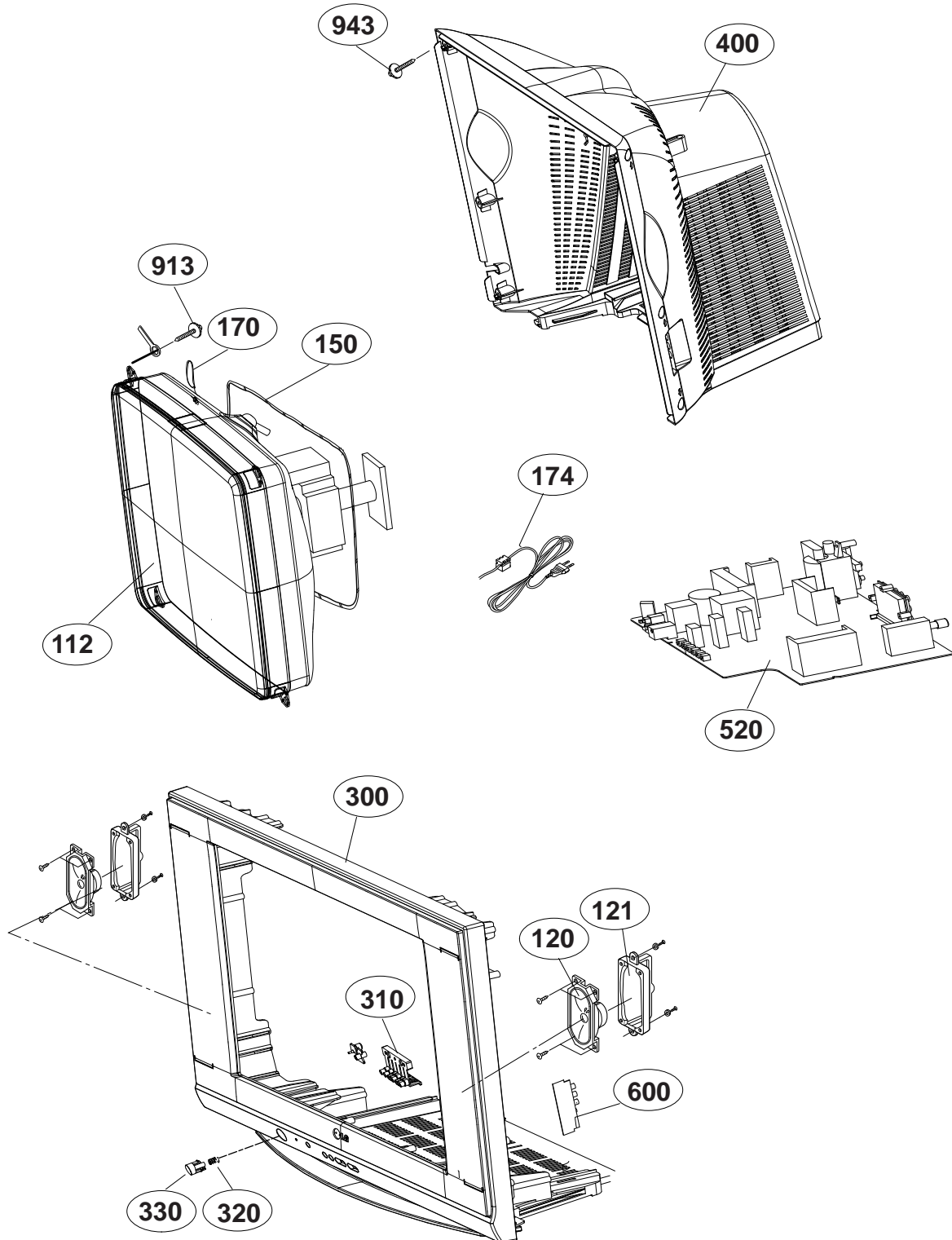
The CPT-BOARD assembly is composed of discrete type RGB Amplifier.
 Amp-Gain is defined by Resistance of R901, R911, R914 and R917, R912, R923
 High Frequency compensation is made by inductance of L901, capacitance of C907, C904 and C902.
 DC level of collector of Q901, Q902 and Q903 is defined by R904 & R905



BLOCK DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

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

LOCA. NO	PARTS No.	DESCRIPTIONS
Δ 112	EAK35070301/03	CPT,ITC A51QGT420X 08 21INCH Ultra Slim
	EAK35070304/07/28/29	CPT,ITC A51QGT420X 08 P02G 21INCH Ultra Slim
	EAK39334401/07	CPT,ITC A51QGT420X 31 L 21INCH Ultra
120	EAB30820601	Speaker,Full Range JF 20 FERRITE 5W 8OHM 82DB 200HZ
121	4810900054A	Bracket, MOLD PP SPEAKER 21FC1 MC049B PP LGE
Δ 150	6140VC2007W	Coil,Degaussing FOR ULTRA SLIM 11OHM AL 45T 0.6mM
Δ 170	6858V21001A	Drawing,Assembly EARTH SPRING 21INCH 64T RT-21FDRX
Δ 174	6410VEH001B/E	Power Cord Assembly,CE-503/H03VVH2-F 2X0.75MM2/2.4M/BLK
	174-225C	Power Cord Assembly,TJC1 TJC1-2Y 2.0M 220MM 250V
300	ACQ32599401/04/05/06	Cover Assembly,21FS7RG-ZS MC-059C 21" LGESY TOOL
310	MBG36628001	Button,Control, MOLD ABS 380 6 KEY ABS-380 21FS7RG
320	320-062H	Spring, CUTTING STSC304 COIL STSC304
330	MBG36628801	Button,Power, MOLD ABS HF-380 21FS7RG-TS ABS HF38
400	ACQ32599502/03/04/05	Cover Assembly,21FS7RK-LS MC-059C 21" LGESY TOOL
520	EBR36751114/20/23	PCB Assembly,MAIN M.I MC059C 21FS7RG-TS NDKLCDA
	EBR35123051/52/55/66	PCB Assembly,MAIN M.I MC059C 21FS7RGG-TS
	EBR35123048/50/73/77	PCB Assembly,MAIN M.I MC059C 21FS7RG-TS QLVLCBK
	EBR35123080/84/87/90	PCB Assembly,MAIN M.I MC059C - 21FS7RG-TS.KMILCTY ULTRA Slim
	EBR35123097	PCB Assembly, MAIN M.I MC059C - 21FS7RE-TS
	EBR30621939/51	PCB Assembly, MAIN1 M.I MC059C 21FS7RG-TS
600	EBR35135301/02	PCB Assembly,SUB M.I MC059C 21FS6 ULTRA SLIM
	EBR35135305/06/07	PCB Assembly,SUB M.I MC059C 21FS7 ULTRA SLIM
	EBR37018502/03	PCB Assembly, SUB M.I MC059C 21FS7 SIDE AV
913	FAB30021402	Screw Assembly, FAB30021402 TAPTITE P TYPE D5.0 L35
943	FAB30006309	Screw,Taptite, 1SZZ9PB012A TH + P 4MM 16MM MSWR10

