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# COLOR TV

## SERVICE MANUAL

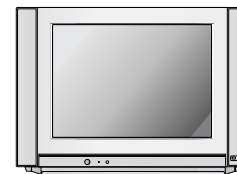
CHASSIS : CW62C

MODEL : 25FB7RLE

25FB7RLE-T1

### 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  $\Delta$  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 $\Omega$  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.

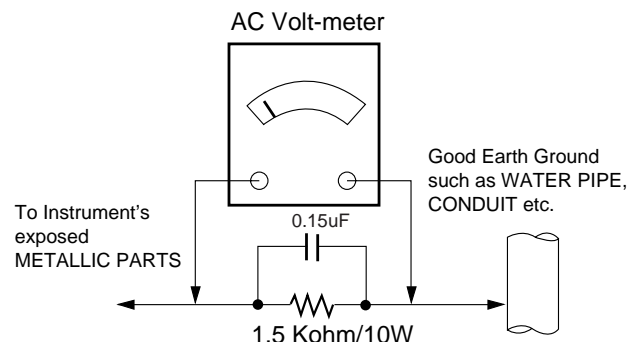
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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

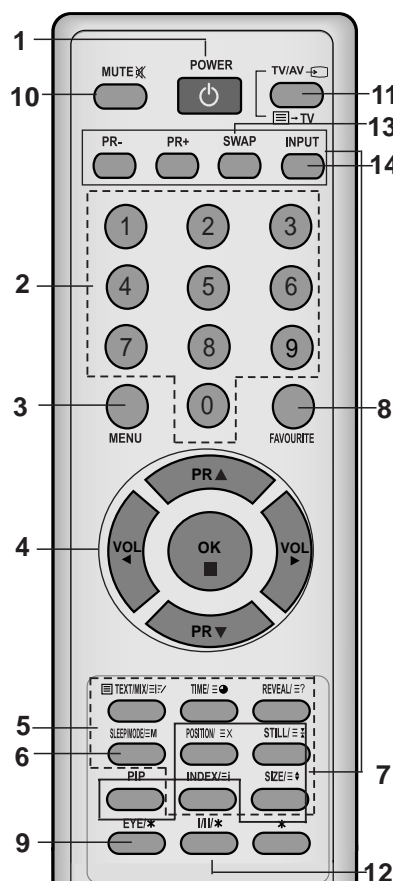
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.

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.

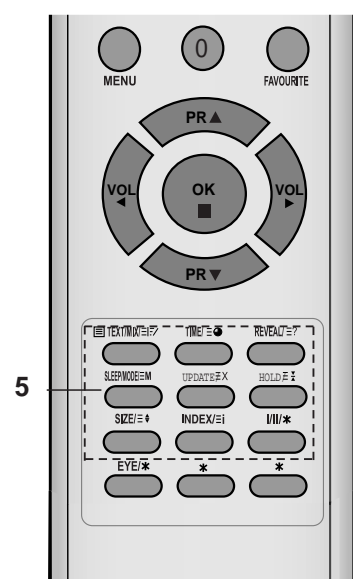
#### Leakage Current Hot Check circuit



## DESCRIPTION OF CONTROLS



(With TELETEXT / PIP)





(With TELETEXT / Without PIP)

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

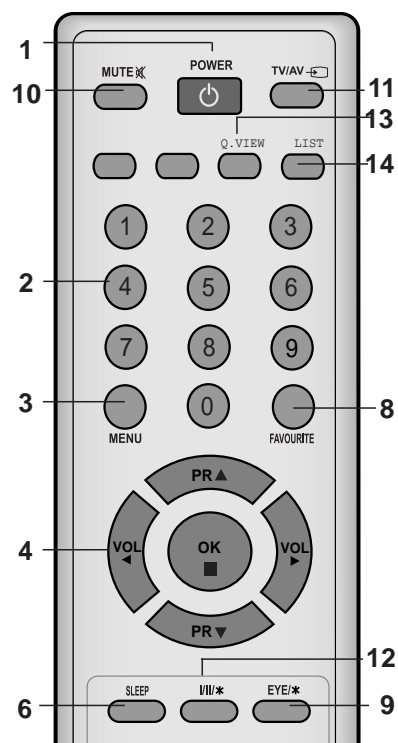
Before you use the remote control handset, please install the batteries. See the next page.

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. **▲ / ▼ (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.
5. **TELETEXT BUTTONS (option)**  
These buttons are used for teletext.  
For further details, see the 'Teletext' section.
6. **SLEEP**  
sets the sleep timer.
7. **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.

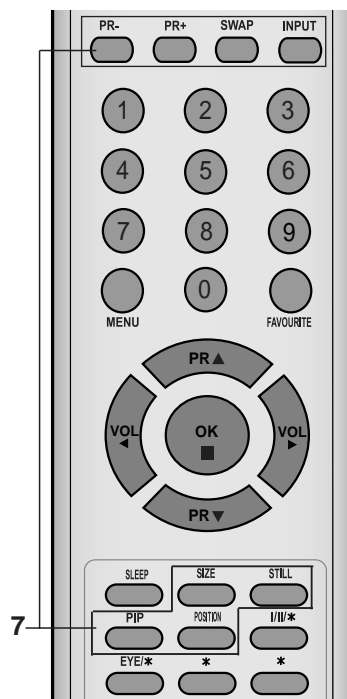
8. **FAVOURITE**  
selects a favorite programme.
9. **EYE/\* (option)**  
switches the eye function on or off.
10. **MUTE**   
switches the sound on or off.
11. **TV/AV**   
selects TV or AV mode.  
switches the set on from standby.  
exits the Teletext mode.
12. **I/II/\***  
selects the language during dual language broadcast.  
selects the sound output (option).
13. **Q.VIEW (or YELLOW)**  
returns to the previously viewed programme.
14. **LIST (or BLUE)**  
displays the programme table.

**\* : No function**

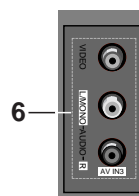
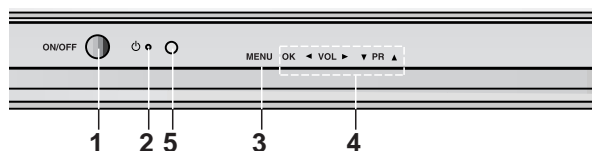
**COLOURED BUTTONS** : These buttons are used for teletext (only TELETEXT models) or programme edit.



**(Without TELETEXT / PIP)**



**(With PIP / Without TELETEXT)**



**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. MENU**

selects a menu.

**4. OK**

accepts your selection or displays the current mode.

**◀ / ▶ (Volume Down/Up)**

adjusts the volume.

adjusts menu settings.

**▲ / ▼ (Programme Up/Down)**

selects a programme or a menu item.

switches the set on from standby.

**5. REMOTE CONTROL SENSOR**

**Note :** Only use the supplied remote control handset. (When you use others, they will not be able to function.)

**6. AUDIO/VIDEO IN SOCKETS (AV IN3)**

Connect the audio/video out sockets of external equipment to these sockets.

# 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 CW62C Chassis.

## ■ Test and Inspection Method

- 1) Capability: It follows the TV QC Standard of LGE.
- 2) Standards of Etc. requirement
  - Safety: IEC60065
  - EMC : CE standard(EN55020,EN55013)

## ■ Test Condition

Conduct the test as mentioned below.

- 2.1 Temperature :  $25 \pm 5^{\circ}\text{C}$  ( CST  $40 \pm 5^{\circ}\text{C}$ )
- 2.2 Relative Humidity :  $65 \pm 10\%$
- 2.3 Power Voltage :

## ■ General Specification

Market Place	Band	Standard input Voltage	Remark
Miesast/Africa	LG	110 ~240 V 50/60Hz	Initial
EU/CIS	LG	230V 50Hz	

2.4 Follow each drawing or spec for spec and performance of parts, based upon P/N of B.O.M.

2.5 Warm up TV set for more than 20min. before the measurement (If no problem in capability,this allow omitted)

No	Item	Specification	Remark
1	Receiving System	1) NTSC M 2) NTSC M/ PAL M/N	Korea,Japan,Taiwan,North America,Middle South American
		1) PAL,SECAM BG 2) PAL/SECAM DK 3) PAL-I/I 4) NTSC M 5) NTSC 4.43(AV) 6) SECAM L/L 7) NTSC M/PAL M/N	EU /Non EU MODEL  OPTION
2	Receiving Channel	1) VHF : 02~13 UHF : 14~69 CATV : 02~125	Korea,Taiwan,North America. Middle south American
		2) VHF/UHF : 1~62CH CATV : C13~C38CH TOTAL 88CH	Japan
		3) VHF : E2 ~ E12 UHF : E21 ~ E69 CATV : S1 ~ S20 HYPER : S21 ~ S41	1)EU/Non EU Model
		4) VHF : 02 ~ 13 UHF : 14 ~69 CATV : 02 ~ 71	2)NTSC-M (Multi-model NTSC-M)
3	Input Voltage	AC 220V, 60Hz AC 100 ~ 240V, 50/60Hz AC 120V, 60Hz AC 100V, 50/60Hz AC 110V, 60Hz AC 110 ~ 240 V/50Hz, 60Hz AC 230 V 50/60 Hz	Korea Middle south America North America Japan Taiwan NON-EU EU
4	Market	Korea, Japan, Taiwan, North America. Middle South American ,Filipine, China, Middle Asia, Asia, EU, CIS	
	Picture inch	FLAT 29"	
5	Tuning System	FS	NTSC MODEL
		FVS 100 program	PAL MODEL 200 PR(W/O TXT )
6	Operating Environment	1)Temp : 0 ~ 45 deg 2)Humidity : under 85 %	
7	Storage Environment	1)Temp : -20 ~ 60 deg 2)Humidity : under 85 %	

# ADJUSTMENT INSTRUCTIONS

## 1. Application Object

This specification can be applied to all the television related to CW62C 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 adjustments must be done in correct sequence. However, for better productivity, it can be changed in a pre-permitted range.
- (3) Environment conditions: If not specified, it must be done in following conditions.
  - 1) Temperature:  $25 \pm 5^{\circ}\text{C}$
  - 2) Humidity :  $65 \pm 10\%$
- (4) AC Voltage  $220\text{V} \pm 10\%$
- (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. ( $65\text{dB} \pm 1\text{dBuV}$ )  
 PAL/SECAM: LG standard signal means the digital pattern PAL\_EU 05CH

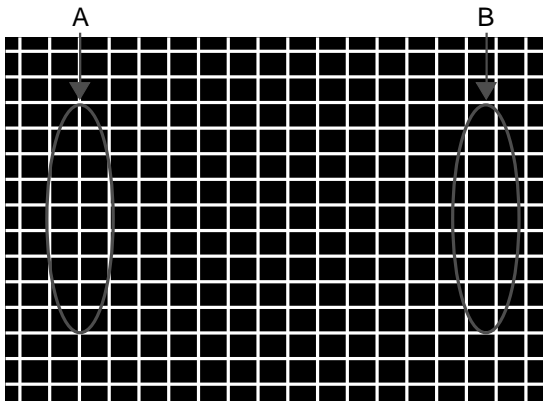
## 3. Adjust Item

### 3.1.1. Preparation for Adjustment.

- Receive PAL-B/G 07ch. (Cross hatch pattern) likes fig.1.
- Select the Picture mode to Standard or clear.

### 3.1.2. Adjustment.1

Adjust FOCUS VOLUME (the top volume of FBT), and make the FOCUS of vertical line on the quarter of screen (red area in fig.1) achieve the best state.



<Fig 1. Cross-Hatch Pattern(NTSC:US 09CH, PAL:E-7 CH)

## 3.2. Purity and Convergence adjustment

Following direction is a case using of None-ITC CPT for CPT manufacture factory.

This adjustment should be done as below direction.

