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# COLOR TV

# SERVICE MANUAL

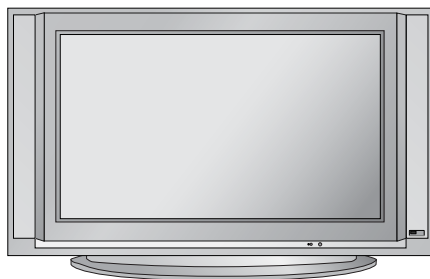
**CHASSIS : MC-05HA**

**MODEL : 32FS2ANB/ANX**

**32FS2ANB/ANX-ZE**

## **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.

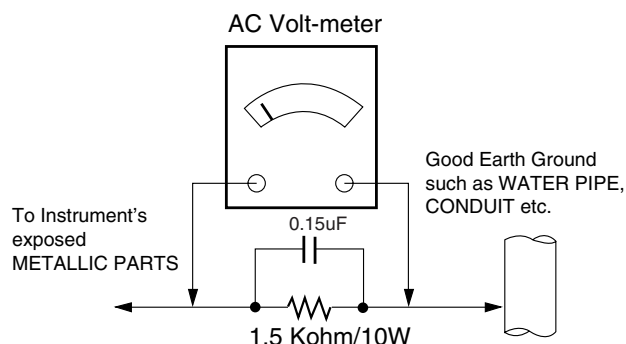
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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

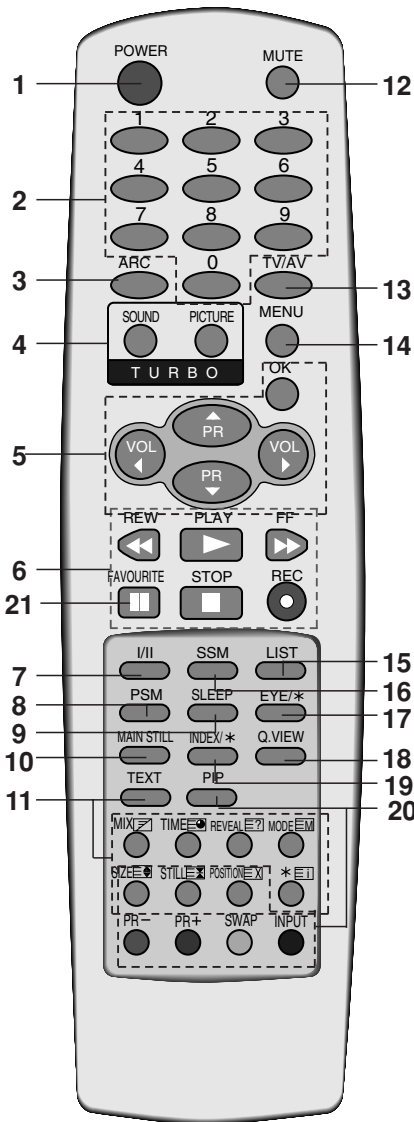


# CONTROL DESCRIPTIONS

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

## Remote control handset

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



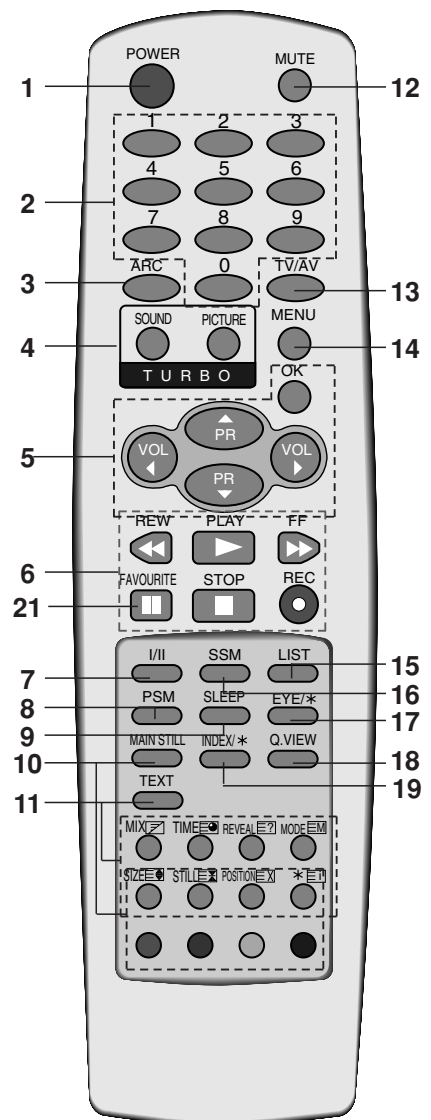
( With TELETEXT/PIP)

- 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. ARC (Aspect Ratio Control)**  
changes the picture format.
- 4. TURBO PICTURE BUTTON / SOUND BUTTON (option)**  
selects Turbo picture.
- 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. VCR BUTTONS**  
control a LG video cassette recorder.
- 7. I/II**  
selects the language during dual language broadcast.  
selects the sound output (option).
- 8. PSM (Picture Status Memory)**  
recalls your preferred picture setting.
- 9. SLEEP**  
sets the sleep timer.
- 10. MAIN STILL**  
freezes motion of the picture.
- 11. TELETEXT BUTTONS (option)**  
These buttons are used for teletext.  
For further details, see the 'Teletext' section.
- 12. MUTE**  
switches the sound on or off.
- 13. TV/AV**  
selects TV or AV mode.  
switches the set on from standby.

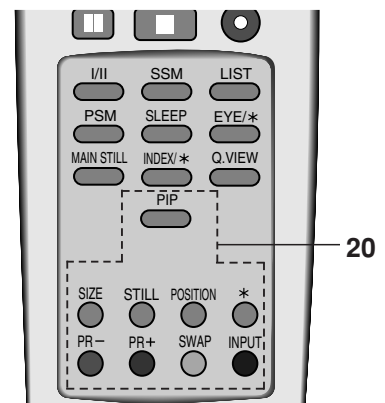
- 14. MENU**  
selects a menu.
- 15. LIST**  
displays the programme table.
- 16. SSM (Sound Status Memory)**  
recalls your preferred sound setting.
- 17. EYE/★ (option)**  
switches the eye function on or off.
- 18. Q.VIEW**  
returns to the previously viewed programme.
- 19. INDEX/★ (option)**  
switches DISPLAY on or off.
- 20. PIP BUTTONS (option)**  
**PIP**  
switches the sub picture on or off.  
**PR +/-**  
selects a programme for the sub picture.  
**SWAP**  
alternates between main and sub picture.  
**INPUT**  
selects the input mode for the sub picture.  
**SIZE**  
adjusts the sub picture size.  
**STILL**  
freezes motion of the sub picture.  
**POSITION**  
relocates the sub picture in clockwise direction.  
**9/4 PIP**  
switches on or off the 9 or 4 sub pictures.
- 21. FAVOURITE**  
selects a favorite programme.

**★ : No function**

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

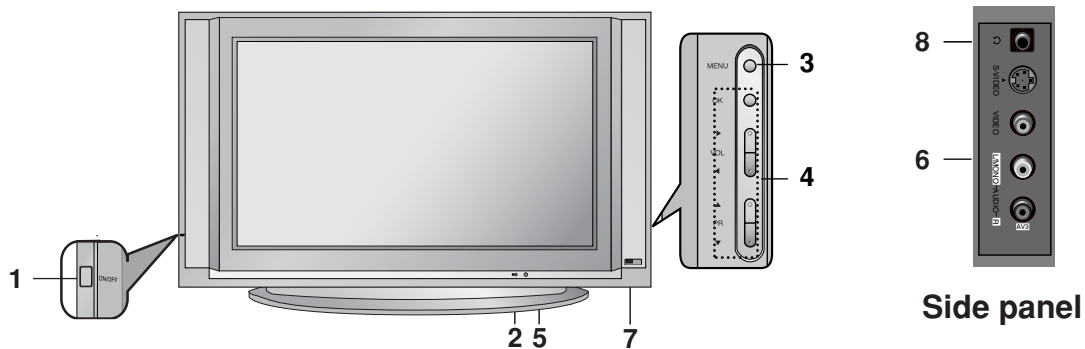


(With TELETEXT / Without PIP)



(Without TELETEXT / With PIP)

## Front panel



Side panel

1. **MAIN POWER (ON/OFF)**  
switches the set on or off.
2. **POWER/STANDBY INDICATOR**  
illuminates brightly when the set is in standby mode.  
dims when the set is switched on.
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**
6. **AUDIO/VIDEO IN SOCKETS (AV3)**  
Connect the audio/video out sockets of external equipment to these sockets.  
**S-VIDEO/AUDIO IN SOCKETS (S-AV)**  
Connect the video out socket of an S-VIDEO VCR to the **S-VIDEO** socket.  
Connect the audio out sockets of the S-VIDEO VCR to the audio sockets as in **AV3**.
7. **EYE (option)**  
adjusts picture according to the surrounding conditions.
8. **HEADPHONE SOCKET (option)**  
Connect the headphone plug to this socket.

# SPECIFICATIONS

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

## ■ Scope

This specification can be applied to all the television related to MC-05HA Chassis.

## ■ Test and Inspection Method

- 1) performance : Follow the Standard of LG TV test
- 2) Standards of Etc. requirement
  - Safety: IEC60065
  - EMC: EN55020,EN55013

## ■ Test Condition

- 1) Temperature :  $20 \pm 5^{\circ}\text{C}$  (CST :  $40 \pm 5^{\circ}\text{C}$ )
- 2) Relative Humidity :  $65 \pm 10\%$
- 3) Power voltage : 110-240V~, 50/60Hz
- 4) Follow each drawing or spec for spec and performance of parts, based upon P/N of B.O.M
- 5) Warm up TV set for more than 20min. before the measurement.

## ■ General Specifications

No.	Item	Specification	Remark
1	Receiving system	PAL, SECAM BG	
		PAL/SECAM DK	
		PAL I	
2	AV receiving system	SECAM-L/L'	EU
		NTSC M	Non EU
		NTSC M/PB	
		PAL BG, DK, I	
		SECAM BG, DK	
3	Component receiving system	480i/ 480P	
		576i/ 576P	
		1080i 50Hz/60Hz	
		720P 50Hz/60Hz	
4	Available Channel	1) VHF : E2 ~ E12 UHF : E21 ~ E69 CATV : S1 ~ S20 HYPER : S21 ~ S41	
		2) L/L'	EU
		3) NTSC-M VHF : 2 ~ 13CH UHF : 14 ~ 69CH CATV : 01 ~ 125CH	Non EU  200 PR. (W/O TXT)
5	Input Voltage	110-240V~, 50/60Hz(Wide Range) 220V~ or 230V~, 50/60Hz(Narrow)	EU : Narrow Non EU : Narrow, Wide
6	Market	EU, Non EU	
7	Screen Size	4:3 Flat 29", Wide Flat 32"	
8	Tuning System	FVS 100/200 Program	Option
9	Operating Environment	1) Temp : 0 ~ 45 deg 2) Humidity: below 85%	
10	Storage Environment	1) Temp : -20 ~ 60 deg 2) Humidity: below 85%	

# ADJUSTMENT INSTRUCTIONS

## 1. Application Object

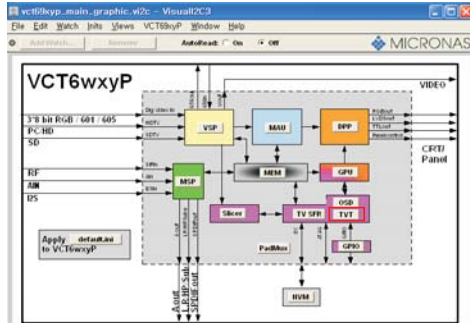
These instructions are applied to all of the color TV, MC-05HA chassis.

## 2. Notes

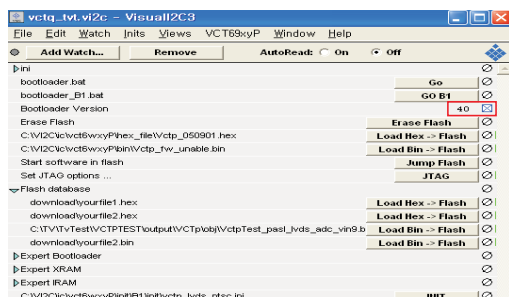
- (1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
- (2) Adjustment must be done in the correct order. But the adjustment can be changed by consideration of mass production.
- (3) The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

## 3. Soft ware download

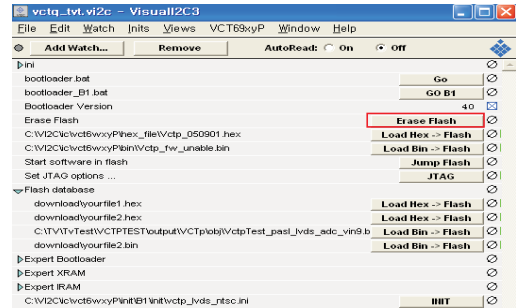
- 1) Connect JIG to P004 of Digital Board.
- 2) Connect SCL line of JIG Switch to Ground.
- 3) Turn on JIG and supply 6V to Digital Board. Terminate the SCL of clause 2) by using Switch.
- 4) After termination of SCL line, wait for 3 second.
- 5) Execute 'vct69xyp\_main\_graphic.vi2c' program.
- 6) Click the TVT button.



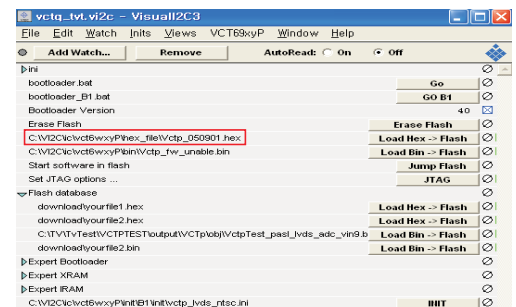
- 7) Double click right check box of 'Boot loader Version' line, and then check to change to 40 from 0.



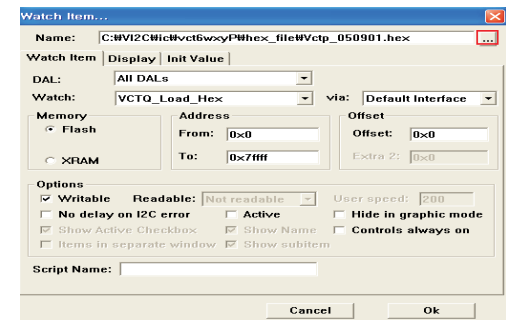
- 8) After checking '40', Click the Erase Flash button.



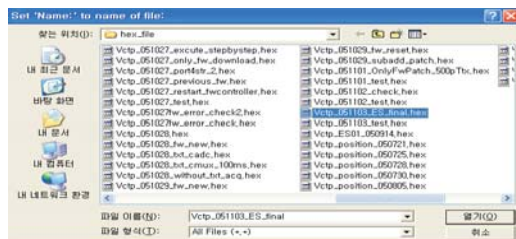
- 9) Double click 'Edit Window'.



- 10) Click the file select button of Name to select file.

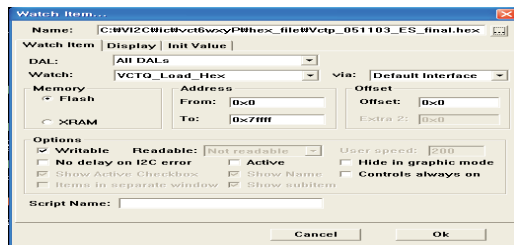


- 11) Select necessary file.

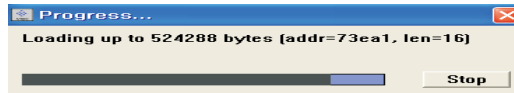




12) Download the file with 'OK' button.



13) Check download process(about 30~40 sec.).



## 4. DVCO Adjustment

- 1) This adjustment applies to the frame assembly unit adjustment.
- 2) This adjustment is to adjust the crystal oscillator frequency of VCTP IC and is done after receiving the PAL B/G digital pattern signal.
- 3) If you press the ADJ button to enter the SCREEN mode, DVCO adjustment is automatically done.  
(T/X may not operate properly during DVCO adjustment.)

## 5. Temporary screen voltage adjustment

- 1) This adjustment applies to the frame assembly unit adjustment.
- 2) Enter Screen Mode with ADJ button. Turn the screen volume to disappear horizontal line.

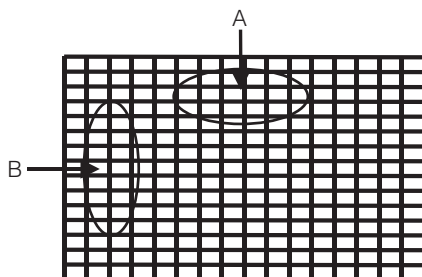
## 6. Focus Adjustment

### 6-1. Preliminary steps

Receive the PAL-B/G 07ch(Cross hatch pattern, <Fig 6>) and Set the picture mode to "STANDARD".

### 6-2. Adjustment

- 1) Adjust the lower Focus volume of FBT for the best focus of vertical line B.
- 2) Adjust the upper Focus volume of FBT for the best focus of area A.
- 3) Repeat above step 1) and 2) for the best overall focus.