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		
IC02	0IAL241610B	AT24C16A-10PU-2.7 16KBIT 2KX8BIT 2.7V
IC301	0IPRP00741A	STV9326 10TO30V 50mA 50to60Hz
IC401	0ISG814500A	TDA8145 17VTO30V 0HZ 500MW 0F DIP ST
IC501	EAN36193601	LG048N9R58R5-E 4.5VTO5.5V,2VTO5.5V 4
IC601	0IPMGSA024B	LA42072NLG-E 5.5TO20V 0.5V - 7W 15W
IC701	0IPRPSA017A	LV1116N-E 0 0W DIP ST 36P SANYO
IC751	0IPRPSA018A	LA7958N-E 8.0TO12.0V 0SEC 0SEC 300MW
IC801	0IPMGSK016B	STR-W6754 16.3TO19.9V 8.8TO10.6V SWIT
IC802	0IPRPKD003A	PC17L1(5V/35V 4P) 5V 35V 35V 50MA 100
IC803	0IKE780500Q	KIA7805API 7TO20V 5V 2W TO220IS ST 3P
IC804	0IMCRKE002B	KIA78R09API 10TO25V 9V 1.5W TO220IS S
IC805	0ISK110000A	SE110N(LF12) 150V 0 0 0W 0W 0 1 TO220
TRANSISTOR		
Q10	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q101	0TR319709AB	KTC3197 NPN 4V 30V 25V 50MA 100NA 20T
Q102	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q111	0TR102009AB	KRC102M(KRC1202) NPN 30V 10V 50V
Q16	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q241	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50V
Q301	0TR103009AD	KRC103M NPN 40V 0V 50V 100MA 500NA 70
Q401	0TR322809AA	KTC3228-O(KTC2383) NPN 6V 160V 160V
Q402	0TRSA10001C	2SD2689LS NPN 5V 1.5KV 700V 10A 10UA
Q403	0TR421009CA	BF421(Philips) PNP -5V -0.3KV -0.3KV
Q801	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q813	0TR102009AB	KRC102M(KRC1202) NPN 30V 10V 50V
Q901	0TR233009CA	KSC2330Y NPN 7V 300V 300V 100MA 100NA
Q902	0TR233009CA	KSC2330Y NPN 7V 300V 300V 100MA 100NA
Q903	0TR233009CA	KSC2330Y NPN 7V 300V 300V 100MA 100NA
DIODE		
D111	0DSVH00019A	BA282 1V 35V 100MA 350A 1SEC 350W DO3
D301	0DRDC00014A	TVR06J 600V 1300MV 10UA 25A 150NSEC D
D302	0DRDC00014C	1N4005GP 600V 1.1V 5UA 30A 0SEC DO41
D303	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC
D403	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC
D405	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC
D406	EAH30754301	RU4DS 1.8V 1.3KV 1.5A 50A 400NSEC 0W
D407	0DRDC00014G	RU4AM 600V 1.3V 10UA 70A 100NSEC
D408	0DRDC00014D	RGP15J 600V 1300MV 5UA 50A 250NSEC
D411	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC
D505	0DRDC00014A	TVR06J 600V 1300MV 10UA 25A 150NSEC
D601	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC
D801	0DRDC00014Q	EU1ZS 200V 2.5V 10UA 15A 120NSEC DO41
D802	0DRDC00014J	EU1Z 200V 2.5V 10UA 15A 50NSEC DO41 T
D803	0DRDC00014J	EU1Z 200V 2.5V 10UA 15A 50NSEC DO41 T
D813	0DRDC00014F	RU3AM 600V 1100MV 10UA 50A 90NSEC