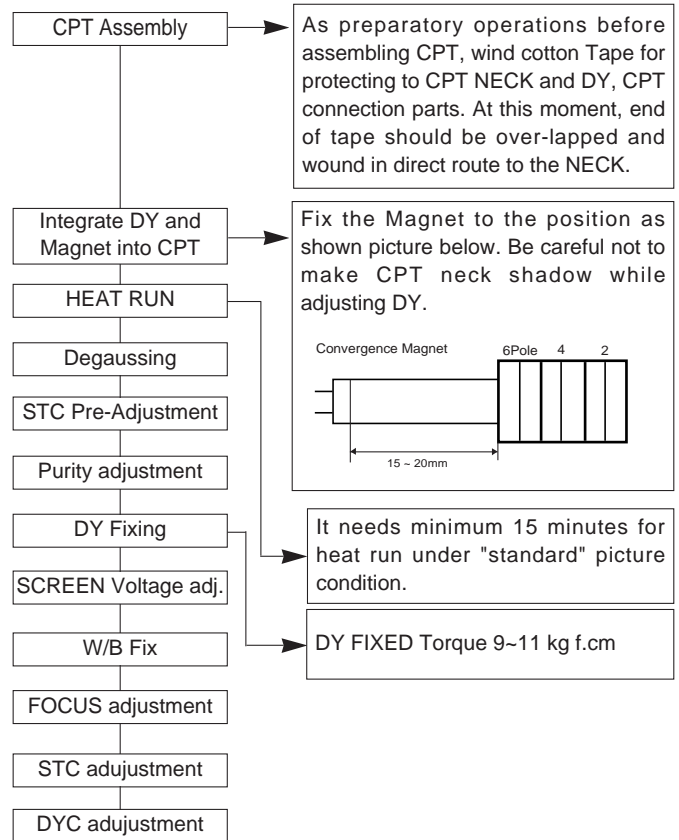


Fig.2 Adjustment Sequence

### 3.2.1. Purity adjustment

- a. Do degauss CPT and Cabinet
- b. Receive Red Raster signal. (Gumi PG50ch.)
- c. Unfasten fixing Screw of DY, close DY to CPT Funnel DY as possible as you can.
- d. Make R-Land be centered as cross Purity Magnet  
That time, 4th 6th magnet should keep free gauss status.
- e. Make uniform RED Raster as moving DY,  
Check there is purity problem or not on R/G/B, white Raster. Then, Fix screw of DY.  
(At this time, be careful about inclination and DY should be fixed keeping horizontality)
- f. Check the TV in direction of EAST, WEST, SOUTH, NORTH,. Adjust with supporting MAGNET when adjustment is not operated ..

### 3.2.2. Adjustment for Convergence

This adjustment should be operated at the best condition of FOCUS after finishing the PURITY adjustment.

- 1) BACK RASTER receives black CROSS HATCH signal.
- 2) Adjust Brightness so that there are 9-12 dots.
- 3) Widen two tabs of 4pole Magnet with equal angles and accord red, blue vertical lines at the center of screen.
- 4) With keeping angle of "c. clause", rotate tab and accord red/blue, green vertical lines at the center of screen.



- 5) Widen two tabs of 6pole Magnet with equal angles and accord red, blue vertical lines at the center of screen.
- 6) With keeping angle of "e. clause", repeat the adjustment from c to e keeping in mind the movement of red, blue, green when the horizontal lines are twisted.
- 7) Move DY up, down, left, right and make the convergence to be optimal condition and stick rubber wedge to CPT so that the DY not to move.

### 3.3 SCREEN & WHITE BALANCE Adjusting

#### 3.3.1. Manual Adjustment Method (use remoncon for adjusting)

- 1) Adjust in on RF signal condition or no signal condition.
- 2) Press ADJ KEY of SVC T/X and select 2.SCREEN ADJ key for adjustment and generate horizontal line.  
Turn the Screen Volume so that horizontal line not to be shown and then change oppositely to finish the adjustment at the showing place.

#### 3.3.2. WHITE BALANCE Manual Adjustment.( INSTART -> SERVICE1)

- 1) TV set receive 100% White Pattern signal
  - 2) In the state of default setting,adjust BLO-R(R CUT), BLO-G(G CUT)
  - 3) In default setting Data: BG(B-DRIVE) is 32,adjust RG(R-DRIVE), GG(G-DRIVE)
- X,Y coordinate satisfy color coordinate below,adjust HIGH LIGHT(35FL)°

- ※ Adjust repeatedly until HIGH LIGHT, LOW LIGHT match.
- ※ W/B setting default data refers to W/B TABLE based on different MODEL.

<Table 1> WHITE BALANCE Color Coordinate

Item	EU	N-EU	KOREA /Taiwan	Middle/South America	Philippines
X	288	268	267	282	266
Y	295	273	276	288	282
Color	9000	1300	1300	10000	13000
Temperature	degree	degree	degree	degree	degree

<Table 2> WHITE BALANCE default setting data

	Item	Range	default setting data PAL	remarks
LOW	BLO-R(R CUT)	0 ~ 63	32	
LIGHT	BLO-G(G CUT)	0 ~ 63	32	
HIGH	RG(R DRIVE)	0 ~ 63	32	
LIGHT	GG(G DRIVE)	0 ~ 63	32	
	BG (B DRIVE)	0 ~ 63	32	fixed

<Table 3>W/B auto adjust machine setting Table

#### 1. IC

	Name	Maker	NOTE
VCD IC			
EP_ROM			

Algorithm			
0	0	0	0

#### 2. White balance IIC Parameter (Address)

Program	Win31_wb	TWB		Win31_wb	TWB	Speed	Delay
Vcd Slave		8A	Eeprom_Slave		A0	1	30

	B(R)_Amp		B(R)_Cut		G_Amp		G_Cut	
Program	Win31_wb	TWB	Win31_wb	TWB	Win31_wb	TWB	Win31_wb	TWB
Sub Add		20		17		21		18
Start Bit		5		5		5		5
Stop Bit		0		0		0		0
Offset		0		0		0		0
Polarity		1		1		0		0
EP_Rom_S		36		33		37		34

SPEED/PLUS	2	2	2	2
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#### 3.Color coordinate

Mode					
High					
Light					
Low					
Light					

### 3.4 Deflection Setting Data Adjustment

#### 3.4.1. Adjustment Preparation

- (1) TV set receive Digital pattern (PAL: E5ch.)
- (2) Deflection setting data adjustment can be done only with remote control.
- (3) Press the "INSTART" Key on the factory remote control continuously to enter Deflection Adjustment mode.
- (4) Press the CH▲, ▼ Key to select adjustment item.
- (5) Press the ◀, ▶ Key to change the data.

#### 3.4.2. Adjustment

- 1.Deflection Setting Data Adjustment,adjust in N50Hz (PAL) mode firstly,  
In USB applied models,PAL Multi regions,N60Hz(Digital Pattern) needs deflection data adjustment.(07.09.11)  
then separately adjust N60Hz(NTSC), Z60Hz, N50Hz, W50Hz, Z50Hz.(Model with ARC function)  
(In N60Hz adjustment, data more than N60Hz can auto transfer accordingly to N60Hz compensate value, please pay attention to it.)
2. Korea Model adjust only in N60Hz.
3. Middle/south America Model first adjust in N60HZ,then in N50(PAL-N).
4. After finishing deflection setting data adjustment, press ENTER KEY,then save it and escape adjustment Mode.

#### ※ Deflection Setting ITEM

#### 1. V SLOPE

CPT center line aim at black background !

#### 2. V SHIFT (VS)

Keep accord with vertical center line of received picture and CPT.

#### 3. V LINEAR (VL)

Adjust the top & bottom size of inner circle to be equal on PAL E05 CH.

#### 4. V AMPLIT (V AMPITUDE)



PAL signal: Adjust upper and lower part of circle from the effective screen of the CPT to be distance of 6~7mm .

#### 5. H SHIFT (HS)

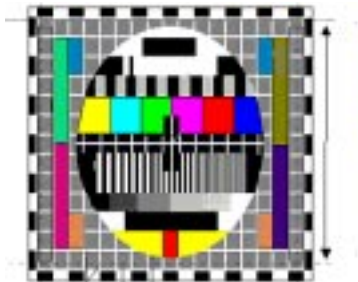
Adjust the vertical center line of a digital circle pattern is in accord with geometric vertical center of the CPT.

#### 6. EW WIDTH (EW)

Adjust outer line of the left/right outer lattice to be united with effective boundary surface of CPT.

Adjust of [Fig 4] 0~25% scope on external lattice from PAL adjustment.

Actual picture size



[fig.4] PAL Digital Pattern (EU05CH)

#### 7. EW PARAB (EW PARABOLA)

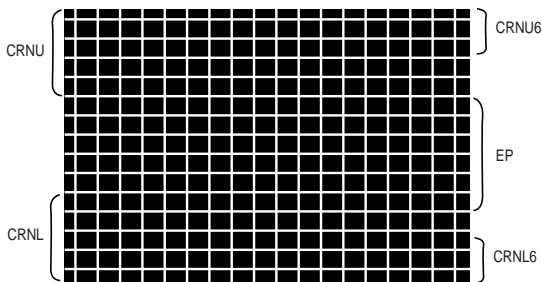
Adjust so that middle portion of the outer most left and right vertical line looks like parallel with vertical lines of the CPT.

#### 8. EW TRAPE (EW TRAPEZOID)

Keep accord with the top and the undersurface horizontal scope.  
(When picture distorts adjust until it is the square.)

#### 9. EW UPCOR & EW LOCORR

Adjust so that corner vertical line of upper-left ,upper-right, lower-left and lower-right to be optimization.



[Fig.5] Cross-Hatch Pattern (PAL:E-7 CH)

Adjust until distortion scope of the edge part in the top and the undersurface of the picture are the same.

#### 11. H PARALL (ANGLE)

In angle adjustment, adjust until inclination of center vertical line should be vertical precisely.

#### 12. SCORRECT (S CORRECTION)

Adjust so that the lattice scopes of top, center, bottom of received pattern are the same.

Use the default setting data (Initial data) of CPT owing to using DY data of CPT.

#### 13. V SCROLL

Keep accord with the geometry vertical center line of received picture and the vertical center of CPT.

#### 14. V ZOOM

VERTICAL ZOOM

#### 15. WBR

#### 16. WBF

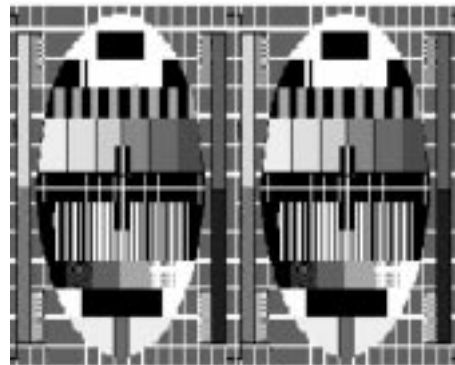
#### 17. PIP\_H (PIP H Position) Adjustment\* - option

In PAL Channel (E5 CH), when adjust PIP\_H position, it will automatic convert into Double Window Mode.

PIP H Position adjust stand-by picture state, use VOL+, - KEY to move H-Position or V-Position of sub-picture.

When PIP picture and main picture connect, press VOL+ KEY to adjust.

### 3.5 Deflection setting default



[Fig.5] PIP H Position Adjust Picture

#### - P A L

[Table 4] Deflection setting default based on different model (SERVICE 2)

Adjust Item	Adjust explanation	29"S-SLIM			29"FLAT			29" Normal	25" FLAT	Adjust or not
		TS	Sus	TS-AK	Invar	AK	IRICO	1.3R	AK	
V SLOPE	Vertical slope	16	14	15	12	17	10	24	15	Yes
V SHIFT	Vertical shift	42	46	46	41	38	39	15	51	Yes
V LINEAR	Vertical linearity	36	40	40	35	32	36	41	32	Yes
V AMPLIT	Vertical amplitude	26	35	30	29	32	48	15	37	Yes
H-SHIFT	Horizontal shift	30	26	26	29	24	30	30	28	Yes
EW WIDTH	EW width	38	25	36	22	17	32	30	19	Yes
EW PARAB	Parabola adj	50	44	45	35	30	35	36	28	Yes
EW TRAPE	Trapezoid adj	16	34	15	21	25	10	15	15	Yes
EW UPCOR	Lower corner adj	46	54	45	45	35	42	47	42	Yes
EW LOCOR	Lower corner adj	58	48	59	53	35	59	59	43	Yes
H BOW	Bow	34	32	36	33	32	32	33	35	Yes
H PARALL	Horizontal parallelogram	31	25	36	35	32	32	34	31	Yes
SCORRECT	S correction	38	38	32	30	30	30	32	40	Adjust if necessary
V SCROLL	Vertical shift	21	21	21	21	21	21	3	21	Adjust if necessary
V ZOOM	Vertical zoom	25	25	25	25	25	25	25	25	Adjust if necessary
WBR	Timing of Wide Blanking	2	2	7	2	2	2	2	5	Adjust if necessary
WBF	Timing of Wide Blanking	2	2	2	2	2	2	2	0	Adjust if necessary
V SYNLI	Vertical slicing level	0	0	0	0	0	0	0	0	Adjust if necessary
OVROLIN	Over voltage input mode	0	0	0	0	0	0	0	0	Adjust if necessary
V GUARD	Vertical guard mode	0	0	1	0	1	1	1	1	Adjust if necessary

**Warning: First adjust in PAL 50HZ, and then adjust in NTSC 60HZ, but it needs confirm adjustment state again in NTSC System. Adjust if necessary.**

### 3.6 SVC DEFAULT DATA (DATA below is supervised by EEPROM MASTER.)

#### -PAL

[Table 5] SERVICE 1

Adjust Item	Adjust explanation	29"S-SLIM			29"FLAT			29"N ormal	25" FLAT
		TS	Sus	TS-AK	Invar	AK	IRICO	1.3R	AK
AGC	AGC take over	25	25	25	25	25	25	25	25
RG	Red Gain	32	32	32	32	32	32	32	32
GG	Green Gain	32	32	32	32	32	32	32	32
BG	Blue Gain	32	32	32	32	32	32	32	32
BLO-R	Black level offset Red	32	32	32	32	32	32	32	32
BLO-G	Black level offset Green	32	32	32	32	32	32	32	32
CDL	Cathode Drive Level	5	11	8	5	5	5	8	5
L-DLY	Luminance delay time	13	13	13	13	13	13	13	13
RGB-BRI	OSD/TEXT BRIGHTNESS	25	25	20	25	25	25	25	25