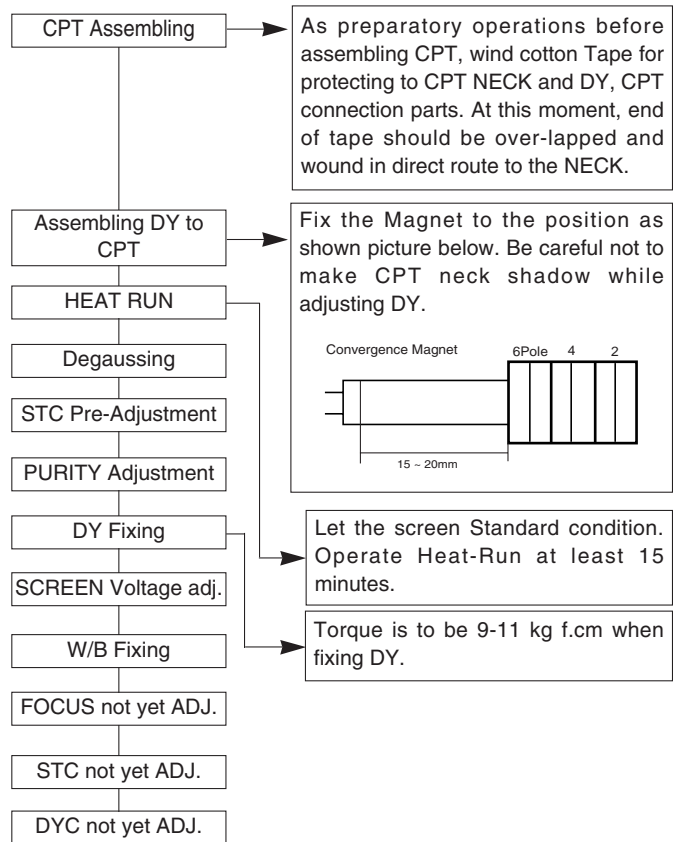


<Fig. 1>

## 7. Purity & Convergence adjustment

Adjustment should be operated when using the CPT(without ITC from CPT manufacturing place)

This adjustment must be done in the order of the following flowchart.



### 7-1. Purity adjustment

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

### 7-2. Convergence adjustment

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

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

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

## 8. Screen voltage Adjustment

### 8-1. Preliminary steps

- 1) Turn the power supply of the TV set on.
- 2) The set must be operated for about 15 minutes prior to the adjustment.

### 8-2. Adjustment

- 1) Adjust in the condition of no RF signal or after receiving the PAL-B/G 05ch(Digital pattern)
- 2) Press ADJ key on the Remote controller and select "2.SCREEN" to make horizontal line.

Turn the Screen Volume not to see one horizontal line and turn oppositely until it starts to display.

## 9. White balance Adjustment

This adjustment should be performed after screen voltage adjustment.

For manual adjustment, refer to the following procedure

### 9-1. Test equipment

- 1) Automatic White Balance Meter(Low/High Light Pattern)  
- Automatic adjustment
- 2) White Balance Meter(CRT Color Analyzer, CA-100) : 1 set
- 3) Remote control for adjustment

### 9-2. Preliminary steps

- 1) Tune the TV set to receive an 100% white pattern.
- 2) This adjustment should be performed after screen voltage adjustment.

### 9-3. Adjustment

- 1) White Balance should be adjusted with White balance meter and the remote controller.
- 2) Press the ADJ button to enter the adjustment mode, search for RGB W-B mode with CH▲, ▼, and select with VOL button.
- 3) Select the adjustment item with CH ▲, ▼ button.
- 4) Adjust the data with Press VOL ◀, ▶ button.
- 5) Adjustment procedure
  - a. Adjust the "CONTRAST" and "BRIGHT" so the bright level to be 35 Ft\_L.
  - b. Adjust "Y" value of High Light with RD(R-Drive) and adjust "X" value with BD(B-Drive) and make color coordinates of High Light which is specified in "clause f".
  - c. Adjust the "CONTRAST" and "BRIGHT" so the bright level to be 4.5 Ft\_L.
  - d. Adjust "Y" value of Low Light with RC(R-Cutoff) and adjust "X" value with BC(B-Cutoff) and make color coordinates of Low Light which is specified in "clause f".
  - e. Repeat a~d until the High/ Low color coordinates satisfies the table of "clause f"

- f. Check the adjusted color coordinates with white balance meter.

Color Temperature	X coordinate	Y coordinate	
13500K	266± 8	273 ± 8	Non EU
9000K	288 ± 8	295 ± 8	EU

	MENU	29"	Remark
RGB W-B	RD(0~1FF)	0180	For High Light adjustment
	GD(0~1FF)	0190	
	BD(0~1FF)	01A0	
	RC(0~1FF)	00D0	For Low Light adjustment
	GC(0~1FF)	00FF	
	BC(0~1FF)	00E0	

IIC DATA SETTING

Model IIC

OFFSET DATA

IIC WRITE

SUB ADD

START BIT

STOP BIT

EEPROM

SUB ADD

(B AMP)

1

8

7

2

0

39

(B CUT)

2

C

7

2

0

3D

(G AMP)

0

7

7

2

0

38

(G CUT)

3

B

7

2

0

3C

SUB BRIGHT

DATA SAVE

ADDR

DATA

SLAVE ADDRESS(WRITE)

IC

86

EEPROM

A0

SUB BRIGHT CONTOR DATA

CA 100

4

PATTEN

40

SPEED

2

## 10. Deflection Data Adjustment

- Manual adjustment can be done by the following procedure.

### 10-1. Preliminary steps

- 1) Set the Deflection data with the remote controller.
- 2) Enter the Adjustment mode by pressing the ADJ button.
- 3) Select the "DEFLECT" to adjust Deflection Data.
- 4) Press the CH ▲, ▼ button to select adjustment items.
- 5) Press the VOL F, G button to adjust the data.
- 6) The TV set receives PAL-B/G Digital pattern(EU05ch).

NOTE : Initial adjustment is done based on PAL 100Hz.

If production line doesn't the production line of LG TV, receive available deflection adjustment pattern.

- 7) MC05HA Chassis is based 3Mode adjustment
- 8) sequency : Pal 100Hz -> 1080i/50Hz -> NTSC

\* MC05HA chassis is based output of 1080i/50Hz.

\* For adjusting 1080i/50Hz output after adjusting 100Hz, press the Mode button of remote controller after entering to DEFLECTION of SVC Mode.

### 10-2. Adjustment

#### VL (Vertical Linearity)

Adjust the top & bottom size of inner circle to be equal.

#### VA (Vertical Amplitude)

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

#### SC (Vertical S Correction)

Adjust the lattice width of the Top/Center/Bottom to be the same.

As being decided by DY value of the using CPT, set as default of the using CPT.

#### VS (Vertical Shift)

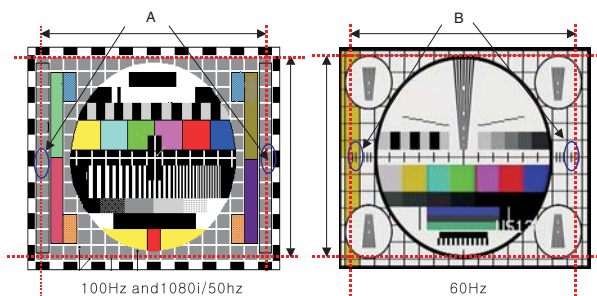
Adjust so that the horizontal center line of a digital circle pattern is in accord with geometric horizontal center of the CPT.

#### HS (Horizontal Shift)

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

#### EW (East-West Horizontal Width)

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



<fig. 2>

#### BOW

In line adjustment, not to change default value is basic.

#### ANG

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

#### EP (East-West Parabola)

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

#### CRNU(Upper Corner Correction)

Adjust so that corner vertical line of upper-left and upper-right to be straight line after finishing EP adjustment.

#### CRNL(Lower Corner Correction)

Adjust so that corner vertical line of lower-left and lower-right to be straight line after finishing EP adjustment.

#### CRNU6

After finished CRNU adjustment, adjust vertical line of left-top, right-top of screen to the best straight line.

#### CRNL6

After finished CRNL adjustment, adjust vertical line of left-top, right-top of screen to the best straight line.

\* After adjusting as above, finish the Pin Cushion adjustment by re-adjustment of EW, EP, ANGLE, BOW, CRNU, CRNL, CRNU6, CRNL6.

\* After adjusting, move to "Store This Mode". And then change to "Store All Mode" with VOL ◀, ▶ and save by using press "OK" key.

## 11. Deflection setting initial data

ITEM	Range	RF PAL		NTSC
		100	50P	
VL	0 ~ FFFF	FFF0	FFB4	FFDC
VA	0 ~ FFFF	FFF8	FFFC	0001
SC	0 ~ FFFF	00BC	007C	0068
VS	0 ~ FFFF	008C	007C	006C
HS	0 ~ FFFF	005F	0063	005D
EW	0 ~ FFFF	002A	0026	0050
ET	0 ~ FFFF	FFFB	FFE3	FFEB
EP	0 ~ FFFF	FF4A	FF58	FF44
CRNU	0 ~ FFFF	0014	000C	FFE4
CRNL	0 ~ FFFF	0003	002B	FFE3
BOW	0 ~ FFFF	0005	0001	0007
ANGLE	0 ~ FFFF	0001	0001	0001
CRNU6	0 ~ FFFF	0026	0011	0042
CRNL6	0 ~ FFFF	002B	0005	003F

\* Check adjustment condition at 1080i/50Hz, NTSC60Hz after finishing adjustment in PAL100Hz, adjust defection adjustment at each Mode again.

\* Sequence

:PAL 100Hz(RF) -> NTSC 60Hz(RF) -> 1080i/50Hz(COMPONENT)

## 12. How to inspect condition of a transmission and reception in wireless sound model(option)

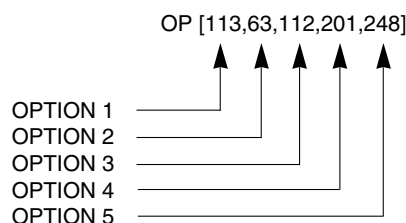
- Wireless sound model's efficiency inspections is executed to a finished in a final inspection phase.
- Wireless sound is a function which receives voice-signal by an exclusive remote control and Earphone, transmits a FM through transmitter of inner part in MICOM BOARD to TV sound(MONITOR OUTPUT)

- 1) Execute in channel generating voice-signal
- 2) Select a transmitted frequency in MENU OSD.
- 3) A received frequency in an exclusive remote control or received FM Radio is tuned by 87.7MHz which is same as frequency in OSD.
- 4) Check out whether a signal generating to MAIN SPEAKER generates in earphone or receiver or not.
- 5) There is no alternation and setting of adjusted DATA in the process of inspecting FM TX.

## 13. OPTION setting

### 13-1. Preliminary steps

- 1) This option adjustment decides function in accordance with model. Press the SVC TX adjustment button(CH up/down button) at SVC mode, then adjust the option at OPTION1, 2, 3, 4, 5 mode.
- 2) Mark the option adjustment data like [111,111,111,111,111] in BOM.



\* Mark of BOM

LEVEL	PART NO.	SPECIFICATION	DESCRIPTION
1.	3141VMNxxxA	MAIN CHASSIS ASSY	OPT[091,016,143,100,000]

In this model, the OPTION1 data is 091, OPTION2 data is 016, the OPTION3 data is 143, the OPTION 4 data is 100, OPTION 5 data is 000.

### 13-2. Adjustment Method

- 1) Input OPTION value with number button on remote control at each OPTION adjustment mode.
- 2) At each OPTION Mode, Select adjustment item by the CH ▲, ▼ button and then set up each OPTION by the ◀, ▶ button.

&lt;Table 1&gt; OPTION 1

Option	Code	Function	Remark
1	TEXT (2bit, Caption, 200PR)	3: WITH CAPTION(CANADA) 2: WITH CAPTION 1: W/TXT & 200 PROGRAM 0: W/O TXT & 200 PROGRAM	3: CANADA 2: OTHER NTSC AREA 1: Other country 0: china only
2	VCTP	0: BASIC 1: ECO	0: VCTP Basic Version 1: VCTP ECO Version * Fixed by MICOM VERSION
3	TOP	1: TOP + FLOF TEXT 0: FLOF TEXT	1: Dutch/ Swiss/ Austria/ Sweden/ Norway/Finland/ Poland/ Italy/ Spain/ Benelux3 0: Others
4	ACMS	1: WITH CHANNEL NAME DISPLAY 0: WITHOUT CHANNEL NAME DISPLAY	1: ALL COUNTRIES EXCEPT AUSTRALIA 0: AUSTRALIA ONLY
5	CH+AU	1: CHINA+AUSTRALIA CHANNEL TABLE 0: OTHER COUNTRIES CHANNEL TABLE	1: CHINA + AUSTRALIA 0: OTHERS
6	BOOST	1: WITH BOOSTER 0: WITHOUT BOOSTER	1: ALL 0:
7	PIP	1: WITH PIP 0: WITHOUT PIP	1: WITH PIP MODEL 0: WITHOUT PIP MODEL

&lt;Table 2&gt; OPTION 2

Option	Code	Function	Remark
1	SYS	0: BG/I/DK/L 1: BG/I/DK/M 2: 3-SYSTEM 3: RESERVED	0: RZ MODEL 1: RT MODEL 2: NO USE 3: NO USE
2	FMTRM	1: WIDE BAND XWAVE 0: NO XWAVE	1: WITH XWAVE MODEL 0: WITHOUT XWAVE MODEL
3	A2 ST	1: NICAM CHECK & FM STEREO/DUAL - operate 0: NICAM CHECK & FM STEREO/DUAL - not operate	1: OTHERS 0: TUNISIA
4	HDEV	1: HIGH DEVIATION MODULATION 0: RF NORMAL SOUND MODULATION	1: China/ Saudi/ India/ Indonesia/ Lebanon/ Pakistan/ Iran 0: OTHERS
5	VOL	1: RUSHED SOUND CURVE(ASIA, MIDDLE EAST) 0: STANDARD SOUND CURVE(EU, RUSSIA)	1: RT 0: RZ
6	WOOF	1: WITH WOOFER SPEAKER 0: WITHOUT WOOFER SPEAKER	TOOL OPTION
7	HPHON	1: WITH HEAD PHONE 0: WITHOUT HEAD PHONE	1: NO USE(READY) 0: ALL

&lt;Table 3&gt; OPTION 3

Option	Code	Function	Remark
1	SCART	3: READY 2: 2 SCART(SC ID enable + SC_RGB(soft mix)+sav2)	3: no use 2: 2 scart
2		1: 1 SCART(SC ID enable + SC_RGB(soft mix)) 0: WITHOUT SCART JACK(ALL PHONE JACK)	1: 1 scart + 1 phone 0: ALL PHONE JACK
3	WIDE	1: 16:9 TV 0: 4:3 TV	1: Wide Model 0: 4:3 model
4	NCOMP (number of component)	1: COMPONENT 1/2 0: COMPONENT 1	1: no use 0: ALL
5	3DCOM	1: WITH 3D-COMB FILTER 0: WITHOUT 3D-COM FILTER(WITH 4H-FILTER)	1: Basic VCTP(PIP model) 0: Eco VCTP(W/O PIP)
6	BLUBK	1: WITH BLUE BACK 0: WITHOUT BLUE BACK	1: ALL 0: no use
7	XD	1: WITH XD 0: WITHOUT XD	1: With XD ON/OFF Function 0:
8	TILT-NOTE	1: can't control TILT by REMOCON 0: can control TILT by REMOCON	1: RZ model 0: RT model

&lt;Table 4&gt; OPTION 4

No.	OPTION	Specification	REMARK
1	LANG	0: ENG ONLY 1: EU 5EA 2: EU ETC 3: GREECE 4: PARSI 5: ARAB URDU 6: E+HINDI 7: E+I+M+V 8: E+THAI 9: E+CHINA	English Only English/ German/ French/ Italian/ Spanish Polish/ Hungarian/ Czech/ Russian/ English/ Dutch/ Swedish/ Norwegian/ Danish/ Finnish/ Portuguese/ Rumanian English/ Greek English/ PARSI(Iran) English/ French/ Arabic(Egypt, Saudi)/ URDU(Pakistan) English+HINDI English+Indonesian+Malaysian/ Vietnamese English+THAI English+Chinese
2	TXT LAN	0: WEST EU 1: EAST EU1 2: TURKEY EU 3: EAST EU2 4: CYRILLIC1 5: CYRILLIC2 6: CYRILLIC3 7: TURK GRE1 8: TURK GRE2 9: TURK GRE3 10: ARAB FRA 11: ARAB ENG 12: ARAB HEB1 13: ARAB HEB2 14: PARS ENG 15: PARS FRA 16: PARS ALL	English/ French/ Swedish/ Czech/ German/ Spanish/ Italian Polish/ French/ Swedish/ Czech/ German/ Slovene/ Italian/ Rumanian English/ French/ Swedish/ Turkish/ German/ Spanish/ Italian English/ Hungarian/ Serbian/ Czech/ German/ Spain/ Italy/ Rumanian Polish/ Russian/ Estonian/ Lettish Polish/ Russian/ Swedish/ Czech/ Estonian/ Lettish English/ Russian/ Estonian/ Czech/ Ukrainian/ Lettish English/ French/ Swedish/ Turkish/ Portuguese/ German/ Spanish/ Italian/ Greek English/ Turkish/ German/ Greek English/ French/ Swedish/ Turkish / German/ Spanish/ Italian/ Greek French/ English/ Turkish/ Arabic English/ French/ Turkish/ Arabic Hebrew/ Arabic English/ French/ Arabic/ Hebrew English/ French/ Turkish/ Parsi French/ Turkish/ Parsi English/ French/ Parsi * Finland => suomi
3	MAX VOL	100	

&lt;Table 5&gt; OPTION5

Option	Code	Function	Remark
1	C/PTV	1: W/ CVG(PTV) 0: W/O CVG(CTV)	1: no use 0: ALL * Fixed by MICOM version
2	AUTOCVG	1: WITH AUTO CONVERGENCE 0: WITH 9 POINT CONVERGENCE	1: no use 0: ALL
3	32 INCH	1: 32 INCH 0: OTHERS	1: no use 0: ALL
4	HOTEL	1: WITH HOTEL FUNCTION 0: WITHOUT HOTEL FUNCTION	1: Limit MAX VOL Level, CH EDIT 0:
5	EYE	1: WITH DIGITAL EYE 0: WITHOUT DIGITAL EYE	1: no use(READY) 0: ALL
6	TBIDX	1: WITH TURBO THEATER INDEX 0: WITHOUT TURBO THEATER INDEX	1: FB90/FC40 index option 0: Other Tool all
7	DGIDX	1: WITH DIGITAL INDEX 0: WITHOUT DIGITAL INDEX	1: WITH INDEX MODEL 0: W/O INDEX MODEL
8	MOVE SPK	1: WITH MOVE SPEAKER 0: WITHOUT MOVE SPEAKER	1: 29FB90 0: Other tool