LOCA. NO	PART NO	DESCRIPTION
D815	0DRDC00014A	TVR06J 600V 1300MV 10UA 25A 150NSEC D
D824	0DRTW00141A	SFAF504G 200V 975MV 10UA 125A 35NSEC
D826	0DRDC00014G	RU4AM 600V 1.3V 10UA 70A 100NSEC
D902	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC
D903	0DRDC00014R	1n4003 300V 1.1V 10UA 30A 1.5USEC DO4
DB801	0DRTW00131C	TS6P05G 600V 1V 5UA 150A TS6P ST 4P 4
ZD102	0DZ510009BE	GDZ5.1B 5.1V 4.94TO5.2V 20OHM 500MW D
ZD103	0DZ300009AG	GDZJ30B 30V 27.7TO29.13V 55OHM 500MW
ZD412	0DZ910009BD	GDZJ9.1B . 9.1V 8.57TO9.01V 25OHM 500
ZD801	EAH35180401	gdzj6.2b 6.2V 5.96TO6.27V 60OHM 500MW
ZD804	0DZ510009BE	GDZ5.1B 5.1V 4.94TO5.2V 20OHM 500MW D
ZD851	EAH35180401	gdzj6.2b 6.2V 5.96TO6.27V 60OHM 500MW
CAPACITOR		
C103	0CE106DK618	SMS5.0TP50VB10M 10uF 20% 50V 72MA
C104	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C105	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C107	0CN1020K519	RH UP050 B102K-B-B 1000pF 10% 50V Y5P
C108	0CE337DD618	SMS5.0TP10VB330M 330uF 20% 10V 386MA
C109	0CE225DK618	EGR225M050T1G1C11G 2.2uF 20% 50V
C11	0CC1800K415	DD1HCH180J749 18pF 5% 50V C0H -25TO
C110	0CE225DK618	EGR225M050T1G1C11G 2.2uF 20% 50V
C111	0CE476DF618	SMS5.0TP16VB47M 47uF 20% 16V 0A -40TO
C115	0LA0680K119	LAL02TBR68K 680NH 10% - 310MA
C116	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C12	0CC1800K415	DD1HCH180J749 18pF 5% 50V C0H -25TO
C1203	0CN2220F569	RH EP050 X222K-B-B 2.2nF 10% 16V X7R
C1205	0CN2220F569	RH EP050 X222K-B-B 2.2nF 10% 16V X7R
C130	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5P
C131	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5P
C132	0CE107DF618	EGR107M016T1G1C11G 100uF 20% 16V
C14	0CE227DD618	EGR227M010T1G1E11G 220uF 20% 10V
C15	0CE334DK618	EGR334M050T1G1C11G 330nF 20% 50V
C16	0CE225DK618	EGR225M050T1G1C11G 2.2uF 20% 50V
C17	0CQ3331N509	PEI333K2AT 0.033uF 10% 100V PE -40TO
C19	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C210	181-007C	ECQV1H104JL3 100nF 5% 50V MPE
C211	181-007C	ECQV1H104JL3 100nF 5% 50V MPE
C212	181-007H	ECQV1H474JL3 470nF 5% 50V MPE
C215	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5P
C222	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5P
C225	0CN5620F569	RH EP050 X562K-B-B 5.6nF 10% 16V X7R
C226	0CN5620F569	RH EP050 X562K-B-B 5.6nF 10% 16V X7R
C232	0RD2203F609	RD-96T1J220K 220KOHM 5% 1/6W 3.2X1.8M
C233	0CN6820F569	CH EP050 X682K-B-B Z 6.8nF 10% 16V X7
C234	0CN6820F569	CH EP050 X682K-B-B Z 6.8nF 10% 16V X7
C235	0RD2203F609	RD-96T1J220K 220KOHM 5% 1/6W 3.2X1.8M
C242	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V
C243	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V

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LOCA. NO	PART NO	DESCRIPTION
C246	0CE227DD618	EGR227M010T1G1E11G 220uF 20% 10V
C28	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C30	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R -
C301	0CQ3921N409	310M 2A 392 J 3.9nF 5% 100V PE -40TO+
C303	0CK4710W515	DCM471K20Y5PL6FJ5A 470pF 10% 500V
C305	0CQ6831N509	PEI683K2AT 68nF 10% 100V PE -40TO+85C
C306	0CQ4731N509	PEI473K2AT 47nF 10% 100V PE -40TO+85C
C307	0CE107BJ618	ESM107M035T6G5G11G 100uF 20% 35V
C308	0CE476BF618	ESM476M016T1G5C11G 47uF 20% 16V
C309	0CE108DJ618	EGR108M035T1G1L25G 1000uF 20% 35V
C310	181-007F	ECQ-V1H224JL3(TR) 220nF 5% 50V MPE -4
C311	0CE228BH61A	ESM228M025T1G5M26G 2200uF 20% 25V
C312	0CE684EK638	KMG5.0PP50V0.68UFN(5X11) 0.00000068F
C313	0CE106DK618	SMS5.0TP50VB10M 10uF 20% 50V 72MA -40
C314	0CQ1041N509	PEI104K2AT 0.1uF 10% 100V PE -40TO+85
C322	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R -
C40	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C401	0CF4732Y460	0.047UF 5% 630V MPP -45TO+85C NON-IND
C402	181-013N	MPP274J2GD 270nF 5% 400V MPP -
C404	0CK4710W515	DCM471K20Y5PL6FJ5A 470pF 10% 500V
C406	0CF2731Y460	PCMP389 62273 0.027uF 5% 630V MPP -40
C407	0CE106DH618	SMS5.0TP25VB10M 10uF 20% 25V 72MA -40
C408	0CE225CP618	SHL5.0TP160VB2.2M 2.2uF 20% 160V 38MA
C409	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C412	181-013P	MPP334J2GD 330nF 5% 400V MPP -
C414	0CF15312460	PCMP384 92153 0.015uF 5% 2000V MPP -4
C415	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V
C417	181-091U	DG3DHR221K825 220pF 10% 2000V Y5R -25
C420	0CE105BR618	ESM105M250T1G5E11G 1uF 20% 250V
C421	181-091L	DEHR33A222KN3A 2.2nF 10% 1000V Y5R -2
C432	0CQ6821N509	PEI682K2AT 6.8nF 10% 100V PE -40TO+85
C434	0CQ4731N509	PEI473K2AT 47nF 10% 100V PE -40TO+85C
C435	0CE477EK618	KMG5.0TP50VB470M 470uF 20% 50V 690MA
C50	0CN2210K519	RH UP050 B221K-B-B 220p 10% 50V Y5P -
C501	0CX3300K409	RH UP050SL330J-B-B 33pF 5% 50V S2L -2
C502	0CN2230H949	RH TP050 F223Z-B-B 22000p -20TO+80% 2
C503	0CX3300K409	RH UP050SL330J-B-B 33pF 5% 50V S2L -2
C504	0CE105DK618	EGR105M050T1G1C11G 1uF 20% 50V 10MA
C505	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5P
C506	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C507	0CN1520F569	RH EP050 X152K-B-B 1500pF 10% 16V X7R
C509	0CE475CK638	SHL5.0TP50VB4.7M 4.7uF 20% 50V 48MA
C51	0CN2210K519	RH UP050 B221K-B-B 220p 10% 50V Y5P
C510	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C511	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C512	0CF4741L438	PCMT 365 76474 0.47uF 5% 63V MPE -40T
C513	181-007F	ECQ-V1H224JL3(TR) 220nF 5% 50V MPE
C514	181-009R	PPN223K2DH 22nF 10% 200V PP 40TO+85C
C515	0CE227DD618	EGR227M010T1G1E11G 220uF 20% 10V
C516	0CQ1531N509	PEI153K2AT 0.015uF 10% 100V PE -40TO+
C517	0CE335DK618	SMS5.0TP50VB3.3M 3.3uF 20% 50V 42MA -
C518	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA

LOCA. NO	PART NO	DESCRIPTION
C519	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R -
C521	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C522	0CN2220F569	RH EP050 X222K-B-B 2.2nF 10% 16V X7R
C523	0CE477DD618	EGR477M010T6G1G11G 470uF 20% 10V
C524	0CE474DK618	EGR474M050T1G1C11G 470nF 20% 50V
C526	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C527	181-007G	ECQV1H334JL3 330nF 5% 50V MPE -
C528	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R -
C529	0CE105DK618	EGR105M050T1G1C11G 1uF 20% 50V 10MA
C530	0CE225DK618	EGR225M050T1G1C11G 2.2uF 20% 50V
C531	0CE474DK618	EGR474M050T1G1C11G 470nF 20% 50V
C532	0CN1040K949	CH UP050 F104Z-B-B Z 100000pF -20TO+8
C533	0CQ4731N509	PEI473K2AT 47nF 10% 100V PE -40TO+85C
C534	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C535	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C537	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5P
C539	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5P
C540	0CE475DR618	EGR475M250T1G1G11G 4.7uF 20% 250V
C542	0CQ1831N509	PEI183K2AT 0.018uF 10% 100V PE -40TO
C543	0CQ2231N509	PEI223K2AT 0.022u 10% 100V PE -40TO+8
C548	0CN8200K519	RH UP050 B820K-B-B 82pF 10% 50V Y5P
C56	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5P
C602	0CE337DH618	EGR337M025T1G1G14G 330uF 20% 25V
C603	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V
C604	0CQ6821N509	PEI682K2AT 6.8nF 10% 100V PE -40TO+85
C606	181-007C	ECQV1H104JL3 100nF 5% 50V MPE -
C608	0CE106DF618	SMS5.0TP16VB10M 10uF 20% 16V 72MA -4
C609	0CQ6821N509	PEI682K2AT 6.8nF 10% 100V PE -40TO+85
C610	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V
C611	0CE476DH618	SMS5.0TP25VB47M 47u 20% 25V 131MA -40
C612	181-007C	ECQV1H104JL3 100nF 5% 50V MPE -
C613	181-007C	ECQV1H104JL3 100nF 5% 50V MPE -
C614	181-007C	ECQV1H104JL3 100nF 5% 50V MPE -
C627	0CK1030K945	DCT103Z26Y5VF6FJ5A 10000pF -20TO+80%
C674	0RD6801F609	RD-96T1J6K80 6.8KOHM 5% 1/6W 3.2X1.8M
C701	0CE475CK638	ERN475M050T1G5C11G 4.7uF 20% 50V
C702	181-064P	ERN106T016T1G5C11G 10uF -10TO+50%
C704	181-064P	ERN106T016T1G5C11G 10uF -10TO+50%
C705	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V
C706	0CN5620F569	RH EP050 X562K-B-B 5.6nF 10% 16V X7R
C707	0CQ5621N509	PEI562K2AT 5.6nF 10% 100V PE -40TO+85
C708	0CN1020K519	RH UP050 B102K-B-B 1000pF 10% 50V Y5P
C709	181-007C	ECQV1H104JL3 100nF 5% 50V MPE
C710	181-007C	ECQV1H104JL3 100nF 5% 50V MPE
C711	0CE105CK638	SHL5.0TP50VB1M 1uF 20% 50V 22MA -40TO
C713	0CE105CK638	SHL5.0TP50VB1M 1uF 20% 50V 22MA -40TO
C714	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V
C715	0CE107DF618	EGR107M016T1G1C11G 100uF 20% 16V
C716	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V
C717	181-007C	ECQV1H104JL3 100nF 5% 50V MPE
C719	0CE105CK638	SHL5.0TP50VB1M 1uF 20% 50V 22MA -40TO
C720	181-007C	ECQV1H104JL3 100nF 5% 50V MPE

