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COLOR TV SERVICE MANUAL

CHASSIS : MP-02AB

MODEL : RT-44/49/54NA12

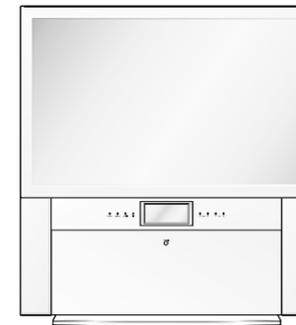
CAUTION

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



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by Δ in the Schematic Diagram and Replacement Parts List. It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards. Do not modify the original design without permission of manufacturer.

General Guidance

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

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

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

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

Keep wires away from high voltage or high temperature parts.

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

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the Picture Tube. For continued X-RAY RADIATION protection, the replacement tube must be the same type tube as specified in the Replacement Parts List.

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

Adjust brightness, color, contrast controls to minimum. Measure the high voltage.

The meter reading should indicate
23.5 ; 15KV: 14-19 inch, 26 ; 15KV: 19-21 inch,
29.0 ; 15KV: 25-29 inch, 30.0 ; 15KV: 32 inch

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

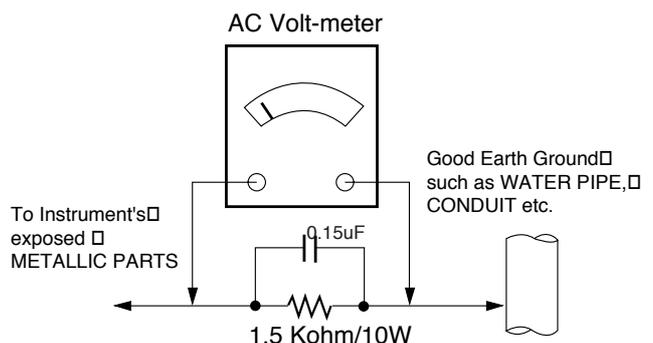
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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

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

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

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the SAFETY PRECAUTIONS on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.

CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

- d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".
 3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
 4. Do not spray chemicals on or near this receiver or any of its assemblies.
 5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
Always remove the test receiver ground lead last.
9. Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called **Electrostatically Sensitive (ES) Devices**. Examples of typical ES devices are integrated circuits and some field-effect

transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range of 500 °F to 600 °F.
 2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
 3. Keep the soldering iron tip clean and well tinned.
 4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
 5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
- CAUTION:** Work quickly to avoid overheating the circuit-board printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

- c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.

CAUTION: Work quickly to avoid overheating the circuit board printed foil.

- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATIONS

NOTE : Specifications and others are subject to change without notice for improvement.

Scope

This specification can be applied to all the Projection television related to MP-02AB Chassis.

Chassis	Model Name	Market Place	Remark
MP-02AB	RT-44/49/54NA12	China, Asia, Africa,	
		Middle East	

Test Condition

- 1) Temperature :25; 5°C (CST is 40; 5°C)
- 2) Relative Humidity:65; 10%
- 3) Power Voltage:Standard input voltage(AC 220V,~50/60Hz)
(AC 110V-240V,~50/60Hz)

But Standard input voltage mark value is marked by model.

- 4) Use the parts only designated in B.O.M.,PARTS SPEC.,or drawings.
- 5) Follow each drawing or spec for spec and performance of parts,based upon P/N of B.O.M
- 6) Warm up TV set for more than 60min before the measurement.

Test and Inspection Method

- 1) performance:Follow the Standard of LG TV test
- 2) Standards of Etc requirement

Model	Market	Compliance	Remark
RT-44/49/54NA12	CHINA	Safety,EMC: CCC	

General Specification

★ Mark:Option Item

No	Item	Specification	Remark
1	Receiving System	RT PAL,SECAM-BG PAL,SECAM-DK,PAL-II' NTSC-M	
2	Available Channel	1)VHF: E2~E12 2)UHF: E21~E69 3)CATV: S1~S20 4)HYPER: S21~S41	
3	Input Voltage	AC 220V,~50/60 Hz	China MODEL
		AC 110 - 240V,~50/60 Hz	★ (RT model w/o China)
4	Market	China, Asia, Africa, Middle East	
5	Screen Size	44/49/54 inch	
6	Aspect Ratio	4 : 3	
7	Tuning System	FVS 100 Program	★ (With Teletext model)
		FVS 200 Program	★ (W/O Teletext model)
8	Display Method	PRT 7 inch	Matsushita
9	PRT C-Lens	SSM - 100	Sekinos
10	Speaker Spec	1) Impedance: 8 Ω 2) Normal: 15 W 3) Output(MAX): 20W	
11	Storage Environment	1) Temp: -20 ~ 60 deg 2) Humidity: 85% under	
12	Operating Environment	1)Temp: 0 ~ 40 deg 2)Humidity: 85% under	

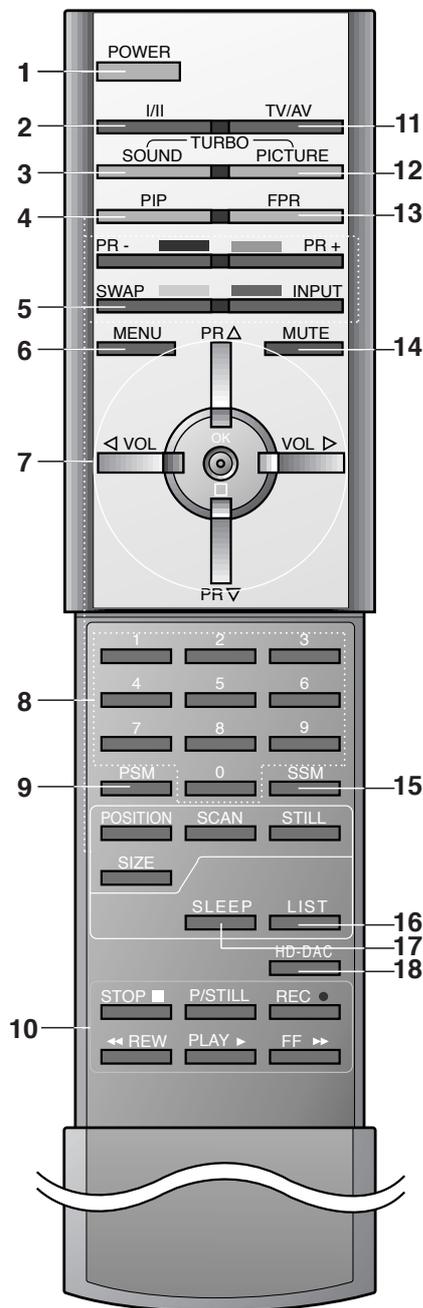
■ Feature and Special SPEC

No	Item		Specification		Remark
1	Feature	RF Input	1	PAL,SECAM-BG PAL,SECAM-DK,PAL-II' NTSC-M	
		AV Input/Out	3 1	Input 1, 2, 3 AV Out	Rear2, Side1 (CVBS, L, R) Rear (CVBS,L,R)
		S-video	2	S-video	Rear,Side(Y,C)
		Y,Pb,Pr Input	2	Component1	Rear 480i, 576i
				Component2	Rear 480P,720P,1080i
		RGB Input	1	PC(~SXGA)/DTV	Rear, D-Sub 15pin 480P,720P,1080i
		Audio Input	2	Component1, 2/ PC/ DTV	Rear ▶ L,R
		RGB Output	1	PC	Rear, D-Sub 15pin
SCART	1	Half SCART: 1 (AV In, YC In)	★Rear (Option)		
2	Key	Local Key (TACT S/W)	TV/VIDEO, ENTER, MENU, VOL(◀ , ▶), PR(▲ , ▼)	Front	
3	Station	Auto Programming	System/ Storage form/ Normal search		
		Manual Programming	Storage/ System/ Channel/ Fine/ Search, Name/Booster		
		Program edit			
		Favorite Programming	5 Programming		
4	Picture	PSM	Dynamic/ Standard/ Mild/ Game/ User		
		User Control	Contrast/ Brightness/ Color/ Sharpness/ Tint / Convergence		Tint: NTSC system only
5	Sound	AVL	On/Off		
		SSM	Dolby virtual/ Flat/ Music/ Speech / Movie/ User		
		USER	Equalizer: 0.1, 0.5, 1.5, 5, 10 kHz		
		Balance	50(L) ~ 0 ~ 50(R)		
6	Time	Clock/ Off time/ On time/ Auto sleep			
7	Special	Input	TV, AV1,AV2,AV3,AV4, S-Video 2, Component 1, 2RGB - DTV, RGB - PC		
		Language	English/ China		difference by model
		Child lock	On/ Off		
		Screen	ARC	4:3, 16:9	4:3
			Component1	H-Position	-30 ~ +30
		Component2	V-Position	-20 ~ +20	0
		RGB - DTV	Clock	0 ~ 80	40
		RGB - PC	Clock Phase	0 ~ 31	15
		Auto Configure			
		Reset			

No	Item		Specification	Remark
8	Etc	Main Picture	TV, AV 1/2/3, Component 1/2, RGB - PC, RGB - DTV, Scart	Scart (Option)
		Available Sub Picture	TV, AV 1/2/3, Scart	Scart (Option)
		Size	44/49/54 Inch (4:3)	
		Display format	1024 * 768P	XGA
		Comb Filter	3D Comb	Main screen
		PIP	PIP	2 Tuner
		Display Mode	4:3, (16:9 : D -TV INPUT)	
		SVM	O	
		Remote Controller	Universal Remote Controller	NEC code
		Total Audio	15W * 2	MAIN(L/R) EQ: Flat

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.

1. **POWER**
switches the set on from standby or off to standby.
2. **I/II**
selects the language during dual language broadcast.
selects the sound output.
3. **TURBO SOUND BUTTON**
selects Turbo sound.
4. **PIP BUTTONS**
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.
SCAN
switches on or off the programme scan mode 12 sub pictures.
5. **SWAP**
returns to the previously viewed programme.
6. **MENU**
selects a menu.
7. **▲ / ▼ (Programme Up/Down)**
selects a programme or a menu item.
switches the set on from standby.
◀ / ▶ (Volume Up/Down)
adjusts the volume.
adjusts menu settings.
OK
accepts your selection or displays the current mode.
8. **NUMBER BUTTONS**
switches the set on from standby or directly select a number.
9. **PSM (Picture Status Memory)**
recalls your preferred picture setting.
10. **VCR BUTTONS**
control a LG video cassette recorder.

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

12. TURBO PICTURE BUTTON
selects Turbo picture.

13. FPR (Favourite Programme Review)
selects stored favourite programmes.

14. MUTE
switches the sound on or off.

15. SSM (Sound Status Memory)
recalls your preferred sound setting.

16. LIST
displays the programme table.

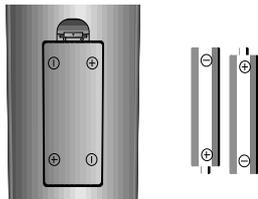
17. SLEEP
sets the sleep timer.

18. HD-DAC
adjusts the colour convergence of screen automatically during receiving the signals.

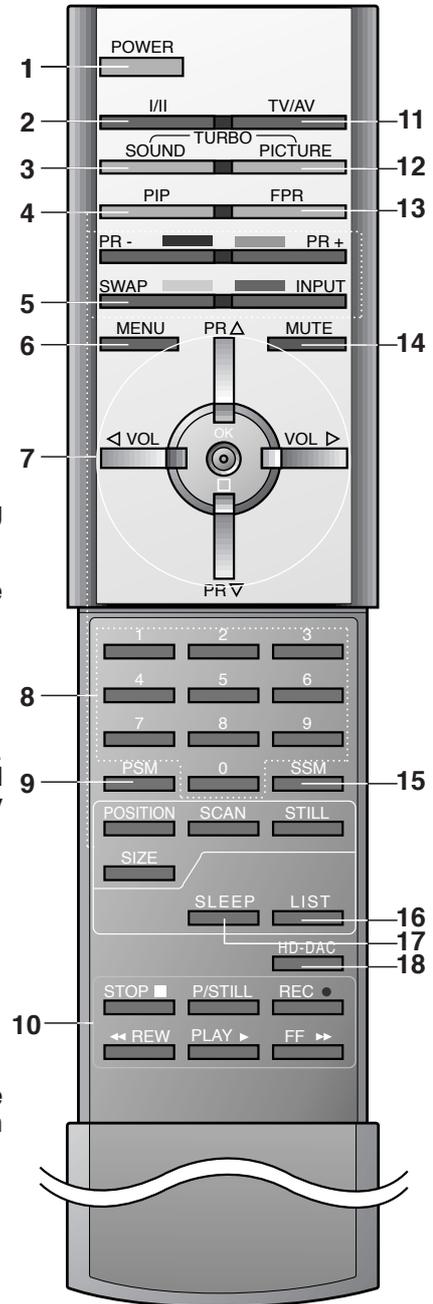
Note : In teletext mode, the **PR +/-**, **SWAP** and **INPUT** buttons are used for teletext function.

Battery installation

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

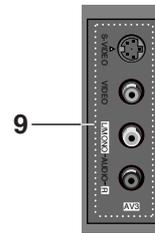


Note : To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.

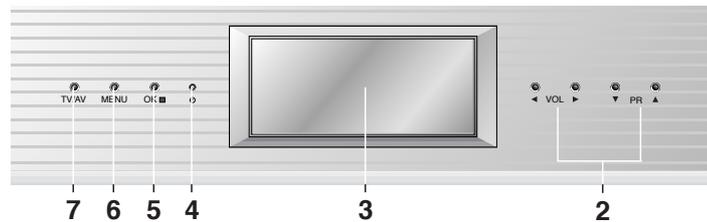


Front panel

- RT-44NA12 series



(Side panel)



- 1. MAIN POWER**
switches the set on or off.
 - 2. ◀ / ▶ (Volume Up/Down)**
adjusts the volume.
▲ / ▼ (Programme Up/Down)
adjusts menu settings.
selects a programme or a menu item.
switches the set on from standby.
 - 3. LED (Light Emitting Diode) DISPLAY**
displays the selected input signals.
 - 4. POWER/STANDBY INDICATOR**
illuminates brightly when the set is in standby mode.
dims when the set is switched on.
 - 5. OK**
accepts your selection or displays the current mode.
 - 6. MENU**
selects a menu.
 - 7. TV/AV**
selects TV or AV mode.
switches the set on from standby.
 - 8. REMOTE CONTROL SENSOR**
 - 9. 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**.
- * **CASTERS (on the bottom)**
turn and move the set easily.