## 14. SERVICE MODE DATA

&lt;Table 6&gt; Basic data of DDP3316C

ITEM	PAL 100Hz	NTSC	1080i/50Hz
EHTTH	00FA	00FA	00FA
EHT-S	001F	001F	001F
EHTV1	FFF2	FFF2	FFF2
EHTV2	FFE2	FFF2	FFE2
EHTH1	FFD1	FFD1	FFD1
EHTH2	FFE0	FFE0	FFE0
EHT-F	0003	0003	0003
EHTP-1	FFE8	FFE8	FFE8
EHTP-2	0003	0003	0003

&lt;Table 8&gt; W/B DATA

MENU	ITEM	DATA
RGB W-B	R-DRIVE	0150
	G-DRIVE	0090
	B-DRIVE	0090
	R-CUTOFF	00FF
	G-CUTOFF	00FF
	B-CUTOFF	00FF
	TNRCT C/A	0005
	AGC-LEV	00B0

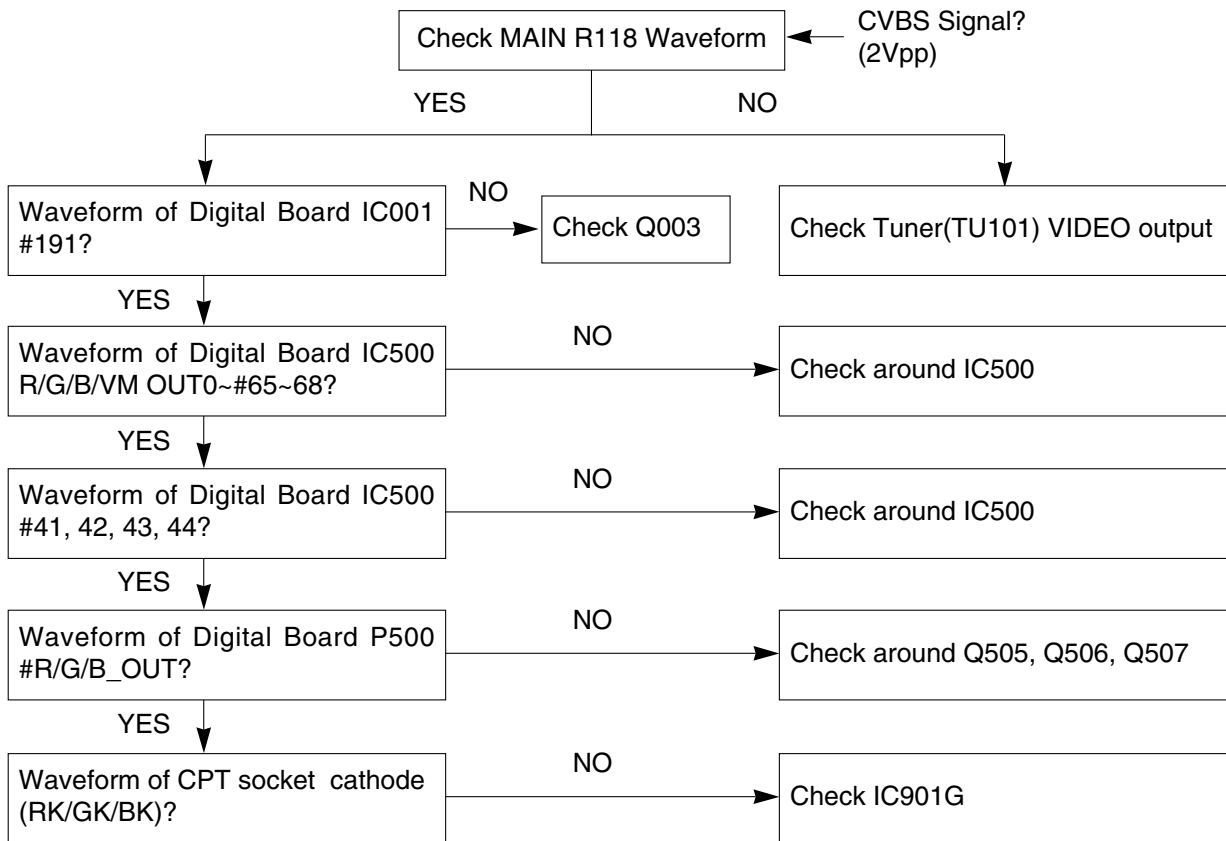
&lt;Table 7&gt; Basic data of DDP3316C - 2

ITEM	PAL 100Hz	NTSC	1080i/50Hz
IBRM	0190	0190	0190
WDRM	00C8	00C8	00C8
GGAIN	0000	0000	0000
WGAIN	0000	0000	0000
MWDR	01F0	01F0	01F0
BCLTH	0250	0250	0250
BCLTC	0190	0190	0190
BCLGA	00A0	00A0	00A0
BCTC	0096	0096	0096
TML	0000	0000	0000