[Table 6] SERVICE 3

Adjust Item	Adjust explanation	N-EU	EU	Remarks
OVMADAPT	OVER MODULATION	1	1	
OVMTHR	OVER MODULATION THRESHOLD	1	1	
ADC LEV	ADC LEVEL (-16 ~ 15) – ADCLEV	16	16	
DEC LEV	DEC LEVEL (-16 ~ 15) – DECLEV	17	17	FM pre-scaler (Stereo L/R)
MONO LEV	MONO LEVEL (-16 ~ 15) – MONOLEV	18	18	FM pre-scaler (Mono)
NICAMLEV	NICAM LEVEL (-16 ~ 15) – NICLEV	22	22	NICAM pre-scaler
FILTBW	FILTER BANDWIDTH	0	0	
BAMA FC	BASS MANAGEMENT FREQUENCY CHAR.	8	8	
AUX3 VOL	AUX3 VOL (SCART1 RF SOUND OUT)	84	89	Scart pre-scaler
FMWINDOW	FM WINDOW FILTER (FMWS)	1	1	
BOOSTVAL		0	0	
MAX VOL	MAX VOLUME	100	100	
DCXO VAL	DCXO	50	50	
DCXOA	DCXO	0	0	
TEXT-V	TEXT POSITION – VERTICAL	40	40	
TEXT-H	TEXT POSITION – HORIZONTAL	5	5	
DBB GAIN	Dynamic Bass Booster	8	8	For 29FU3 Tool
DBB FRQ	Dynamic Bass Booster Frequency	2	2	For DBB Model

[Table 7] SERVICE 4

Adjust Item	Adjust explanation	29"S-SLIM			29" Flat		29" Flat AK	
		TS	Sus	TS-AK	Invar	AK	1.3R	
WS	WHITE STRETCH	1	1	1	1	1	1	
BKS	BLACK STRETCH	1	1	1	1	1	1	
BSD	BLACK STRATCH DEPTH	0	0	0	0	0	0	
DSK	DYNAMIC SKIN CONTROL	1	1	1	1	1	1	
COR	VIDEO DEPENDENT CORING	2	2	2	2	2	2	
PF	PEAKING FREQUENCY DELAY	0	0	0	0	0	0	
RPO	RATION POSITIVE/NEGATIVE PEAK	3	3	3	3	3	3	
RPA	RATION PRE/AFTER SHOOT	2	2	2	2	2	2	
PWLDAC	PWLDAC PEAK WHITE LIMITER DAC	8	2	5	8	3	8	
IFOFF	IF DEMODULATOR	37	37	37	37	37	37	
CHSE	CHROMA SENSITIVITY	0	0	0	0	0	0	
ACL	AUTO COLOR LIMITING	1	1	1	1	1	1	
CLPDEL50	PAL CLAMPING DELAY	20	20	20	20	20	20	
CLPDEL60	NTSC CLAMPING DELAY	2	2	2	2	2	2	
CLPLEN	CLAMPING PULSE LENGTH	3	3	3	3	3	3	
CLMPID	CLAMPING DURATION	3	3	3	3	3	3	

[Table 8] OPTION 1,2,3,4,5

	ITEM	Description
OPTION1	INCH	0: 29" S/Slim, 1: 28" Flat, 2: 29" Flat, 3: 25" Flat
	SYSTEM	BG/DK/I/M, BG/DK/I/L
	200PR	W/O TXT=>100PR, W/TXT=>200PR
	TOP	0: FLOF, 1: TOP=>Germany, Swiss, Austria, Italy
	ACMS	0: OFF, 1:ON=> Auto channel memory system
	CH-AU	0: Other Area, 1: China & Australia Frequency table
	SCREEN	0: Other CPT, 1: TS-AK CPT
OPTION2	SOUND	0: RF stereo, 1:AV stereo, 2: Mono, 3: Mono Dual
	PIP	0: No PIP, 1: 1 Tuner PIP, 2: 2 Tuner PIP, 3: Reserved
	VOL CURVE(volume curve)	0: EU=>Low curve, 1: NON-EU=>High curve
	A2 STEREO	Nicam check & FM stereo / Dual
	I/II SAVE	0: OFF, 1:ON=>Dual sound setting save on
	AV3	0: W/O SIDE A/V, 1: W/ SIDE A/V
OPTION3	SCART	0: No SCART, 1: 1 SCART, 2: 2 SCART, 3: Reserved
	DVD	0: W/O DVD, 1: W/ DVD
	XWAVE	0: W/O XWAVE, 1: W/ XWAVE
	EYE	0: W/O EVE, 1: W/ EYE
	4KEY	0: 6 KEY, 1: 4 KEY
	TILT	0: W/O TILT, 1: W/ TILT
	DEGUASS	Degaussing option
OPTION4	OSD LANG	Refer to the next page(table.9)
	TXT LANG	Refer to the next page(table.9)
	USB (Southeast Asia)	0: W/O USB Model, 1: w/ USB Model
	CW62C	CW62C Only 1 => Vol Curve/S Mute timing/Component Compensation Value Change
OPTION5	REMOCON	Not available
	HOTEL	0: Normal, 1: HOTEL option
	TURBOSCH	0: EU(RZ)=> W/O Turbo search,
		1: NON-EU(RT)=>W/ Turbo search
	TURBOP/S	0: W/O Turbo picture & sound, 1: W/ Turbo picture & sound
	QUARRAN (Arabia)	0: W/O Quarran, 1: W/ Quarran
	COUNTRY ( EU)	0: NON MA Menu, 1: MA Menu
	LGEINVOL(Southeast Asia)	0: Others, 1: LGEIN Volume
	BLUEBACK (EU/ Southeast Asia)	0: Blue back off, 1: Blue back on
	TEXT	0: W/O TEXT, 1: W/ TEXT
	TS-AK	0: NON-TS-AK CPT, 1: TS/AK CPT

■ OPTION DATA in BOM ,for example:

LEVEL	PART NO.	SPECIFICATION	DESCRIPTION
1.	3141VMN382A	MAIN CHASSIS ASSY	[112,68,164,32,8]

<Table 9> OSD & TEXT LANGUAGES

0	Southeast Asia TEXT	0	ENGLISH		
		1	SOUTHEAST ASIA	0	ENGLISH
				1	INDONESIAN
				2	MALAY
				3	VIETNAMESE
				4	THAI
		2	RESERVED		
		3	RESERVED		
		4	RESERVED		
		5	RESERVED		
		6	RESERVED		
		7	RESERVED		
1	EAST EU CYRILLIC TEXT	0	ENGLISH		
		1	EAST EU ALL	0	ENGLISH
				1	GERMAN
				2	RUMANIAN
				3	POLISH
				4	HUNGARIAN
				5	CZECH
				6	RUSSIAN
				7	BULGARIAN
		2	ENGLISH RUSSIAN	0	ENGLISH
				1	RUSSIAN
		3	RESERVED		
		4	RESERVED		
		5	RESERVED		
		6	RESERVED		
		7	RESERVED		
2	WEST EU GREEK TEXT	0	ENGLISH		
		1	EU 7EA	0	ENGLISH
				1	GERMAN
				2	FRENCH
				3	ITALIAN
				4	SPANISH
				5	NETHERLANDISH
				6	PORTUGUESE
		2	WEST EU ALL	0	ENGLISH
				1	GERMAN
				2	FRENCH
				3	ITALIAN
				4	SPANISH
				5	NETHERLANDISH
				6	SWEDISH
				7	NORWEGIAN
				8	DANISH
				9	FINNISH
				10	PORTUGUESE
				11	GREEK
		3	ENGLISH GREEK	0	ENGLISH
				1	GREEK
		4	RESERVED		
		5	RESERVED		
		6	RESERVED		
		7	RESERVED		

3	ARAB TEXT	0	ENGLISH		
		1	ARABIC	0	ENGLISH
				1	FRENCH
				2	ARAB
				3	URDU
		2	FARSI	0	ENGLISH
				1	FRENCH
				2	ARAB
				3	PARSI
		3	ARAB ALL	0	ENGLISH
				1	FRENCH
				2	ARAB
				3	URDU
				4	PARSI
		4	RESERVED		
		5	RESERVED		
		6	RESERVED		
		7	RESERVED		
4	FARSI TEXT		Same as ARAB TEXT		
5	Southeast Asia W/O TEXT		Same as Southeast Asia TEXT		
6	WEST EU W/O TEXT		Same as WESTEU GREEK TEXT		
7	EAST EU W/O TEXT		Same as EASTEU CYRILLIC TEXT		
8	ARAB W/O TEXT		Same as ARAB TEXT		
9	CHINA, INDIA W/O TEXT	0	ENGLISH	0	ENGLISH
		1	CHINA	1	CHINESE
				0	ENGLISH
		2	HINDI	1	HINDI
		3	RESERVED		
		4	RESERVED		
		5	RESERVED		
		6	RESERVED		
		7	RESERVED		
10	Korea/Middle south America				
11	Taiwan				

### 3.7 FM TX MODEL \* (option)

FM TRANSMITTER MODEL send/receive state checking method (FM Receiver Model)

FM TRANSMITTER Performance checking process after antenna lay out.

FM TRNASMITTER Function: send TV sound (MONITOR Output) to FM by receiver in MIC BOARD, and achieve sound signal by special remocon and ear-phone.

Remarks: Even if don't use special remocon, ordinate FM receiver equipment can receive sound signal with receive frequency of OSD setting. .

- ① Check in LG 5, 25 channel or channel with sound output.
- ② Choose receive frequency of MENU OSD.
- ③ MENU => SOUND => TRANSMITTER => Frequency (87.7MHz)
- ④ Receive by special remocon or other FM receiver, and the frequency is 87.7MHz.
- ⑤ Check output sound signal of MAIN SPEAKER in ear-phone or other receive equipment.

## 4. Shipping condition.

### 4.1. Shipping Mode

Do push IN-STOP KEY using by R/C and it, will be done shipping mode. 4.2. Shipping condition

### 4.2. Shipping condition

[Table 10]

No.	ITEM	Shipping condition	Remarks
1	Power	OFF	
2	Input	TV	
3	MEMORY CHANNEL	CH. MEMORY refer to manage benchmark	
4	SOUND	30 STEPS	
5	MUTE	OFF	
6	PSM	DYNAMIC	
7	XD	ON	
8	SSM	FLAT	only 29FU3 Tool is Music
9	TORBO SOUND	OFF	only 29FU3 Tool is ON
10	AVL	OFF	
11	BALANCE	0	
12	ON/OFF TIME	OFF	
13	AUTO SLEEP	OFF	
14	CHILD LOCK	OFF	
15	DEGAUSS	OFF	
16	EYE	OFF	OPTION
17	TILT	0	OPTION
18	BLUE BACK	OFF	OPTION
19	BOOSTER	OFF	OPTION

#### 4.2.1 PSM MODE Default Setting (PAL)

Picture Mode Default Setting

[Table 11]Picture Mode Default Setting

PSM	Dynamic	Standard	Mild	Game
CONTRAST	100	90	60	50
BRIGHT	60	55	55	55
COLOR	60	55	55	60
SHARPNESS	60	60	50	50

### 5. OPTION Adjustment (PAL)

- 1) OPTION adjustment decide Model Function, press IN-START KEY of remocon and enter adjustment mode. Then choose OPTION 1, 2, 3, 4, 5 to adjust separately.
- 2) OPTION1 scope (0~255), OPTION2 scope (0~255), OPTION3 scope (0~250), OPTION4 scope (0~337), OPTION5 scope (0~252). Using Vol. +, - and CH +, - KEY directly input. (OPTION data automatic setting)
- 3) OPTION data in BOM (Chassis Assy SPECIFICATION) show: such as [111,111,111.111,111]

### 6. SOUND PRE-SCALER

This SVC setting value is set since Model design for standard, so adjustment should not be done at manufacture process. This adjustment specification shows for only reference.