ADJUSTMENT INSTRUCTIONS

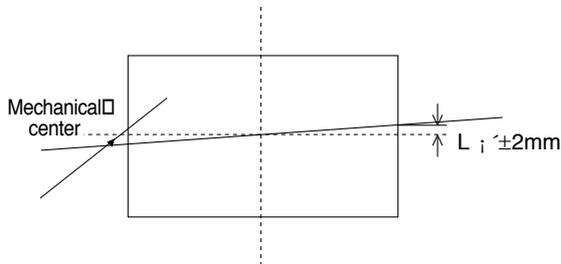
● Raster Slope/Focus 1th Adjustment

1. Preliminary steps

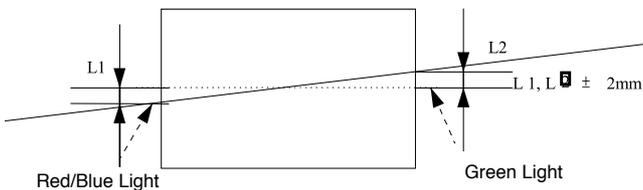
- 1) Turn on the power.
- 2) Receive the EU 05 CH signal.
- 3) Press "IN-START" key to select "0. DEFLECTION" by movement of cursor or numeric key.
- 4) Adjust lens focus and electric focus provisionally.
- 5) Set the convergence adjustment mode on RESET.
 - a. Convergence adjustment mode: Press "IN-START" key to select "3. CONVERGENCE".
 - b. Convergence reset : Press 5 Key and then "ENTER" key.
 - c. Adjustment mode cancellation : Press "IN-START" key.

2. Adjustment

- 1) Display only the Green raster using lens covers to block Red and Blue.
- 2) Rotate the Green DY and tilt the screen like the figure below.



- 3) Make 2color raster with Red or Blue and Green.
- 4) Superimpose the slope of red and blue raster onto that of the Green.



Note) When adjusting raster slope, loosen the DY and retighten it after adjusting. Never rotate and adjust the fixed DY without loosening it. (DY - Deflection York)

- 5) Press "ENTER" key to exit RASTER adjustment mode and then "IN-START" key to exit SVC adjustment mode.

*If you press the ENTER key to cancel the RASTER adjustment mode, adjustment have finished. At the same time, data of convergence automatically recover from convergence adjustment mode.

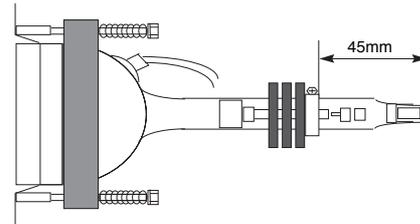
● Beam Alignment Adjustment

1. Test Equipment

VIDEO TEST GENERATOR(801GF) or
Signal Generator that can produce DOT pattern
(408NPS or 5518/5418)

2. Preparation

- 1) Heat run over 60 minutes.
- 2) Pre-adjust Raster slope, Raster position, Lens focus & centering Magnet.
- 3) Verify that the Magnet is located 45mm from the end of PRT.
- 4) Receive DOT pattern by external input terminal. (In case of signal generator)
Receive #13 DOT Pattern of VGA Mode (Format #5) by PC input terminal (In case of 801GF)

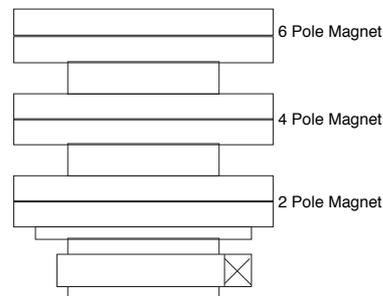


3. 2-Pole Magnet Adjustment

- 1) Display only the Green raster using lens covers to block Red and Blue.
- 2) Check the center position of DOT pattern on the center of the screen after turning Green focus volume left.
- 3) Turning green focus volume right and adjust 2-Pole magnet so the position to coincide that of item 2).
- 4) Adjust not to shift the screen by turning green focus volume left & right.
- 5) If the screen shifts, readjust 2)~4).
- 6) Do the same method in Red and Blue. Here, be careful not to be stained.

4. Beam Shape (4 & 6-Pole Magnet) Adjustment

- 1) Do after adjustment of the 2-Pole magnet.
- 2) Display only the Green raster using lens covers to block Red and Blue and turn the focus volume right.
- 3) Using the 4 & 6-pole magnets make adjustments so the DOT in the center is a perfect circle.
- 4) Follow the same method in Red & Blue.
- 5) Fasten the Magnet after adjustment.
- 6) Adjust focus volume accurately and then adjust raster center.



● Centering Magnet Adjustment

1. Preliminary steps

- 1) Tune the TV set to receive a EU 05 CH.
(No PR.1:PAL B/G 175.25MHz)
- 2) Press "IN-START" key on the remote controller and select "0.DEFLECTION" to use numeric key or move the cursor.
- 3) If you select the adjustment mode, automatically reset the convergence and finished adjustment preparation by display of EU05 CH.

2. Adjustment

- 1) Operate adjustment about Red,Green,Blue centering magnet. Magnet of Green centering is located center.
- 2) SGS-THOMSON Convergence assy
Adjust until the center of blue signal is shifted up to 30mm; 3 left from that of green signal and center of red signal is shifted up to 30mm; 5 right from that of green signal with turning the centering magnet.
- 3) After adjustment, exit the RASTER adjustment mode by pressing "ENTER" key and then press "IN-START" key to exit in SVC adjustment mode.

● High Voltage Regulation Adjustment

1. Test Equipment

Digital Multi-Meter(DMM)

2. Preparation for Adjustment

Press "IN-START" key on the remote controller and then select "1.HIGH VOLTAGE" by numeric key or cursor
(Set luminosity/light and shade of no AV signal for Zero(0) in manual adjustment)

3. Adjustment

- 1) Connect "+" terminal(Red) of DMM to the P415 of the Deflection PCB, [+] and the "-" terminal(Black) to the P416 .[-].
- 2) Adjust VR401 so that the voltage of P415(+), P416(-) to be $21.4 \pm 0.1V$ voltage.(Come under high voltage 31.5KV)
- 3) After adjustment,press any key to exit in high voltage adjustment mode and IN-START key to exit in SVC adjustment mode.

● CUT-OFF Adjustment

1.Preliminary steps

- 1) Receive the EU 05 CH signal
- 2) Press "IN-START" key on the remote controller and then select "2.SCREEN ADJ" by numeric key or cursor.
- 3) Adjustment must be operated in a dark room(simple dark room).

2.Adjustment

- 1) Adjust Screen Volume (R/G/B) in Focus Pack until brightness of red/blue/green horizontal line is hardly seen.
(At the moment,brightness of red,blue or green horizontal line should be equal to one another.)
- 2) After adjustment,press "ENTER" key to exit in screen adjustment mode and "IN-START" key to exit in SVC adjustment mode.

● Deflection Adjustment

1. Preliminary steps

- 1) NTSC mode should be adjusted after adjusting PAL mode.
- 2) NTSC adjustment should be done in standard mode of picture after receiving NTSC 13CH signal or MULTI 48CH signal,and PAL adjustment should be done in standard mode of picture after receiving EU05 CH.
- 3) Press "IN-START" key on the adjustment remote controller and select "0.DEFLECTION"
- 4) Display only the Green raster using lens covers to block Red and Blue.

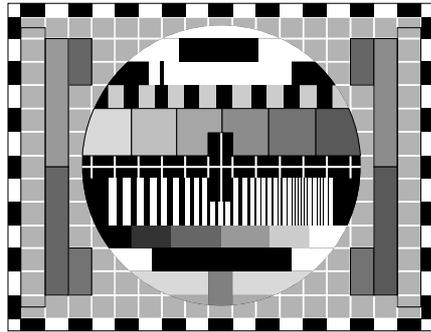
2. PAL Mode Deflection adjustment

Use the "CH ▲,▼" key to selection of the below each mode and then adjust "VOL◀,▶" key

- 1) H POSI (Horizontal Shift adjustment)
Adjust until the geometric horizontal center line is accord with the horizontal center line of screen JIG.
- 2)V POSI (Vertical Shift adjustment)
Adjust until the geometric vertical center line is accord with the vertical center line of screen JIG
- 3) H SIZE (Horizontal SIZE adjustment)
The third column of horizontal size mark in outside angle of circle is accord with the edge of frame.
- 4) V SIZE (Vertical SIZE adjustment)
Adjust until 7th vertical bar from upper and lower center of the screen is accord with the last point of the frame.
- 5) UP VLI (Upper vertical Linearity adjustment)
Adjust vertical linearity of upper screen.
- 6) LO VLI (Lower vertical Linearity adjustment)
Adjust vertical linearity of lower screen.
- 7)PIN PH (Horizontal trapezoid fixation)
Adjust to make the width of top horizontal line same with it of the bottom horizontal line.
- 8) PIN AM (Horizontal PARABOLA correction)
Adjust so that middle portion of the outermost left and right vertical line looks like parallel with vertical lines of the center screen.
- 9) V LIN (Vertical linearity adjustment)
Adjust the screen vertical size to be same

10) S CORRE (S correction)

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



The 7th Vertical Line ↑

11) AFC ANG (Vertical slope adjustment)

Adjust the slope of screen to be vertical.

12) AFC BOW (Vertical get bending adjustment)

Adjust the slope to be parallel when the vertical slope get bended.

13) UP CPIN (Upper Pin-cushion correction)

Adjust pincushion of upper screen.

14) LO CPIN (Lower Pin-cushion correction)

Adjust pincushion of lower screen.

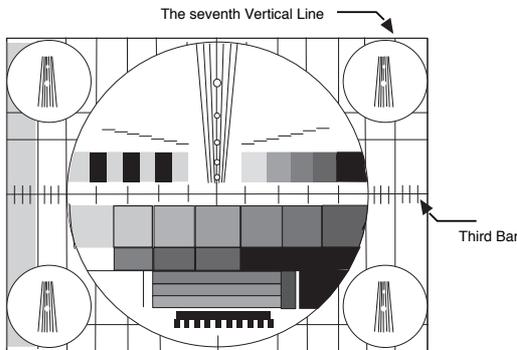
15) V SCROL (SCROLL adjustment of vertical screen)

16) After adjustment,press "ENTER" key to exit in RASTER adjustment mode

17) Exit the Adjustment mode by pressing the "IN-START" key.

3. NTSC Mode Deflection Adjustment

- 1) Adjust vertical size (VA adjustment) until 7th vertical bar from upper and lower center screen is accord with the edge of the frame.
- 2) Adjust horizontal size (EW adjustment) until third bar to indicate horizontal size of circle is accord with the edge of the frame.
- 3) Do other adjustments the same as in PAL mode.



● Lens Focus & Electronic Focus Adjustment

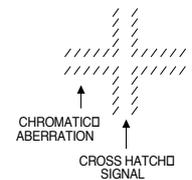
1. Preliminary steps

- 1) Electronic focus,Raster slope & Raster position must be pre-adjusted.
- 2) Heat-run over 45 minutes.
- 3) Receive the Cross-hatch pattern.
(PAL:EU07(PR 8) or NTSC:09CH(PR 13))

* Note: Loosen the butterfly nut in the lens tub slightly,being careful that it is not loosened to the point that the lens can move out of focus.

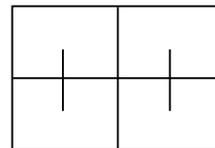
- 4) Adjustment must be done in a dark room(simple dark room) Be careful not to touch the lens during adjustment.
- 5) Make display of one color raster using lens covers.
- 6) Rotating lens right from the front side chromatic haze occurs beside Cross-hatch line changes as follows;

Lens	Change of chromatic aberration
Red	Orange ⇄ Scarlet
Green	Blue ⇄ Red
Blue	Violet ⇄ Green



2. G-lens Adjustment

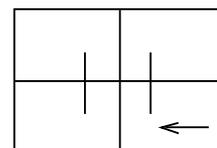
- 1) Rotate the lens until the chromatic haze changes from blue to red.
- 2) Viewing the all screen, in no case of the chromatic aberration appeared slimly within 3.5 cross-Hatch of the picture center. At this time, in case that the red chromatic aberrations bright line isn't equal, adjust Green lens so that the red chromatic aberration is appeared more than previous time.
- 3) Switching the signal to PAL 05CH(NASC 13CH) and operate adjustment minutely.
- 4) Adjust Green focus control volume of focus pack so that the external big circle's part appeared clearly.



- 5) Adjust accurately by repeat adjustment of upper.
- 6) Especially, noting to the Green light because it influenced on picture's function.

3. R-lens adjustment

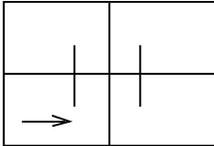
- 1) Rotate the RED lens until the chromatic haze changes from orange to scarlet.
- 2) Adjust to appear Red chromatic aberration in right 3.5 cross-hatch section at center screen.Adjust the chromatic aberration so that it located center correctly.



- 3) Switching the signal to PAL 05CH(NASC 13CH) and adjust it as same method of Green lens.
- 4) Adjust as same method of Green lens with Red focus control volume of focus pack.

4. B- lens adjustment

- 1) Rotate the lens until the chromatic aberration of 3.5 Cross-Hatch left from center point changes from Violet to Green. Adjust the chromatic aberration to be center point between violet and green.



- 2) Adjust as same as method of Green lens with Red focus control volume of focus pack.

5. Focus checking

After adjustment Red, Green & Blue lens, remove lens cover and receive Cross-Hatch pattern and check the overall focus. If needed, repeat above.

● Convergence Adjustment

1. Preliminary steps

This adjustment should be performed after warming up 45 minutes.

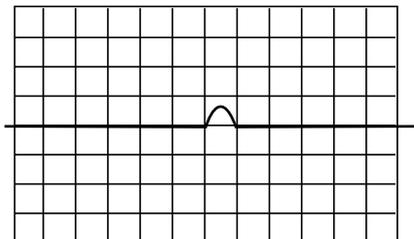
- 1) Adjust after Horizontal/Vertical Raster position, Beam alignment magnet, and focus adjustments have been completed.
- 2) Do it always with crosshatch pattern.
- 3) Adjust for both PAL and NTSC system.
- 4) Use the JIG screen with the cross hatch pattern for Adjustment.