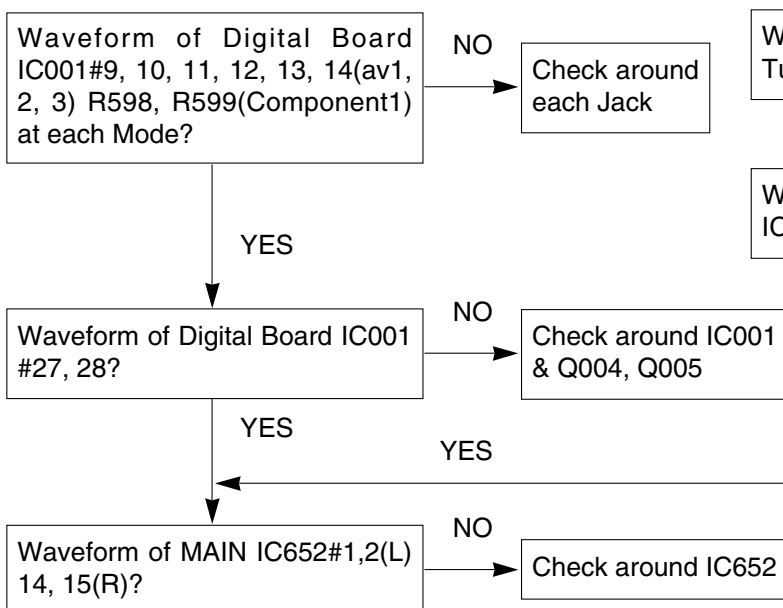
# TROUBLE SHOOTING

## 1. No Picture (sound ok)

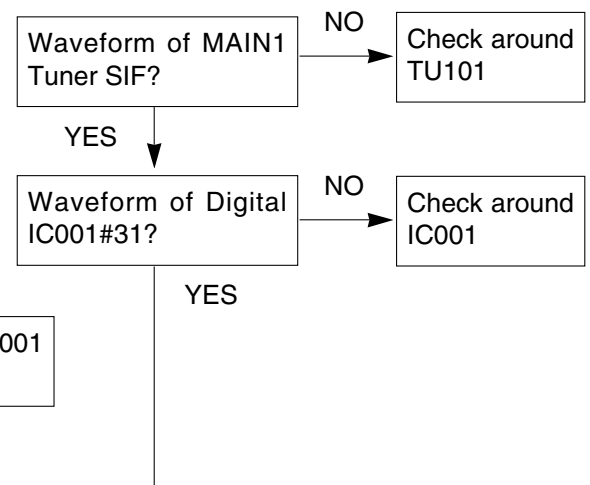


## 2. No Sound (picture ok)

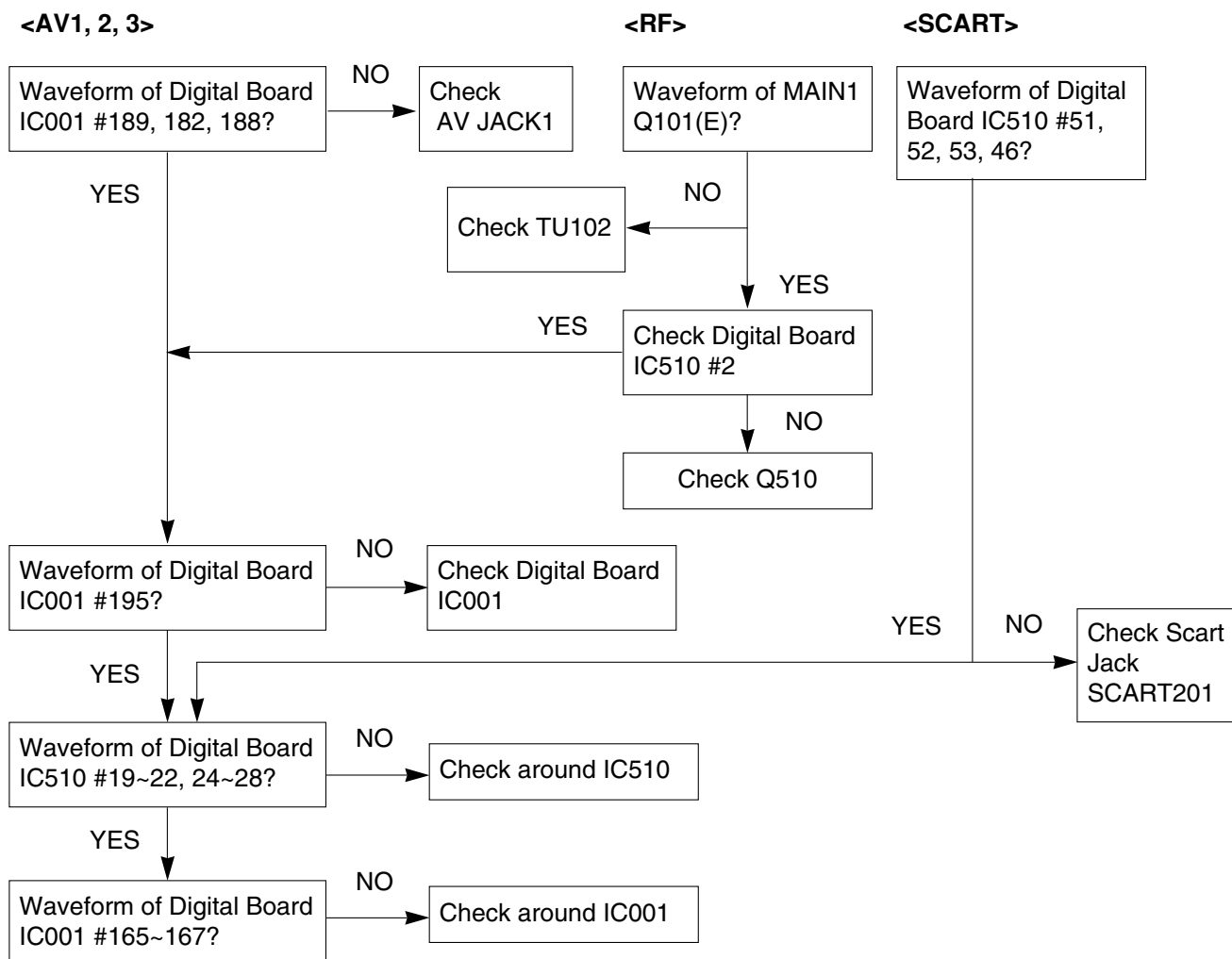
### <AV1, 2, 3, Component 1 INPUT>



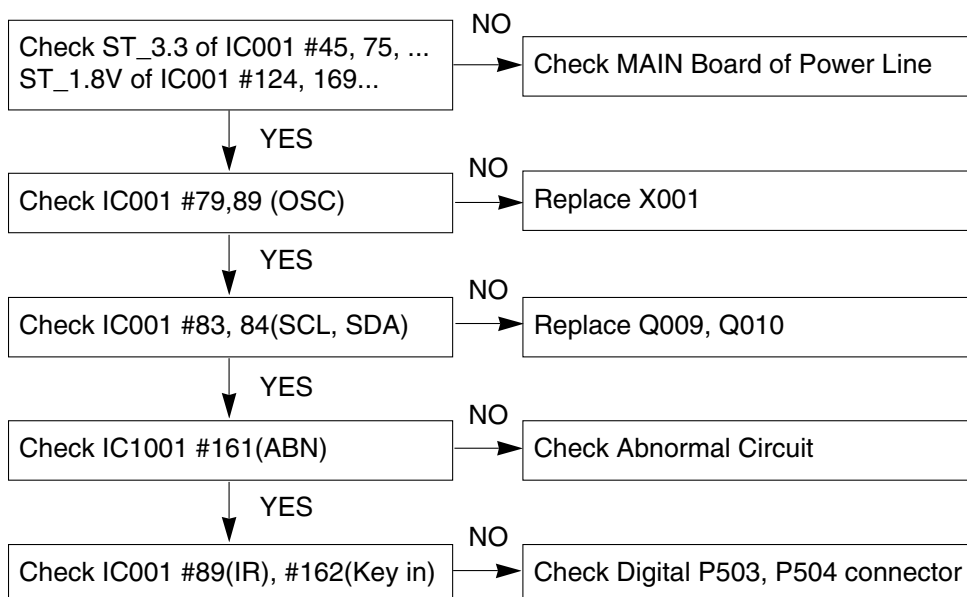
### <RF>



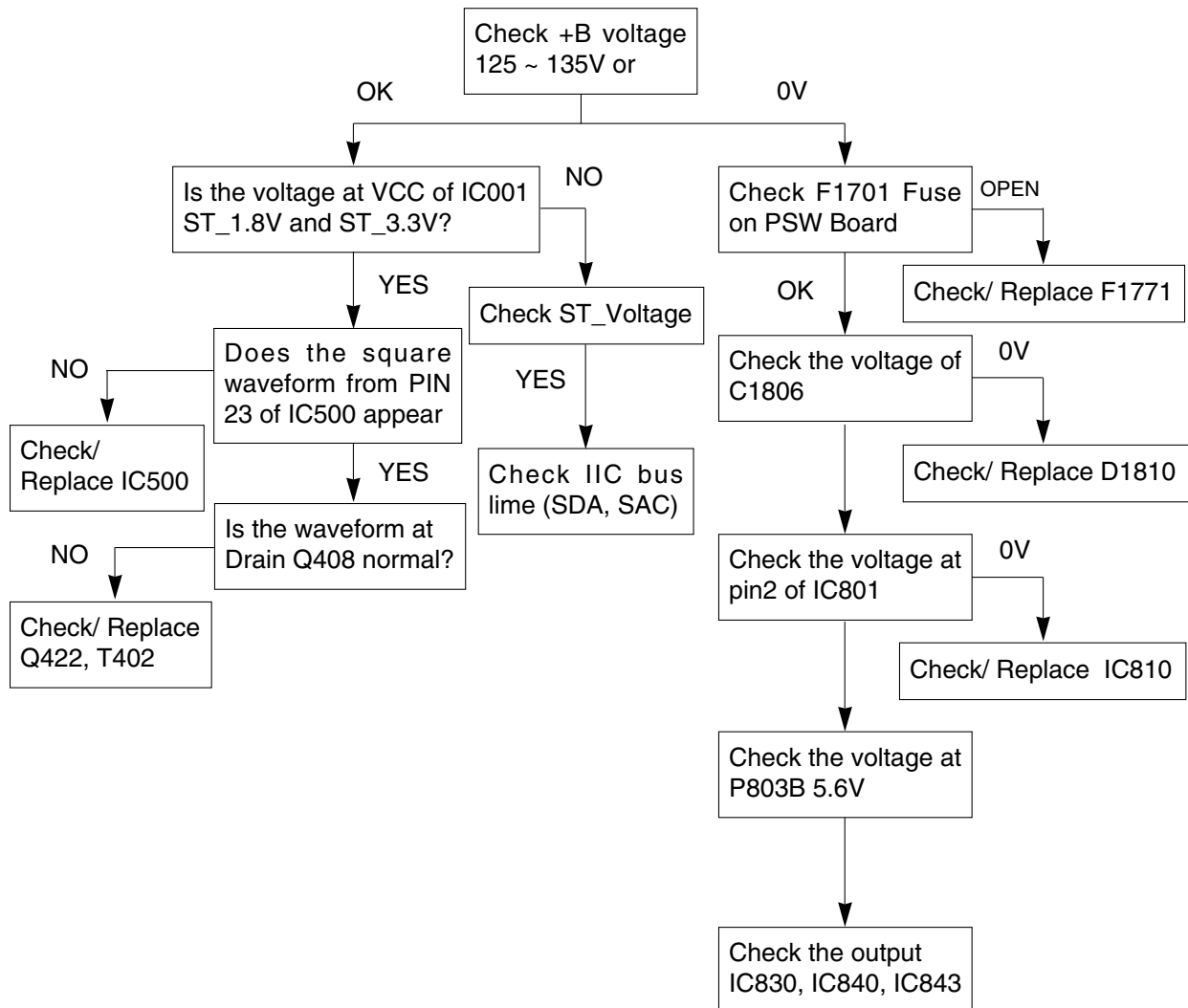
### 3. No PIP



### 4. No power

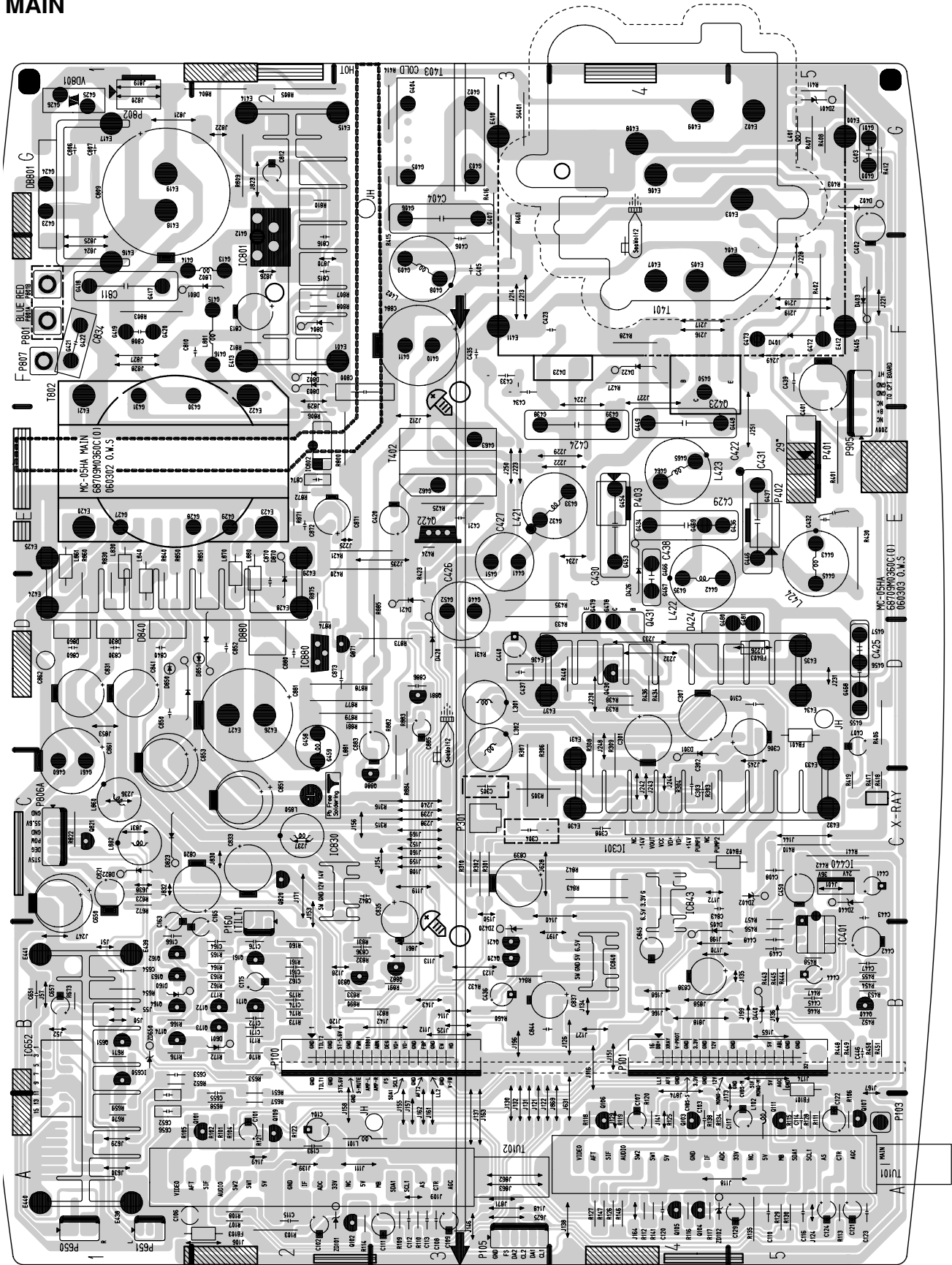


## 5. No raster



# PRINTED CIRCUIT BOARD

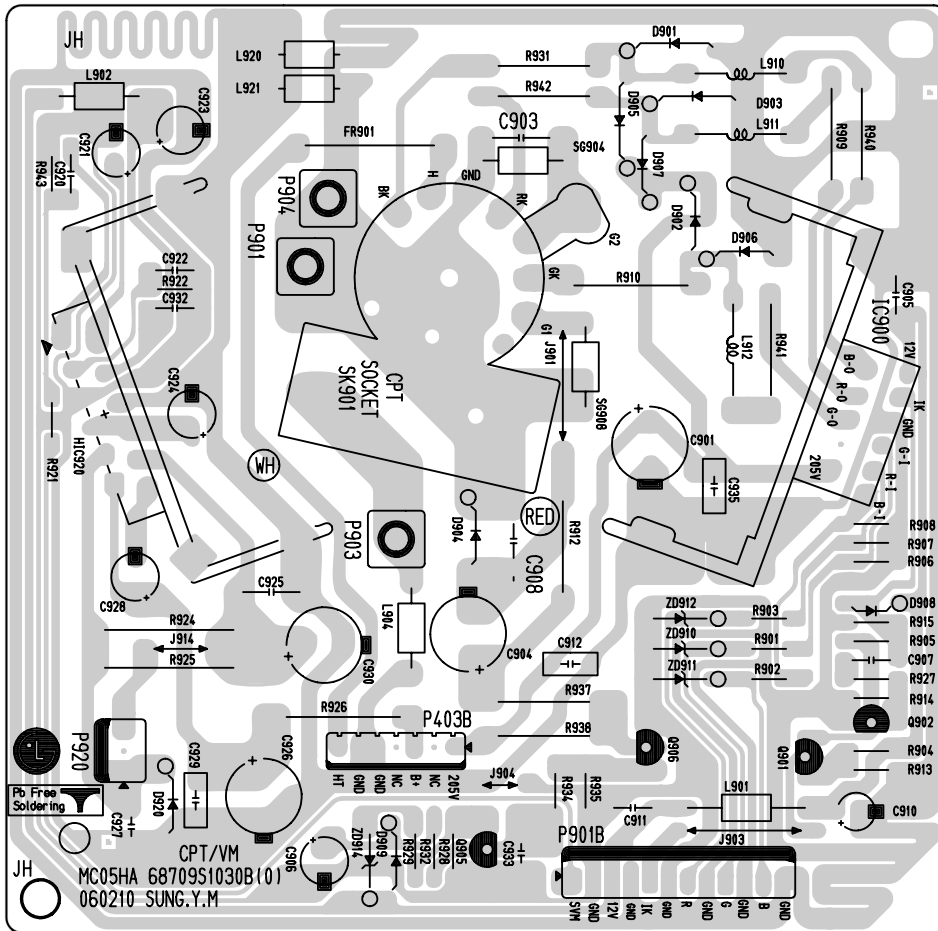
MAIN



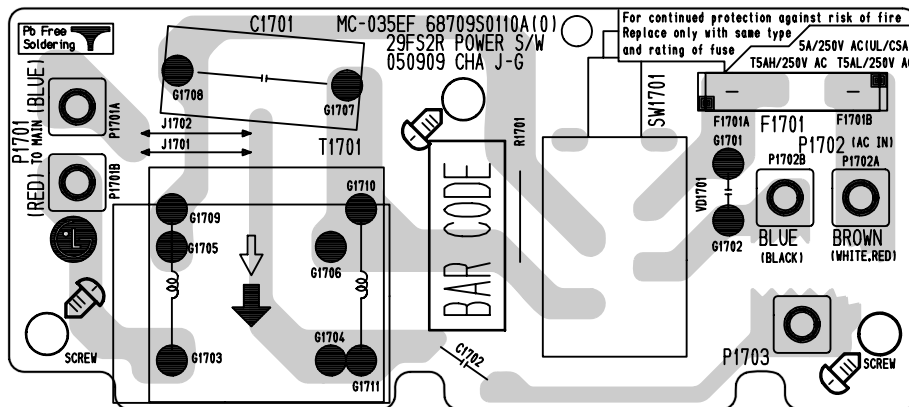




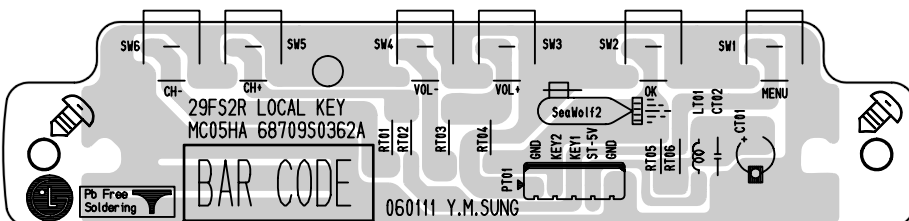
## CPT



## POWER S/W



## CONTROL

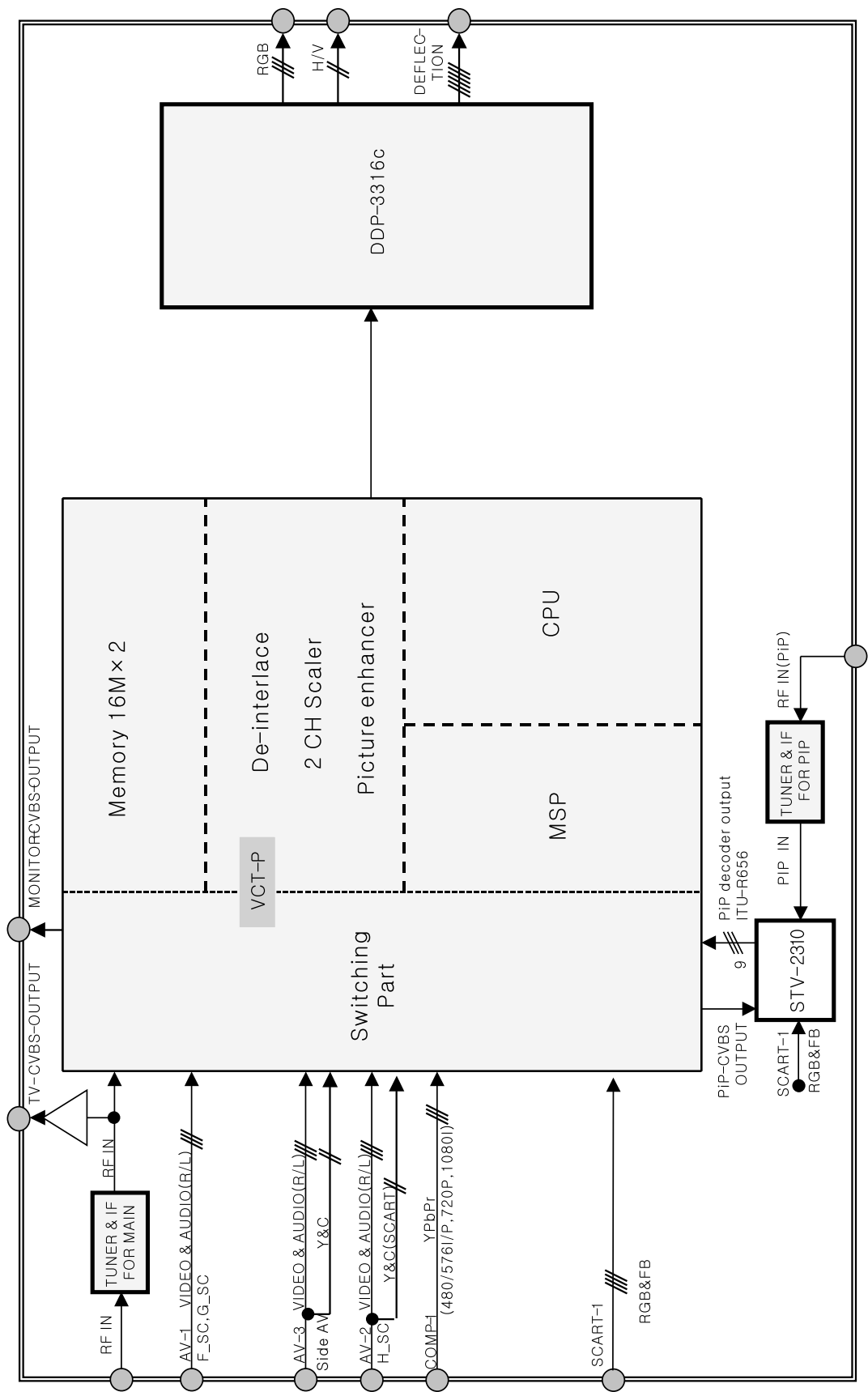


## 1. MAIN

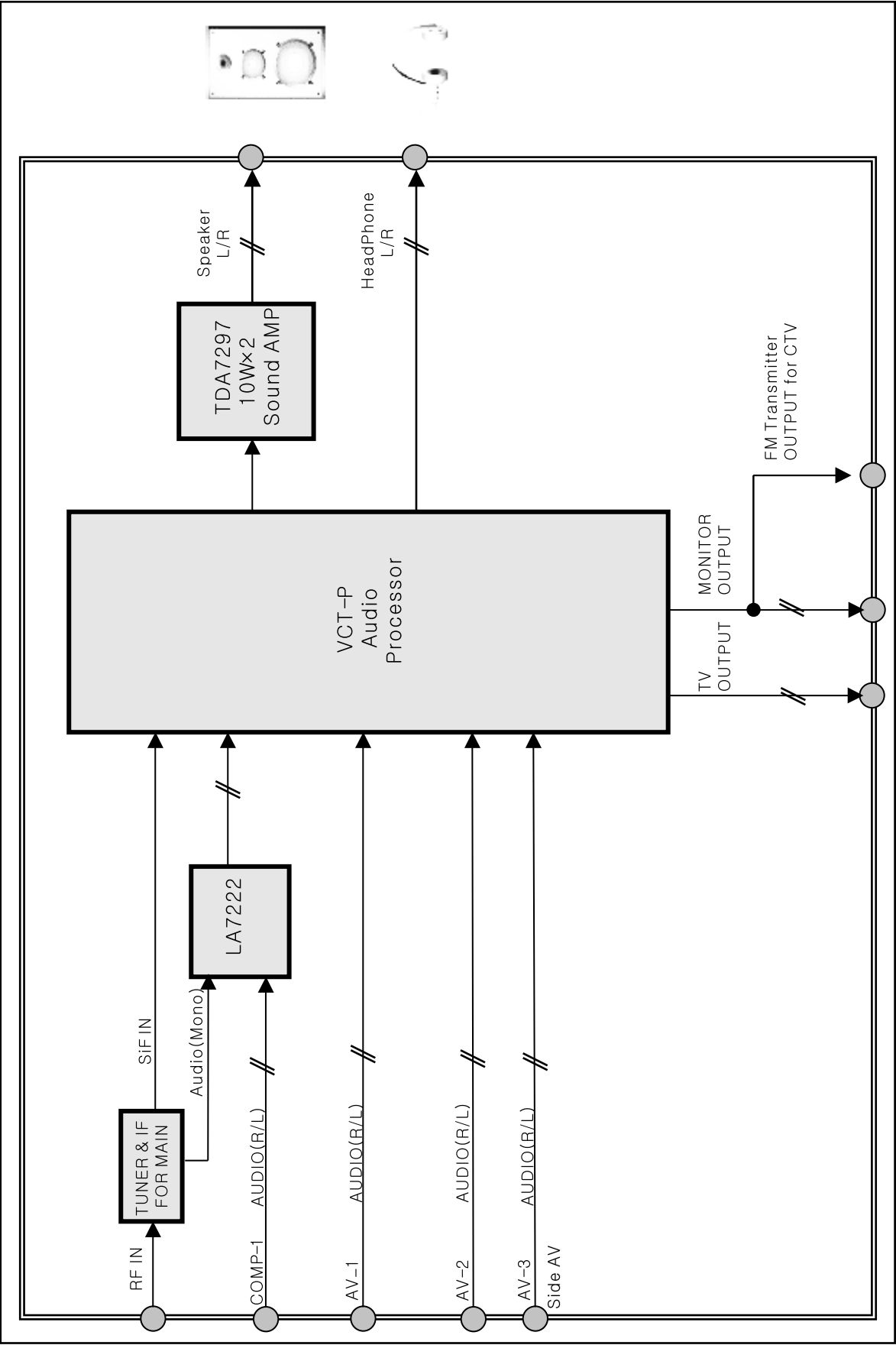




2. VCT-P(Video)

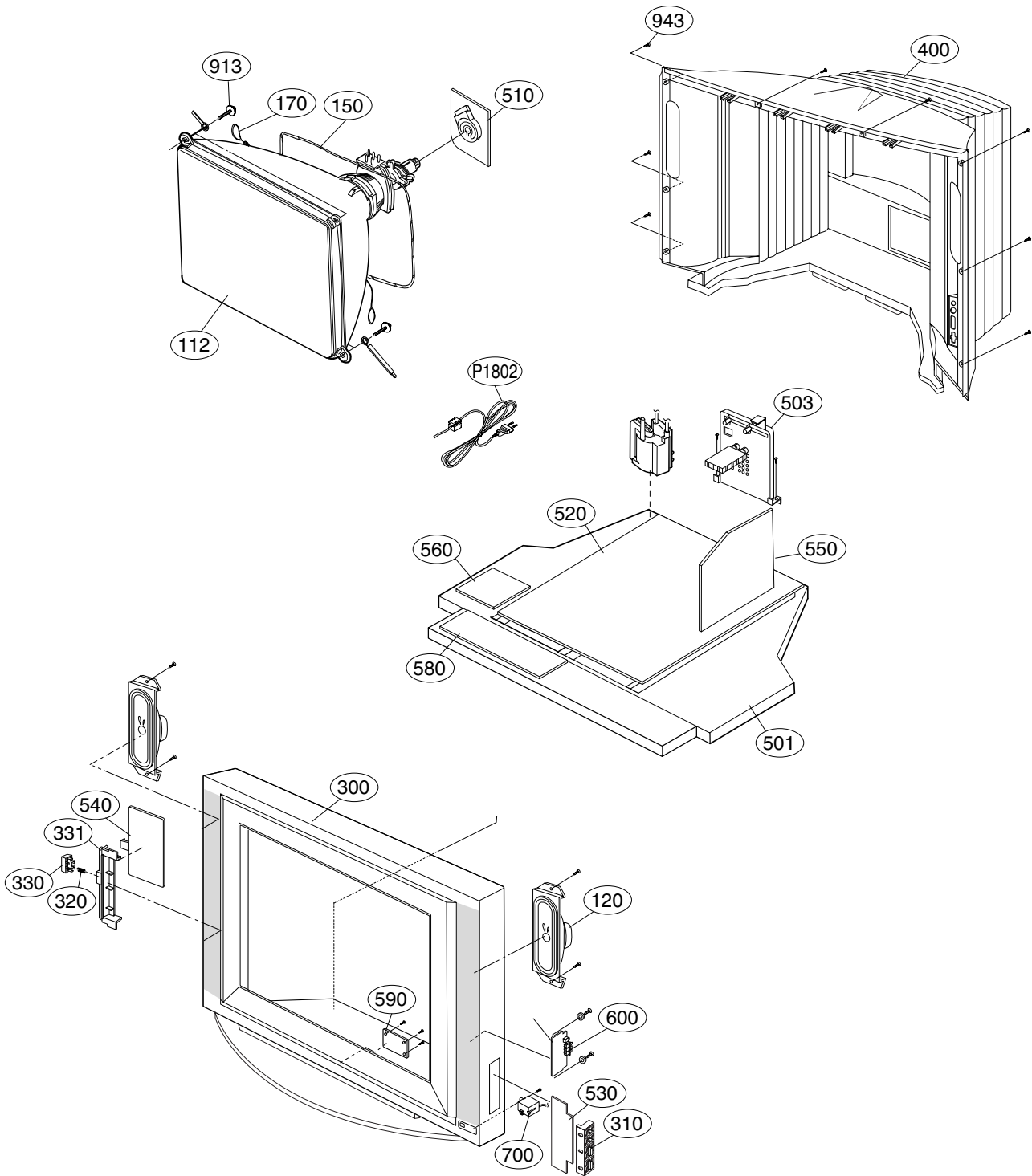


3. VCT-P(Audio)





## 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	6335932003B	CPT,ITC W76ERS270XV1 L 32INCH SUPER-SLIM 0.50G 4/3
120	6400VA0025F	Speaker,Fullrange C163A01K1452 ESTEC 8OHM 15/20W 86DB OTHERS 32FS2D
	EAB30829501	Speaker,Fullrange C163A01K1452. ND 15W 8OHM 86DB 110HZ 193 X 57 X 44.4 LUG
 150	6140VC2006S	Coil,Degaussing 17OHM 102OHM AL 80T 380T 0.8mM 0.25mM SQUARE/CIRCLE
	EAP30771101	Coil,Degaussing 17.0/102ohm AL 80/380Ts 0.80mm SQUARE/CIRCLE 32INCH
 170	6868900001A	Drawing,Assembly EARTH SPRING 32INCH 144T 32FS1D
 300	3091V00847V	Cover Assembly, 32FS2AMB-TE MC05HA 32" AMELLAX
	3091V00847X	Cover Assembly, 32FS2ANB-TE MC05HA 32" SY CKD
310	5020V01110B	Button, CONTROL 29FS4 ABS, HF-380 6KEY 7227S00117A
320	320-062E	Spring, CUTTING STSC304 KNOB
330	5020V01111B	Button, POWER 29FS4 ABS, HF-380 1KEY 7227S00117A
331	4810V01272A	Bracket, MOLD ABS CONTROL 32FS2D AC05MA ABS, HF-380
 400	3809V00607S	Cover Assembly, 32FS2ANB-TE MC05HA 32" SY CKD
	3809V00607T	Cover Assembly, 32FS2ANB-ZE MC05HA 32" SET(CIS)
501	4810900043B	Bracket, MOLD HIPS MAIN 32FS2 MC035E HIPS 407AF 100HZ
	4810900043F	Bracket, MAIN 32FS2 MC035E HIPS 40AF 100HZ,C/SKD
503	4811900062B	Bracket Assembly, REAR AV 29FS2RNX-TE MC05HA AEULLKX(2SCART)
	4811900068C	Bracket Assembly, REAR AV 29FS2ANB-ZE MC05HA LGESY
510	68719SM271B	PCB Assembly,Sub SUB M.I MC05HA 32 INCH CPT BOARD ASSY
	68719SMN03B	PCB Assembly, SUB M.I MC05HA 32FS2ANB-TE . CPT BOARD(32 INCH) LGESY CKD
520	68719MM251C	PCB Assembly,Main MAIN1 M.I MC05HA 32FS2ANB-ZE .ARULLA .
	68719MMX66N	PCB Assembly, MAIN1 M.I MC05HA 32FS2ANX-ZE. KRULLEY LGESY
530	68719SM275A	PCB Assembly,Sub SUB M.I MC05HA (LOCAL-KEY) 29FS2
	68719SMN06B	PCB Assembly, SUB M.I MC05HA 32FS2 . CONTROL LGESY CKD
540	68719PM264A	Hand Insert PCB Assembly,Power POWER M.I MC05HA 29FS2ANB-TE
	68719SM274A	PCB Assembly,Sub POWER M.I MC05HA (POWER S/W) 29FS2 174-322G
550	68719SM361C	PCB Assembly, SUB M.I MC05HA (DIGITAL) 32FS2ANB-ZE.ARULLA .
	68719SMN02P	PCB Assembly, SUB M.I MC05HA 32FS2ANX-ZE. KRULLEY DIGITAL LGESY
560	EBR30817601	PCB Assembly, SUB M.I MC05HA 29FS2/4 . (HARMONICS)
580	68719SM272C	PCB Assembly,Sub SUB M.I MC05HA (ST-BY) NARROW+W/ 1W
	68719SMN04A	Hand Insert PCB Assembly,Sub SUB M.I MC05HA 29FS2ANB-TE KMALLEY
590	68719SM276A	PCB Assembly,Sub SUB M.I MC05HA (LED+PRE-AMP) 29FS2
	68719SMN07A	Hand Insert PCB Assembly,Sub SUB M.I MC05HA 29FS2ANB-TE
600	68719SM273B	PCB Assembly,Sub SUB M.I MC05HA (SIDE-AV) 32FS2/4
	68719SMN05B	PCB Assembly, SUB M.I MC05HA (32 INCH) . SIDE A/V LGESY CKD
700	6500VR0003B	Sensor,Iris Recognition YGCA-T070A 9V SIP ST 3P
913	FAB30021506	Screw Assembly, FAB30021506 TAPTITE P TYPE D7.0 L45.0 RUBBER(D20, T3.2)
943	FAB30006309	Screw,Taptite, 1SZZ9PB012A TH + P 4MM 16MM MSWR10 FZB
 P1802	174-322G	Power Cord Assembly, KJP-140/BUSH/HOU',KJ-0201/2X0.75MM2/NH/BK/2.4M

# REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
<b>IC</b>		
HIC920	0IZZVF0018C	STK396-130 STK396-130 SANYO DIP 11PIN
IC001	0IPRP00610B	VCT6773G-FA-B2-000 1.8TO8.0 0A 20.25MHZ
IC002	0IFA752700A	KA75270Z 2.55TO2.85V - 200MW TO92 R/TP
IC003	0IAL241610B	AT24C16A-10PI-2.7 16KBIT 2KX8BIT 2.7VTO5.5V
IC007	0IFA754207A	KA75420ZTA(KA7542ZTA) 0.3TO15V 4.2V 200MW
IC1801	0IPMGSK019A	STR-A6151 230V_85TO264V DIP ST 8P
IC1802	0ILI817000G	Photo,Coupler LTV-817M-VB 6V 35V
IC201	0IMCRMZ001A	MP1583DN-Z,LF 4.75TO23V 21V - SOIC
IC202	0IPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V - SOT223
IC203	0IPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V - SOT223
IC301	0ISA784600A	LA7846 16.0VTO38.0V - 20W - SIP ST 10P
IC401	0IKE358000A	KIA358P 3TO36V_+1.5TO+18V 7mV
IC500	0IPRP00611A	DDP3316C,LF 4.75VTO5.25V,3.15VTO3.45V
IC510	0IPRPSG028B	STV2310SD 3.0VTO3.6V,1.6VTO2.0V 37MHZ
IC511	0IMCRSG011A	LD1086V18 3.4TO18V 1.8V - PO R/TP 11P
IC512	0ISA722200C	LA7222-(E),LF 8TO13V 350MW SIP
IC650	0IFA754207A	KA75420ZTA(KA7542ZTA) 0.3TO15V 4.2V
IC652	0ISG729700A	TDA7297 6.5TO18V - 0.3% 10W 33W 40DB
IC801	0IPMG00006A	STR-F6458(LF1352) 14.4TO17.6V_9TO11V
IC802	0ILI817000G	Photo,Coupler LTV-817M-VB 6V 35V
IC822	0IMCRKE018A	KIA78R05API 6TO12V 5V 1.5W TO220IS ST 4P
IC830	0IMCRKE003B	KIA78R12API 13TO29V 12V 1.5W TO220IS ST 4P
IC843	0ISG111733B	LD1117V33C 4.75TO10V 3.3V 12W TO220 ST 3P
IC880	0ISK125120A	SE125N(LF12) 124.4TO126V ST 3P
IC900	0IPRP00031A	LM2423 100TO230V 7TO13V 125V 205V
<b>TRANSISTOR</b>		
Q001	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q001	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q002	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA
Q003	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA
Q004	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q005	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q008	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q009	0TFRH80001A	RK7002T116 N-CHANNEL MOSFET 60V +-20V
Q010	0TFRH80001A	RK7002T116 N-CHANNEL MOSFET 60V +-20V
Q011	0TR102009AJ	KRC102S NPN 30V 0V 50V 100MA 500NA
Q012	0TR102009AJ	KRC102S NPN 30V 0V 50V 100MA 500NA
Q013	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA
Q101	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50V
Q102	0TR534309AA	2SC5343Y NPN 5V 60V 50V 150MA 100NA
Q103	0TR534309AA	2SC5343Y NPN 5V 60V 50V 150MA 100NA
Q104	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50V