※Audio Out Level SPEC

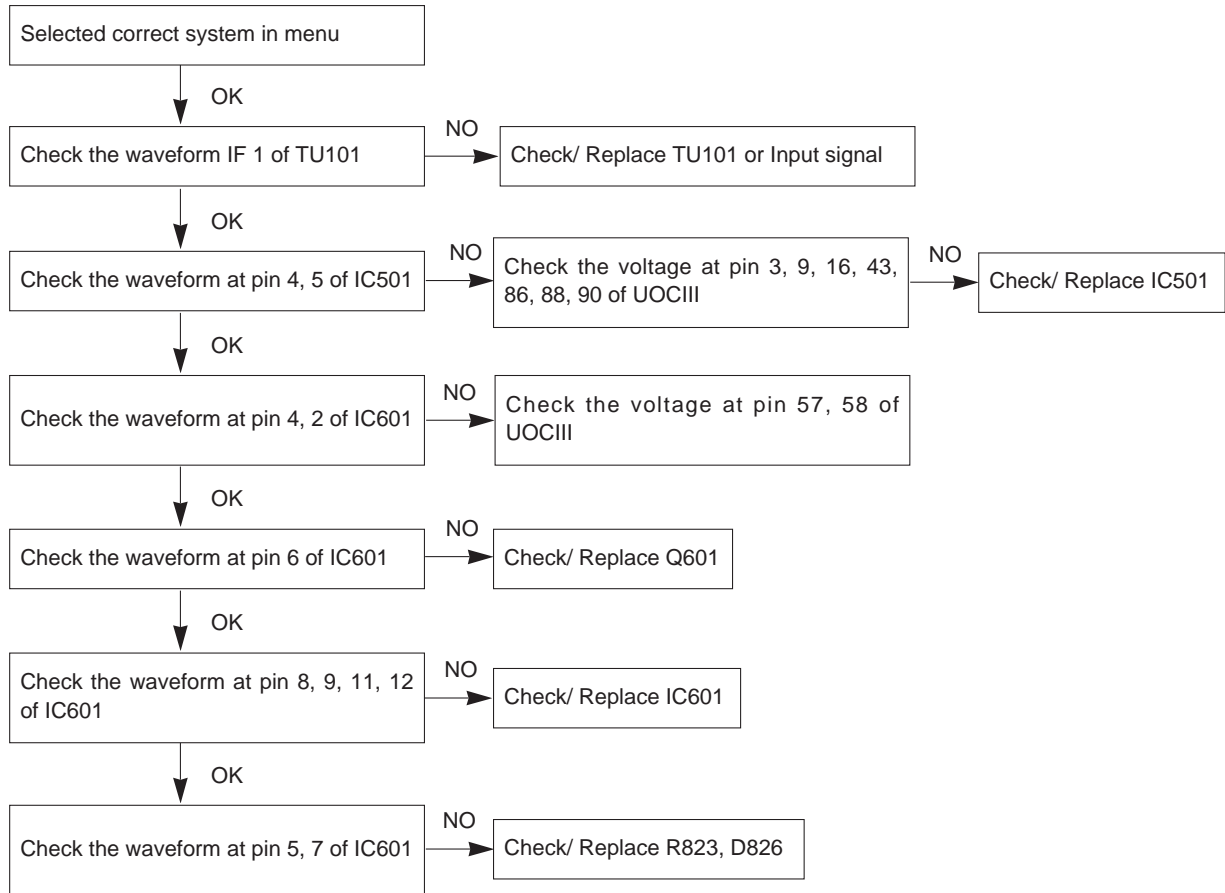
■PAL B/G, D/K, I : 500mVrms at 54 % modulation ratio.

■SECAM B/G, D/K, L/L' : 500mVrms at 54 % modulation ratio.