2. Adjustment

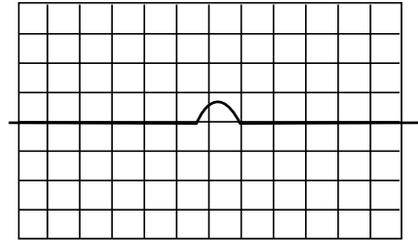
- 1) Press "IN-START" key on the remote controller and then select "3.CONVERGENCE" by cursor movement or numeric key
- 2) Press numeric key "9" & "5" to enter adjustment mode (vertical /horizontal phase adjustment)

3. Horizontal phase adjustment

- 1) NTSC adjustment: Move the convex part to the middle of between the vertical center line of screen and contiguous right vertical line. (Use "◀, ▶" key to adjust height of second check to be same.)



- 2) PAL adjustment: Move the convex part to the quarter point of between the vertical center line of screen and contiguous right vertical line.



4. Horizontal pattern position adjustment:

- 1) Change into pattern shift mode. (Press numeric buttons "9" & "4")
- 2) Make sure to overlap pattern and image. (Use MUTE button)
- 3) Accord the center of image and pattern. (Use "◀, ▶, ▲, ▼" key)
- 4) Quit pattern shift mode. (Press "ENTER" key)
- 5) Save adjusted phase/pattern position data (Press "9", "2" & "ENTER" key)

5. Auto convergence

Convergence is based on the auto adjustment using PC and Camera and if need, adjust manually like below method.

6. Green convergence adjustment

(In case of manual adjustment)

- 1) Show the OSD on screen by pressing "2" key, then change the OSD to green(G) adjustment mode with pressing TV/AV key.
- 2) Close the cover of red PRT and blue PRT so that green display on screen only.
- 3) Adjust to coincide green pattern with screen JIG pattern. (Use "◀, ▶, ▲, ▼" buttons)
At this time move cursor from center to around and adjust convergence.

7. Red convergence adjustment

(In case of manual adjustment)

- 1) Show the OSD on screen by pressing "2" key, then change the OSD to red(R) adjustment mode with pressing TV/AV button.
- 2) If the need arises, close the cover of the blue lens.
- 3) Coincide the red screen with the green screen in same way with that of green convergence adjustment.

8. Blue convergence adjustment

(In case of manual adjustment)

- 1) Show the OSD on screen by pressing 2 button, then change the OSD to blue(B) adjustment mode with pressing TV/AV button.
- 2) Coincide the blue screen with the green screen in same way with that of red convergence adjustment.

9. Saving adjusted data

(In case of manual adjustment)

- 1) To save the data after adjustment, Press "9", "1" & "ENTER" key.
- 2) Quit convergence adjustment mode. (Press "IN-START" button)

10. Auto-Convergence measuring

- 1) Operate the auto-convergence measuring in PAL/NTSC mode.
- 2) Operate in the condition of 'Zero magnetometer' in room after correcting convergence manually.
- 3) Press "IN-START" key on the remote controller and then select "3.CONVERGENCE" by cursor movement or numeric key
- 4) First of all,press "MENU" key and then select "3. AC POSITION MES"
- 5) If it becomes correct adjustment that appear "O.K" in center of screen.
- 6) After finished adjustment,press "ENTER","IN-START" key to exit from CONVERGENCE adjustment mode one by one .

● White Balance Adjustment

1. Test Equipment

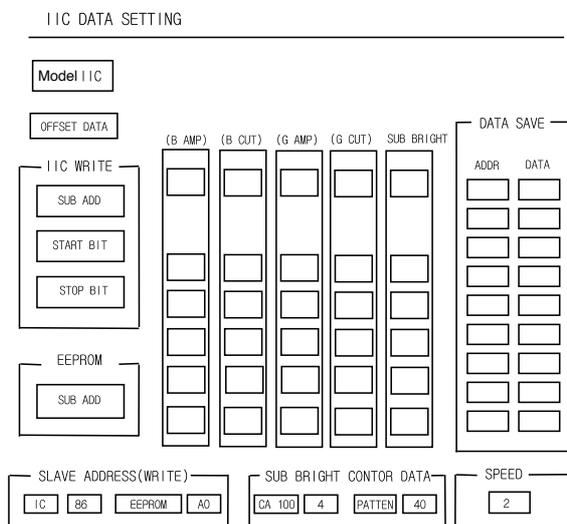
Brightness meter(CA110)

2. Adjustment

- 1) This adjustment must be operated when it finished screen adjustment and focus adjustment.
- 2) This adjustment must be operated in a dark room or equivalent.
- 3) The brightness meter must be located in 20 ± 5 cm distance from the center of the optical screen.
- 4) Set off to BURST OUT Setting of PATTERN GENERATOR
- 5) Heat-run over 45 minutes.

3. Automatic adjustment

- 1) Adjust to use automatic white balance adjustment



4. Manual adjustment sequence

- 1) Press "IN-START" key on the remote controller and then select "4. W/B" by movement of cursor or use of numeric key.
- 2) Receive window signal
 - *HIGH LIGHT adjustment mode luminosity: 44 inch model -> 300 ± 3 cd/m²
 - LOW LIGHT adjustment mode luminosity: All model -> 10 ± 3 cd/m²

- 3) Set brightness to HIGH LIGHT adjustment mode of 2) and adjust R DRIVE and B DRIVE data until color coordinate becomes $X=283 \pm 3$ and $Y=292 \pm 3$.
- 4) Set brightness to LOW LIGHT adjustment mode of 2) and adjust R-CUTOFF and B-CUTOFF data until color coordinate becomes $X=283 \pm 3$ and $Y=292 \pm 3$.
- 5) After adjustment,press "ENTER" key to exit from RASTER adjustment mode on the remote controller.
- 6) Press "IN-START" key to exit from SVC adjustment mode.

● Auto-Convergence Check

1. PAL Auto-Convergence Check

- 1) Receive EU05 CH signal.
- 2) Change the magnetometer in magnetometer.
- 3) Press "IN-START" key on R/C for adjustment and press the "9.AUTO CONV" to check whether Auto-Convergence works normally.

2. NTSC Auto-Convergence Check

- 1) Receive NTSC 13CH of in-house or MULTI 48 CH signal
- 2) Change the magnetometer in magnetometer.
- 3) Press "IN-START" key on R/C for adjustment and press the "9.AUTO CONV" to check whether Auto-Convergence works normally.

● Check the Option Adjustment

- 1) Check the OPTION1~4 is well recorded.
- 2) The option value of each suffix is started on JOB EXP of 3141VMN chassis Assy.

● CXA2180, AD9883, Default DATA

1.CXA Default Data (Decimal Data)

NO	ITEM	DATA	NO	ITEM	DATA	NO	ITEM	DATA	NO	ITEM	DATA
1	R-Drive	18	11	G-ON	1	21	ABL-MOD	2	31	CR-OFFS	31
2	G-Drive	31	12	B-ON	1	22	CTI-MOD	0	32	AGING-W	0
3	B-Drive	28	13	DCOL	3	23	GAMMA	2	33	AGING-B	0
4	R-Cutoff	10	14	EXT-SW	0	24	LTI-MOD	1	34	SYSTEM	1
5	G-Cutoff	35	15	SHP-FO	0	25	DPIC-LE	3	35	Y-OFFSE	7
6	B-CutOf	10	16	BLK-BTM	0	26	DC-TRAN	2	36	VM-DLY	2
7	S-BRIGH	12	17	PRE-OVE	3	27	LRGB2-L	13	37	VM-FO	2
8	S-CONTR	0	18	CTI-LEV	0	28	P-ABL	11	38	R-Y/R	13 7
9	PIC-ON	1	19	LTI-LEV	2	29	ABL-TH	7	39	R-Y/B	15 10
10	R-ON	1	20	PLIMIT_L	3	30	CB-OFFS	31	40	G-Y/R	8 8

NO	ITEM	DATA	NO	ITEM	DATA	NO	ITEM	DATA	NO	ITEM	DATA
41	G-Y/B	4 6	51	PIN-PHA	34 32	61	UP-UCG	1	71	EW-DC	0
42	VM-LEV	6	52	PIN-AMP	23 21	62	LO-UCG	1	72	VBLK-SW	0
43	FLCOL	1	53	V-LIN	7 7	63	UC-POL	0	73	CLP-SHI	0
44	FLCOL-S	1	54	S-CORRE	0 0	64	UP-BLK	0	74	NON-INT	0
45	H-POSIT	43	55	AFC-BOW	29 29	65	LO-BLK	0	75	AFC-MOD	1
46	V-POSIT	31	56	AFC-ANG	31 31	66	LEFT-BL	31	76	CLP-PHA	0
47	H-SIZE	15 17	57	UP-CPIN	40 41	67	RIGHT-B	31	77	CLP-GAT	0
48	V-SIZE	29 31	58	LO-CPIN	28 29	68	V-ASPEC	47	78	HBLK-SW	0
49	UP-VLIN	8 8	59	UP-UCP	1	69	V-SCROL	25 27	79	ZOOM-SW	0
50	LO-VLIN	3 3	60	LO-UCP	1	70	V-ON	1	80	JMP-SW	0

NO	ITEM	DATA
81	VFREQ	0
82	V-COMP	0
83	H-COMP	0
84	AKB-TIM	11
85	BLK-Off	0
86	AKB-Off	0

2.AD9883 Default Data

2.1 RGB-PC Mode (Hexa)

NO	ITEM	DATA
1	R OFFSE	45
2	G OFFSE	45
3	B OFFSE	45
4	R GAIN	46
5	G GAIN	46
6	B GAIN	46

2.2 RGB-DTV Mode (Hexa)

NO	ITEM	DATA
1	R GAIN	7F
2	R OFFSE	45
3	B GAIN	7F
4	B OFFSE	45
5	G OFFSE	7F
6	G GAIN	45

● SVC Adjustment mode & Initial data

1. White Balance adjustment data (IC:CXA2180)

Menu	Description	Range	Default
RD	Red Drive		10
GD	Green Drive		1F
BD	Blue Drive		1C
RC	Red Cut-off		0F
GC	Green Cut-off		23
BC	Blue Cut-off		0F
AGC-L	AGC LEVEL		DE

2. Deflection adjustment data (IC:CXA2180)

Menu	Description	Range	Default	
			PAL	NTSC
H POSIT	Horizontal position	64	2B	2B
V POSIT	Vertical position	64	1F	1F
H SIZE	Horizontal size	64	F	11
V SIZE	Vertical size	64	1D	1F
UP VLIN	Upper vertical linearity	16	8	8
LO VLIN	Low vertical linearity	16	3	3
PIN PHA	Pincushion phase	64	22	20
PIN AMP	Pincushion amp	64	17	15
V LIN	UP Vertical linearity	16	7	7
S CORRE	Vertical S-Correction	16	0	0
AFC BOW	AFC BOW	64	1D	1D
AFC ANG	AFC Angle	64	1F	1F
UP CPIN	Upper coner pincushion	64	28	29
LO CPIN	low coner pincushion	64	1C	1B
V SCROL	Vertical scroll	64	19	1B

3. Sound adjustment data (IC:MSP3411G)

Menu	Description	Range	Default
FM	FM Prescaler		15
NP	NICAM Prescaler		50
SP	SCART Prescaler		10
S1 VOL	SCART 1 Volume		78
S2 VOL	SCART 2 Volume		78
MDB-STR	MDB Effect Bass Strength		FD
MDB-HMC	MDB Harmonic Content		64
MDB-HP	MDB High Pass		06
MDB-LP	MDB Low Pass		09
MDB-LIM	MDB Amplitude Limit		24

• MDB(MICRONAS DYNAMIC BASS)

● Convergence Adjustment Mode

0.AC POSITION READ : Distance data(After auto convergence measuring)

1.Save to 50Hz/60Hz : Save (convergence adjustment data)
It's same 9,1,OK.

2.Save Control data : Save (A phase adjustment data)
It's same 9,2,OK.

3.AC Position Meas. : Execute(auto convergence measuring)

4.Pattern : Adjust location of convergence pattern.
It's same 9,4,OK.

5.Phase : Adjust a phase of convergence pattern.
It's same 9,5,OK.

6.GRID Border

Item	Description	(PAL)	(NTSC)
HGD	Horizontal Grid Distance	27	27
HRD	Horizontal Retrace Distance	55	55
VGD	Vertical Grid Adjustment	51	63
BPH	Border Position Horizontal	20	18
BPV	Border Position Vertical	38	35

7.FOCUS: Set the Dynamic Focus Data

Item	Description	(PAL/NT)
FV1	Focus parabola top value	48
FV2	Focus parabola middle value	35
FV3	Focus parabola bottom value	49
VFP	Focus parabola position	21
FSB	Start of the retrace value	53
FVR	Focus value during frame retrace	50
STA	Force the video pattern fast blanking	110
ACO	Auto convergence offset	60
OPT	Auto C/G Measuring initial pattern data	MICOM
INIT	MICOM data ->EEPROM	NO

8.OSD POSITION

9.AC PATTERN ADJ :Assign location for pattern start

<PAL mode>

<NTSC mode>

H,V	H,V	H,V
16,31	5,24	11,40
17,35	4,23	12,33
17,37	3,23	12,32
12,42		15,42
11,42		15,42
11,42		15,42
15,14	5,30	12,12
15,14	4,30	13,14
15,12	3,31	13,16

H,V	H,V	H,V
15,21	6,7	15,25
12,22	3,6	15,20
14,24	3,6	17,17
9,51		19,52
8,51		19,52
8,51		19,54
11,36	4,55	13,35
10,35	3,55	15,38
10,35	1,55	14,40