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LOCA. NO	PART NO	DESCRIPTION
C721	181-007C	ECQV1H104JL3 100nF 5% 50V MPE
C722	0CN1020K519	RH UP050 B102K-B-B 1000pF 10% 50V Y5P
C723	0CQ1032K439	DMF 1H 103J TP 10nF 5% 50V MPE -40TO+
C724	0CQ6831N509	PEI683K2AT 68nF 10% 100V PE -40TO+85C
C725	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V
C726	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5P
C727	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5P
C729	0CE475CK636	ERN475M050T1G5C11G 4.7uF 20% 50V
C730	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V
C731	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5P
C732	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5P
C756	0CE106DF618	SMS5. 0TP16VB10M 10uF 20% 16V 72MA -4
C757	0CE105DK618	EGR105M050T1G1C11G 1uF 20% 50V 10MA
C758	0CE105DK618	EGR105M050T1G1C11G 1uF 20% 50V 10MA
C760	0CE105DK618	EGR105M050T1G1C11G 1uF 20% 50V 10MA
C761	0CE105DK618	EGR105M050T1G1C11G 1uF 20% 50V 10MA
C763	0CE106DF618	SMS5. 0TP16VB10M 10uF 20% 16V 72MA -4
C764	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R -
C765	0CE106DF618	SMS5. 0TP16VB10M 10uF 20% 16V 72MA -4
C766	0CE107DF618	EGR107M016T1G1C11G 100uF 20% 16V
C767	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R -
C802	0CQZVBK002D	PCX2 335 91593 0.47uF 10% 275V MPP -4
C803	0CE337KV6A0	LTW337M450S1A5S45G 330uF 20% 450V 1.9
C804	0CK10202515	DCH102K39Y5PP7FJ5A 1nF 10% 2000V Y5P
C805	0CK10202515	DCH102K39Y5PP7FJ5A 1nF 10% 2000V Y5P
C809	0CE105BK618	ESM105M050T1G5C11G 1uF 20% 50V 10MA
C810	0CE336BK618	ESM336M050T1G5E11G 33uF 20% 50V
C811	181-011B	MPPS102J3VD 1nF 5% 1.6KV MPP -
C813	181-091Q	LRYM5471KHA 470pF 10% 1000V Y5R -
C814	0CE227DP61A	EGR227M160T1G1M32G 220uF 20% 160V
C815	0CK8210K515	DCT821K20Y5PF6FJ5A 820pF 10% 50V Y5P
C817	181-007C	ECQV1H104JL3 100nF 5% 50V MPE -
C818	181-007A	ECQ-V1H563JL3(TR) 0.056uF 5% 50V MPE
C819	0CK1520K515	DCT152K22Y5PF6FJ5A 1.5nF 10% 50V Y5P
C821	0CK4710W515	DCM471K20Y5PL6FJ5A 470pF 10% 500V
C826	0CE228BF618	ESM228M016T1G5K25G 2200uF 20% 16V
C833	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C834	0CE228DH610	EGR228M025K6G1L25G 2200uF 20% 25V
C835	0CE107CP618	SHL5.0TP160VB100M 100uF 20% 160V
C843	181-120K	SDE222M16FS1 2.2nF 20% 4000V Y5U -25T
C850	0CE477BF618	ESM477M016T1G5G11G 470uF 20% 16V
C853	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C855	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C901	0CE475DR618	EGR475M250T1G1G11G 4.7uF 20% 250V
C902	0CN2210K519	RH UP050 B221K-B-B 220p 10% 50V Y5P -
C904	0CN1810K519	RH UP050 B181K-B-B 180pF 10% 50V Y5P
C907	0CN2210K519	RH UP050 B221K-B-B 220p 10% 50V Y5P -
C908	0CK12202510	DCH122K43Y5PP73K0A 1.2nF 10% 2000V
COIL & INDUCTOR		
L102	0LA0820K119	Inductor,Wire Wound,Axial" LAL02TBR82K
L1202	0LA1000K119	Inductor,Wire Wound,Axial" LAL02TB101K

LOCA. NO	PART NO	DESCRIPTION
L1203	0LA1000K119	Inductor,Wire Wound,Axial LAL02TB101K
L217	0LA1000K119	Inductor,Wire Wound,Axial LAL02TB101K
L218	0LA1000K119	Inductor,Wire Wound,Axial LAL02TB101K
L221	0LA1000K119	Inductor,Wire Wound,Axial LAL02TB101K
L222	0LA1000K119	Inductor,Wire Wound,Axial LAL02TB101K
L223	0LA0102K119	Inductor,Wire Wound,Axial LAL02TB100K
L224	0LA0102K119	Inductor,Wire Wound,Axial LAL02TB100K
L401	61409B0007A	Coil,Choke CH-1215S 6mH DC 500V 0A
L402	6140VY0024H	Coil,Linearity HL-1520S-26.5uH 26.5uH 50V
L403	61409B0007C	Coil,Choke CH-1215S 1.6mH 1.6mH DC 500V
L404	61409B0007D	Coil,Choke CH-1215S 450uH 450uH DC
L501	0LA0102K119	Inductor,Wire Wound,Axial LAL02TB100K
L504	0LA0821K119	Inductor,Wire Wound,Axial LAL02TB8R2K
L802	150-C02F	Coil,Choke LEAD 82uH 50V 0A 12X17MM
T402	EBJ34806701	Transformer,FBT BSC25-0363 12.5 112V 7.8V
T403	151-C02B	Transformer,Switching 151-C02B EI2519 0 0
T803	61709MC016A	Transformer,Switching 61709MC016A
CONNECTOR		
G1	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G10	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G11	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G12	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G13	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G14	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G15	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G16	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G17	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G18	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G2	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G20	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G21	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G22	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G23	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G24	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G25	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G27	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G28	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G29	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G3	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G30	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G33	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G34	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G35	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G37	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G38	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G39	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G4	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G40	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G41	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G42	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G43	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN

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LOCA. NO	PART NO	DESCRIPTION
G44	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G45	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G48	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G49	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G50	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G51	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G52	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G53	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G54	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G55	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G58	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G59	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G60	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G61	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G62	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G65	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G66	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G68	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G71	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G72	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G73	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
G74	336-072C	BSP(C2600R) 1P LUG STRAIGHT DIP TP SN
H1	6631V25034H	6631V25034H GIL-G-04 35097-9702_35098
H2	6631V25014H	6631V25014H GIL-G-03 35097-9702_35098
H3	387-917J	387-917J 35740-8610 35740-8610 500mM
H4	387-603E	LPI-025-027 9P 4P-5P UL1007 N . YUEQ
JW02C	170-853F	170-853F AE-9306 AE-9306 140mM NONE 1
P101	366-921B	GIL-G-03P-S3T2-E 3P 2.54MM 1R STRAIGH
P1206A	387-A06G	387-A06G GIL-G-06 GIL-J-06 400mM 2.50
P201	366-921E	GIL-G-06P-S3T2-E(TYPOE) 6P 2.50MM 1R
P401	366-043K	35929-0410 4P 10.00MM 1R STRAIGHT DIP
P601	366-921B	GIL-G-03P-S3T2-E 3P 2.54MM 1R STRAIGH
P602	366-921C	GIL-G-04P-S3T2-E(2.54mm) 4P 2.54MM 1R
P801	366-043B	35929-0210 2P 10.00MM 1R STRAIGHT DIP
P802	366-043B	35929-0210 2P 10.00MM 1R STRAIGHT DIP
P901	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP B
RESISTOR		
D501	0RD2002F609	RD-96T1J20K0 20KOHM 5% 1/6W
FR301	0RP0050H709	SPF92T1KR050 0.05OHM 10% 1/2W 3.2X2.0
FR401	0RF0181K607	FNS02T3J1R80 1.8OHM 5% 2W 12.0X4.0MM
FR403	0RF0141K607	FNS02T3J1R40 1.4OHM 5% 2W 12.0X4.0MM
FR501	0RP0050H709	SPF92T1KR050 0.05OHM 10% 1/2W 3.2X2.0
FR825	0RP0020J809	SPF01T1MR020 0.02OHM 20% 1W
J511	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
J534	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
J542	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
J721	0RD2201F609	RD-96T1J2K20 2.2KOHM 5% 1/6W 3.2X1.8M
R1	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R101	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R102	0RD3601F609	RD-96T1J3K60 3.6KOHM 5% 1/6W 3.2X1.8M
R103	0RD1201F609	RD-96T1J1K20 1.2KOHM 5% 1/6W 3.2X1.8M