Q105	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q106	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50V
Q107	0TR534309AA	2SC5343Y NPN 5V 60V 50V 150MA 100NA
Q111	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q161	0TR534309AA	2SC5343Y NPN 5V 60V 50V 150MA 100NA
Q162	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50V
Q163	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50V

LOCA. NO	PART NO	DESCRIPTION
Q164	0TR534309AA	2SC5343Y NPN 5V 60V 50V 150MA 100NA
Q171	0TR534309AA	2SC5343Y NPN 5V 60V 50V 150MA 100NA
Q172	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50V
Q173	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50V
Q174	0TR534309AA	2SC5343Y NPN 5V 60V 50V 150MA 100NA
Q1801	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q202	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q205	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q420	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q421	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50V
Q422	0TF200000AA	IRFIBC20G N-CHANNEL MOSFET 600V +-20V
Q423	0TRTH10007A	2SC5858 NPN 5V 1.7KV 750V 22A 1MA
Q430	0TR127409AB	KTA1274-Y PNP -5V -80V -80V -0.4A
Q431	0TRKE10013A	KTD1047 NPN 6V 160V 140V 12A 100UA
Q500	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA
Q501	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA
Q502	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q503	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q504	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA
Q505	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q506	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q507	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q508	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50V -0.15A
Q509	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA
Q510	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 150MA 100NA
Q651	0TR534309AA	2SC5343Y NPN 5V 60V 50V 150MA 100NA
Q820	0TR322709AA	KTC3227 NPN 5V 80V 80V 400MA 100NA
Q821	0TR322709AA	KTC3227 NPN 5V 80V 80V 400MA 100NA
Q871	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q880	0TR421009CA	BF421 PNP -5V -0.3KV -0.3KV -0.05A
Q881	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q901	0TR126609AA	KTA1266-Y(KTA1015) PNP -5V -50V -50V
Q902	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q905	0TR319809AA	KTC3198(KTC1815) NPN 5V 60V 50V 150MA
Q906	0TR233009CA	KSC2330Y NPN 7V 300V 300V 100MA 100NA
<b>DIODE</b>		
D160	0DD414809ED	1N4148 1V 100V 150MA 500MA 4NSEC 500MW
D1801	0DD260000BB	D2SBA60(STK) 600V 1.05V 10UA 60A SIP
D1802	0DD414809ED	1N4148 1V 100V 150MA 500MA 4NSEC 500MW
D1803	0DD414809ED	1N4148 1V 100V 150MA 500MA 4NSEC 500MW
D1804	0DR010009AA	EG01C 1KV 3.3V 50UA 10A 100NSEC E0
D1805	0DD100009AM	EU1ZV(1) 200V 2.5V 10UA 15A 400NSEC E1
D1806	0DR100009DA	RGP10J 600V 1.3V 5UA 30A 250NSEC DO41
D201	0DRON00268A	MBRS190T3G 750MV 90V 2A - SMB R/TP
D202	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 150MW
D203	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 150MW
D204	0DD060009AC	TVR06J 600V 1400MV 10UA 25A 300NSEC
D301	0DR150009EA	RGP15J 600V 1300MV 5UA 50A 250NSEC
D401	0DD300009AC	RU3AMV(1) 600V 1.1V 10UA 50A 400NSEC
D402	0DD100009AE	RU1A 600V 2500MV 10UA 15A 400NSEC R1
D403	0DD060009AC	TVR06J 600V 1400MV 10UA 25A 300NSEC

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
D405	ODD414809ED	1N4148 1V 100V 150MA 500MA 4NSEC 500MW
D420	ODD400509AA	1N4005 600V 1.1V 5UA 30A - DO41
D421	ODD400509AA	1N4005 600V 1.1V 5UA 30A - DO41
D422	ODD140009AA	EK14 550MV 40V 1.5A - DO41
D423	ODR500000CA	FMQ-G5GS 2.7V 1.7KV 10A 50A 500NSEC
D424	ODR360000AA	FMG-36S 600V 2V 1MA 80A 100NSEC FM80
D500	ODS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 150MW
D502	ODS181009AA	KDS181 1.2V 85V 300MA 2A 4NSEC 150MW
D503	ODS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 150MW
D504	ODD410009AA	BAT41 1V 100V 100MA - 2pF 100MW DO35
D601	ODD414809ED	1N4148 1V 100V 150MA 500MA 4NSEC 500MW
D802	ODD100009AM	EU1ZV(1) 200V 2.5V 10UA 15A 400NSEC E1
D803	ODD100009AM	EU1ZV(1) 200V 2.5V 10UA 15A 400NSEC E1
D804	ODD414809ED	1N4148 1V 100V 150MA 500MA 4NSEC 500MW
D822	ODD060009AC	TVR06J 600V 1400MV 10UA 25A 300NSEC
D830	ODRTW00141A	SFAF504G 200V 975MV 10UA 125A 35NSEC
D840	ODRTW00141A	SFAF504G 200V 975MV 10UA 125A 35NSEC
D850	ODR150009EA	RGP15J 600V 1300MV 5UA 50A 250NSEC DO15
D851	ODR150009EA	RGP15J 600V 1300MV 5UA 50A 250NSEC DO15
D860	ODRTW00141A	SFAF504G 200V 975MV 10UA 125A 35NSEC
D870	ODD060009AC	TVR06J 600V 1400MV 10UA 25A 300NSEC DO41
D880	ODR260001AA	FMG-26S 200V 2.2V 500UA 50A 100NSEC
D901	ODR400409AB	UF4004 400V 1V 10UA 30A 50NSEC DO204
D902	ODR400409AB	UF4004 400V 1V 10UA 30A 50NSEC DO204
D903	ODR400409AB	UF4004 400V 1V 10UA 30A 50NSEC DO204
D904	ODR140049AC	1N4004A 500V 1100MV 10UA 30A - DO41
D905	ODR400409AB	UF4004 400V 1V 10UA 30A 50NSEC DO204
D906	ODR400409AB	UF4004 400V 1V 10UA 30A 50NSEC DO204
D907	ODR400409AB	UF4004 400V 1V 10UA 30A 50NSEC DO204
D908	ODS113379BA	1SS133 1200MV 90V 400MA 600MA 4NSEC
D909	ODD414809ED	1N4148 1V 100V 150MA 500MA 4NSEC 500MW
D920	ODD060009AC	TVR06J 600V 1400MV 10UA 25A 300NSEC DO41
DB801	ODRTW00131C	TS6P05G 600V 1V 5UA 150A TS6P ST 4P 4
ZD001	ODZRM00178A	UDZS5.1B 5.1V 4.98TO5.2V 80OHM 200MW
ZD002	ODZRM00178A	UDZS5.1B 5.1V 4.98TO5.2V 80OHM 200MW
ZD101	ODZ330009BA	HZT33 33V 31TO35V 25OHM 200MW DO35
ZD102	ODZ330009BA	HZT33 33V 31TO35V 25OHM 200MW DO35
ZD1201	ODZ620009BB	MTZJ6.2B 6.2V 5.96TO6.27V 30OHM 500MW
ZD1202	ODZ620009BB	MTZJ6.2B 6.2V 5.96TO6.27V 30OHM 500MW
ZD1801	ODZ330009CC	MTZJ3.3B 3.3V 3.32TO3.5V 120OHM 500MW
ZD1802	ODZ560009CF	MTZJ5.6B 5.6V 5.45TO5.73V 40OHM 500MW
ZD202	ODZ820009BF	GDZJ8.2B 8.2V 7.78TO8.19V 20OHM 500MW
ZD401	ODZ120009BG	GDZJ12B 12V 11.44TO12.03V 30OHM 500MW
ZD402	ODZ120009BG	GDZJ12B 12V 11.44TO12.03V 30OHM 500MW
ZD420	ODZ510009AK	GDZJ5.1B 5.1V 4.94TO5.2V 80OHM 500MW
ZD440	ODZ270009GE	MTZJ27D 27V 26.29TO27.64V 45OHM 500MW
ZD500	ODZ910009BD	GDZJ9.1B 9.1V 8.57TO9.01V 25OHM 500MW
ZD650	ODZ910009AJ	MTZJ9.1B 9.1V 8.57TO9.01V 20OHM 500MW
ZD914	ODZ910009BD	GDZJ9.1B 9.1V 8.57TO9.01V 25OHM 500MW
<b>CAPACITOR</b>		
C002	OCE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA

LOCA. NO	PART NO	DESCRIPTION
C003	OCE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C005	OCE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C011	OCE106DF618	SMS5. 0TP16VB10M 10uF 20% 16V 72MA
C033	OCE105DK618	EGR105M050T1G1C11G 1uF 20% 50V 10MA
C039	OCE335DK618	SMS5.0TP50VB3.3M 3.3uF 20% 50V 42MA
C041	OCE107DF618	EGR107M016T1G1C11G 100uF 20% 16V 160MA
C054	OCE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C056	OCE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V 130MA
C059	OCE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C062	OCE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C071	OCE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C072	OCE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C074	OCE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C077	OCE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C097	OCE105DK618	EGR105M050T1G1C11G 1uF 20% 50V 10MA
C097	OCE335DK618	SMS5.0TP50VB3.3M 3.3uF 20% 50V 42MA
C101	OCE106DF618	SMS5. 0TP16VB10M 10uF 20% 16V 72MA
C102	OCE106DK618	SMS5.0TP50VB10M 10uF 20% 50V 72MA
C103	OCN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C104	OCE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 255MA
C107	OCE106DF618	SMS5. 0TP16VB10M 10uF 20% 16V 72MA
C108	OCN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C109	OCE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50MA
C110	OCX4700K409	RH UP050SL470J-B-B 47pF 5% 50V S2L
C111	OCE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 255MA
C114	OCN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C115	OCN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C116	OCX4700K409	RH UP050SL470J-B-B 47pF 5% 50V S2L
C117	OCE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 255MA
C120	OCN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C1204	OCN1040K949	CH UP050 F104Z-B-B Z 100nF
C1208	OCN2210K519	RH UP050 B221K-B-B 220pF 10% 50V Y5P
C121	OCE474DK618	EGR474M050T1G1C11G 470nF 20% 50V 5MA
C1210	OCE106DK618	SMS5.0TP50VB10M 10uF 20% 50V 72MA
C1211	OCN2210K519	RH UP050 B221K-B-B 220pF 10% 50V Y5P
C1212	OCE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50MA
C1213	OCE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50MA
C122	OCE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 255MA
C123	OCN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C124	OCE106DF618	SMS5. 0TP16VB10M 10uF 20% 16V 72MA
C129	OCE106DK618	SMS5.0TP50VB10M 10uF 20% 50V 72MA
C161	OCN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5P
C162	OCN2210K519	RH UP050 B221K-B-B 220pF 10% 50V Y5P
C163	OCE476DF618	SMS5.0TP16VB47M 47uF 20% 16V -
C164	OCN1040K949	CH UP050 F104Z-B-B Z 100nF
C165	OCE105DK618	EGR105M050T1G1C11G 1uF 20% 50V 10MA
C166	OCN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C171	OCN1010K519	RH UP050 B101K-B-B 100pF 10% 50V Y5P
C172	OCN2210K519	RH UP050 B221K-B-B 220pF 10% 50V Y5P
C174	OCN1040K949	CH UP050 F104Z-B-B Z 100nF
C175	OCE105DK618	EGR105M050T1G1C11G 1uF 20% 50V 10MA
C176	OCN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R

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

LOCA. NO	PART NO	DESCRIPTION
C1801	0CQZVBK002C	PCX2 335 91592 0.22uF 10% 275V MPP
C1802	0CQZVBK002C	PCX2 335 91592 0.22uF 10% 275V MPP
C1803	0CQZVBK002A	PCX2 335 M9729 0.1uF 20% 275V MPP
C1804	0CK47101515	DCH471K26Y5PN6FJ5A 470pF 10% 1000V
C1805	0CK47101515	DCH471K26Y5PN6FJ5A 470pF 10% 1000V
C1806	0CE3366W650	SG2H336M1631MSS 33uF 20% 500V
C1807	0CK10201515	DCH102K34Y5PN6FJ5A 1nF 10% 1000V Y5P
C1808	0CK10201515	DCH102K34Y5PN6FJ5A 1nF 10% 1000V Y5P
C1809	0CK22202510	DCH222K53Y5PP7DJ0A 2.2nF 10% 2000V Y5P
C1810	0CE476DK618	SMS5.0TP50VB47M 47uF 20% 50V 181MA
C1811	0CK47101515	DCH471K26Y5PN6FJ5A 470pF 10% 1000V
C1812	0CN8210K519	RH UP050 B821K-B-B 820pF 10% 50V Y5P
C1813	181-120K	SDE222M16FS1 2.2nF 20% 4000V Y5U
C1815	0CE477BJ618	ESM477M035T1G5H20G 470uF 20% 35V 610MA
C1817	0CN1020K519	RH UP050 B102K-B-B 1nF 10% 50V Y5P
C1818	0CE476DK618	SMS5.0TP50VB47M 47uF 20% 50V 181MA
C200	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50MA
C201	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50MA
C213	0CE227DF618	EGR227M016T6G1G11G 220uF 20% 16V 265MA
C231	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50MA
C232	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50MA
C233	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50MA
C234	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50MA
C235	0CE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 255MA
C236	0CE107DF618	EGR107M016T1G1C11G 100uF 20% 16V 160MA
C244	0CE107DF618	EGR107M016T1G1C11G 100uF 20% 16V 160MA
C248	0CE337DD618	SMS5.0TP10VB330M 330uF 20% 10V 386MA
C251	0CE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 255MA
C252	0CE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 255MA
C253	0CE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C254	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C255	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C257	0CE227DF618	EGR227M016T6G1G11G 220uF 20% 16V 265MA
C259	0CE226DF618	EGR226M016T1G1C11G 22uF 20% 16V 75MA
C262	0CE226DF618	EGR226M016T1G1C11G 22uF 20% 16V 75MA
C266	0CE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C267	0CE226DF618	EGR226M016T1G1C11G 22uF 20% 16V 75MA
C268	0CE226DF618	EGR226M016T1G1C11G 22uF 20% 16V 75MA
C301	0CE108BH618	ESM108M025T1G5K20G 1000uF 20% 25V 715MA
C302	0CN1020K519	RH UP050 B102K-B-B 1nF 10% 50V Y5P
C303	0CN1020K519	RH UP050 B102K-B-B 1nF 10% 50V Y5P
C304	0CQ3341N401	HPE 2A 334J BK 330nF 5% 100V PE -40TO+85C
C305	0CQ1541N501	HPE 2A 154K BK 150nF 10% 100V PE -40TO+85C
C306	0CE227BK618	ESM227M050T1G5H17G 220uF 20% 50V 400MA
C307	0CE108BH618	ESM108M025T1G5K20G 1000uF 20% 25V 715MA
C308	0CN1020K519	RH UP050 B102K-B-B 1nF 10% 50V Y5P
C310	0CN1020K519	RH UP050 B102K-B-B 1nF 10% 50V Y5P
C401	0CE226DR630	EGR226M250K6G1H20G 22uF 20% 250V 230MA
C402	0CE107DK618	EGR107M050T6G1G11G 100uF 20% 50V 270MA
C403	181-009V	PPN473K2DH 47nF 10% 200V PP -40TO+85C
C404	181-014Z	MPPS332J3VD 3.3nF 5% 1.6KV MPP -40TO+85C
C405	0CQ1521N509	PEI152K2AT 1.5nF 10% 100V PE -40TO+85C

LOCA. NO	PART NO	DESCRIPTION
C406	0CQ1521N509	PEI152K2AT 1.5nF 10% 100V PE -40TO+85C
C407	0CE106DK618	SMS5.0TP50VB10M 10uF 20% 50V 72MA
C408	0CN1020K519	RH UP050 B102K-B-B 1nF 10% 50V Y5P
C420	0CE107BK618	ESM107M050T6G5G11G 100uF 20% 50V 220MA
C421	0CK3320W515	DCM332K39Y5PL6FJ5A 3.3nF 10% 500V Y5P
C422	181-011B	MPPS102J3VD 1nF 5% 1.6KV MPP -40TO+85C
C423	181-091U	DG3DHR221K825 220pF 10% 2000V Y5R
C424	0CF95213CFH	9.5n 5% 1600V MPP -25TO+105C
C425	181-010A	PPN223J2GH 22nF 5% 400V PP -40TO+85C
C426	0CE685BK652	KM5.0MC50VBBP-S6.8M 6.8uF 20% 50V 44MA
C427	0CE685BK652	KM5.0MC50VBBP-S6.8M 6.8uF 20% 50V 44MA
C429	0CF1541U4FG	150nF 5% 400V25TO+105C NON-IND
C430	181-013R	MPP474J2GD 470nF 5% 400V MPP -40TO+85C
C431	181-013M	MPP224J2GD 220nF 5% 400V MPP -40TO+85C
C432	181-033V	DCH222K39Y5PN73K0A 2.2nF 10% 1000V Y5P
C433	181-091W	LYRM27471KX1A 470pF 10% 2000V Y5R
C434	181-091W	LYRM27471KX1A 470pF 10% 2000V Y5R
C435	0CQ5621N419	TX2A562J06000AN 5.6nF 5% 100V PE
C436	0CE106BF618	ESM106M016T1G5C11G 10uF 20% 16V 45MA
C437	0CQ1041N509	PEI104K2AT 100nF 10% 100V PE -40TO+85C
C438	181-013L	MPP803J2GH 80nF 5% 400V MPP -40TO+85C
C440	0CE106BK618	ESM106M050T1G5C11G 10uF 20% 50V 55MA
C442	0CE107DJ618	SMS5.0TP35VB100M 100uF 20% 35V 291MA
C443	0CK1030K945	DCT103Z26Y5VF6FJ5A 10nF -20TO+80% 50V
C444	0CE226DF618	EGR226M016T1G1C11G 22uF 20% 16V 75MA
C445	0CN6810K519	RH UP050 B681K-B-B 680pF 10% 50V Y5P
C448	0CN1020K519	RH UP050 B102K-B-B 1nF 10% 50V Y5P
C449	0CN1020K519	RH UP050 B102K-B-B 1nF 10% 50V Y5P
C503	0CE107DF618	EGR107M016T1G1C11G 100uF 20% 16V 160MA
C507	0CE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C513	0CE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 255MA
C517	0CE475DK618	EGR475M050T1G1C11G 4.7uF 20% 50V 50MA
C520	0CE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 255MA
C527	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C532	0CE107DF618	EGR107M016T1G1C11G 100uF 20% 16V 160MA
C546	0CE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C551	0CE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C559	0CE106DF618	SMS5.0TP16VB10M 10uF 20% 16V 72MA
C561	0CK224DH56A	0805B224K250CT 220nF 10% 25V X7R
C562	0CE106DF618	SMS5.0TP16VB10M 10uF 20% 16V 72MA
C574	0CE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C579	0CE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C580	0CE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C583	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C584	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C589	0CE476DD618	EGR476M010T1G1C11G 47uF 20% 10V 105MA
C594	0CE476DH618	SMS5.0TP25VB47M 47uF 20% 25V 131MA
C650	0CE108DH618	SMS5.0TP25VB1000M 1000uF 20% 25V 1.34A
C651	0CN2230H949	RH TP050 F223Z-B-B 22nF -20TO+80% 25V Y5V
C652	0CF2241L438	PCMT 365 76224 220nF 5% 63V MPE
C653	0CN3320F569	RH EP050 X332K-B-B 3.3nF 10% 16V X7R
C653	0CN6820F569	CH EP050 X682K-B-B Z 6.8nF 10% 16V X7R



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LOCA. NO	PART NO	DESCRIPTION
C654	0CN3320F569	RH EP050 X332K-B-B 3.3nF 10% 16V X7R
C655	0CN3320F569	RH EP050 X332K-B-B 3.3nF 10% 16V X7R
C655	0CN6820F569	CH EP050 X682K-B-B Z 6.8nF 10% 16V X7R
C656	0CF2241L438	PCMT 365 76224 220nF 5% 63V MPE
C657	0CE336DD618	EGR336M010T1G1C11G 33uF 20% 10V 85MA
C800	181-120N	SDE102M09FS1 1nF 20% 4000V Y5U
C806	0CK10201515	DCH102K34Y5PN6FJ5A 1nF 10% 1000V Y5P
C807	0CK10201515	DCH102K34Y5PN6FJ5A 1nF 10% 1000V Y5P
C809	181-001U	LTW477M450S1A5T50G 470uF 20% 450V 2.3A
C810	181-091C	DEHR33A471KN2A 470pF 10% 1000V Y5R
C811	181-014Y	MPPS152J3VD 1.5nF 5% 1.6KV MPP
C813	0CE227BJ618	ESM227M035T1G5H1CG 220uF 20% 35V 350MA
C815	0CK4710K515	DCT471K16Y5PF6FJ5A 470pF 10% 50V Y5P
C816	0CK1020K515	DCT102K20Y5PF6FJ5A 1nF 10% 50V Y5P
C820	0CE228DD618	EGR228M010T1G1H20G 2200uF 20% 10V 1A
C821	0CE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 255MA
C830	0CK4710W515	DCM471K20Y5PL6FJ5A 470pF 10% 500V Y5P
C831	0CE108BH618	ESM108M025T1G5K20G 1000uF 20% 25V 715MA
C833	0CE108DH618	SMS5.0TP25VB1000M 1000uF 20% 25V 1.34A
C834	181-120N	SDE102M09FS1 1nF 20% 4000V Y5U
C835	0CE108BF618	ESM108M016T1G5H20G 1000uF 20% 16V 645MA
C837	0CE108BF618	ESM108M016T1G5H20G 1000uF 20% 16V 645MA
C838	0CE108DD618	SMS5.0TP10VB1000M 1000uF 20% 10V 854MA
C839	0CE228BF618	ESM228M016T1G5K25G 2200uF 20% 16V 970MA
C840	181-091C	DEHR33A471KN2A 470pF 10% 1000V Y5R
C841	0CE228BF618	ESM228M016T1G5K25G 2200uF 20% 16V 970MA
C842	0CK1030K945	DCT103Z26Y5VF6FJ5A 10nF -20TO+80% 50V
C843	0CK1030K945	DCT103Z26Y5VF6FJ5A 10nF -20TO+80% 50V
C844	0CK1030K945	DCT103Z26Y5VF6FJ5A 10nF -20TO+80% 50V
C845	0CE227DD618	EGR227M010T1G1E11G 220uF 20% 10V 255MA
C850	0CK4710W515	DCM471K20Y5PL6FJ5A 470pF 10% 500V Y5P
C851	0CE108BH618	ESM108M025T1G5K20G 1000uF 20% 25V 715MA
C851	0CE4763F618	ESF476M016T1A5E05G 47uF 20% 16V 60MA
C852	0CK4710W515	DCM471K20Y5PL6FJ5A 470pF 10% 500V Y5P
C852	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C853	0CE108BH618	ESM108M025T1G5K20G 1000uF 20% 25V 715MA
C860	181-091C	DEHR33A471KN2A 470pF 10% 1000V Y5R
C861	0CE228DK650	EGR228M050K6G1M36G 2200uF 20% 50V 1.94A
C862	0CE105CK636	ERN105M050T1G5C11G 1uF 20% 50V 10MA
C870	181-091C	DEHR33A471KN2A 470pF 10% 1000V Y5R
C871	0CE227BK618	ESM227M050T1G5H17G 220uF 20% 50V 400MA
C872	0CK4710W515	DCM471K20Y5PL6FJ5A 470pF 10% 500V Y5P
C873	0CN1040K949	CH UP050 F104Z-B-B Z 100nF
C874	0CQ1041N509	PEI104K2AT 100nF 10% 100V PE -40TO+85C
C880	181-091C	DEHR33A471KN2A 470pF 10% 1000V Y5R
C881	181-001B	LHW477M200S1A5R40G 470uF 20% 200V 1.65A
C883	0CE107DD618	SMS5.0TP10VB100M 100uF 20% 10V 157MA
C884	0CE227CR650	SHL5.0MC250VB220M 220u 20% 250V 1152MA
C885	0CE106DH618	SMS5.0TP25VB10M 10uF 20% 25V 72MA
C886	0CN1020K519	RH UP050 B102K-B-B 1nF 10% 50V Y5P
C901	0CE106BR618	ESM106M250T1G5H17G 10uF 20% 250V 120MA
C903	0CK47202510	DCH472K75Y5PP7DK0A 4.7nF 10% 2000V Y5P

LOCA. NO	PART NO	DESCRIPTION
C904	0CE475DR618	EGR475M250T1G1G11G 4.7uF 20% 250V 70MA
C905	0CN1040K949	CH UP050 F104Z-B-B Z 100nF
C906	0CE107DF618	EGR107M016T1G1C11G 100uF 20% 16V 160MA
C907	0CN1510K519	RH UP050 B151K-B-B 150pF 10% 50V Y5P
C908	181-033R	DCH102K39Y5PP7VK7A 1nF 10% 2000V Y5P
C910	0CE476DF618	SMS5.0TP16VB47M 47uF 20% 16V
C911	0CN1040K949	CH UP050 F104Z-B-B Z 100nF
C920	0CN1030F679	RH EP050 Y103M-B-B 10nF 20% 16V X5R
C921	0CE107DF618	EGR107M016T1G1C11G 100uF 20% 16V 160MA
C922	0CN1510K519	RH UP050 B151K-B-B 150pF 10% 50V Y5P
C923	0CE107DF618	EGR107M016T1G1C11G 100uF 20% 16V 160MA
C924	0CE107BF618	ESM107M016T1G5E11G 100uF 20% 16V
C925	0CK1030W510	DCM103K63Y5PL6DK0A 10nF 10% 500V Y5P
C926	0CE106DP618	EGR106M160T1G1H15G 10uF 20% 160V 120MA
C927	0CK10101515	DCH101K26Y5PN6FJ5A 100pF 10% 1000V
C928	0CE107BF618	ESM107M016T1G5E11G 100uF 20% 16V
C929	0CQ1044R539	PCMT 365 90065 100nF 10% 250V MPE
C930	0CE106BP618	ESM106M160T1G5H15G 10uF 20% 160V
C932	0CN1040K949	CH UP050 F104Z-B-B Z 100nF
C933	0CK1040K945	DCS104Z30Y5VF6FJ5A 100nF
C935	0CQ1044R539	PCMT 365 90065 100nF 10% 250V MPE