● OPTION Data Adjustment

No	Range	Description	Default
option1	200 PR	1: 200 Program(CHINA Only)	0:100P
		0: 100 Program	1:200P
	BLUACK	1: With BLUE BACK	0:OFF
		0: Without BLUE BACK	1:ON
	DUAL	1: Save Dual Sound Condition	0:SAVE
		0: Not Save Dual Sound	1:Not save
	TOP	1: TOP + FLOF TEXT	0:Enable
		0: FLOF TEXT	1:Disable
	EYE	1: With Digital EYE	0:OFF
		0: Without Digital EYE	1:ON
	A2 ST	1: With FM Stereo	0:ON
		0 : Without FM Stereo	1:OFF
	SYSTEM	0 : BG//DK(RE-)	0:BG//DK
		1 : BG/L(RL-)	1:BG/L
2: BG//DK/M(RT-)		2:BG//DK/M	
3 : RESERVED		3:Reserved	
option2	ACMS	1: With Channel Name Display (All Countries except Australia) 0: Without Channel Name Display (Australia)	0:OFF 1:ON
	S-CURVE	1: Rushed Sound Curve (Middle East ASIA,ASIA) 0: Standard Sound Curve (Other countries)	0:Low curve 1:High curve
	HEADPH	1: With Headphone 0: Without Headphone	0:OFF 1:ON
	DVD	1: With Component input 0: Without Component input	0:OFF 1:ON
	SAV	1: With SCART YC 0: Without SCART YC	0:OFF 1:ON
	WOOFER	1: With WOOFER 0: Without WOOFER	0:OFF 1:ON
	RGB-PC	1: RGB MODE ON 0: RGB MODE OFF	0:OFF 1:ON
	LAST AV	1: LAST AV ON 0: LAST AV OFF	0:Non Memory 1:Memory
option3	AV4	1: With SCART AV 0: Without SCART AV	0: 1:
	WIDE	1: With wide picture 0: Without wide picture	0: 4:3 Model 1: 16:9 Model
	CHINA	1: China+Australia channel table 0: Other countries channel table	0:BB table off 1:BB table on
	HDEV	1:Sound high DEV(China,India) 0:Without sound high dev (Etc.)	0:H-dev off 1:H-dev on

No	Range	Description	Default
option3	TEXT	1: With Teletext 0: Without Teletext(CHINA)	0:Teletext off 1:Teletext on

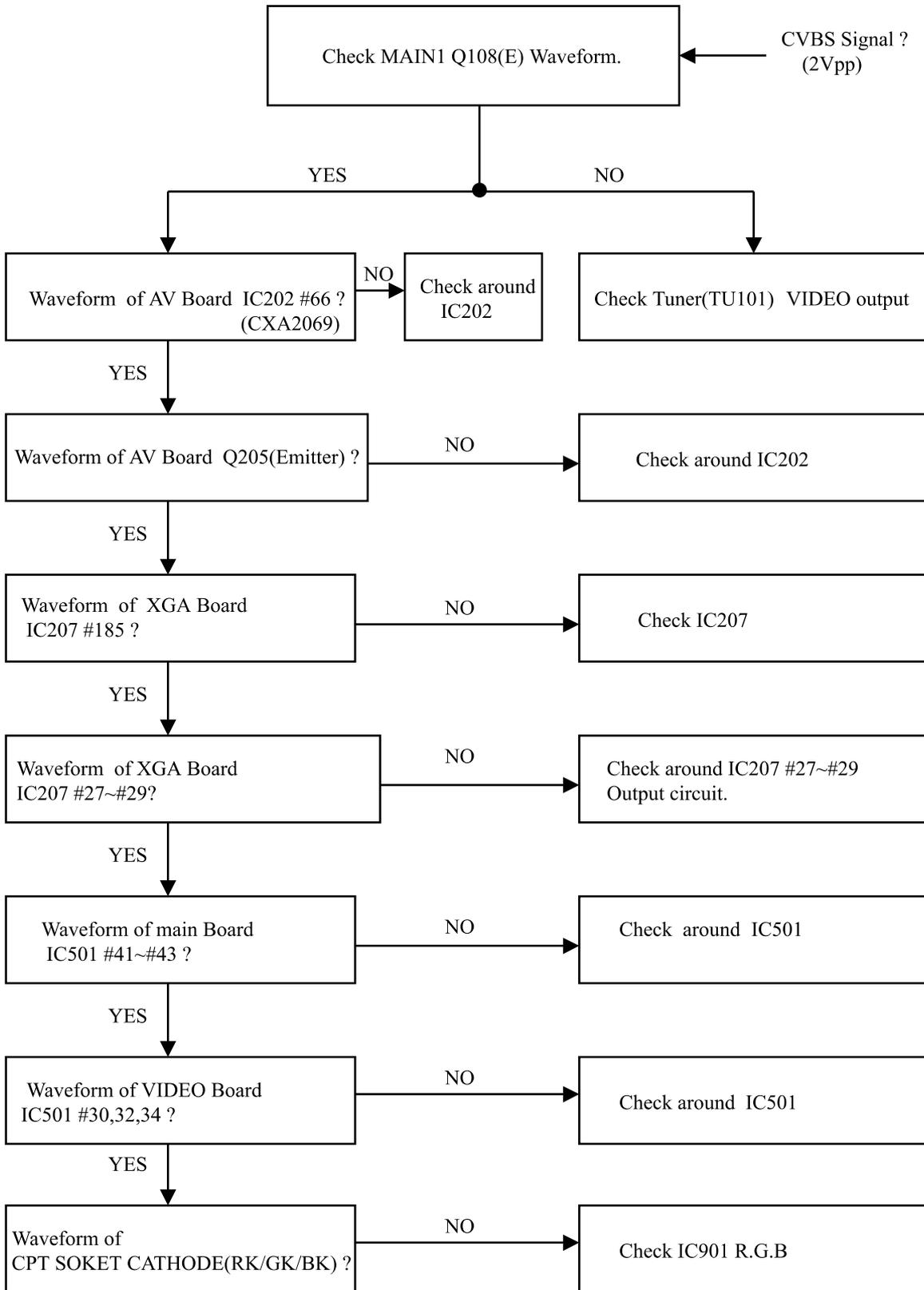
No	State	Language	Function	Default
option4	LANG	0:ENG Only	English	
		1:EU 5EA	English/German/French/Italy/Spanish	
		2:EU ETC	Pol./Hungary/Czecho/Russia/Eng	
		3:PARSI	English/Parsi	
		4:ARAB URDU	English/French/Arab+Urdu	
		5:English+Hindi	English/Hindi	
		6:English+I+M+V	English/Indonesian/Malaysian/Vietnamese	
		7:English+THAI	English/Thai	
	8:English+China	English/China		
	T-LAN	0:West Europe	English/French/Swedish/Czech/German/Spanish/Italian	
		1:East Europe	Polish/French/Swedish/Czech/German/Slovenian/Italian/Rumanian	
		2:Turkey EU	English/French/Swedish/Turkish/German/Spanish/Italian	
		3:EAST EU2	English/Hungarian/Serbian/Czech/German/Polish/Spanish/Italian/ Romanian	
		4:Cyrillic 1		
		5:Cyrillic 2		
		6:Cyrillic 3	Russia	
		7:Turkey/Greek 1		
		8:Turkey/Greek 2		
		9:Turkey/Greek 3		
		10:Arab/France		
		11:Arab/English		
		12:Arab/Hebrew 1		
		13:Arab/Hebrew 2		
		14:Farsi/English		
		15:Farsi/France		
		16:Farsi all		

***Picture data by picture mode : Need not adjustment**

No	PICTURE MODE	CONTRAST	BRIGHT	COLOR	SHARPNESS
1	DYNAMIC	100	55	50	60
2	STANDARD	95	50	50	50
3	MILD	60	50	40	40
4	GAME	50	50	40	35
5	USER	100	55	50	60

TROUBLE SHOOTING

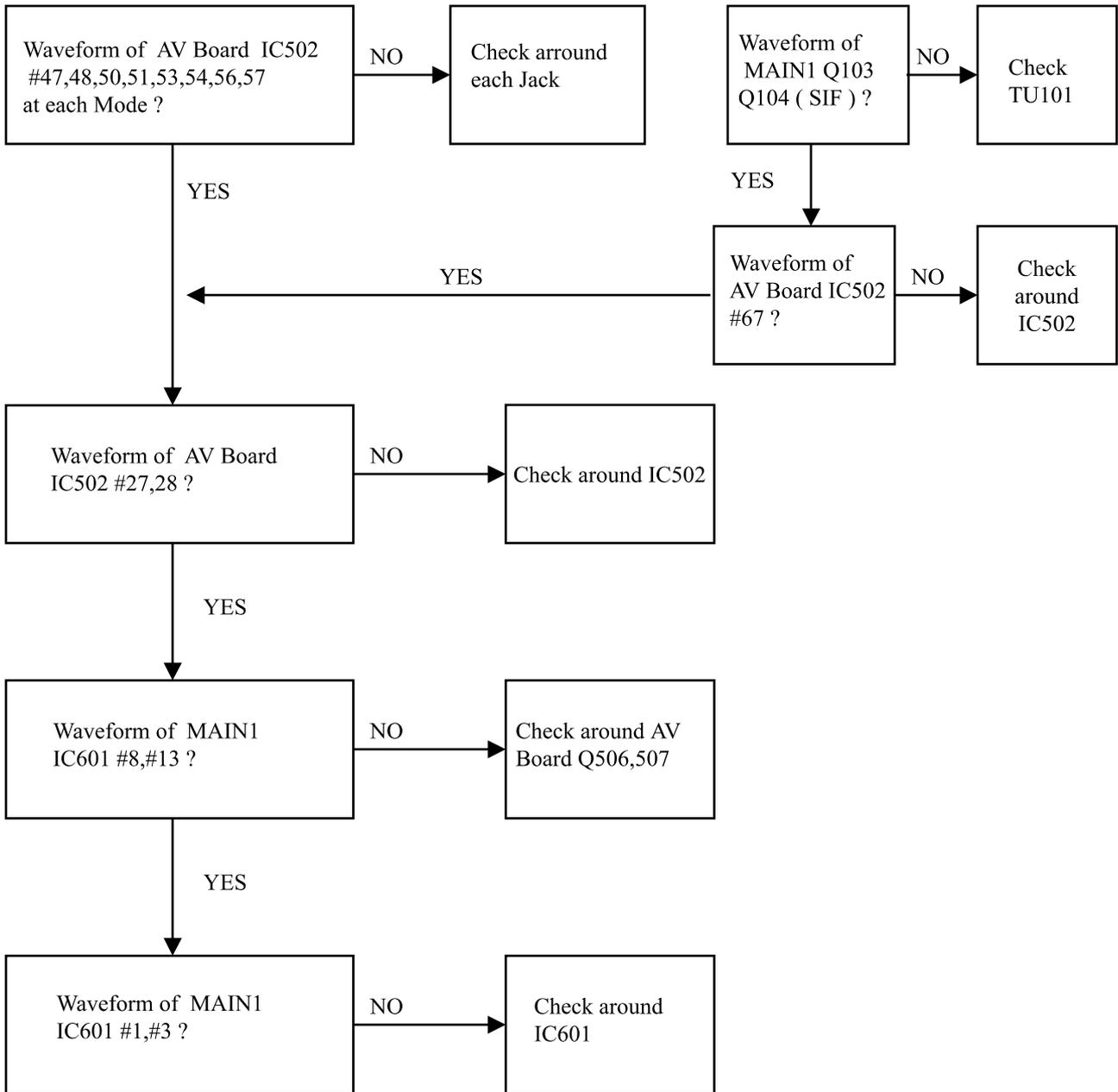
1. NO PICTURE (SOUND OK)



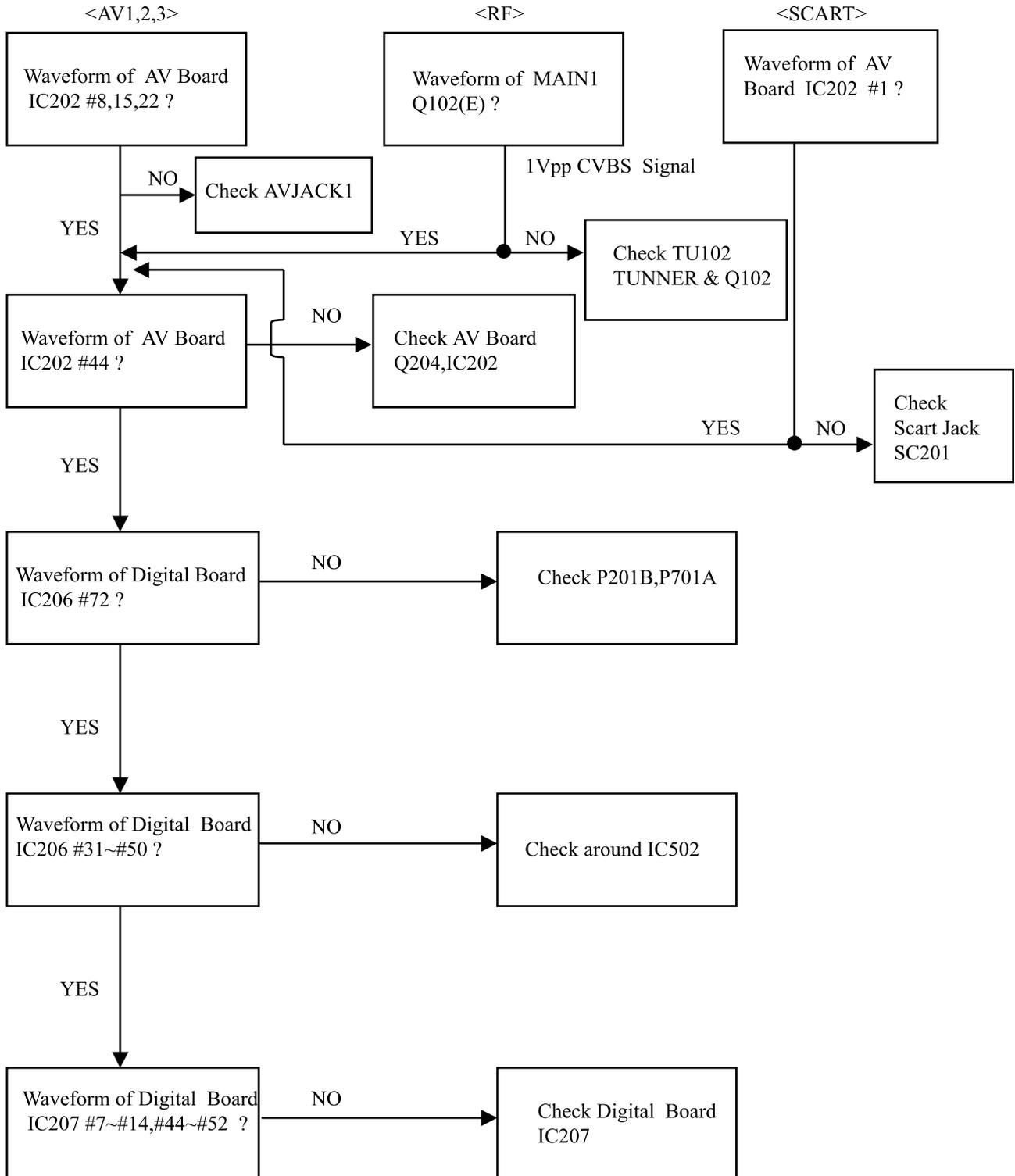
2. NO SOUND (PICTURE OK)