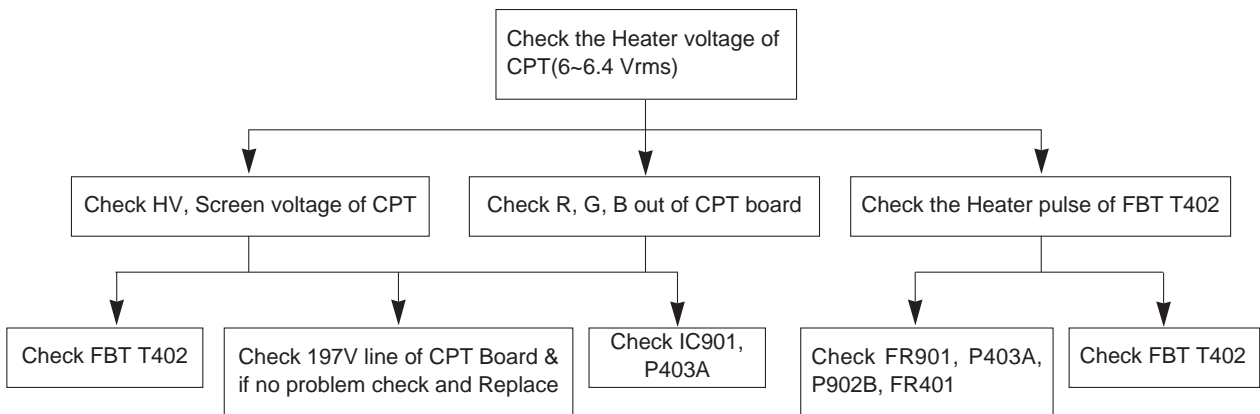
# TROUBLE SHOOTING

## 1. RF-STEREO MODEL

### 1) PICTURE OK / NO SOUND

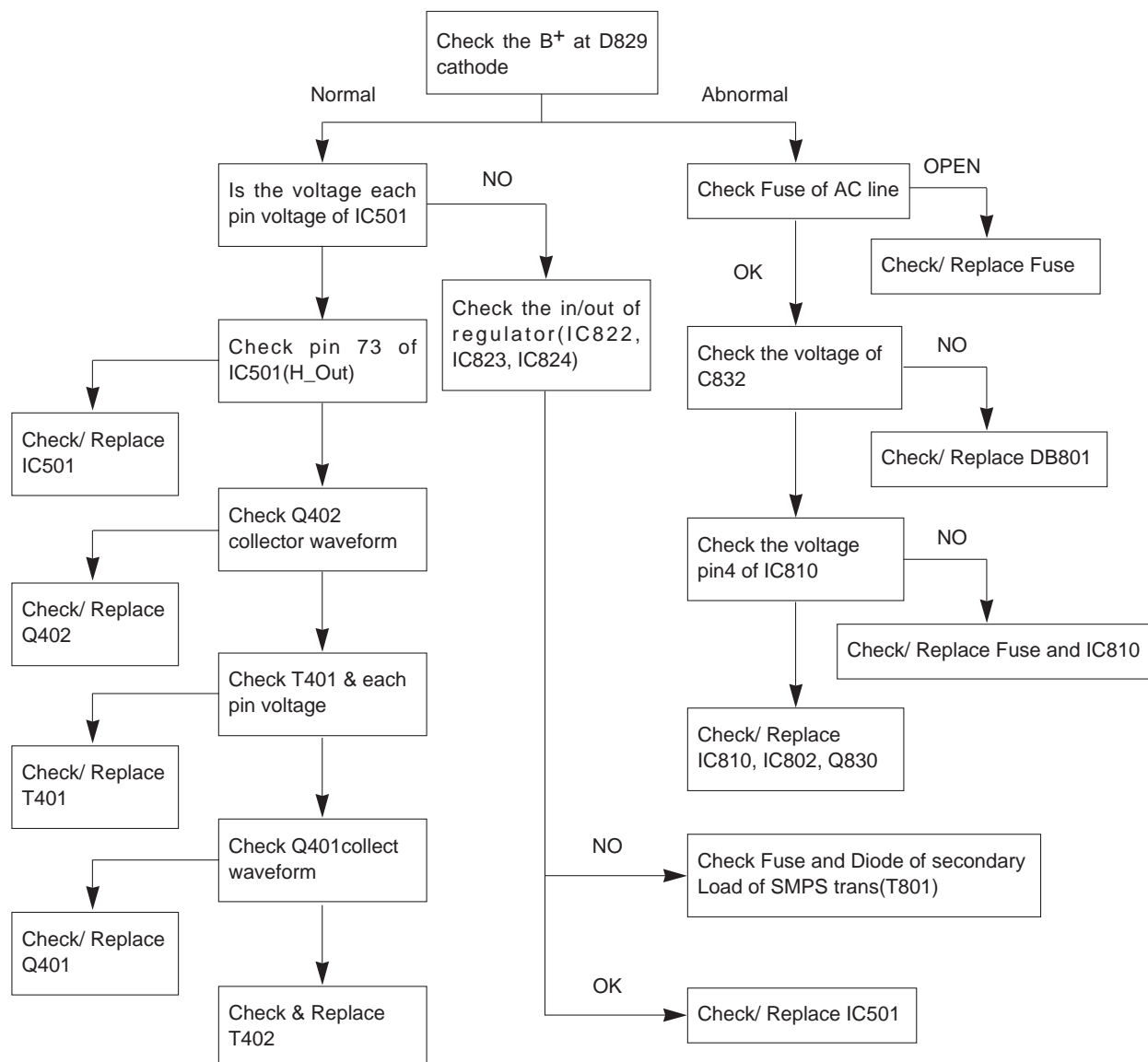


### 2) No Raster / Sound OK(1/2)

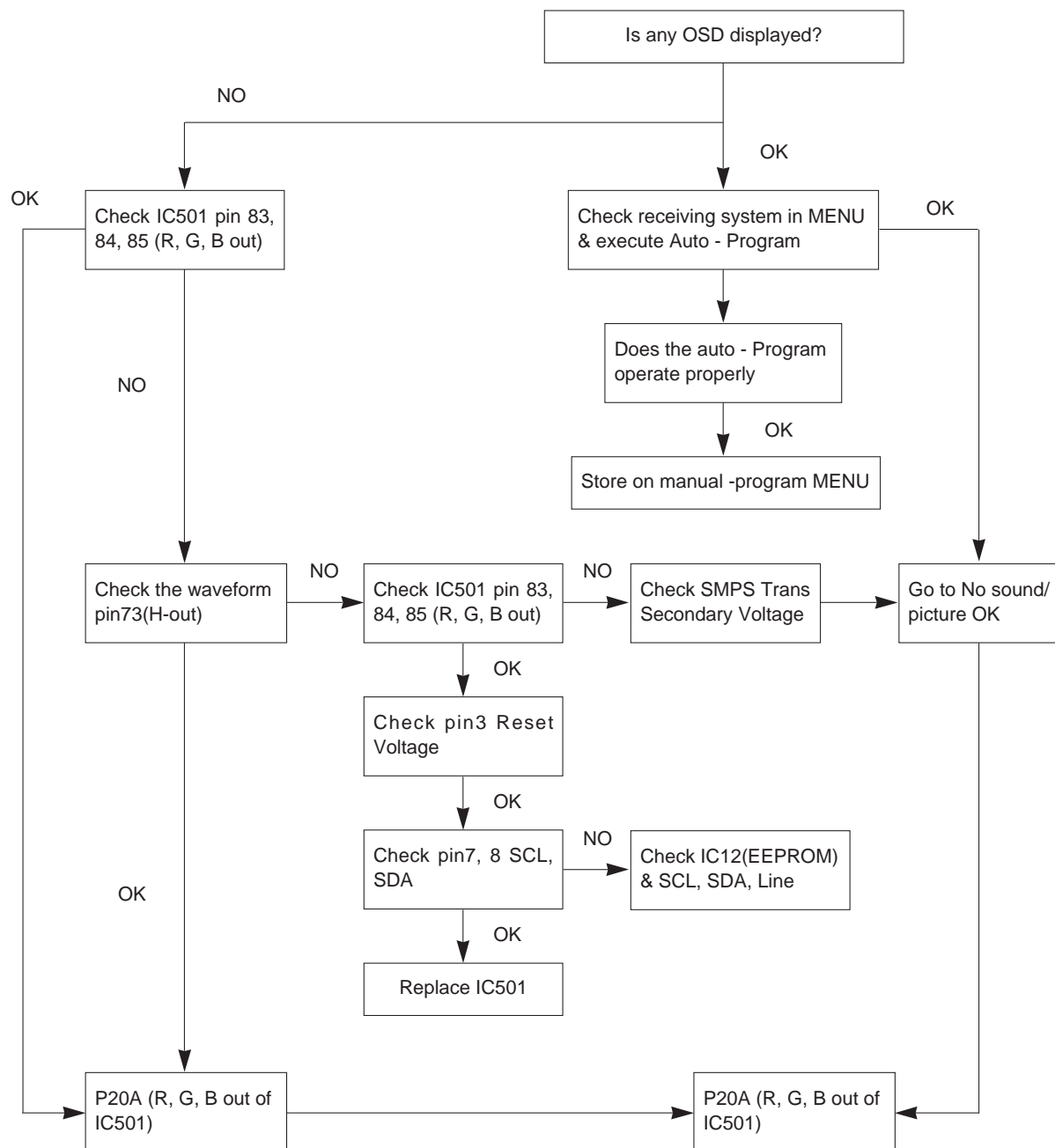




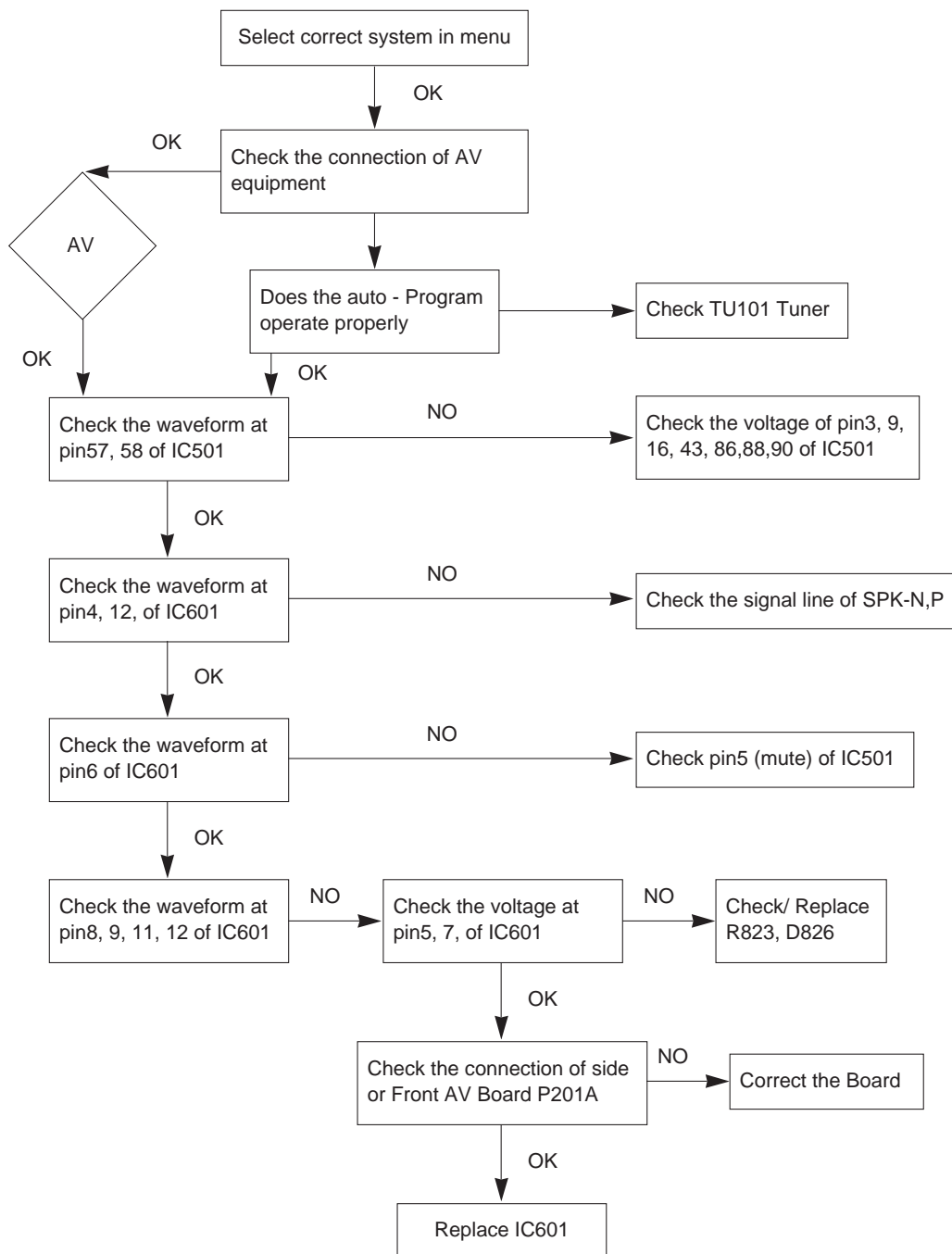
### 3) No Raster (2/2)



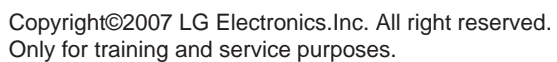
#### 4) No Picture/ No Sound



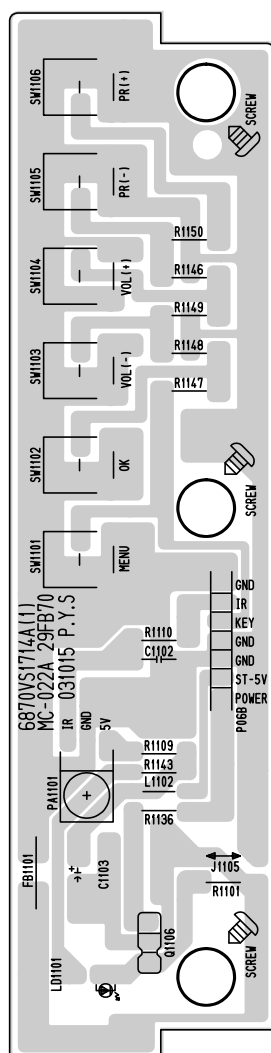
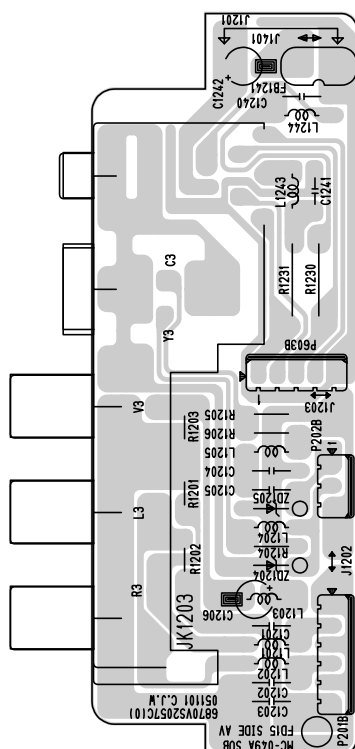
## 2. AV STEREO/ MONO MODEL



## MAIN



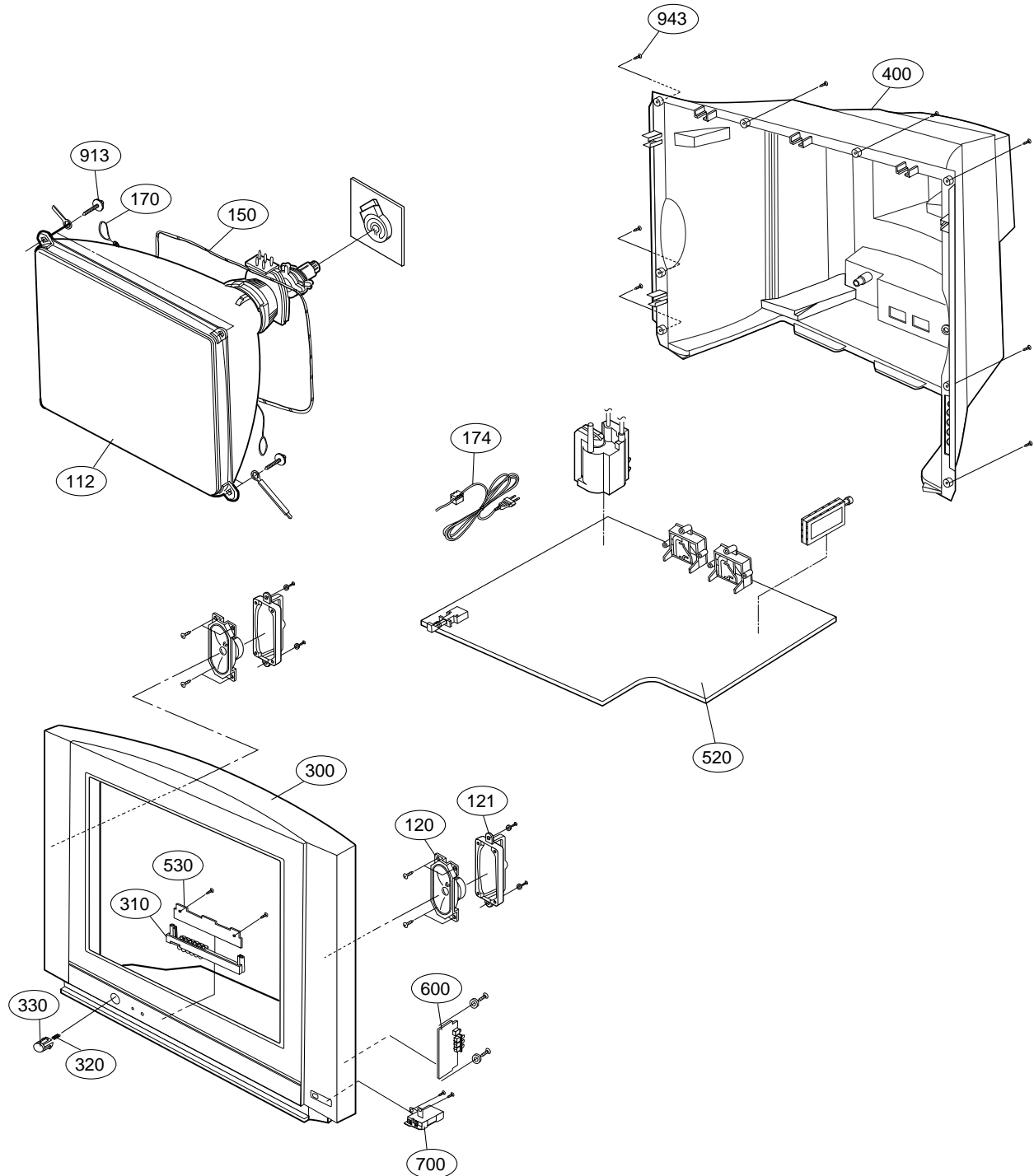
## CONTROL






## MEMO





## EXPLODED VIEW





## EXPLODED VIEW PARTS LIST

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

LOCA. No.	PART No.	DESCRIPTIONS
 112	EAK38980703	CPT,ITC A59QDC820X 52 M 25INCH FLAT +0.3G 4
120	EAB30827501	Speaker,Full Range F 7 FERRITE 10W 8OHM 84DB 130HZ 12
121	4810V00088B	Bracket MOLD PP SPEAKER CE-29K30 NON PP
 150	6140VC2007G	Coil,Degaussing CT-25H30R 15OHM AL 50T 0.6mM SQUARE
 170	170-844G	Drawing,Assembly CPT EARTH UL1015 AWG22 26INCH NAMS
 174	6410VEH001E	Power Cord 6410VEH001E YP-204 ZH.B 2.41M 300MM
300	3091V00625M	Cover Assembly 25FB7 CW62A 25"" SY LOCAL"
310	5020V00896F	Button MOLD ABS CONTROL 21/25/29FB75 ABS,"
320	320-062E	Spring CUTTING STSC304 COIL STEEL - - NONE
330	5020V01078B	Button MOLD ABS POWER RT-21FD10 ABS 1KEY 1
400	3809V00429Q	Cover Assembly 25FB7RL-TG CW62A 25"" SY-VN CKD 2-PH"
520	EBR35497711	Hand Insert PCB Assembly MAIN1 M.I CW62C 25FB7RLE-T1 NFUQLEE
530	EBR35519401	PCB Assembly,Sub SUB M.I CW62A 25FB7 TOOL CONTROL SY
600	EBR35519001	PCB Assembly,Sub SUB M.I CW62A 25FB7 TOOL SIDE AV SY
700	6500VR0003B	Sensor,Ambient Light YGCA-T070A 9V SIP ST 3P LG INNOTEK.,LTD"
913	FAB30021505	Screw Assembly FAB30021505 TAPTITE P TYPE D7.0 L40
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
<b>IC</b>		
IC12	0IAL241610B	AT24C16A-10PU-2.7 16KBIT 2KX8BIT 2.
IC301	0IPRP00741A	STV9326 10TO30V 50mA 50to60Hz HEPTA
IC302	0ISTL00068A	LF353N +-18V 5TO10mV - 500MW 500MW
IC601	EAN36113503	LA42102NHK-E 22V 0 10% 15W 25W 40dB
IC802	0IPRPKD003A	PC17L1(5V/35V 4P) 5V 35V 35V 50MA 1
IC810	EAN36799301	STR-W6556A 16.2V-19.4V 9V-11V SWITC
IC823	0IMCRAU004A	S1117-33PIC 4.8TO12V 3.3V 2W TO220
IC824	0IMCRKE020A	KIA78S06P 8.1TO21V 6V 600MW TO92 ST
IC826	EAN39831601	KIA78R05PI-U/P 6TO12V 5V 1.5W TO-22
IC901	0IPRP00747A	TDA6107AJF 180TO210V 6mA 5.5M SIP S
Q830	EAN33533101	KIA431A-AT/PF 2.47TO2.52V 36V 770MW
SW	SAA30039820	3.39 4BCA MIDDLE EAST AND AFRICA FL
<b>TRANSISTOR</b>		
Q105	0TR102009AB	KRC102M(KRC1202) NPN 30V 10V 50V 10
Q1106	0TR733009AA	KSA733C-Y PNP -5V -60V -50V -0.15A
Q201	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50
Q202	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150
Q301	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50
Q401	0TRSA10005A	2SC6090LS NPN 5V 1.5KV 700V 10A 10U
Q402	EBK37065201	2SC3902S NPN 6V 180V 160V 1.5A 2.5A
Q502	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50
Q503	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150
Q504	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150
Q505	0TR127009AA	KTA1270-Y(KTA562TM) PNP -5V -35V -3
Q506	0TR127009AA	KTA1270-Y(KTA562TM) PNP -5V -35V -3
Q601	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50
Q803	0TR102009AB	KRC102M(KRC1202) NPN 30V 10V 50V 10
Q804	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150
Q809	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150
Q810	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150
Q811	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150
Q840	0TR421009CA	BF421(Philips) PNP -5V -0.3KV -0.3K
<b>DIODE</b>		
D101	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC 50
D102	0DSVH00019A	BA282 1V 35V 100MA 350A 1SEC 350W D
D11	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC 50
D301	0DRDC00014C	1N4005GP 600V 1.1V 5UA 30A 0SEC DO4
D302	0DRDC00014A	TVR06J 600V 1.3V 10UA 25A 150NSEC D
D401	EAH30754301	RU4DS 1.8V 1.3KV 1.5A 50A 400NSEC 0
D402	0DRDC00014G	RU4AM 600V 1.3V 10UA 70A 100NSEC DO
D403	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC 50
D404	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC 50
D405	0DRDC00014D	RGP15J 600V 1.3V 5UA 50A 250NSEC DO
D406	0DRDC00014D	RGP15J 600V 1.3V 5UA 50A 250NSEC DO
D407	0DRDC00014A	TVR06J 600V 1.3V 10UA 25A 150NSEC D