LOCA. NO	PART NO	DESCRIPTION
R104	0RD0222F609	RD-96T1J22R0 22OHM 5% 1/6W 3.2X1.8MM
R105	0RD3900F609	RD-96T1J390R 390OHM 5% 1/6W
R108	0RD1802F609	RD-96T1J18K0 18KOHM 5% 1/6W
R109	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8M
R110	0RS2702H609	RS-92T1J27K0 27KOHM 5% 1/2W
R111	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8M
R112	0RD2201F609	RD-96T1J2K20 2.2KOHM 5% 1/6W 3.2X1.8M
R113	0RD2201F609	RD-96T1J2K20 2.2KOHM 5% 1/6W 3.2X1.8M
R132	0RX0392K618	S M L02R0J39R0 39OHM 5% 2W
R150	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8M
R152	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W
R153	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R154	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R16	0RD1201F609	RD-96T1J1K20 1.2KOHM 5% 1/6W 3.2X1.8M
R17	0RD2401F609	RD-96T1J2K40 2.4KOHM 5% 1/6W 3.2X1.8M
R18	0RD2701F609	RD-96T1J2K70 2.7KOHM 5% 1/6W 3.2X1.8M
R19	0RD1801F609	RD-96T1J1K80 1.8KOHM 5% 1/6W 3.2X1.8M
R20	0RD3600F609	RD-96T1J360R 360OHM 5% 1/6W
R21	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8M
R22	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8M
R226	0RD0752F609	RD-96T1J75R0 75OHM 5% 1/6W 3.2X1.8MM
R23	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8M
R247	0RD5100F609	RD-96T1J510R 510OHM 5% 1/6W
R249	0RD0752F609	RD-96T1J75R0 75OHM 5% 1/6W 3.2X1.8MM
R250	0RD0752F609	RD-96T1J75R0 75OHM 5% 1/6W 3.2X1.8MM
R251	0RD0752F609	RD-96T1J75R0 75OHM 5% 1/6W 3.2X1.8MM
R252	0RD0752F609	RD-96T1J75R0 75OHM 5% 1/6W 3.2X1.8MM
R301	0RN1502F409	RN-96T1F15K0 15KOHM 1% 1/6W
R303	0RD0151A609	RDM92T1J1R50 1.5OHM 5% 1/2W
R304	0RD0101A609	RDM92T1J1R00 1OHM 5% 1/2W 6.5X2.3MM
R305	0RN1202F609	RN-96T1J12K0 12KOHM 5% 1/6W
R306	0RD8202F609	RD-96T1J82K0 82KOHM 5% 1/6W
R307	0RN2701F409	RN-96T1F2K70 2.7KOHM 1% 1/6W 3.2X1.8M
R308	0RN4302F409	RN-96T1F43K0 43KOHM 1% 1/6W
R309	0RD6801F609	RD-96T1J6K80 6.8KOHM 5% 1/6W 3.2X1.8M
R310	0RD0151A609	RDM92T1J1R50 1.5OHM 5% 1/2W
R311	0RN3002F409	RN-96T1F30K0 30KOHM 1% 1/6W
R312	0RD1502F609	RD-96T1J15K0 15KOHM 5% 1/6W
R313	0RN4702F409	RN-96T1F47K0 47KOHM 1% 1/6W
R315	0RS1500K619	SML02R0J150R 150OHM 5% 2W 8.6X3.5MM
R316	0RS2701K619	SML02R0J2K70 2.7KOHM 5% 2W 8.6X3.5MM
R318	0RS1200K619	SML02R0J120R 120OHM 5% 2W 8.6X3.5MM
R401	0RD0472A609	RDM92T1J47R0 47OHM 5% 1/2W
R403	0RD2001A609	RDM92T1J2K00 2KOHM 5% 1/2W
R404	0RD1500F609	RD-96T1J150R 150OHM 5% 1/6W
R405	0RS3001K619	SML02R0J3K00 3KOHM 5% 2W 8.6X3.5MM
R406	0RS3301K607	RSD02T3J3K30 3.3KOHM 5% 2W
R407	0RD1002A609	RDM92T1J10K0 10KOHM 5% 1/2W
R408	0RD4302F609	RD-96T1J43K0 43KOHM 5% 1/6W
R409	0RD6203F609	RD-96T1J620K 620KOHM 5% 1/6W 3.2X1.8M
R41	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R410	0RD5101F609	RD-96T1J5K10 5.1KOHM 5% 1/6W 3.2X1.8M