## COIL & INDUCTOR

L101	0LA0102K139	Inductor,Wire Wound,AxialLAL04TB100K 10UH
L102	0LA0102K139	Inductor,Wire Wound,AxialLAL04TB100K 10UH
L1201	0LA0472K119	Inductor,Wire Wound,AxialLAL02TB470K 47UH
L1202	0LA0472K119	Inductor,Wire Wound,AxialLAL02TB470K 47UH
L212	0LA0102K139	Inductor,Wire Wound,AxialLAL04TB100K 10UH
L213	150-C02F	Coil,Choke 82uH 12X17MM
L301	150-C02F	Coil,Choke 82uH 12X17MM
L302	150-C02F	Coil,Choke 82uH 12X17MM
L401	0LA1001K139	Inductor,Wire Wound,Axial LAL04TB102K 1MH
L402	150-717K	Coil,Choke RN-29FA11 1.1uH
L421	150-C04E	Coil,Choke CN-29M3F 285uH
L422	61409B0003A	Coil,Choke JS-D011 44uH
L423	61409B0004B	Coil,Choke AR-0820 130uH
L424	61409Y0003B	Coil,Linearity HL-1520S GET 6.0UH
L513	0LA0561K119	Inductor,Wire Wound,AxialLAL02TB5R6K 5.6UH
L850	0LA0102K119	Inductor,Wire Wound,AxialLAL02TB100K 10UH
L850	150-C02F	Coil,Choke82uH 12X17MM
L860	150-C02F	Coil,Choke82uH 12X17MM
L881	150-C02F	Coil,Choke82uH 12X17MM
L882	150-C02F	Coil,Choke82uH 12X17MM
L901	0LA0102K139	Inductor,Wire Wound,Axial LAL04TB100K 10UH
L902	0LA0102K139	Inductor,Wire Wound,Axial LAL04TB100K 10UH
L910	0LA0221K139	Inductor,Wire Wound,Axial LAL04TB2R2K 2.2UH
L911	0LA0221K139	Inductor,Wire Wound,Axial LAL04TB2R2K 2.2UH
L912	0LA0221K139	Inductor,Wire Wound,Axial LAL04TB2R2K 2.2UH
T1802	6170VMCA52B	Transformer,Switching EE2229 1200uH
T401	6174917003A	Transformer,FBT D17 BSC30-N2570 D17
T402	151-515A	Transformer,Switching 151-515A EI2519 4.5mH
T403	6170VMCA26G	Transformer,Switching 6170VMCA26G EER2834

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LOCA. NO	PART NO	DESCRIPTION
T802	6170VMCB16P	Transformer,Switching EE5555 300uH
<b>CONNECTOR</b>		
C1	366-036B	53014-1210 12P 2.00MM 1R STRAIGHT
C2	387-552S	YFH800-02 YFH800-02 400mM 8.00MM 2P
C3	387-916M	BH10009 BH10009 800mM - 1P UL1617
C4	387-G03G	LGC-3Y LGC-3Y 400mM 2.50MM 3P
C5	387-J12D	GIL-G-12 GIL-G-12 250mM 2.50MM
C6	387-J12K	GIL-G-12 GIL-G-12 600mM 2.50MM
C7	6631V25064N	GIL-G-03 35097-9702_35098-9702
C8	6631V25A27L	2P 4T UL1007 AWG26 N -
P004	366-921B	GIL-G-03P-S3T2-E 3P 2.54MM 1R
P105	366-932E	GIL-G-06P-S3T2-E 6P 2.50MM 1R
P1101	387-A04F	GIL-G-04 GIL-J-04 350mM 2.50MM
P160	366-932B	GIL-G-03P-S3T2-E 3P 2.50MM 1R
P1701A	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P1701B	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P1702A	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P1702B	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P1703	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P1801	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P1802	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P1804	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P1805	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P1806	6631900117A	YFH800 YFH800 70mM 10.00MM 2P UL1617
P1806A	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P1806B	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P1807	387-907A	MXH8610 BH10009 100mM 8.00MM 1P
P200	6630V90177C	25421WR-32A01 32P 2.54MM 2R ANGLE
P202	6630V90177C	25421WR-32A01 32P 2.54MM 2R ANGLE
P206	366-922L	GIL-G-12P-S3L2-E 12P 2.50MM 1R ANGLE
P301	6602V39002D	YW396-02V 2P 3.96MM 1R STRAIGHT DIP ST
P401	6602V39002B	YW396-04V 4P 3.96MM 1R STRAIGHT DIP ST
P403B	387-A07G	GIL-G-07 GIL-J-07 400mM 2.50MM 7P
P500	366-922L	GIL-G-12P-S3L2-E 12P 2.50MM 1R
P503	366-922C	GIL-G-04P-S3L2-E 4P 2.50MM 1R
P504	366-922D	GIL-G-05P-S3L2-E 5P 2.50MM 1R
P601B	366-932L	GIL-G-12P-S3T2-E 12P 2.50MM 1R
P650	366-932C	GIL-G-04P-S3T2-E 4P 2.50MM 1R
P651	366-932B	GIL-G-03P-S3T2-E 3P 2.50MM 1R
P801A	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P801B	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P802	6602V39002C	YW396-03V 3P 3.96MM 1R STRAIGHT DIP ST
P803	366-932E	GIL-G-06P-S3T2-E 6P 2.50MM 1R
P803B	387-A06A	GIL-G-06 GIL-J-06 100mM 2.50MM 6P
P806A	366-932E	GIL-G-06P-S3T2-E 6P 2.50MM 1R
P807	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P901	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P901B	366-932L	GIL-G-12P-S3T2-E 12P 2.50MM 1R
P903	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P904	366-009D	366-009D 1P PIN HEADER STRAIGHT DIP BK
P905	366-921F	GIL-G-07P-S3T2-E 7P 2.50MM 1R

LOCA. NO	PART NO	DESCRIPTION
P920	366-921B	GIL-G-03P-S3T2-E 3P 2.54MM 1R
PT01	387-A05J	GIL-G-05 GIL-J-05 500mM 2.50MM 5P
<b>RESISTOR</b>		
FR901	0RF0121K607	FNS02T3J1R20 1.2OHM 5% 2W 12.0X4.0MM
J168	0RD5601F609	RD-96T1J5K60 5.6KOHM 5% 1/6W 3.2X1.8MM
R026	0RRZVTA001A	MNR14E0ABJ101 100OHM 5% 1/16W 4 SMD
R062	0RRZVTA001A	MNR14E0ABJ101 100OHM 5% 1/16W 4 SMD
R088	0RRZVTA001A	MNR14E0ABJ101 100OHM 5% 1/16W 4 SMD
R101	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W 3.2X1.8MM
R102	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W 3.2X1.8MM
R103	0RD4300A609	RDM92T1J430R 430OHM 5% 1/2W 6.5X2.3MM
R104	0RD0102F609	RD-96T1J10R0 10OHM 5% 1/6W 3.2X1.8MM
R105	0RD0102F609	RD-96T1J10R0 10OHM 5% 1/6W 3.2X1.8MM
R107	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R108	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R109	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R110	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R111	0RD5601F609	RD-96T1J5K60 5.6KOHM 5% 1/6W 3.2X1.8MM
R112	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R113	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R114	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R115	0RD0222F609	RD-96T1J22R0 22OHM 5% 1/6W 3.2X1.8MM
R116	0RD2201F609	RD-96T1J2K20 2.2KOHM 5% 1/6W 3.2X1.8MM
R117	0RD0102F609	RD-96T1J10R0 10OHM 5% 1/6W 3.2X1.8MM
R118	0RD0102F609	RD-96T1J10R0 10OHM 5% 1/6W 3.2X1.8MM
R119	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W 3.2X1.8MM
R120	0RD0102F609	RD-96T1J10R0 10OHM 5% 1/6W 3.2X1.8MM
R1204	0RD2403F609	RD-96T1J240K 240KOHM 5% 1/6W 3.2X1.8MM
R1206	0RD0752F609	RD-96T1J75R0 75OHM 5% 1/6W 3.2X1.8MM
R1208	0RD2403F609	RD-96T1J240K 240KOHM 5% 1/6W 3.2X1.8MM
R1212	0RD0752F609	RD-96T1J75R0 75OHM 5% 1/6W 3.2X1.8MM
R122	0RD0102F609	RD-96T1J10R0 10OHM 5% 1/6W 3.2X1.8MM
R125	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R126	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R127	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R128	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R129	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R1292	0RD1500F609	RD-96T1J150R 150OHM 5% 1/6W 3.2X1.8MM
R130	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R134	0RD0102F609	RD-96T1J10R0 10OHM 5% 1/6W 3.2X1.8MM
R135	0RD4300A609	RDM92T1J430R 430OHM 5% 1/2W 6.5X2.3MM
R138	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R160	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R160	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R161	0RD3002F609	RD-96T1J30K0 30KOHM 5% 1/6W 3.2X1.8MM
R162	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R163	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8MM
R164	0RD1801F609	RD-96T1J1K80 1.8KOHM 5% 1/6W 3.2X1.8MM
R165	0RD1801F609	RD-96T1J1K80 1.8KOHM 5% 1/6W 3.2X1.8MM
R166	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R170	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM

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LOCA. NO	PART NO	DESCRIPTION
R1701	0RKZVTA001K	RN-92T1J470K 470KOHM 5% 1/2W 9.0X3.0MM
R171	0RD3002F609	RD-96T1J30K0 30KOHM 5% 1/6W 3.2X1.8MM
R172	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R173	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8MM
R174	0RD1801F609	RD-96T1J1K80 1.8KOHM 5% 1/6W 3.2X1.8MM
R175	0RD1801F609	RD-96T1J1K80 1.8KOHM 5% 1/6W 3.2X1.8MM
R176	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R1801	180-822M	RWR15PDJ1R00 1OHM 5% 15W 48X12.5X12.5MM
R1802	0RD2203A609	RDM92T1J220K 220KOHM 5% 1/2W 6.5X2.3MM
R1803	0RD1803A609	RDM92T1J180K 180KOHM 5% 1/2W 6.5X2.3MM
R1804	0RD1803A609	RDM92T1J180K 180KOHM 5% 1/2W 6.5X2.3MM
R1806	0RS0101H609	RS-92T1J1R00 1OHM 5% 1/2W 9.0X3.0MM
R1807	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R1809	0RD0622A609	RDM92T1J62R0 62OHM 5% 1/2W 6.5X2.3MM
R1811	0RD1501F609	RD-96T1J1K50 1.5KOHM 5% 1/6W 3.2X1.8MM
R1812	0RD4700F609	RD-96T1J470R 470OHM 5% 1/6W 3.2X1.8MM
R1813	0RD2001F609	RD-96T1J2K00 2KOHM 5% 1/6W 3.2X1.8MM
R1813	0RD4700F609	RD-96T1J470R 470OHM 5% 1/6W 3.2X1.8MM
R1814	0RD3901F609	RD-96T1J3K90 3.9KOHM 5% 1/6W 3.2X1.8MM
R1815	0RD9100F609	RD-96T1J910R 910OHM 5% 1/6W 3.2X1.8MM
R234	0RD1800A609	RDM92T1J180R 180OHM 5% 1/2W 6.5X2.3MM
R287	0RS0391K619	SML02R0J3R90 3.9OHM 5% 2W 8.6X3.5MM
R301	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R302	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R303	0RN4701F409	RN-96T1F4K70 4.7KOHM 1% 1/6W 3.2X1.8MM
R304	0RN4701F409	RN-96T1F4K70 4.7KOHM 1% 1/6W 3.2X1.8MM
R305	0RS0332H609	RS-92T1J33R0 33OHM 5% 1/2W 9.0X3.0MM
R306	0RS4700K607	RSD02T3J470R 470OHM 5% 2W 12.0X4.0MM
R307	0RS4700K607	RSD02T3J470R 470OHM 5% 2W 12.0X4.0MM
R308	0RN0151H609	RN-92T1J1R50 1.5OHM 5% 1/2W 9.0X3.0MM
R309	0RN0151H609	RN-92T1J1R50 1.5OHM 5% 1/2W 9.0X3.0MM
R310	0RD4301F609	RD-96T1J4K30 4.3KOHM 5% 1/6W 3.2X1.8MM
R401	0RS1001K607	RSD02T3J1K00 1KOHM 5% 2W 12.0X4.0MM
R402	0RS0101K607	RSD02T3J1R00 1OHM 5% 2W 12.0X4.0MM
R403	0RF0101H609	FN-92T1J1R00 1OHM 5% 1/2W 9.0X3.0MM
R405	0RF0680J607	FN-01T3JR680 0.68OHM 5% 1W 12.0X4.0MM
R406	0RF0101H609	FN-92T1J1R00 1OHM 5% 1/2W 9.0X3.0MM
R407	0RS2701H609	RS-92T1J2K70 2.7KOHM 5% 1/2W 9.0X3.0MM
R408	0RD2204A609	RDM92T1J2M20 2.2MOHM 5% 1/2W 6.5X2.3MM
R410	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R411	0RD4701A609	RDM92T1J4K70 4.7KOHM 5% 1/2W 6.5X2.3MM
R412	0RD4701A609	RDM92T1J4K70 4.7KOHM 5% 1/2W 6.5X2.3MM
R414	180-C02M	ERC12GK562V 5.6KOHM 10% 1/2W 9.5X3.5MM
R416	0RS0221H609	RS-92T1J2R20 2.2OHM 5% 1/2W 9.0X3.0MM
R417	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R419	0RD5601F609	RD-96T1J5K60 5.6KOHM 5% 1/6W 3.2X1.8MM
R420	0RS2200K607	RSD02T3J220R 220OHM 5% 2W 12.0X4.0MM
R421	0RS2200K607	RSD02T3J220R 220OHM 5% 2W 12.0X4.0MM
R423	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R424	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R425	0RS3300H609	RS-92T1J330R 330OHM 5% 1/2W 9.0X3.0MM
R427	180-A01B	PRW02T3KR110 0.11OHM 10% 2W 12.0X4.0MM