LOCA. NO	PART NO	DESCRIPTION
D414	0DRDC00014D	RGP15J 600V 1.3V 5UA 50A 250NSEC DO
D601	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC 50
D602	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC 50
D603	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC 50
D604	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC 50
D606	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC 50
D815	0DS141489AB	1N4148 1V 100V 150MA 500MA 4NSEC 50
D818	0DRDC00014A	TVR06J 600V 1.3V 10UA 25A 150NSEC D
D820	0DRDC00014A	TVR06J 600V 1.3V 10UA 25A 150NSEC D
D823	EAH30560501	SFAF504G 200V 975MV 10UA 125A 35NSE
D826	EAH30560501	SFAF504G 200V 975MV 10UA 125A 35NSE
D828	0DRDC00014A	TVR06J 600V 1.3V 10UA 25A 150NSEC D
D829	0DRDC00014G	RU4AM 600V 1.3V 10UA 70A 100NSEC DO
D845	0DZ150009BG	GDZJ15B 15V 13.89TO14.62V 40OHM 500
D846	0DRDC00014Q	EU1ZS 200V 2.5V 10UA 15A 120NSEC DO
D847	0DRDC00014A	TVR06J 600V 1.3V 10UA 25A 150NSEC D
D901	0DRDC00014A	TVR06J 600V 1.3V 10UA 25A 150NSEC D
D902	0DRDC00014A	TVR06J 600V 1.3V 10UA 25A 150NSEC D
D903	0DRDC00014A	TVR06J 600V 1.3V 10UA 25A 150NSEC D
D904	0DRDC00014E	1N4004A 400V 1.1V 5UA 30A - DO41 TP
DB801	0DRTW00131C	TS6P05G 600V 1V 5UA 150A TS6P ST 4P
ZD10	0DZ910009BD	GDZJ9.1B . 9.1V 8.57TO9.01V 25OHM 5
ZD101	0DZ330009DG	GDZJ33B 33V 30.32TO31.88V 65OHM 500
ZD301	0DZ120009BG	GDZJ12B 12V 11.44TO12.03V 30OHM 500
ZD302	0DZ120009BG	GDZJ12B 12V 11.44TO12.03V 30OHM 500
ZD401	0DZ510009BF	GDZ5.1B 5.1V 4.94TO5.2V 20OHM 500MW
ZD402	0DZ120009BG	GDZJ12B 12V 11.44TO12.03V 30OHM 500
ZD501	0DZ510009AK	GDZJ5.1B 5.1V 4.94TO5.2V 80OHM 500M
ZD502	0DZ820009BF	GDZJ8.2B 8.2V 7.78TO8.19V 20OHM 500
ZD827	0DZ820009BF	GDZJ8.2B 8.2V 7.78TO8.19V 20OHM 500
ZD910	0DZ510009BF	GDZ5.1B 5.1V 4.94TO5.2V 20OHM 500MW
ZD911	0DZ510009BF	GDZ5.1B 5.1V 4.94TO5.2V 20OHM 500MW
ZD912	0DZ510009BF	GDZ5.1B 5.1V 4.94TO5.2V 20OHM 500MW
<b>CAPACITOR</b>		
C103	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50
C107	0CE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 25
C108	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50
C109	0CE226CK638	SHL5.0TP50VB22M 22uF 20% 50V 106MA
C1103	0CE4763F618	ESF476M016T1A5E05G 47uF 20% 16V 60M
C112	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C113	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C1201	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5
C1202	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5
C15	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5
C17	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C201	0CE226DF618	EGR226M016T1G1C11G 22uF 20% 16V 75M
C202	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5
C203	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5

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
C204	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5
C205	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5
C206	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5
C207	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5
C208	0CE226DF618	EGR226M016T1G1C11G 22uF 20% 16V 75M
C209	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5
C21	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157M
C210	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5
C212	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5
C213	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5
C214	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5
C215	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5
C303	181-091D	DEHR33A102KN2A 1nF 10% 1000V Y5R -2
C304	0CE107CK638	SHL5.0TP50VB100M 100uF 20% 50V 306M
C307	0CQ1041N509	PEI104K2AT 0.1uF 10% 100V PE -40TO+
C310	0CQ2221N509	PEI222K2AT 2.2nF 10% 100V PE -40TO+
C311	0CN1020K519	RH UP050 B102K-B-B 1nF 10% 50V Y5P
C312	0CN1020K519	RH UP050 B102K-B-B 1nF 10% 50V Y5P
C313	0CQ5621N509	PEI562K2AT 5.6nF 10% 100V PE -40TO+
C314	0CE475DP618	EGR475M160T6G1E11G 4.7uF 20% 160V 5
C402	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50
C403	0CK1520W515	DCM152K30Y5PL6FJ5A 1.5nF 10% 500V Y
C404	0CE106DF618	SMS5.0TP16VB10M 10uF 20% 16V 72MA
C405	181-091Y	LYRM28681KXA 680pF 10% 2000V Y5R -2
C406	EAE36760216	113D203J3020FG 0.02uF 5% 2KV MPP -2
C407	EAE36760220	112J223J1007FG 0.022uF 5% 630V MPP
C408	181-091Y	LYRM28681KXA 680pF 10% 2000V Y5R -2
C411	0CE105BR618	ESM105M250T1G5E11G 1uF 20% 250V 15M
C412	EAE36760215	112G534J8020FG 0.53uF 5% 400V MPP -
C413	181-091R	LYRM7102KHA 1n 10% 1000V Y5R -25TO+
C414	0CK2710W515	DCM271K20Y5PL6FJ5A 270pF 10% 500V Y
C415	0CE108BH618	ESM108M025T1G5K20G 1000uF 20% 25V 7
C416	181-009R	PPN223K2DH 22nF 10% 200V PP -40TO+8
C417	0CK2710W515	DCM271K20Y5PL6FJ5A 270pF 10% 500V Y
C419	0CE108DH618	SMS5.0TP25VB100M 1000uF 20% 25V 1.
C420	181-010T	PPN153J2JH 15nF 5% 630V PP -40TO+85
C421	0CK2710W515	DCM271K20Y5PL6FJ5A 270pF 10% 500V Y
C422	0CE475DR618	EGR475M250T1G1G11G 4.7uF 20% 250V 7
C444	EAE36760236	112G624J7020FG 0.62uF 5% 400V MPP -
C501	0CF2241L438	PCMT 365 76224 0.22uF 5% 63V MPE -4
C502	0CE225CK638	SHL5.0TP50VB2.2M 2.2uF 20% 50V 34MA
C503	0CQ6821N509	PEI682K2AT 6.8nF 10% 100V PE -40TO+
C504	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157M
C505	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C506	0CQ1031N509	PEI103K2AT 0.01uF 10% 100V PE -40TO
C509	0CE106DF618	SMS5.0TP16VB10M 10uF 20% 16V 72MA
C510	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C512	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C513	0CE337DD618	SMS5.0TP10VB330M 330uF 20% 10V 386M
C516	0CE226DD618	EGR226M010T1G1C11G 22uF 20% 10V 75M
C519	181-007F	ECQ-V1H224JL3(TR) 220nF 5% 50V MPE
C520	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50

LOCA. NO	PART NO	DESCRIPTION
C530	0CN2220F569	RH EP050 X222K-B-B 2.2nF 10% 16V X7
C531	0CN2231K949	CHUP025F223Z-B-B 0.022uF -20TO+80%
C532	0CQ4742K439	MPEM474J1HT7PAT 0.47uF -5 to +5% 50
C533	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C535	0CQ4742K439	MPEM474J1HT7PAT 0.47uF -5 to +5% 50
C536	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C538	0CQ4742K439	MPEM474J1HT7PAT 0.47uF -5 to +5% 50
C540	0CQ4742K439	MPEM474J1HT7PAT 0.47uF -5 to +5% 50
C542	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C544	0CQ4742K439	MPEM474J1HT7PAT 0.47uF -5 to +5% 50
C546	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C547	0CQ4742K439	MPEM474J1HT7PAT 0.47uF -5 to +5% 50
C548	0CN2220F569	RH EP050 X222K-B-B 2.2nF 10% 16V X7
C551	0CE226DD618	EGR226M010T1G1C11G 22uF 20% 10V 75M
C553	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C554	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157M
C556	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C557	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C558	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C559	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C561	0CQ3931N509	PEI393K2AT 39nF 10% 100V PE -40TO+8
C562	0CQ3931N509	PEI393K2AT 39nF 10% 100V PE -40TO+8
C563	0CN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5
C564	0CE106DK618	SMS5.0TP50VB10M 10uF 20% 50V 72MA -
C569	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C570	0CE107DF618	EGR107M016T1G1C11G 100uF 20% 16V 16
C571	0CE336DD618	EGR336M010T1G1C11G 33uF 20% 10V 85M
C572	0CN4710K519	RH UP050 B471K-B-B 470pF 10% 50V Y5
C573	0CX1000K409	RH UP050SL100J-B-B 10pF 5% 50V S2L
C574	0CX1000K409	RH UP050SL100J-B-B 10pF 5% 50V S2L
C575	0CX1000K409	RH UP050SL100J-B-B 10pF 5% 50V S2L
C576	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C577	0CE106DF618	SMS5.0TP16VB10M 10uF 20% 16V 72MA
C578	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C579	0CE106DF618	SMS5.0TP16VB10M 10uF 20% 16V 72MA
C580	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C581	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157M
C584	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C585	0CE225CK638	SHL5.0TP50VB2.2M 2.2uF 20% 50V 34MA
C586	0CE225CK638	SHL5.0TP50VB2.2M 2.2uF 20% 50V 34MA
C587	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C590	0CE225CK638	SHL5.0TP50VB2.2M 2.2uF 20% 50V 34MA
C591	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C592	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157M
C594	0CQ1031N509	PEI103K2AT 0.01uF 10% 100V PE -40TO
C595	181-301C	NPP100V154J10F 150nF 5% 100V PP -40
C596	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C597	0CE106DF618	SMS5.0TP16VB10M 10uF 20% 16V 72MA
C599	0CN2231K949	CHUP025F223Z-B-B 0.022uF -20TO+80%
C602	0CE477DH618	EGR477M025T1G1H15G 470uF 20% 25V 64
C603	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50
C604	0CQ3321N509	PEI332KA2T 3.3nF 10% 100V PE -40TO+