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LOCA. NO	PART NO	DESCRIPTION
R413	0RD0392A609	RDM92T1J39R0 39OHM 5% 1/2W
R414	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W
R416	0RS1001J607	RS-01T3J1K00 1KOHM 5% 1W 12.0X4.0MM
R42	0RD1004F609	RD-96T1J1M00 1MOHM 5% 1/6W 3.2X1.8MM
R420	0RD2403F609	RD-96T1J24K0 240KOHM 5% 1/6W 3.2X1.8MM
R421	0RD6200F609	RD-96T1J620R 620OHM 5% 1/6W
R43	0RD2703F609	RD-96T1J270K 270KOHM 5% 1/6W 3.2X1.8MM
R440	0RMZVBK002D	RSR05V-J15K0 15KOHM 5% 5W
R441	0RD3300A609	RDM92T1J330R 330OHM 5% 1/2W
R450	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R451	0RD1502F609	RD-96T1J15K0 15KOHM 5% 1/6W
R455	0RD3902F609	RD-96T1J39K0 39KOHM 5% 1/6W
R456	0RD1203F609	RD-96T1J120K 120KOHM 5% 1/6W 3.2X1.8MM
R457	0RD3902F609	RD-96T1J39K0 39KOHM 5% 1/6W
R459	0RD1103F609	RD-96T1J110K 110KOHM 5% 1/6W 3.2X1.8MM
R460	0RD6201F609	RD-96T1J6K20 6.2KOHM 5% 1/6W 3.2X1.8MM
R461	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R462	0RD6200F609	RD-96T1J620R 620OHM 5% 1/6W
R463	0RD9100F609	RD-96T1J910R 910OHM 5% 1/6W
R502	0RD3902F609	RD-96T1J39K0 39KOHM 5% 1/6W
R503	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8MM
R504	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W
R505	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R506	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R507	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R508	0RD3901F609	RD-96T1J3K90 3.9KOHM 5% 1/6W 3.2X1.8MM
R509	0RD3901F609	RD-96T1J3K90 3.9KOHM 5% 1/6W 3.2X1.8MM
R510	0RD3901F609	RD-96T1J3K90 3.9KOHM 5% 1/6W 3.2X1.8MM
R512	0RN4701F409	RN-96T1F4K70 4.7KOHM 1% 1/6W 3.2X1.8MM
R513	0RD1300F609	RD-96T1J130R 130OHM 5% 1/6W
R514	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W
R515	0RD0102F609	RD-96T1J10R0 10OHM 5% 1/6W 3.2X1.8MM
R516	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W
R517	0RD5601F609	RD-96T1J5K60 5.6KOHM 5% 1/6W 3.2X1.8MM
R518	0RD3602F609	RD-96T1J36K0 36KOHM 5% 1/6W
R519	0RD9101F609	RD-96T1J9K10 9.1KOHM 5% 1/6W 3.2X1.8MM
R521	0RD7501F609	RD-96T1J7K50 7.5KOHM 5% 1/6W 3.2X1.8MM
R522	0RD2402F609	RD-96T1J24K0 24KOHM 5% 1/6W
R523	0RD1803F609	RD-96T1J180K 180KOHM 5% 1/6W 3.2X1.8MM
R524	0RD2700F609	RD-96T1J270R 270OHM 5% 1/6W
R525	0RD6202F609	RD-96T1J62K0 62KOHM 5% 1/6W
R526	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W
R527	0RD3600F609	RD-96T1J360R 360OHM 5% 1/6W
R529	0RD0392F609	RD-96T1J39R0 39OHM 5% 1/6W 3.2X1.8MM
R530	0RD3300F609	RD-96T1J330R 330OHM 5% 1/6W
R531	0RD3300F609	RD-96T1J330R 330OHM 5% 1/6W
R532	0RD3901F609	RD-96T1J3K90 3.9KOHM 5% 1/6W 3.2X1.8MM
R536	0RD3000F609	RD-96T1J300R 300OHM 5% 1/6W
R537	0RD3300F609	RD-96T1J330R 330OHM 5% 1/6W
R547	0RD1003A609	RDM92T1J100K 100KOHM 5% 1/2W
R550	0RS1002H609	RS-92T1J10K0 10KOHM 5% 1/2W
R552	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R -

LOCA. NO	PART NO	DESCRIPTION
R561	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R562	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R563	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R564	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R565	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R566	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R58	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R60	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W
R601	0RD0221A609	RDM92T1J2R20 2.2OHM 5% 1/2W
R602	0RD0221A609	RDM92T1J2R20 2.2OHM 5% 1/2W
R603	0RD0221A609	RDM92T1J2R20 2.2OHM 5% 1/2W
R604	0RD0221A609	RDM92T1J2R20 2.2OHM 5% 1/2W
R605	0RD4301F609	RD-96T1J4K30 4.3KOHM 5% 1/6W 3.2X1.8MM
R606	0RD8201F609	RD-96T1J8K20 8.2KOHM 5% 1/6W 3.2X1.8MM
R608	0RD8201F609	RD-96T1J8K20 8.2KOHM 5% 1/6W 3.2X1.8MM
R611	0RD4301F609	RD-96T1J4K30 4.3KOHM 5% 1/6W 3.2X1.8MM
R618	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W
R620	0RS0561K607	RSD02T3J5R60 5.6OHM 5% 2W 12.0X4.0MM
R65	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W
R66	0RD3301F609	RD-96T1J3K30 3.3KOHM 5% 1/6W 3.2X1.8MM
R69	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W
R701	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R702	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R703	0RD6801F609	RD-96T1J6K80 6.8KOHM 5% 1/6W 3.2X1.8MM
R704	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R705	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8MM
R706	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8MM
R707	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8MM
R708	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8MM
R711	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R713	0RD2201F609	RD-96T1J2K20 2.2KOHM 5% 1/6W 3.2X1.8MM
R72	0RD6800F609	RD-96T1J680R 680OHM 5% 1/6W
R722	0RD0752F609	RD-96T1J75R0 75OHM 5% 1/6W 3.2X1.8MM
R760	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R761	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R803	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R804	0RS4702K607	RSD02T3J47K0 47KOHM 5% 2W 12.0
R805	0RS4702K619	SML02R0J47K0 47KOHM 5% 2W 8.6X3.5MM
R806	180-A01D	PRW02T3JR160 0.16OHM 5% 2W
R807	0RD2200A609	RDM92T1J220R 220OHM 5% 1/2W
R808	0RD1501F609	RD-96T1J1K50 1.5KOHM 5% 1/6W 3.2X1.8MM
R809	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R810	0RD0472F609	RD-96T1J47R0 47OHM 5% 1/6W 3.2X1.8MM
R812	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8MM
R814	0RKZVTA001C	RN-92T1J8M20 8.2MOHM 5% 1/2W 9.0X3.0MM
R816	0RD2001F609	RD-96T1J2K00 2KOHM 5% 1/6W 3.2X1.8MM
R82	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R823	0RS1500K607	RSD02T3J150R 150OHM 5% 2W
R831	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R832	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R835	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R884	0RD1201F609	RD-96T1J1K20 1.2KOHM 5% 1/6W 3.2X1.8MM