<AV1,2,3,DVD(480i),DVD(480p) RGB D -TV,RGB PC >

< RF >

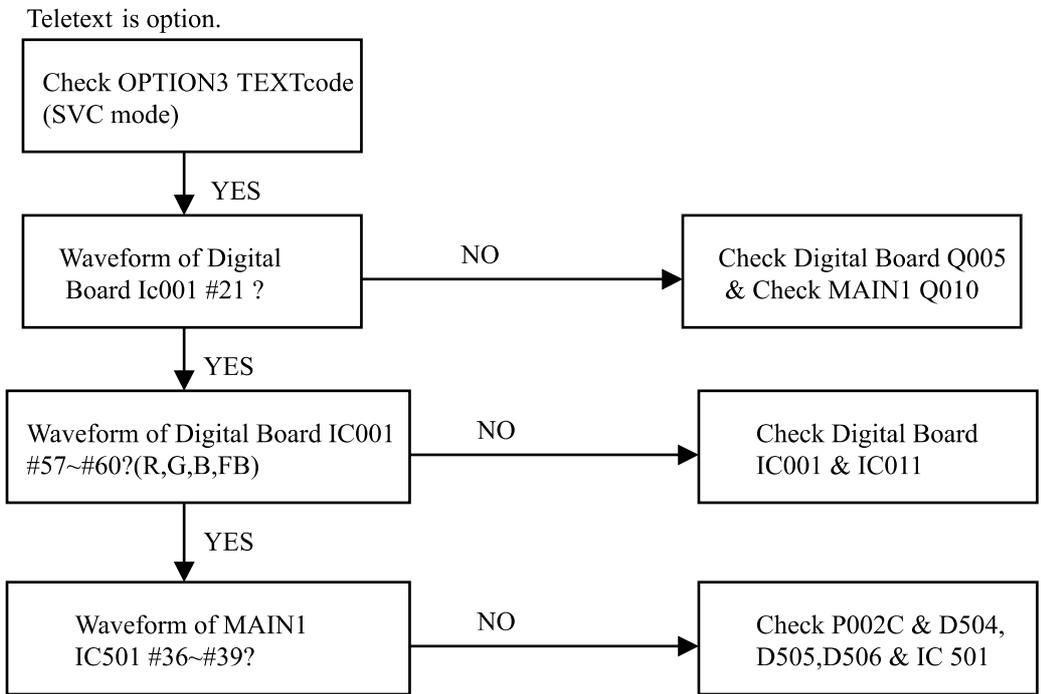


3. NO PIP



SCART is option.

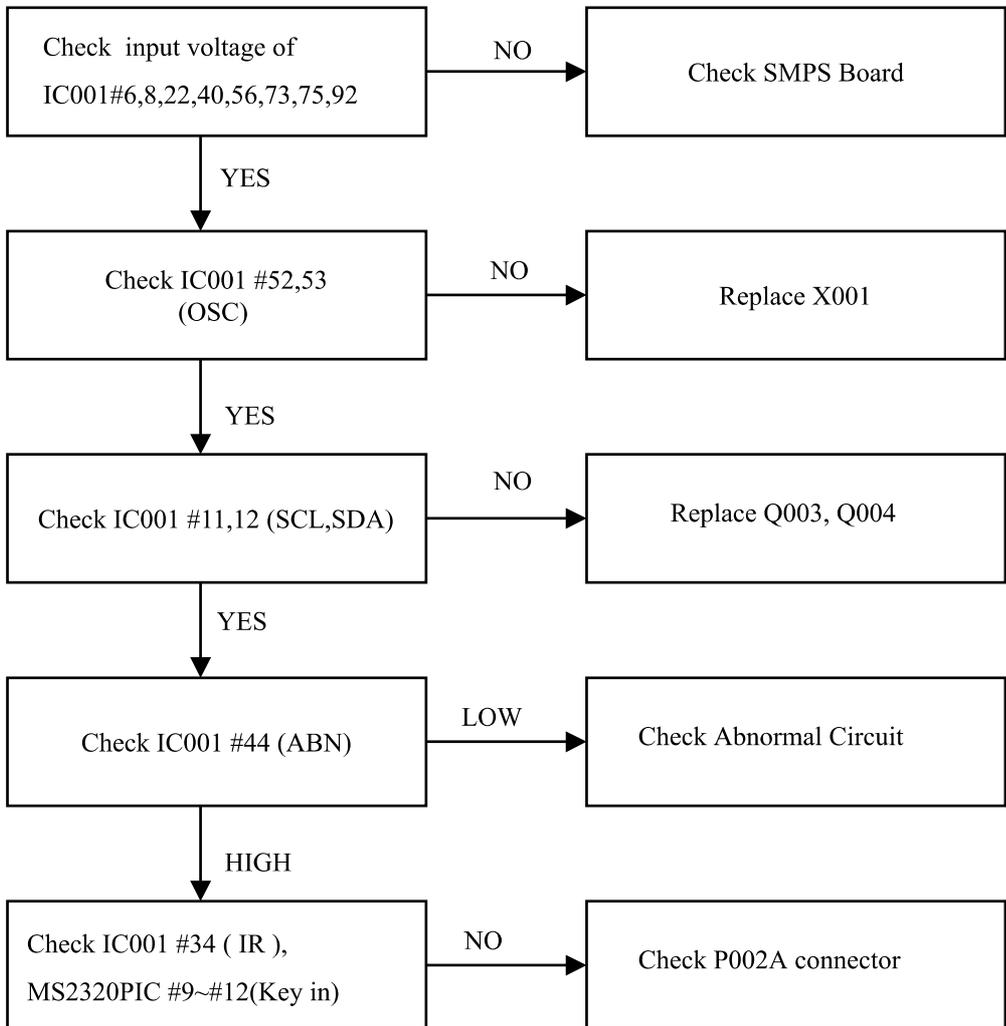
4. NO Teletext (Picture OK)



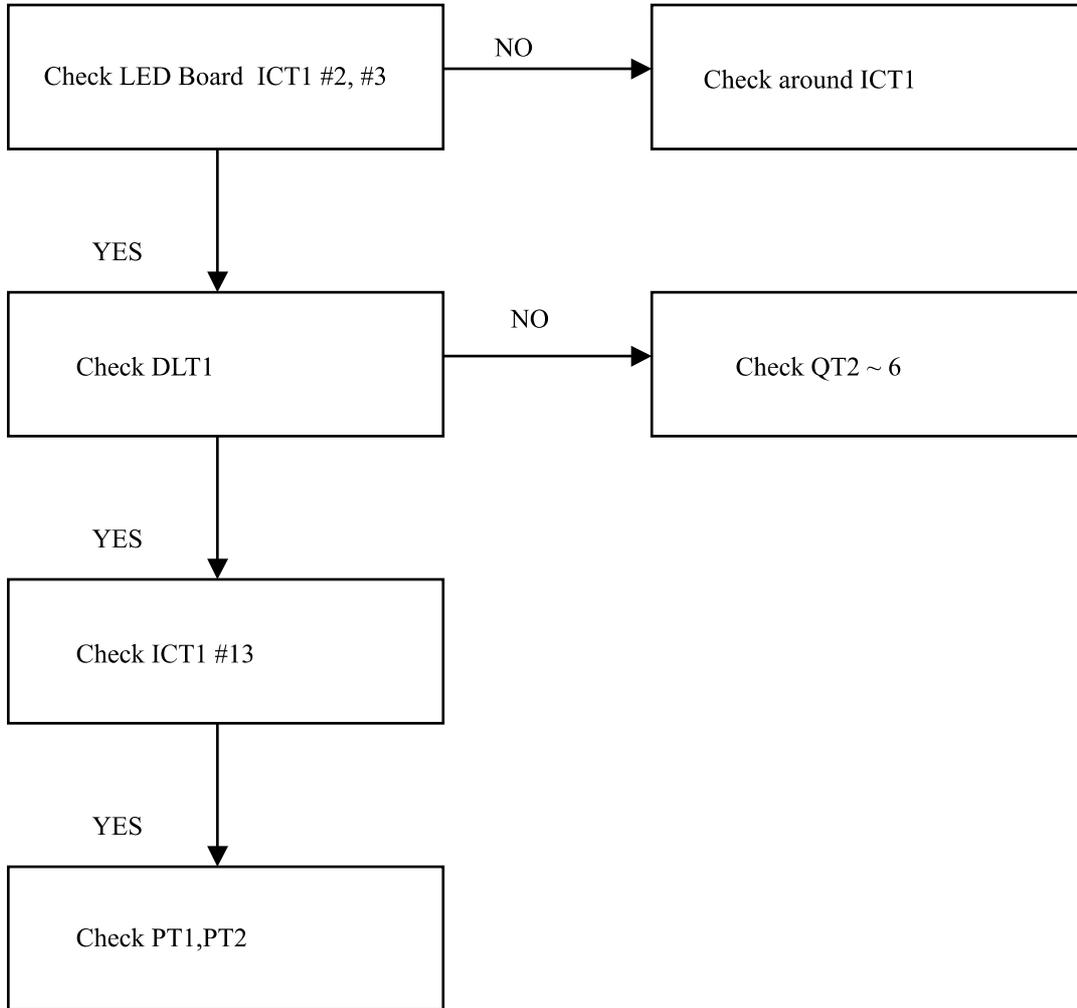
5. NO OSD (ON SCREEN DISPLAY)