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	CE : Electrolytic	RN : Metal Film
		RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
C605	0CE476DF618	SMS5.0TP16VB47M 47uF 20% 16V 0A -40
C607	0CE476DH618	SMS5.0TP25VB47M 47u 20% 25V 131MA -
C608	0CE106DF618	SMS5. 0TP16VB10M 10uF 20% 16V 72MA
C609	0CQ3321N509	PEI332KA2T 3.3nF 10% 100V PE -40TO+
C610	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50
C611	0CE476DH618	SMS5.0TP25VB47M 47u 20% 25V 131MA -
C616	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C617	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C618	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C619	0CN1041K949	CHUP025F104Z-B-B 0.1uF -20TO+80% 50
C807	181-091Q	LYRM5471KHA 470pF 10% 1000V Y5R -25
C808	0CE477BH618	ESM477M025T1G5H15G 470uF 20% 25V 51
C809	0CE228BF618	ESM228M016T1G5K25G 2200uF 20% 16V 9
C811	0CE335CK636	ERN335M050T1G5C11G 3.3uF 20% 50V 30
C812	181-091Q	LYRM5471KHA 470pF 10% 1000V Y5R -25
C813	0CE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105
C814	181-091W	LYRM27471KX1A 470pF 10% 2000V Y5R -
C816	0CE227DP61A	EGR227M160T1G1M32G 220uF 20% 160V 8
C818	0CQ2231N509	PEI223K2AT 0.022u 10% 100V PE -40TO
C821	181-091Q	LYRM5471KHA 470pF 10% 1000V Y5R -25
C822	0CE108DD618	SMS5.0TP10VB1000M 1000uF 20% 10V 85
C823	181-120N	SDE102M09FS1 1nF 20% 4000V Y5U -25T
C826	0CE108DD618	SMS5.0TP10VB1000M 1000uF 20% 10V 85
C827	0CQZVBK002D	PCX2 335 91593 0.47uF 10% 275V MPP
C829	0CE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105
C830	0CE228DH61A	EGR228M025T1G1L25G 2200uF 20% 25V 1
C833	0CK10201515	DCH102K34Y5PN6FJ5A 1nF 10% 1000V Y5
C834	0CK10201515	DCH102K34Y5PN6FJ5A 1nF 10% 1000V Y5
C835	0CQZVBK002A	PCX2 335 M9729 0.1uF 20% 275V MPP -
C836	0CK4710W515	DCM471K20Y5PL6FJ5A 470pF 10% 500V Y
C837	0CE337KV6A0	LTW337M450S1A5S45G 330uF 20% 450V 1
C838	0CE227DK618	SMS5.0TP50VB220M 220uF 20% 50V 586M
C839	0CE106DH618	SMS5.0TP25VB10M 10uF 20% 25V 72MA -
C840	0CE226BK618	ESM226M050T1G5C11G 22uF 20% 50V 85M
C841	181-011B	MPPS102J3VD 1nF 5% 1.6KV MPP -40TO+
C842	0CQ3321N509	PEI332KA2T 3.3nF 10% 100V PE -40TO+
C843	181-007C	ECQV1H104JL3 100nF 5% 50V MPE -40TO
C844	0CQ1031N509	PEI103K2AT 0.01uF 10% 100V PE -40TO
C846	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157M
C848	0CE107CQ650	SHL5.0MC200VB100M 100uF 20% 200V 60
C849	0CE477DD618	EGR477M010T6G1G11G 470uF 20% 10V 42
C853	0CE105BR618	ESM105M250T1G5E11G 1uF 20% 250V 15M
C858	181-091X	LYRM27561KXA 560pF 10% 2000V Y5R -2
C861	181-120N	SDE102M09FS1 1nF 20% 4000V Y5U -25T
C901	0CE475DR618	EGR475M250T1G1G11G 4.7uF 20% 250V 7
C903	181-033S	DCH122K39Y5PP7VK7A 1.2nF 10% 2000V
C904	0CE475DR618	EGR475M250T1G1G11G 4.7uF 20% 250V 7
C908	0CH3104P56C	C4532X7R2J104KT 100nF 10% 630V X7R
C910	0CN5610K519	RH UP050 B561K-B-B 560pF 10% 50V Y5
<b>COIL &amp; INDUCTOR</b>		
J549	0LA0121K119	Inductor,Wire Wound,Axial LAL02TB1R2K

LOCA. NO	PART NO	DESCRIPTION
L102	0LA0102K139	Inductor,Wire Wound,Axial LAL04TB100K 10UH
L1102	0LA0102K119	Inductor,Wire Wound,Axial LAL02TB100K 10UH
L214	0LA0102K119	Inductor,Wire Wound,Axial LAL02TB100K 10UH
L216	0LA0102K119	Inductor,Wire Wound,Axial LAL02TB100K 10UH
L401	EAP41986301	Coil,Choke LGB-S1420-602K 6mH 50V 700MA
L402	6140VE0001J	Coil,Linearity CN29F1 20uH 50V 0A 18X41MM
L431	150-717K	Coil,Choke RN-29FA11 1.1uH 50V 0A
L501	0LA0121K119	Inductor,Wire Wound,Axial LAL02TB1R2K
L503	0LA0121K119	Inductor,Wire Wound,Axial LAL02TB1R2K
L504	0LA0121K119	Inductor,Wire Wound,Axial LAL02TB1R2K
L505	0LA0121K119	Inductor,Wire Wound,Axial LAL02TB1R2K
L506	0LA0121K119	Inductor,Wire Wound,Axial LAL02TB1R2K
L507	0LA0121K119	Inductor,Wire Wound,Axial LAL02TB1R2K
L509	0LA0102K119	Inductor,Wire Wound,Axial LAL02TB100K 10UH
L511	0LA0121K119	Inductor,Wire Wound,Axial LAL02TB1R2K
L514	0LA0121K119	Inductor,Wire Wound,Axial LAL02TB1R2K
L548	0LA0121K119	Inductor,Wire Wound,Axial LAL02TB1R2K
L801	150-C02E	Coil,Choke 150-C02E 50uH 50V 0A 12X17MM
R226	0LA0102K119	Inductor,Wire Wound,Axial LAL02TB100K 10UH
R227	0LA0102K119	Inductor,Wire Wound,Axial LAL02TB100K 10UH
<b>CONNECTOR</b>		
LOCAL	6631V25034E	TJC25-4Y TJC25-4Y 35097-9702_35098-
	387-907J	EAD00967601 MXH8610 BH10009 500mM 4
	170-853F	170-853F AE-9306 AE-9306 140mM NONE
	387-G03K	TJC25-3Y TJC25-3Y 600mM 2.50MM 3P U
	6631V25014D	GIL-G GIL-G-03 35097-9702_35098-970
	P06B	7p(2.5) GIL-G-07 GIL-J-07 300mM 2.5
	P101	GIL-G-03P-S3T2-E 3P 2.54MM 1R STRAI
	P103	366-009D 1P PIN HEADER STRAIGHT DIP
	P10A	GIL-G-03P-S3T2-E 3P 2.54MM 1R STRAI
	P14A	GIL-G-07P-S3T2-E 7P 2.50MM 1R STRAI
	P201A	GIL-G-06P-S3T2-E(TYPOE) 6P 2.50MM 1
	P201B	EAD00975201 GIL-G-06 GIL-J-06 500mM
	P401	35929-0410 4P 10.00MM 1R STRAIGHT D
	P602	GIL-G-04P-S3T2-E(2.54mm) 4P 2.54MM
	P603	GIL-G-03P-S3T2-E 3P 2.54MM 1R STRAI
	P801	35929-0210 2P 10.00MM 1R STRAIGHT D
	P802	35929-0210 2P 10.00MM 1R STRAIGHT D
	P901	366-009D 1P PIN HEADER STRAIGHT DIP
	P902B	LPI-025-027 9P 4P-5P UL1007 N . YU
	P903	366-009D 1P PIN HEADER STRAIGHT DIP
<b>RESISTOR</b>		
C851	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
FR403	0RP0050H709	SPF92T1KR050 0.05OHM 10% 1/2W 3.2X2
FR404	0RP0050H709	SPF92T1KR050 0.05OHM 10% 1/2W 3.2X2
FR405	0RP0050H709	SPF92T1KR050 0.05OHM 10% 1/2W 3.2X2
FR901	0RF0680K607	FNS02T3JR680 0.68OHM 5% 2W 12.0X4.0
J230	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
J231	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M



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LOCA. NO	PART NO	DESCRIPTION
J564	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
J565	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
J581	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W 3.2X1.8
L1201	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
L1202	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
L203	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
L208	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
L510	0RD0222A609	RDM92T1J22R0 22OHM 5% 1/2W 6.5X2.3M
R101	0RD3902F609	RD-96T1J39K0 39KOHM 5% 1/6W 3.2X1.8
R103	0RD2202F609	RD-96T1J22K0 22KOHM 5% 1/6W 3.2X1.8
R110	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R1101	0RD1301F609	RD-96T1J1K30 1.3KOHM 5% 1/6W 3.2X1.
R111	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R1110	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R112	0RD6802F609	RD-96T1J68K0 68KOHM 5% 1/6W 3.2X1.8
R1136	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.
R1143	0RD6200F609	RD-96T1J620R 620OHM 5% 1/6W 3.2X1.8
R1146	0RD3601F609	RD-96T1J3K60 3.6KOHM 5% 1/6W 3.2X1.
R1147	0RD1501F609	RD-96T1J1K50 1.5KOHM 5% 1/6W 3.2X1.
R1148	0RD1801F609	RD-96T1J1K80 1.8KOHM 5% 1/6W 3.2X1.
R1149	0RD2401F609	RD-96T1J2K40 2.4KOHM 5% 1/6W 3.2X1.
R1150	0RD5601F609	RD-96T1J5K60 5.6KOHM 5% 1/6W 3.2X1.
R117	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8
R119	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
R120	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.
R121	0RD2201F609	RD-96T1J2K20 2.2KOHM 5% 1/6W 3.2X1.
R15	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8
R201	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R202	0RD0752F609	RD-96T1J75R0 75OHM 5% 1/6W 3.2X1.8M
R203	0RD0682F609	RD-96T1J68R0 68OHM 5% 1/6W 3.2X1.8M
R212	0RD1201A609	RDM92T1J1K20 1.2KOHM 5% 1/2W 6.5X2.
R213	0RD1201F609	RD-96T1J1K20 1.2KOHM 5% 1/6W 3.2X1.
R216	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
R217	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
R220	0RD0752F609	RD-96T1J75R0 75OHM 5% 1/6W 3.2X1.8M
R221	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R225	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
R228	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
R23	0RD0151A609	RDM92T1J1R50 1.5OHM 5% 1/2W 6.5X2.3
R252	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
R253	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
R26	0RD1300F609	RD-96T1J130R 130OHM 5% 1/6W 3.2X1.8
R27	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R28	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R303	0RD2400A609	RDM92T1J240R 240OHM 5% 1/2W 6.5X2.3
R304	0RD0561A609	RDM92T1J5R60 5.6OHM 5% 1/2W 6.5X2.3
R306	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8
R308	0RN4702F409	RN-96T1F47K0 47KOHM 1% 1/6W 3.2X1.8
R309	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
R310	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
R311	0RN0431J607	RN-01T3J4R30 4.3OHM 5% 1W 12.0X4.0M
R314	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.

LOCA. NO	PART NO	DESCRIPTION
R315	0RN0431J607	RN-01T3J4R30 4.3OHM 5% 1W 12.0X4.0M
R316	0RD1502F609	RD-96T1J15K0 15KOHM 5% 1/6W 3.2X1.8
R317	0RD1503F609	RD-96T1J150K 150KOHM 5% 1/6W 3.2X1.
R318	0RN1001F409	RN-96T1F1K00 1KOHM 1% 1/6W 3.2X1.8M
R320	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
R321	0RD5101F609	RD-96T1J5K10 5.1KOHM 5% 1/6W 3.2X1.
R322	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
R328	0RN4702F409	RN-96T1F47K0 47KOHM 1% 1/6W 3.2X1.8
R403	0RD5600A609	RDM92T1J560R 560OHM 5% 1/2W 6.5X2.3
R405	0RX3300K618	S M L02R0J330R 330OHM 5% 2W 12.0X4.
R407	0RD0332A609	RDM92T1J33R0 33OHM 5% 1/2W 6.5X2.3M
R408	0RD6801F609	RD-96T1J6K80 6.8KOHM 5% 1/6W 3.2X1.
R409	0RS5602H609	RS-92T1J56K0 56KOHM 5% 1/2W 9.0X3.0
R410	0RS5102H609	RS-92T1J51K0 51KOHM 5% 1/2W 9.0X3.0
R411	0RS1001H609	RS-92T1J1K00 1KOHM 5% 1/2W 9.0X3.0M
R412	0RD7501A609	RDM92T1J7K50 7.5KOHM 5% 1/2W 6.5X2.
R415	0RD8201F609	RD-96T1J8K20 8.2KOHM 5% 1/6W 3.2X1.
R417	0RD1204F609	RD-96T1J1M20 1.2MOHM 5% 1/6W 3.2X1.
R433	0RS1801K619	SMR02R1J1K8R 1.8KOHM 5% 2W 8.6X3.5M
R435	0RS1500K607	RSD02T3J150R 150OHM 5% 2W 12.0X4.0M
R438	180-777H	RSR07V-J910R 910OHM 5% 7W 14X9.5X40
R439	180-777H	RSR07V-J910R 910OHM 5% 7W 14X9.5X40
R440	0RMZVBK002D	RSR05V-J15K0 15KOHM 5% 5W 14X9.5X25
R502	0RD3001F609	RD-96T1J3K00 3KOHM 5% 1/6W 3.2X1.8M
R503	0RD3001F609	RD-96T1J3K00 3KOHM 5% 1/6W 3.2X1.8M
R506	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R507	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R509	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R510	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R511	0RD3301F609	RD-96T1J3K30 3.3KOHM 5% 1/6W 3.2X1.
R512	0RD3301F609	RD-96T1J3K30 3.3KOHM 5% 1/6W 3.2X1.
R513	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R516	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R518	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R519	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R521	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R526	0RN5101F409	RN-96T1F5K10 5.1KOHM 1% 1/6W 3.2X1.
R534	0RD1504F609	CR1/8TB1M5J 1.5MOHM 5% 1/8W 3.2X1.8
R535	0RD1202F609	RD-96T1J12K0 12KOHM 5% 1/6W 3.2X1.8
R536	0RD1801F609	RD-96T1J1K80 1.8KOHM 5% 1/6W 3.2X1.
R537	0RD4700F609	RD-96T1J470R 470OHM 5% 1/6W 3.2X1.8
R538	0RD1803F609	RD-96T1J180K 180KOHM 5% 1/6W 3.2X1.
R539	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.
R540	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R543	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R545	0RD0752F609	RD-96T1J75R0 75OHM 5% 1/6W 3.2X1.8M
R547	0RD1203F609	RD-96T1J120K 120KOHM 5% 1/6W 3.2X1.
R548	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W 3.2X1.8
R549	0RD2201F609	RD-96T1J2K20 2.2KOHM 5% 1/6W 3.2X1.
R550	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R551	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R552	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8