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LOCA. NO	PART NO	DESCRIPTION
R902	0RD2204A609	RDM92T1J2M20 2.2MOHM 5% 1/2W
R904	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
R905	0RD3900F609	RD-96T1J390R 390OHM 5% 1/6W
R906	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R908	0RD1801F609	RD-96T1J1K80 1.8KOHM 5% 1/6W 3.2X1.8M
R912	0RS1802K607	RSD02T3J18K0 18KOHM 5% 2W
R915	0RD3900F609	RD-96T1J390R 390OHM 5% 1/6W
R916	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R917	0RS1802K607	RSD02T3J18K0 18KOHM 5% 2W
R918	0RD1501A609	RDM92T1J1K50 1.5KOHM 5% 1/2W
R919	0RD1501A609	RDM92T1J1K50 1.5KOHM 5% 1/2W
R920	0RD1501A609	RDM92T1J1K50 1.5KOHM 5% 1/2W
R921	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W
R922	0RD4300F609	RD-96T1J430R 430OHM 5% 1/6W
R923	0RS1802K607	RSD02T3J18K0 18KOHM 5% 2W
SWITCH		
SW11	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC
SW12	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC
SW13	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC
SW14	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC
SW15	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC
SW16	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC
SW801	6600M000057	KDC-A02-F AC 250VAC 5A 1PCS 1C1P HORI
SPARK GAP		
SG901	165-004A	152F-L3N/S-23 RADIAL 1.5KV 1.5KV 0A 5
SG902	165-004A	152F-L3N/S-23 RADIAL 1.5KV 1.5KV 0A 5
SG903	165-004A	152F-L3N/S-23 RADIAL 1.5KV 1.5KV 0A 5
FILTER & CRYSTAL		
FB801	125-022R	BI3857 30OHM 3.6X5.7MM AXIAL TP
L804	125-022R	BI3857 30OHM 3.6X5.7MM AXIAL TP
T804	150-F06T	150-F06T 20MH 38X26X43MM SQE3535
X1	6212AA2998A	HLX-308 32.768MHZ 10PPM 32.768MHZ 10P
X501	156-A01V	EUA4.43361F00EYYL 4.433619MHZ 15PPM
Z111	6200QL3003W	HDMIF389A5M 38.9MHZ 17.3*3.9*8.7 SIP
ACCESSORIES		
A1	38289U0580A	Manual,USER MC059C LG NEU/FL
	38289U0580E	Manual, USER MC059C LG NAGHI AR/EN
	38289U0580F	Manual,USER MC059C LG NEU AR/EN
	38289U0580K	Manual,USER MC059C KA/RU/EN
	38289U0580N	Manual,USER MC059C FR/EN
	3828VA0383J	Manual,USER MC049B LG 16 GAME
	38289U0580V	Manual,USER MC059C VLASER RU/EN
	38289U0580L	Manual,USER MC059C RU/EN
	38289U0580H	Manual,USER MC059C RUS/BZ RU/EN
	38289U0580Z	Manual,USER MC059C SAKAL HE/AR/EN
	MFL32369927	Manual,Owners USER MC059C RU/EN
A2	6710V00124Y	Remote Controller COMPLEX MC059C 21FS2
	6710V00018G	Remote Controller MC022A GAME

LOCA. NO	PART NO	DESCRIPTION
A3	5010V00004B	Antenna,Rod 5010V00004B SINGLE
	5010V00004D	Antenna,Rod 3SECTION 750MM NTSC
	450-018C	Connector,RF BS901 - STRAIGHT
MISCELLANEOUS		
B1	MAY35755201	Box, DW 644 394 502 2 COLOR 21FS6
	MAY35755204	Box DW 644 394 502 2 COLOR 21FS6
	MAY35755205	Box, DW 644 394 502 2 COLOR 21FS6
	3890900096D	Box, DW2 1074 1104 1080 1 COLOR
	3890900097D	Box, DW2 1094 1124 100 1 COLOR
	3890V00067F	Box, SW 0 0 0 1 COLOR PC-63A 29
	372-N74B	Box, SW 0 0 0 NO PRINTING CHASSIS
	MAY35755201	Box, DW 644 394 502 2 COLOR 21FS6
F801	0FS4001B53C	Fuse,Time Delay 0215 004. CERAMIC 250V
JA01	6612VJH023D	Jack,RCA PPJ126-04 15MM 3RX3C ANGLE
JA1201	6613V00004B	Jack,RCA PJ6054B 14.0MM 3RX1C ANGLE
LD11	0DLLT0020AA	LED,DIP LTL-4223 ROUND 5MM HIGH
PA01	6712SCA226B	Receiver Module KSM-913LG1T 4.5TO5.5V
SK901	6620VBC003A	Socket,CRT PCS030A 8P STRAIGHT
TH801	163-051F	Thermistor,PTC J503P84D140M290Q 14OHM
TH803	6322TA080AB	Thermistor,NTC TP8D15LKBESMNR 8OHM
TU101	6700MF0018A	Tuner,Analog TAEA-G011D PAL-B/G+I+M+D/K
VD801	164-003K	Varistor INR14D621K(600pF 14MM) 620V

SVC. SHEET : 38549D0026A-S