Check Digital Board around IC207,IC208,IC209

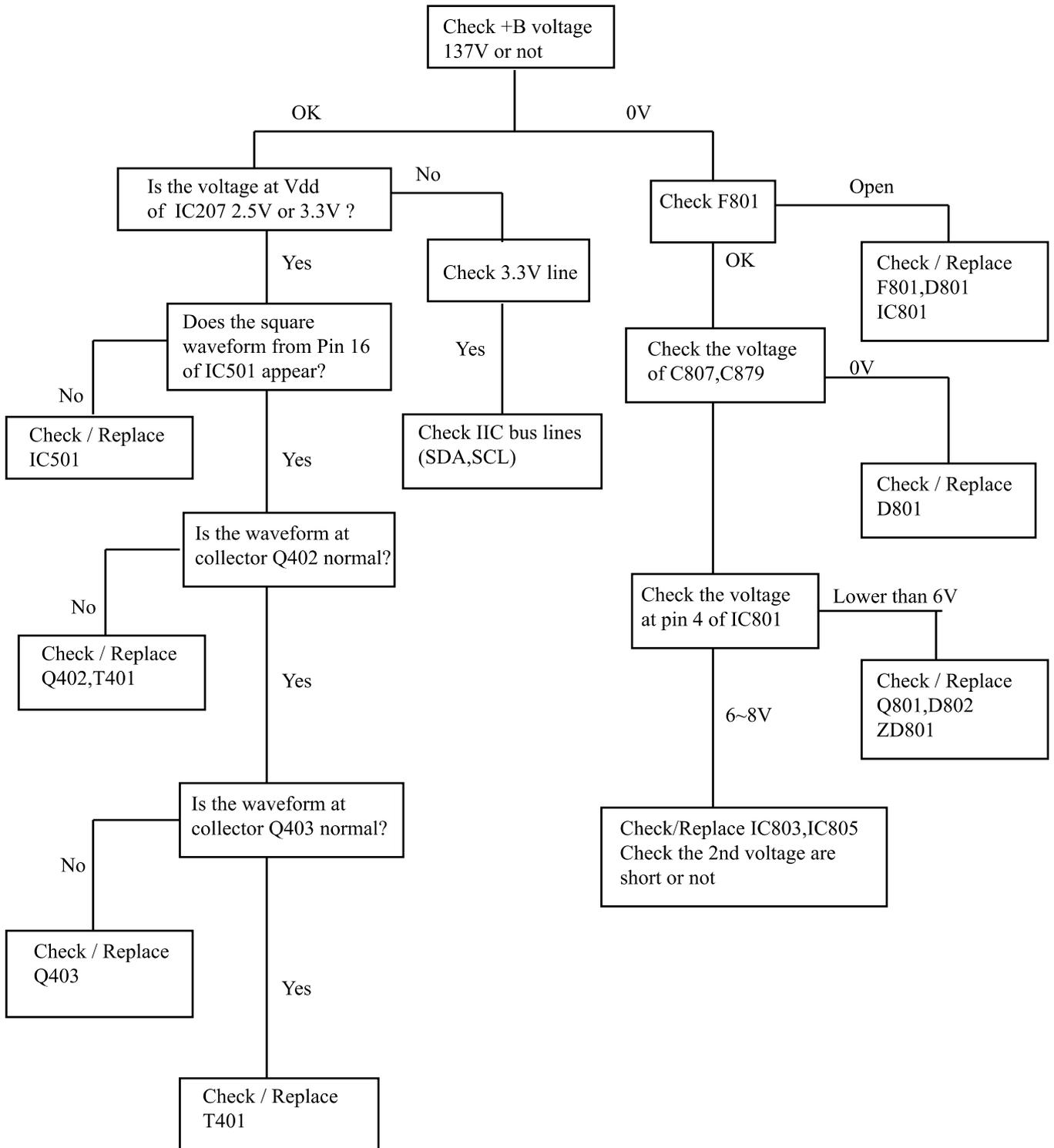
6. NO POWER ON



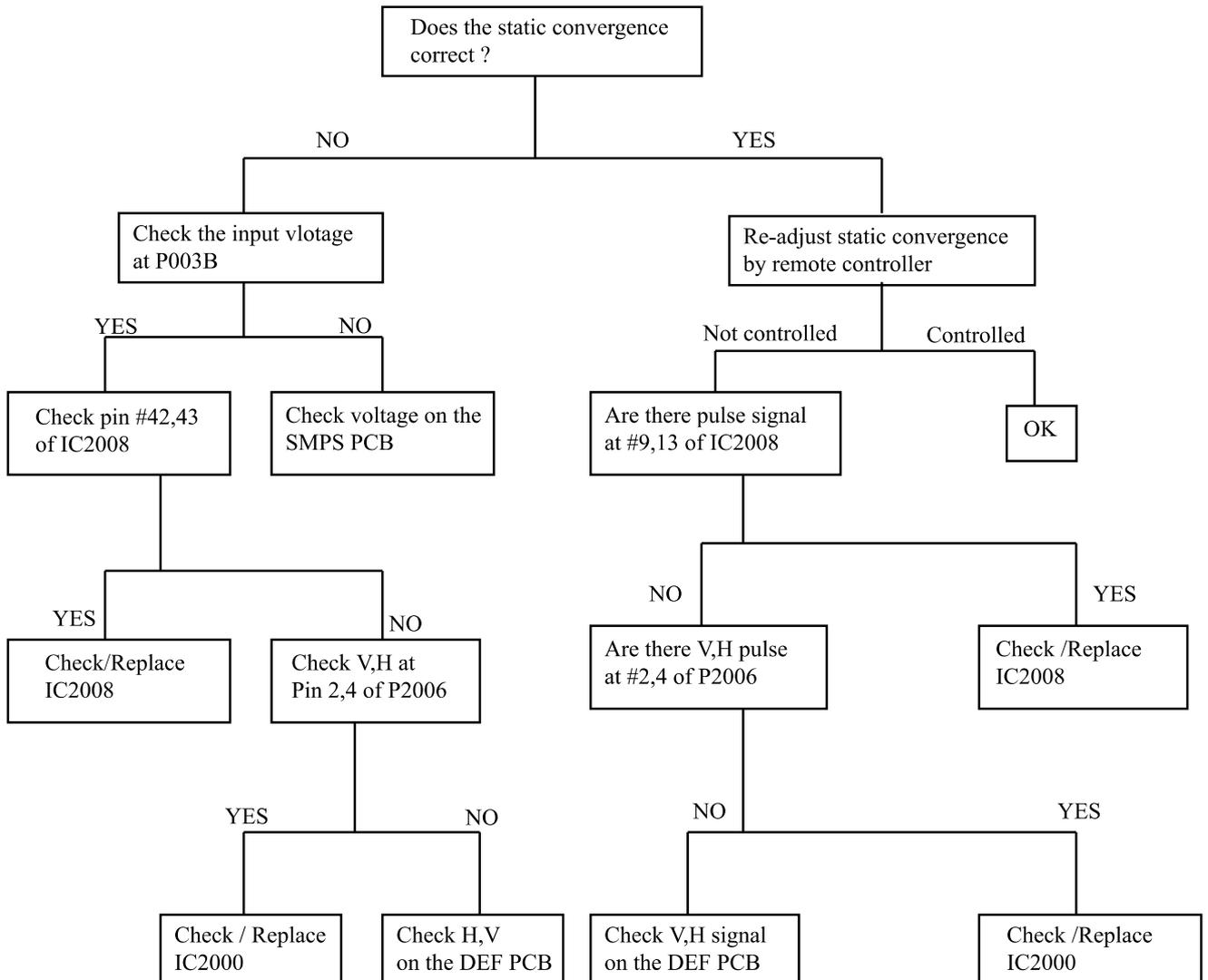
7. NO LED OPERATION



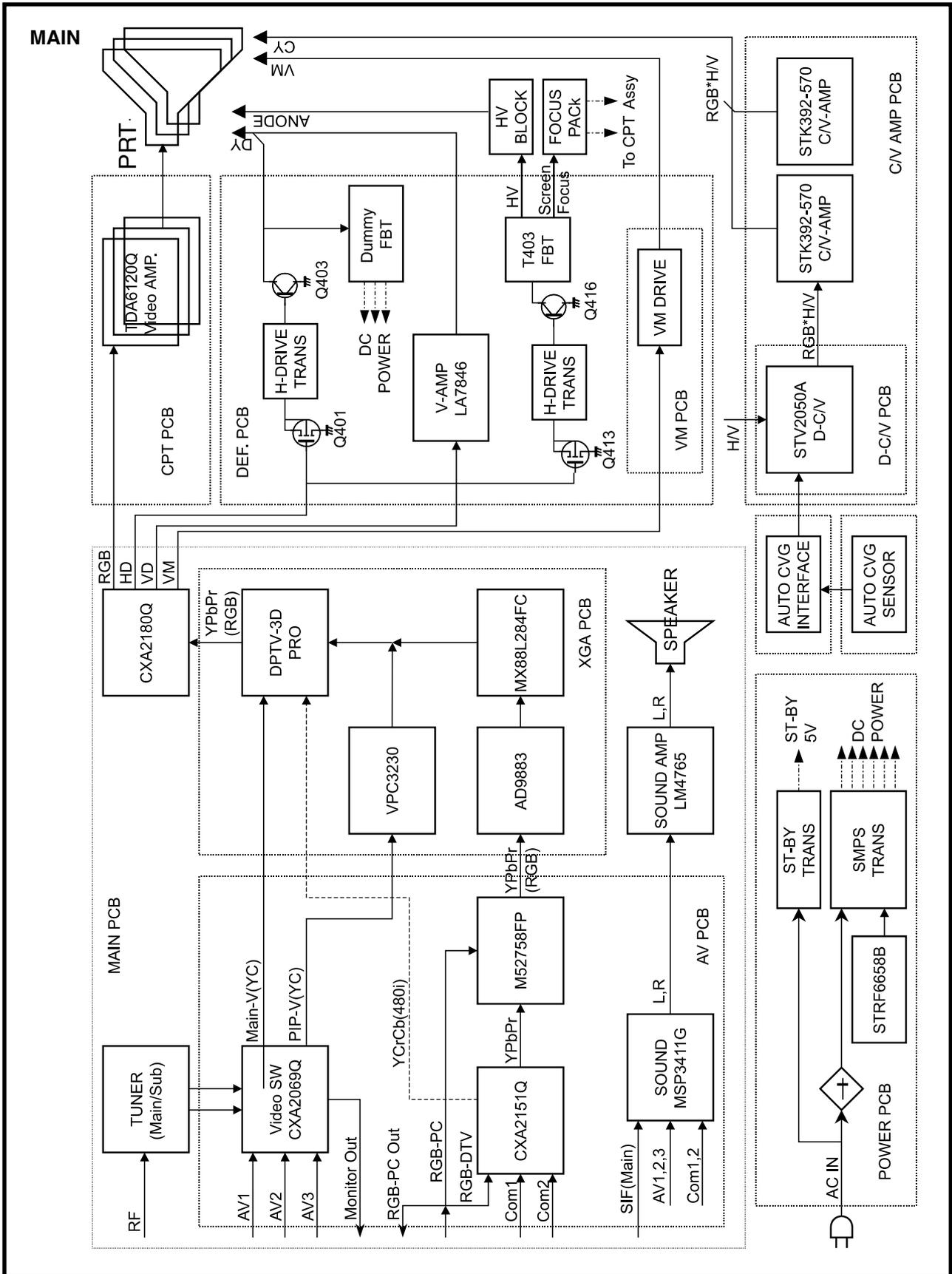
8.NO RASTER



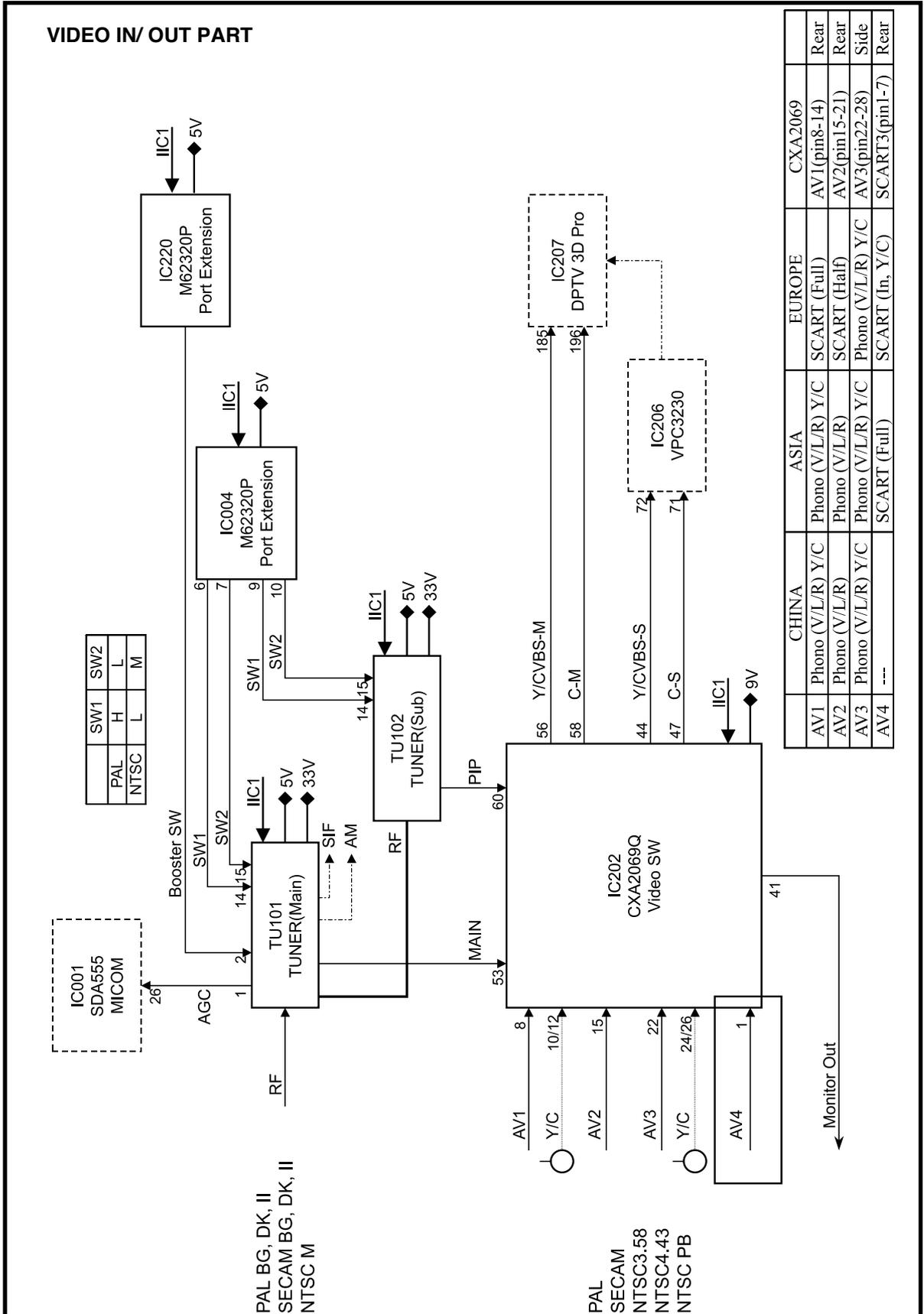
9. INCORRECT CONVERGENCE



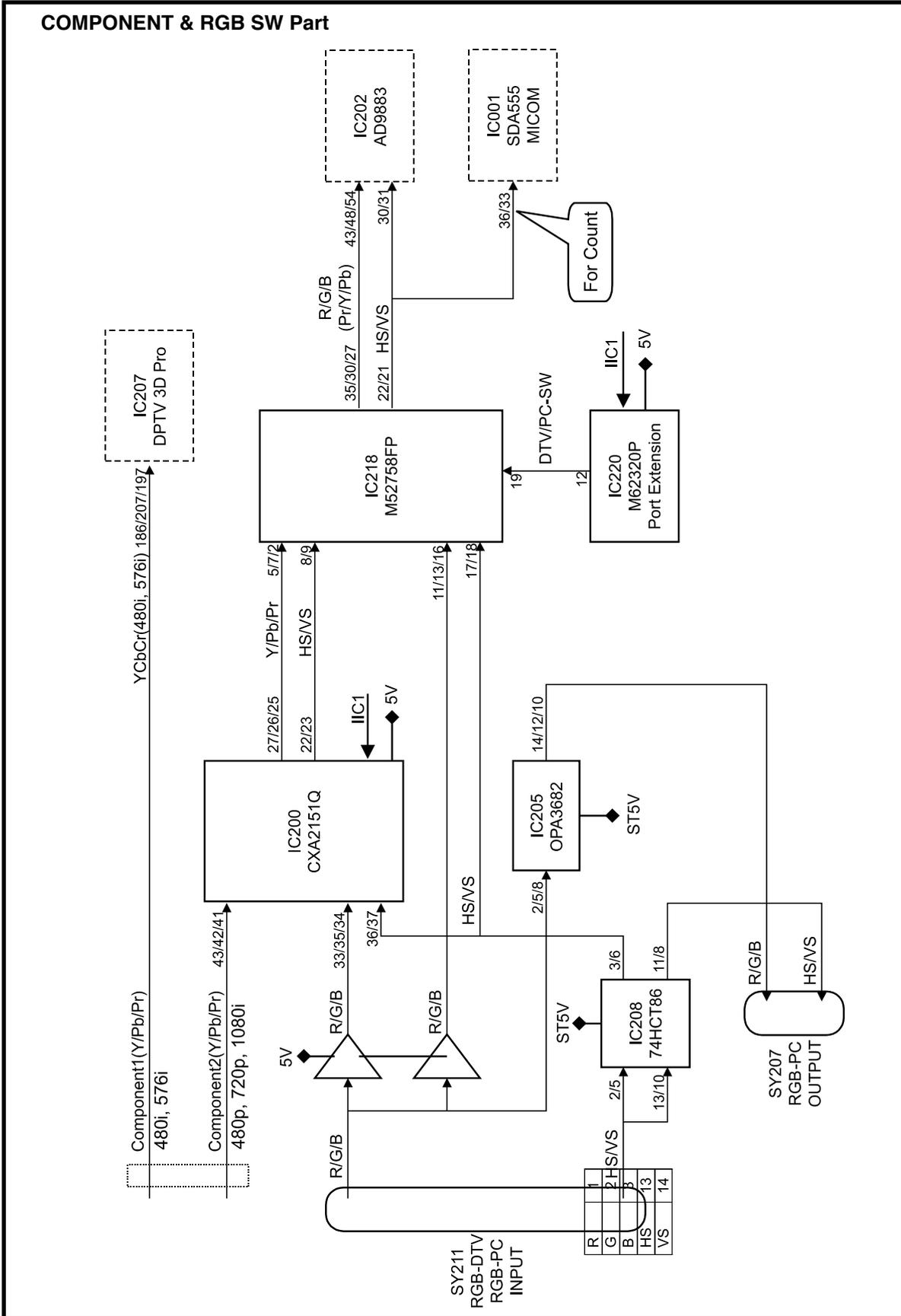
BLOCK DIAGRAM



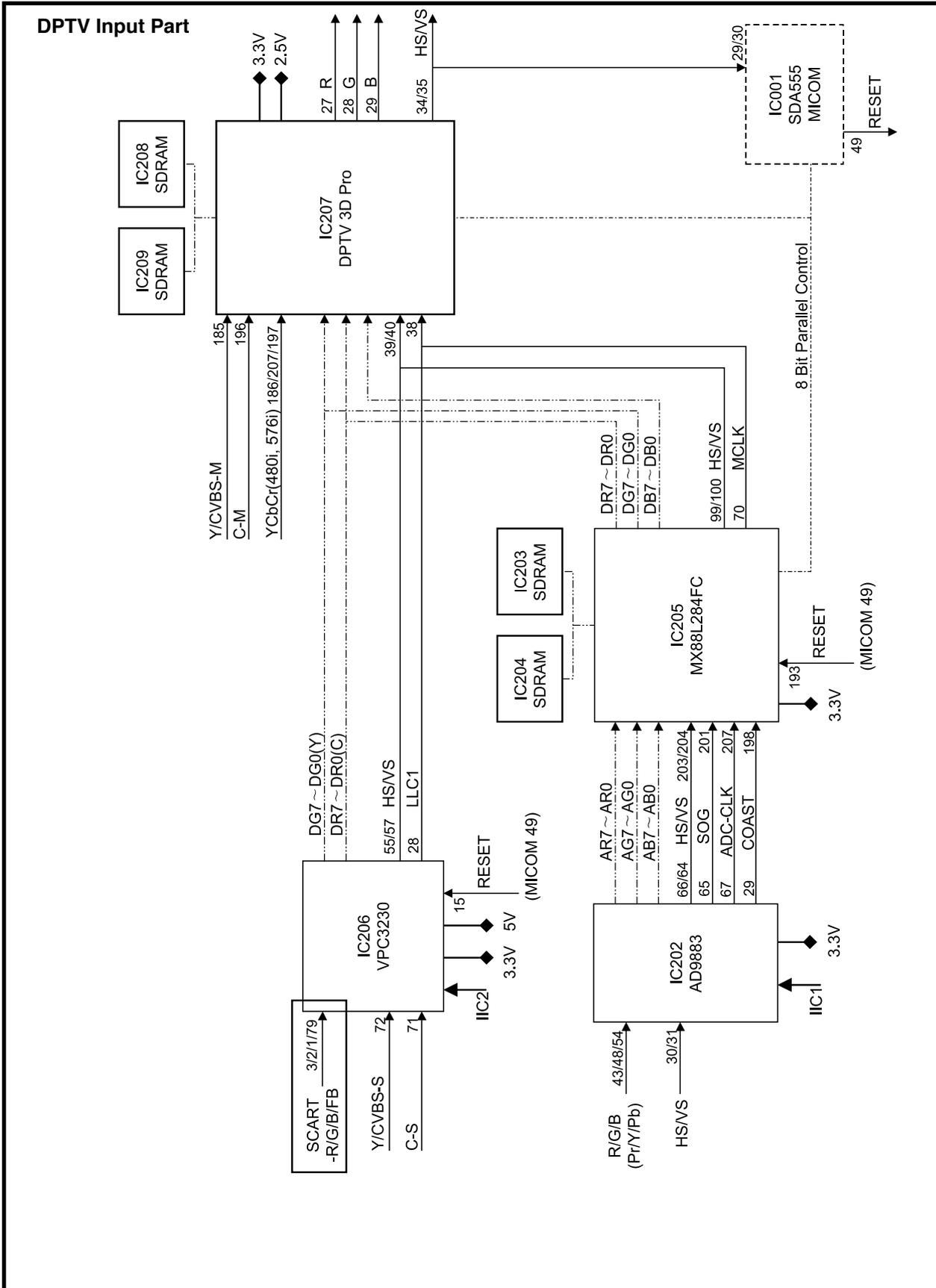
BLOCK DIAGRAM



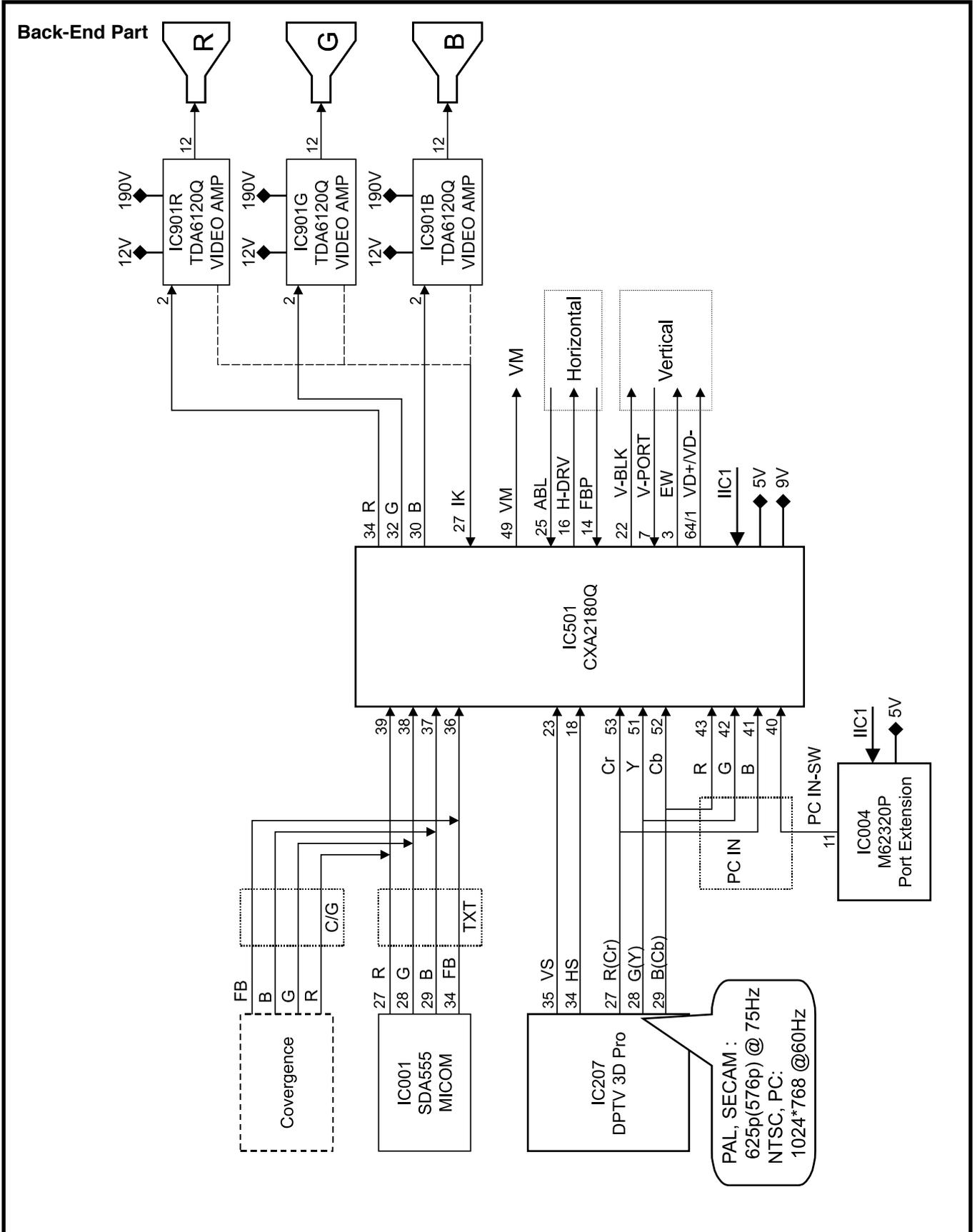
BLOCK DIAGRAM



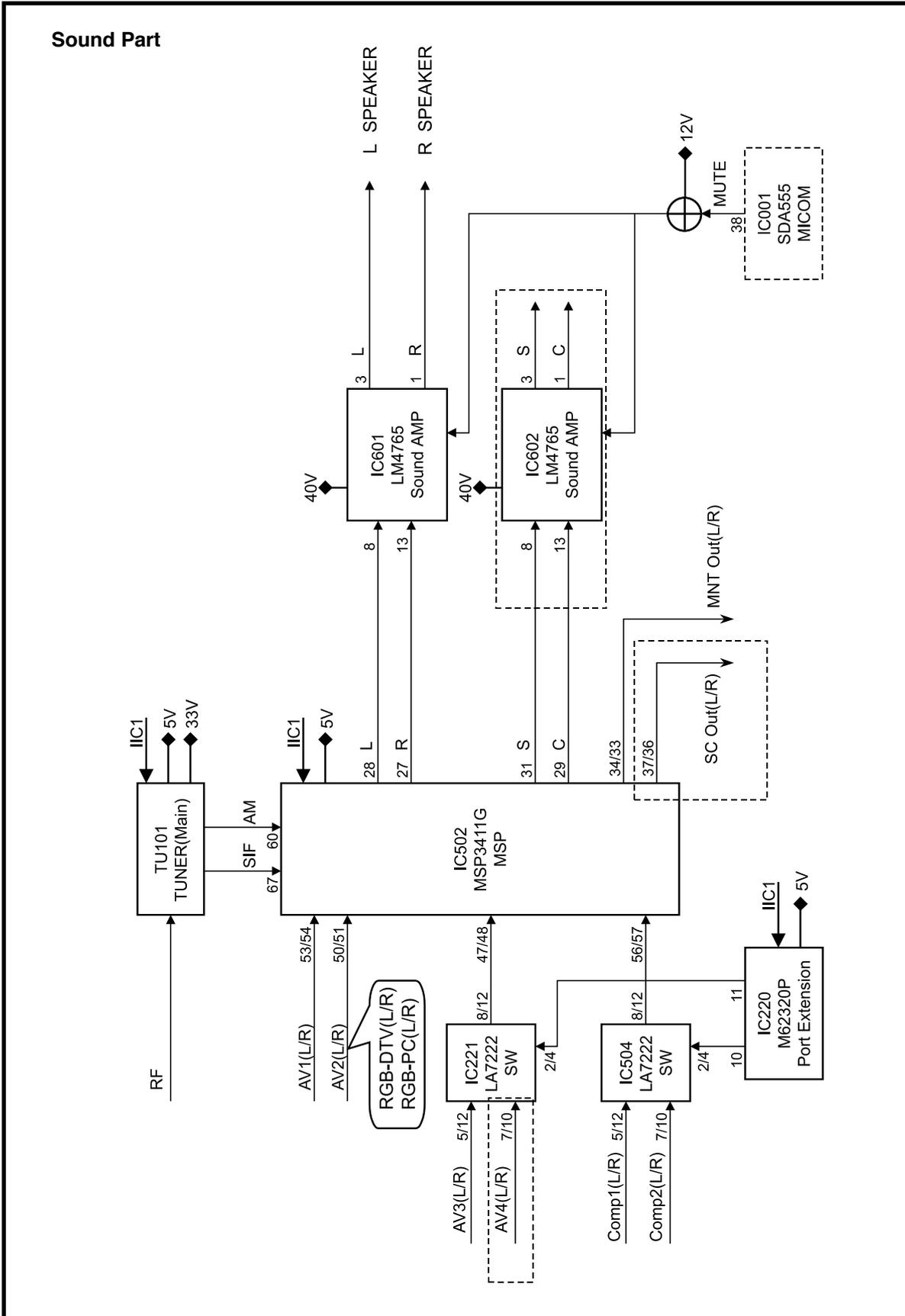
BLOCK DIAGRAM



BLOCK DIAGRAM



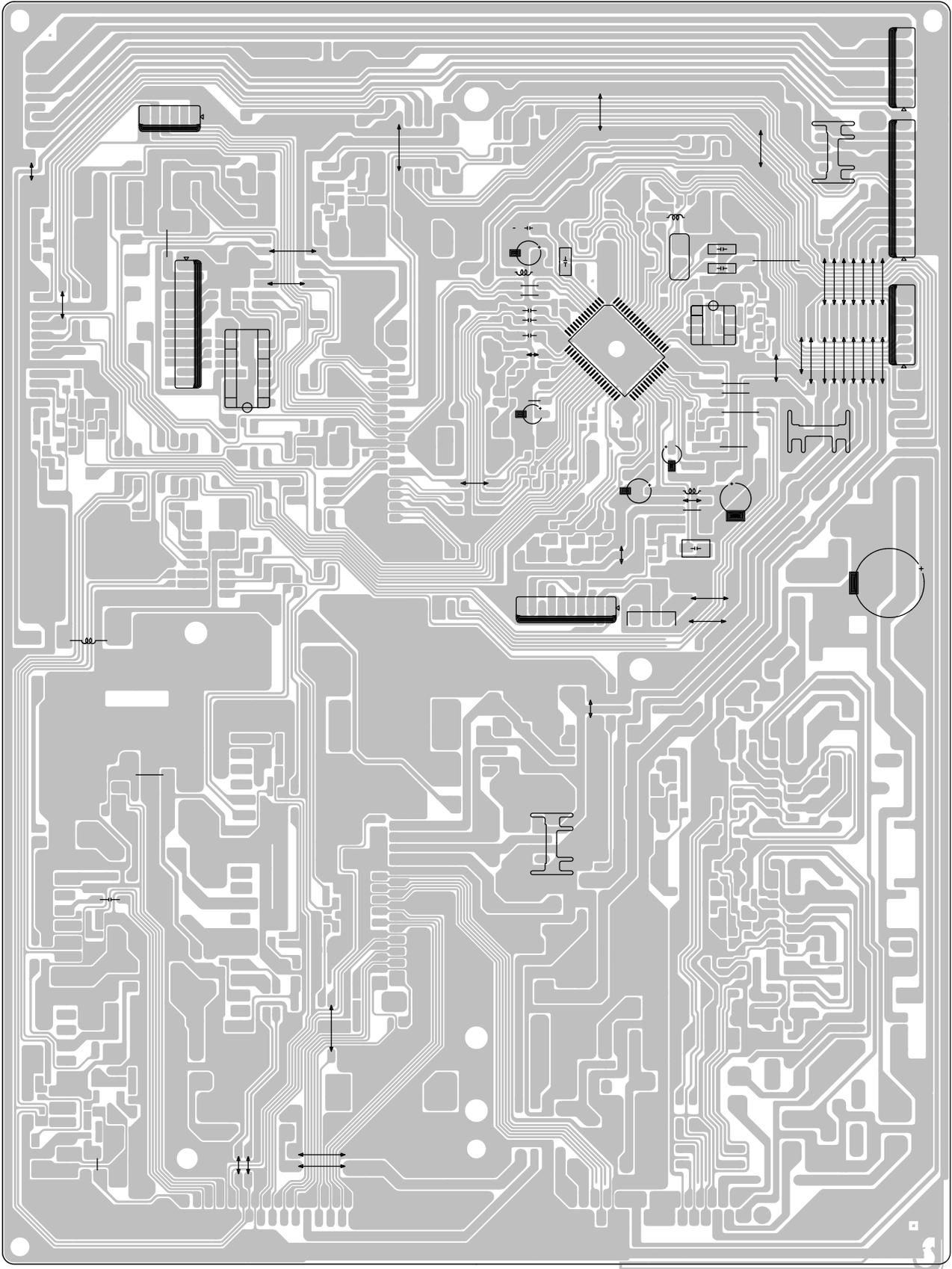
BLOCK DIAGRAM



MEMO

PRINTED CIRCUIT BOARD

MAIN



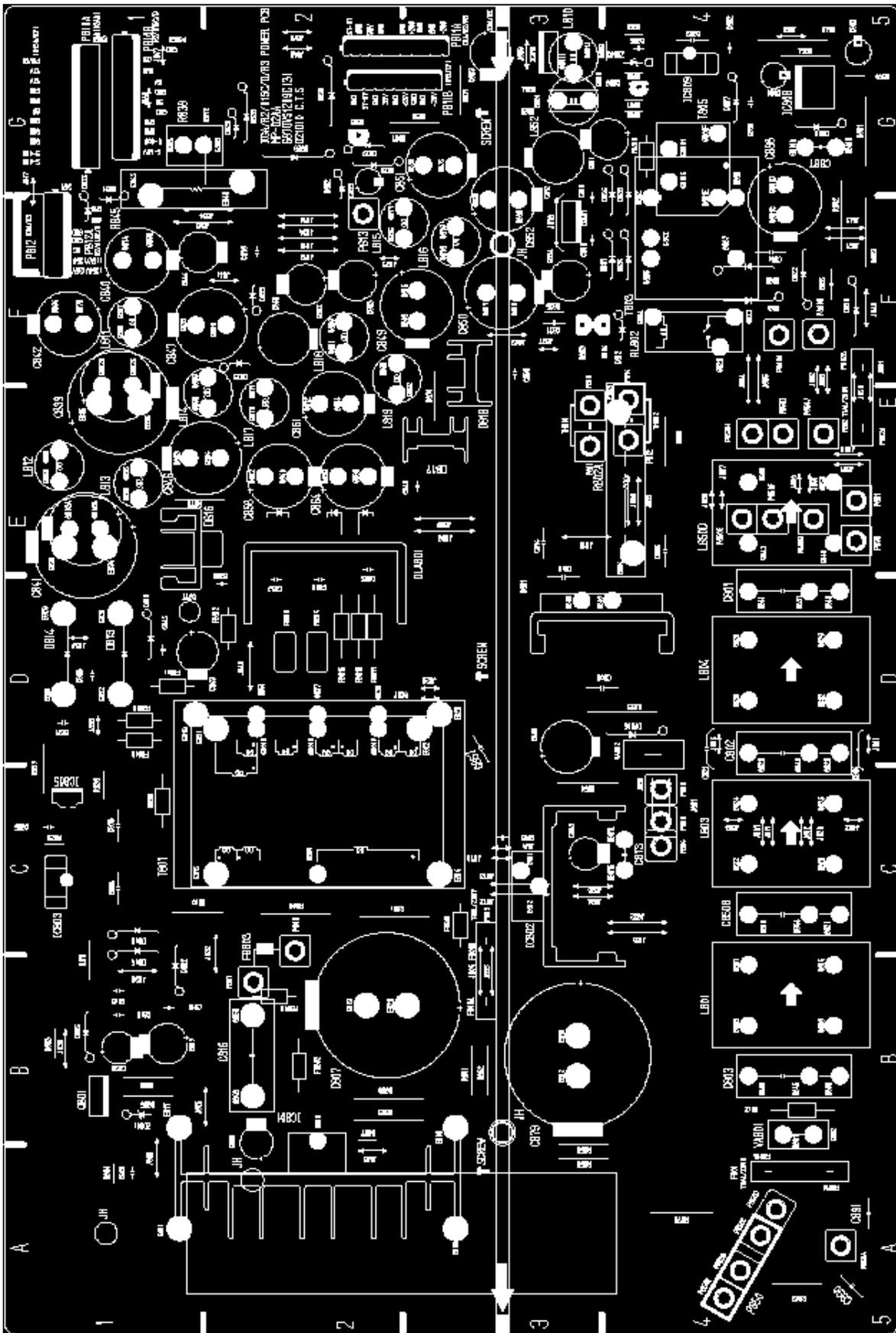
COMPONENT LOCATION GUIDE(MAIN)

C010.....G5	C157.....A1	C554.....D4	IC104.....B4	J57.....D4	Q605.....C4	R099.....C2	R543.....E4	R642.....B5
C011.....F1	C161.....B2	C555.....D4	IC105.....B3	J58.....B4	R001.....G2	R102.....B1	R544.....F4	R643.....B5
C012.....G2	C162.....D3	C556.....D4	IC106.....C3	J59.....D2	R002.....D2	R104.....C1	R545.....F4	R644.....B5
C014.....F2	C163.....C3	C557.....E5	IC107.....C4	J61.....D4	R003.....G2	R106.....C1	R546.....F4	R645.....C4
C015.....E2	C166.....A1	C558.....D4	IC108.....G2	J62.....D4	R004.....F2	R107.....B1	R547.....F4	R646.....B5
C016.....F1	C167.....D3	C559.....E4	IC109.....B4	J63.....C4	R005.....F2	R108.....C1	R548.....F4	R647.....B5
C017.....C2	C168.....C3	C560.....E4	IC110.....C3	J64.....D1	R006.....F1	R109.....A1	R549.....F4	R648.....B5
C018.....G2	C169.....B2	C561.....E4	IC501.....F4	J65.....A2	R007.....G3	R110.....B1	R550.....E3	R649.....B5
C019.....G2	C170.....A4	C562.....D4	IC502.....F4	J66.....F2	R008.....G3	R111.....B1	R551.....E4	R650.....B2
C021.....G2	C171.....A4	C563.....D3	IC503.....E5	J67.....F2	R009.....F2	R112.....B1	R552.....E3	R651.....C4
C022.....F2	C173.....B3	C570.....F4	IC504.....D4	J68.....F5	R010.....F2	R113.....A1	R553.....F5	R652.....C4
C023.....D2	C174.....B4	C599.....E4	IC505.....F4	J69.....F5	R011.....D2	R115.....A1	R554.....F3	R653.....C4
C024.....F1	C180.....A4	C601.....B4	IC601.....D5	J70.....F5	R013.....D2	R116.....A1	R555.....F3	R654.....C5
C030.....G1	C181.....C4	C602.....B4	J1.....F1	J71.....F5	R014.....E2	R117.....A1	R556.....F3	R655.....A3
C040.....G5	C182.....B4	C603.....B4	J2.....G2	J72.....F5	R015.....D2	R118.....B2	R557.....E4	R656.....D2
C042.....G5	C185.....B3	C604.....B4	J3.....G2	J73.....F5	R016.....F2	R119.....B2	R558.....F2	R657.....D3
C051.....B2	C186.....B3	C605.....B4	J4.....F2	J74.....F5	R017.....E1	R121.....C2	R559.....F2	R658.....E3