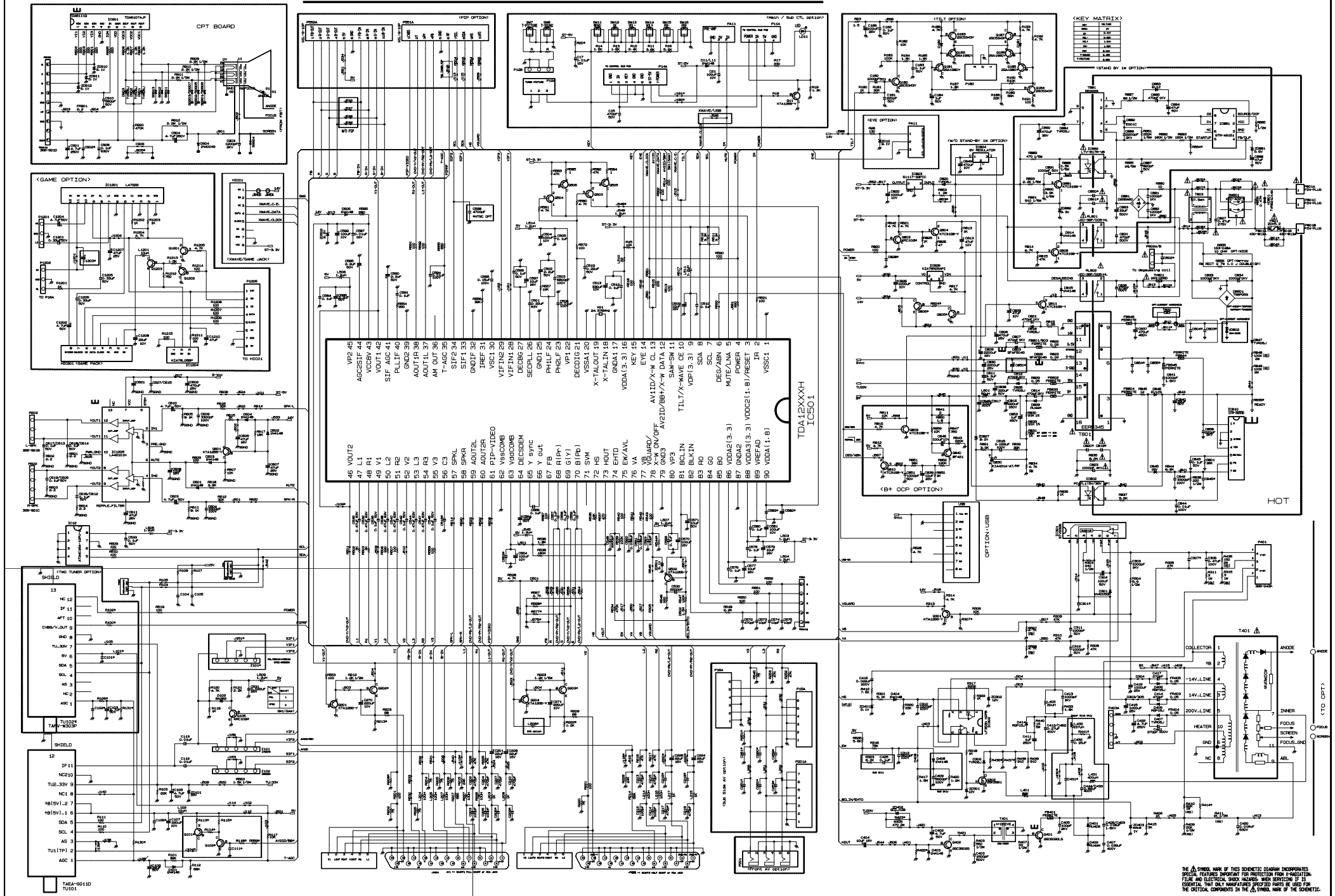
For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN : Ceramic	RD : Carbon Film
	CQ : Polyester	RS : Metal Oxide Film
	CE : Electrolytic	RN : Metal Film
		RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
R553	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R554	0RD3900F609	RD-96T1J390R 390OHM 5% 1/6W 3.2X1.8
R555	0RD6800F609	RD-96T1J680R 680OHM 5% 1/6W 3.2X1.8
R556	0RN3902F409	RN-96T1F39K0 39KOHM 1% 1/6W 3.2X1.8
R557	0RD1202F609	RD-96T1J12K0 12KOHM 5% 1/6W 3.2X1.8
R558	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
R563	0RD1501A609	RDM92T1J1K50 1.5KOHM 5% 1/2W 6.5X2.
R566	0RN4701F409	RN-96T1F4K70 4.7KOHM 1% 1/6W 3.2X1.
R567	0RN4701F409	RN-96T1F4K70 4.7KOHM 1% 1/6W 3.2X1.
R568	0RD0912F609	RD-96T1J91R0 91OHM 5% 1/6W 3.2X1.8M
R569	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
R572	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R576	0RD0912F609	RD-96T1J91R0 91OHM 5% 1/6W 3.2X1.8M
R577	0RD0912F609	RD-96T1J91R0 91OHM 5% 1/6W 3.2X1.8M
R580	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.
R581	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.
R582	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
R583	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8
R584	0RD0101F609	RD-96T1J1R00 1OHM 5% 1/6W 3.2X1.8MM
R585	0RD0101F609	RD-96T1J1R00 1OHM 5% 1/6W 3.2X1.8MM
R591	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R592	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R595	0RD6800F609	RD-96T1J680R 680OHM 5% 1/6W 3.2X1.8
R601	0RD0221F609	RD-96T1J2R20 2.2OHM 5% 1/6W 3.2X1.8
R602	0RD0221F609	RD-96T1J2R20 2.2OHM 5% 1/6W 3.2X1.8
R603	0RD0221F609	RD-96T1J2R20 2.2OHM 5% 1/6W 3.2X1.8
R604	0RD0221F609	RD-96T1J2R20 2.2OHM 5% 1/6W 3.2X1.8
R605	0RD9101F609	RD-96T1J9K10 9.1KOHM 5% 1/6W 3.2X1.
R607	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8
R609	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R611	0RD9101F609	RD-96T1J9K10 9.1KOHM 5% 1/6W 3.2X1.
R612	0RD3002F609	RD-96T1J30K0 30KOHM 5% 1/6W 3.2X1.8
R615	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
R616	0RD3002F609	RD-96T1J30K0 30KOHM 5% 1/6W 3.2X1.8
R617	0RD1802F609	RD-96T1J18K0 18KOHM 5% 1/6W 3.2X1.8
R618	0RD3901F609	RD-96T1J3K90 3.9KOHM 5% 1/6W 3.2X1.
R801	0RN3002F409	RN-96T1F30K0 30KOHM 1% 1/6W 3.2X1.8
R811	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8
R812	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.
R813	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
R816	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.
R817	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.
R819	0RP0050H709	SPF92T1KR050 0.05OHM 10% 1/2W 3.2X2
R820	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8
R821	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.
R822	0RP0020J809	SPF01T1MR020 0.02OHM 20% 1W 6.5X2.3
R823	0RP0020J809	SPF01T1MR020 0.02OHM 20% 1W 6.5X2.3
R825	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
R826	0RD0472F609	RD-96T1J47R0 47OHM 5% 1/6W 3.2X1.8M
R829	0RP0050H709	SPF92T1KR050 0.05OHM 10% 1/2W 3.2X2
R830	0RN9102F409	RN-96T1F91K0 91KOHM 1% 1/6W 3.2X1.8
R831	0RN2702F409	RN-96T1F27K0 27KOHM 1% 1/6W 3.2X1.8

LOCA. NO	PART NO	DESCRIPTION
R832	0RD3902F609	RD-96T1J39K0 39KOHM 5% 1/6W 3.2X1.8
R833	0RN9102F409	RN-96T1F91K0 91KOHM 1% 1/6W 3.2X1.8
R834	0RN4701F409	RN-96T1F4K70 4.7KOHM 1% 1/6W 3.2X1.
R835	0RKZVTA001C	RN-92T1J8M20 8.2MOHM 5% 1/2W 9.0X3.
R836	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8M
R837	0RD5601F609	RD-96T1J5K60 5.6KOHM 5% 1/6W 3.2X1.
R838	0RD2200A609	RDM92T1J220R 220OHM 5% 1/2W 6.5X2.3
R841	0RF0201K607	FNS02T3J2R00 2OHM 5% 2W 12.0X4.0MM
R842	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.
R843	0RD2203A609	RDM92T1J220K 220KOHM 5% 1/2W 6.5X2.
R844	0RD6801F609	RD-96T1J6K80 6.8KOHM 5% 1/6W 3.2X1.
R845	0RD0821F609	RD-96T1J8R20 8.2OHM 5% 1/6W 3.2X1.8
R847	0RD3600F609	RD-96T1J360R 360OHM 5% 1/6W 3.2X1.8
R848	0RX1003K618	S M L02R0J100K 100KOHM 5% 2W 12.0X4
R849	0RX1003K618	S M L02R0J100K 100KOHM 5% 2W 12.0X4
R850	0RD3001F609	RD-96T1J3K00 3KOHM 5% 1/6W 3.2X1.8M
R851	0RD3602F609	RD-96T1J36K0 36KOHM 5% 1/6W 3.2X1.8
R852	0RD1203F609	RD-96T1J120K 120KOHM 5% 1/6W 3.2X1.
R853	0RX0101K618	S M L02R0J1R00 1OHM 5% 2W 12.0X4.0M
R858	0RKZVTA001K	RN-92T1J470K 470KOHM 5% 1/2W 9.0X3.
R859	0RD1002A609	RDM92T1J10K0 10KOHM 5% 1/2W 6.5X2.3
R860	0RF0201K607	FNS02T3J2R00 2OHM 5% 2W 12.0X4.0MM
R861	0RD3901F609	RD-96T1J3K90 3.9KOHM 5% 1/6W 3.2X1.
R901	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W 3.2X1.8
R902	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W 3.2X1.8
R903	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W 3.2X1.8
R906	0RD1201A609	RDM92T1J1K20 1.2KOHM 5% 1/2W 6.5X2.
R907	0RD1201A609	RDM92T1J1K20 1.2KOHM 5% 1/2W 6.5X2.
R908	0RD1201A609	RDM92T1J1K20 1.2KOHM 5% 1/2W 6.5X2.
R909	0RS2201H609	RSD92T1J2K20 2.2KOHM 5% 1/2W 6.5X2.
R910	0RS2201H609	RSD92T1J2K20 2.2KOHM 5% 1/2W 6.5X2.
R911	0RS2201H609	RSD92T1J2K20 2.2KOHM 5% 1/2W 6.5X2.
R912	0RD2204A609	RDM92T1J2M20 2.2MOHM 5% 1/2W 6.5X2.
R920	0RD4703A609	RDM92T1J470K 470KOHM 5% 1/2W 6.5X2.
R925	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W 3.2X1.8
<b>SWITCH</b>		
SW1101	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC 0
SW1102	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC 0
SW1103	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC 0
SW1104	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC 0
SW1105	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC 0
SW1106	140-315H	THVH472GBC(HORIZONTAL) 1C1P 12VDC 0
SW801	6600M000057	KDC-A02-F AC 250VAC 5A 1PCS 1C1P HO
<b>SPARK GAP, AXIAL</b>		
SG901	165-004A	152F-L3N/S-23 RADIAL 1.5KV 1.5KV 0A
SG902	165-004A	152F-L3N/S-23 RADIAL 1.5KV 1.5KV 0A
SG903	165-004A	152F-L3N/S-23 RADIAL 1.5KV 1.5KV 0A
SG904	6918VAX002L	SSA-122N-A1 AXIAL 1.2KV 1.2KV 0A 0M
SG911	6918VAX002K	SSA-351M AXIAL 350V 350V 0A 7.5MM T
SG912	6918VAX002K	SSA-351M AXIAL 350V 350V 0A 7.5MM T



# SCHEMATIC DIAGRAM OF CW62C





**SVC. SHEET : EBY37965601-S**