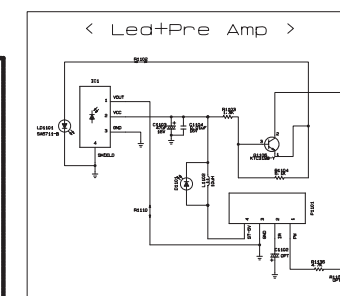
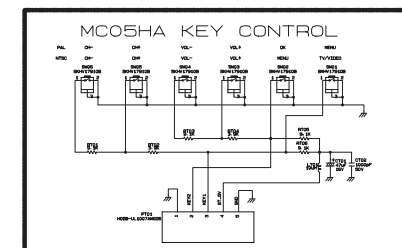
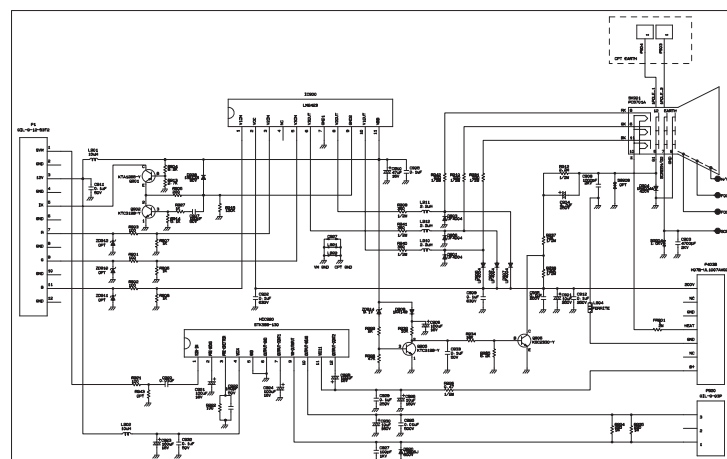
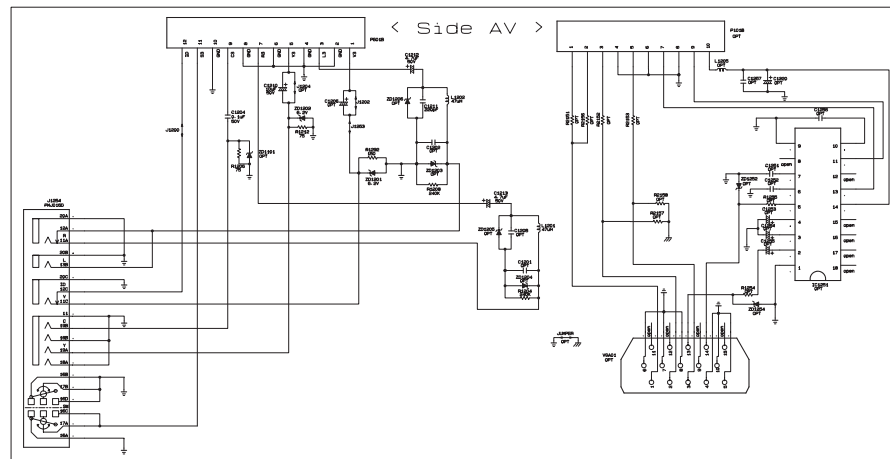
LOCA. NO	PART NO	DESCRIPTION
R428	0RS0562H609	RS-92T1J56R0 56OHM 5% 1/2W 9.0X3.0MM
R430	0RS4700K607	RSD02T3J470R 470OHM 5% 2W 12.0X4.0MM
R431	0RD1001A609	RDM92T1J1K00 1KOHM 5% 1/2W 6.5X2.3MM
R431	0RD5100A609	RDM92T1J510R 510OHM 5% 1/2W 6.5X2.3MM
R432	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R433	0RF0470K607	FNS02T3JR470 0.47OHM 5% 2W 12.0X4.0MM
R434	0RD1001A609	RDM92T1J1K00 1KOHM 5% 1/2W 6.5X2.3MM
R435	0RF0470K607	FNS02T3JR470 0.47OHM 5% 2W 12.0X4.0MM
R436	0RD1301A609	RDM92T1J1K30 1.3KOHM 5% 1/2W 6.5X2.3MM
R438	0RD2701A609	RDM92T1J2K70 2.7KOHM 5% 1/2W 6.5X2.3MM
R439	0RD2701A609	RDM92T1J2K70 2.7KOHM 5% 1/2W 6.5X2.3MM
R440	0RD3901A609	RDM92T1J3K90 3.9KOHM 5% 1/2W 6.5X2.3MM
R441	0RS6800K607	RSD02T3J680R 680OHM 5% 2W 12.0X4.0MM
R443	0RD3901F609	RD-96T1J3K90 3.9KOHM 5% 1/6W 3.2X1.8MM
R444	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R445	0RD2701F609	RD-96T1J2K70 2.7KOHM 5% 1/6W 3.2X1.8MM
R445	0RN2701F409	RN-96T1F2K70 2.7KOHM 1% 1/6W 3.2X1.8MM
R446	0RD1003F609	RD-96T1J100K 100KOHM 5% 1/6W 3.2X1.8MM
R446	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8MM
R446	0RN1003F409	RN-96T1F100K 100KOHM 1% 1/6W 3.2X1.8MM
R447	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R456	0RD5600F609	RD-96T1J560R 560OHM 5% 1/6W 3.2X1.8MM
R457	0RD3901F609	RD-96T1J3K90 3.9KOHM 5% 1/6W 3.2X1.8MM
R457	0RN3901F409	RN-96T1F3K90 3.9KOHM 1% 1/6W 3.2X1.8MM
R458	0RD1501F609	RD-96T1J1K50 1.5KOHM 5% 1/6W 3.2X1.8MM
R460	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R461	0RF0101H609	FN-92T1J1R00 1OHM 5% 1/2W 9.0X3.0MM
R582	0RD1800A609	RDM92T1J180R 180OHM 5% 1/2W 6.5X2.3MM
R651	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R652	0RD3001F609	RD-96T1J3K00 3KOHM 5% 1/6W 3.2X1.8MM
R653	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8MM
R654	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8MM
R657	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R658	0RD3001F609	RD-96T1J3K00 3KOHM 5% 1/6W 3.2X1.8MM
R659	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R670	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R672	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R673	0RD2701F609	RD-96T1J2K70 2.7KOHM 5% 1/6W 3.2X1.8MM
R800	180-C02J	ERC12GK106V 10MOHM 10% 1/2W 9.5X3.5MM
R804	0RS5602K607	RSD02T3J56K0 56KOHM 5% 2W 12.0X4.0MM
R805	0RS5602K607	RSD02T3J56K0 56KOHM 5% 2W 12.0X4.0MM
R806	0RD0331A609	RDM92T1J3R30 3.3OHM 5% 1/2W 6.5X2.3MM
R807	0RD2201F609	RD-96T1J2K20 2.2KOHM 5% 1/6W 3.2X1.8MM
R808	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R809	180-A01Q	PRW02T3KR082 0.082OHM 10% 2W 12.0X4.0MM
R810	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R821	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R822	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R823	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R830	0RP0020J809	SPF01T1MR020 0.02OHM 20% 1W 6.5X2.3MM
R840	0RP0010J809	SPF01T1MR010 0.01OHM 20% 1W 6.5X2.3MM
R840	0RP0020J809	SPF01T1MR020 0.02OHM 20% 1W 6.5X2.3MM

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

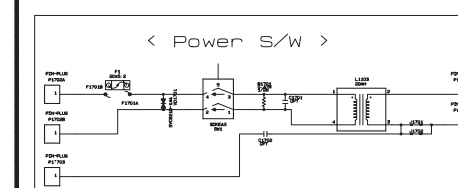
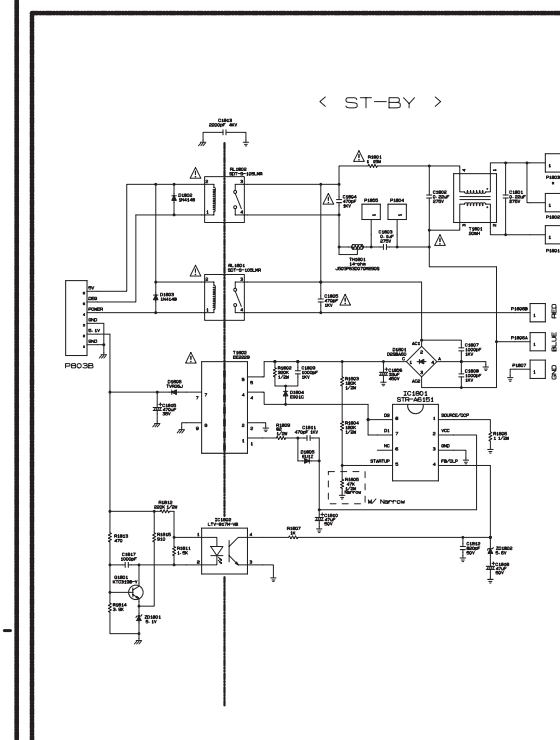
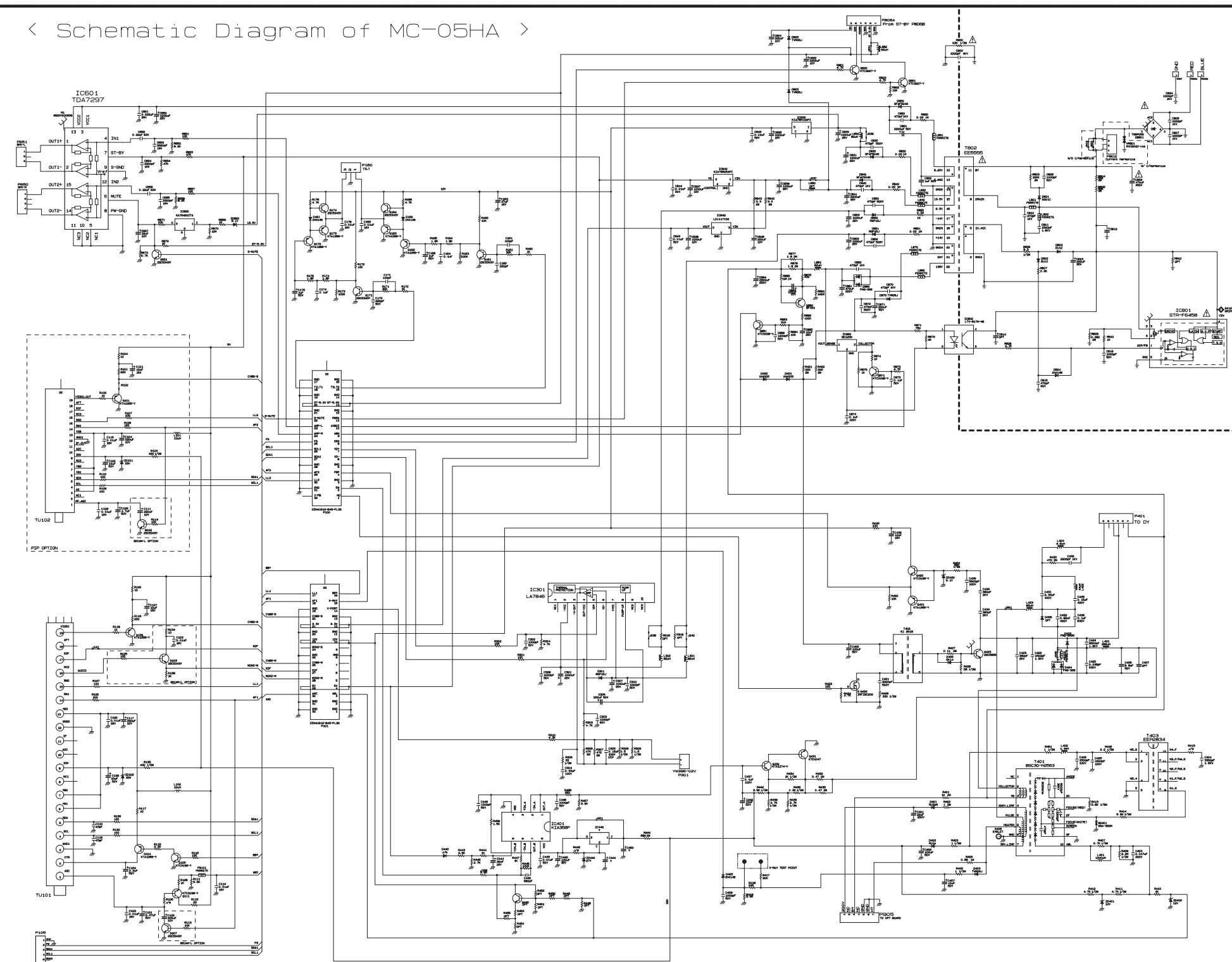
LOCA. NO	PART NO	DESCRIPTION
R842	0RS0331K607	RSD02T3J3R30 3.3OHM 5% 2W 12.0X4.0MM
R843	0RS0331K607	RSD02T3J3R30 3.3OHM 5% 2W 12.0X4.0MM
R850	0RP0020J809	SPF01T1MR020 0.02OHM 20% 1W 6.5X2.3MM
R851	0RD5101F609	RD-96T1J5K10 5.1KOHM 5% 1/6W 3.2X1.8MM
R851	0RP0020J809	SPF01T1MR020 0.02OHM 20% 1W 6.5X2.3MM
R852	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R853	0RD1301F609	RD-96T1J1K30 1.3KOHM 5% 1/6W 3.2X1.8MM
R860	0RP0020J809	SPF01T1MR020 0.02OHM 20% 1W 6.5X2.3MM
R871	0RD7500F609	RD-96T1J750R 750OHM 5% 1/6W 3.2X1.8MM
R872	0RD2001F609	RD-96T1J2K00 2KOHM 5% 1/6W 3.2X1.8MM
R873	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R875	0RN3001F409	RN-96T1F3K00 3KOHM 1% 1/6W 3.2X1.8MM
R877	0RF0161K607	FNS02T3J1R60 1.6OHM 5% 2W 12.0X4.0MM
R878	0RF0161K607	FNS02T3J1R60 1.6OHM 5% 2W 12.0X4.0MM
R879	0RD3600F609	RD-96T1J360R 360OHM 5% 1/6W 3.2X1.8MM
R881	0RD2403F609	RD-96T1J240K 240KOHM 5% 1/6W 3.2X1.8MM
R882	0RD1003A609	RDM92T1J100K 100KOHM 5% 1/2W 6.5X2.3MM
R883	0RD9102F609	RD-96T1J91K0 91KOHM 5% 1/6W 3.2X1.8MM
R884	0RD3601F609	RD-96T1J3K60 3.6KOHM 5% 1/6W 3.2X1.8MM
R884	0RD4701F609	RD-96T1J4K70 4.7KOHM 5% 1/6W 3.2X1.8MM
R885	0RS1002J607	RS-01T3J10K0 10KOHM 5% 1W 12.0X4.0MM
R901	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R902	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R903	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R904	0RD8201F609	RD-96T1J8K20 8.2KOHM 5% 1/6W 3.2X1.8MM
R905	0RD2200F609	RD-96T1J220R 220OHM 5% 1/6W 3.2X1.8MM
R906	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R907	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R908	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R909	0RD3600H609	RD-92T1J360R 360OHM 5% 1/2W 9.0X3.0MM
R910	180-C02Q	ERC12GJ331V 330OHM 5% 1/2W 9.5X3.5MM
R912	0RD2204H609	RD-92T1J2M20 2.2MOHM 5% 1/2W 9.0X3.0MM
R913	0RD2701F609	RD-96T1J2K70 2.7KOHM 5% 1/6W 3.2X1.8MM
R914	0RD5101F609	RD-96T1J5K10 5.1KOHM 5% 1/6W 3.2X1.8MM
R915	0RD1203F609	RD-96T1J120K 120KOHM 5% 1/6W 3.2X1.8MM
R921	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R922	0RD1000F609	RD-96T1J100R 100OHM 5% 1/6W 3.2X1.8MM
R924	0RS2200J607	RS-01T3J220R 220OHM 5% 1W 12.0X4.0MM
R925	0RS2200J607	RS-01T3J220R 220OHM 5% 1W 12.0X4.0MM
R926	0RF0470H609	FN-92T1JR470 0.47OHM 5% 1/2W 9.0X3.0MM
R927	0RD1001F609	RD-96T1J1K00 1KOHM 5% 1/6W 3.2X1.8MM
R927	0RD1801F609	RD-96T1J1K80 1.8KOHM 5% 1/6W 3.2X1.8MM
R928	0RD4702F609	RD-96T1J47K0 47KOHM 5% 1/6W 3.2X1.8MM
R929	0RD2001F609	RD-96T1J2K00 2KOHM 5% 1/6W 3.2X1.8MM
R931	180-C02Q	ERC12GJ331V 330OHM 5% 1/2W 9.5X3.5MM
R932	0RD1002F609	RD-96T1J10K0 10KOHM 5% 1/6W 3.2X1.8MM
R934	0RD1802F609	RD-96T1J18K0 18KOHM 5% 1/6W 3.2X1.8MM
R935	0RD6201F609	RD-96T1J6K20 6.2KOHM 5% 1/6W 3.2X1.8MM
R937	0RD1002H609	RD-92T1J10K0 10KOHM 5% 1/2W 9.0X3.0MM
R938	0RD1003H609	RD-92T1J100K 100KOHM 5% 1/2W 9.0X3.0MM
R940	0RD3600H609	RD-92T1J360R 360OHM 5% 1/2W 9.0X3.0MM
R941	0RD3600H609	RD-92T1J360R 360OHM 5% 1/2W 9.0X3.0MM

LOCA. NO	PART NO	DESCRIPTION
R942	180-C02Q	ERC12GJ331V 330OHM 5% 1/2W 9.5X3.5MM
RT01	0RD9101F609	RD-96T1J9K10 9.1KOHM 5% 1/6W 3.2X1.8MM
RT02	0RD3901F609	RD-96T1J3K90 3.9KOHM 5% 1/6W 3.2X1.8MM
RT03	0RD9101F609	RD-96T1J9K10 9.1KOHM 5% 1/6W 3.2X1.8MM
RT04	0RD3901F609	RD-96T1J3K90 3.9KOHM 5% 1/6W 3.2X1.8MM
<b>SWITCH</b>		
SW1	140-315A	THVH472GBC 1C1P 12VDC 0.05A VERTICAL
SW1701	6600VM2002A	SDKEA3012A AC 250VAC 8A 1PCS 2C1P
SW2	140-315A	THVH472GBC 1C1P 12VDC 0.05A VERTICAL
SW3	140-315A	THVH472GBC 1C1P 12VDC 0.05A VERTICAL
SW4	140-315A	THVH472GBC 1C1P 12VDC 0.05A VERTICAL
SW5	140-315A	THVH472GBC 1C1P 12VDC 0.05A VERTICAL
SW6	140-315A	THVH472GBC 1C1P 12VDC 0.05A VERTICAL
<b>FILTER &amp; CRYSTAL</b>		
FB101	125-022K	125-022K 20OHM 3.5X6MM AXIAL TP
FB403	125-022K	125-022K 20OHM 3.5X6MM AXIAL TP
L002	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L003	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L004	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L005	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L006	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L007	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L008	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L009	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L010	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L011	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L012	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L013	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L501	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L502	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L503	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L504	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L505	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L514	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L515	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L516	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L517	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L518	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L519	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2X1.6X1.6mM
L801	125-022K	125-022K 20OHM 3.5X6MM AXIAL TP
L802	125-022K	125-022K 20OHM 3.5X6MM AXIAL TP
L830	125-022K	125-022K 20OHM 3.5X6MM AXIAL TP
L840	125-022K	125-022K 20OHM 3.5X6MM AXIAL TP
L861	125-022K	125-022K 20OHM 3.5X6MM AXIAL TP
L870	125-022K	125-022K 20OHM 3.5X6MM AXIAL TP
L880	125-022K	125-022K 20OHM 3.5X6MM AXIAL TP
L904	125-022K	125-022K 20OHM 3.5X6MM AXIAL TP
T1701	150-F06T	150-F06T 20MH 38X26X43MM SQE3535
T1801	150-F06T	150-F06T 20MH 38X26X43MM SQE3535
X001	6202VDB007B	HC-49/U 20.25MHZ 30PPM 20.25MHZ 30PPM

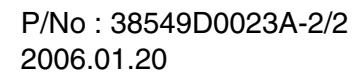




< Schematic Diagram of MC-05HA >



THE  $\Delta$  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FLUORINE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVISING IT IS ESSENTIAL THAT ONLY MANUFACTURER-SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  $\Delta$  SYMBOL MARK OF THE SCHEMATIC.



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Jul., 2006  
Printed in Korea