C052.....B2	C501.....G4	C606.....C4	J5.....F2	J75.....F5	R018.....F2	R122.....C2	R560.....F2	R659.....E2
C054.....G5	C502.....F4	C607.....B4	J6.....F2	J76.....F5	R019.....F2	R124.....C2	R561.....F2	R660.....F3
C055.....G1	C503.....E3	C608.....C4	J8.....F1	J77.....F5	R020.....F2	R128.....A1	R562.....E4	R661.....F2
C063.....G3	C504.....F4	C609.....D5	J9.....E1	J78.....F5	R021.....E2	R131.....C1	R563.....E4	R662.....C4
C064.....G3	C505.....F4	C611.....B5	J10.....G3	J79.....F5	R022.....F1	R134.....C1	R564.....E4	R663.....D4
C065.....G5	C506.....E3	C612.....B5	J11.....E1	P501.....E3	R023.....F1	R135.....C1	R567.....F3	R664.....C4
C071.....E1	C507.....F3	C613.....C4	J12.....G3	P502.....D4	R024.....F1	R137.....C2	R568.....F3	R665.....C4
C072.....E1	C508.....F3	C616.....B4	J13.....D4	P605.....E5	R025.....F1	R138.....B2	R569.....F3	R666.....C4
C073.....D2	C509.....F3	C617.....C4	J14.....G3	P001C.....C3	R026.....F1	R139.....B3	R570.....E3	R670.....E5
C101.....A1	C510.....E3	C621.....B4	J15.....A3	P002A.....F2	R027.....E1	R140.....B2	R576.....E4	TU101.....A1
C102.....B1	C511.....E3	C623.....C4	J16.....C2	P002C.....F3	R031.....F1	R141.....E2	R581.....E4	TU102.....B2
C103.....B1	C512.....F4	C624.....C4	J17.....B1	P003A.....G1	R032.....F1	R142.....D3	R601.....A4	X501.....F4
C104.....B2	C513.....D2	C627.....D5	J18.....G3	P005A.....E1	R033.....F1	R501.....E3	R602.....B4	ZD001.....G3
C105.....B1	C514.....E2	C628.....C5	J19.....G3	P100A.....A1	R034.....E1	R502.....F3	R603.....A4	ZD101.....B1
C106.....B1	C516.....E4	C629.....B4	J20.....G3	P201C.....A4	R035.....D2	R503.....F3	R604.....B4	ZD111.....C2
C107.....A2	C517.....E5	C630.....C4	J21.....G4	P202C.....A2	R036.....E1	R504.....E3	R605.....A4	ZD601.....C5
C108.....B1	C519.....E4	C631.....A5	J22.....F4	P401B.....G5	R037.....E1	R505.....F4	R606.....C4	
C109.....B1	C520.....D4	C632.....A5	J23.....F4	P402B.....F5	R038.....E1	R506.....F4	R607.....A4	
C110.....C1	C521.....F4	C633.....A4	J24.....F4	P403B.....F5	R039.....D2	R507.....E3	R608.....C4	
C111.....B1	C522.....F3	C634.....B5	J25.....F4	P404B.....E5	R040.....E1	R508.....E3	R609.....C4	
C112.....B2	C523.....F3	C635.....A5	J26.....G5	Q003.....E1	R041.....E1	R509.....F5	R610.....C4	
C113.....B1	C524.....F4	C636.....A5	J27.....G5	Q004.....E1	R042.....E1	R510.....E4	R611.....C5	
C114.....B1	C525.....F4	C637.....D5	J28.....F5	Q005.....E1	R044.....E1	R511.....E4	R612.....B4	
C115.....B2	C526.....F4	C638.....D5	J29.....E5	Q006.....E1	R045.....E1	R512.....E5	R613.....B5	
C116.....C1	C527.....E4	C639.....C4	J30.....F5	Q008.....F1	R046.....E1	R513.....E5	R614.....B5	
C118.....C1	C528.....E4	C640.....C4	J31.....E5	Q010.....B2	R048.....E1	R514.....E3	R615.....B5	
C119.....C2	C529.....F4	C641.....C5	J32.....E5	Q011.....G3	R049.....E1	R515.....D4	R616.....C5	
C120.....C2	C530.....F3	C642.....C5	J33.....E4	Q012.....E2	R050.....G3	R516.....D4	R617.....C4	
C121.....C2	C531.....F4	C643.....C4	J34.....E4	Q101.....C1	R051.....F5	R517.....D4	R618.....C5	
C122.....C1	C532.....F4	C644.....B5	J35.....E4	Q102.....C2	R052.....B2	R518.....D3	R619.....C5	
C123.....C2	C533.....F4	C645.....C4	J36.....F3	Q103.....B1	R053.....C2	R519.....D3	R620.....C5	
C124.....A1	C534.....F4	D501.....E4	J37.....F3	Q104.....A1	R054.....G3	R520.....D3	R621.....C4	
C125.....C2	C535.....F4	D502.....E4	J38.....E3	Q105.....A1	R055.....F3	R522.....E4	R622.....C4	
C126.....B2	C536.....E3	D503.....E4	J39.....E3	Q106.....A1	R056.....G3	R523.....E3	R623.....C4	
C127.....B2	C537.....E3	D504.....E2	J40.....E3	Q107.....B2	R057.....E2	R524.....E4	R624.....C5	
C128.....C2	C538.....F4	D505.....E2	J41.....E2	Q108.....A1	R058.....E2	R525.....E4	R625.....B4	
C129.....B1	C539.....E4	D506.....E2	J42.....E1	Q501.....E3	R059.....F3	R526.....E5	R626.....B4	
C130.....A1	C540.....E3	D510.....F2	J43.....E1	Q503.....E4	R060.....B2	R527.....D4	R627.....B4	
C131.....A1	C541.....E3	D601.....B4	J44.....D3	Q504.....E4	R061.....B2	R530.....E4	R628.....C4	
C132.....B1	C542.....E4	D603.....C4	J45.....D3	Q505.....E3	R065.....B2	R531.....F4	R629.....C5	
C133.....B1	C543.....E4	D605.....C4	J46.....E2	Q506.....E4	R066.....E2	R532.....F4	R631.....A5	
C134.....C1	C544.....F4	D606.....C4	J47.....D3	Q507.....D4	R067.....E2	R533.....F4	R632.....A5	
C136.....C4	C545.....E4	D607.....C4	J48.....F1	Q508.....E4	R070.....E1	R534.....F4	R633.....B5	
C141.....B3	C546.....E4	IC001.....E2	J49.....E2	Q509.....F5	R071.....E1	R535.....F4	R634.....A5	
C142.....G2	C547.....E4	IC002.....F2	J50.....D4	Q510.....F2	R072.....D1	R536.....E4	R635.....B5	
C143.....C3	C548.....F3	IC003.....F1	J51.....E1	Q511.....F2	R073.....D1	R537.....E4	R636.....A5	
C144.....C3	C549.....E3	IC004.....E2	J52.....F1	Q512.....F5	R074.....D2	R538.....E4	R637.....D5	
C145.....A4	C550.....F5	IC006.....G5	J53.....F1	Q601.....C4	R075.....D2	R539.....E4	R638.....D5	
C147.....B3	C551.....D3	IC009.....G3	J54.....F1	Q602.....B4	R076.....D2	R540.....F4	R639.....D5	
C148.....C3	C552.....E4	IC101.....B2	J55.....F1	Q603.....B5	R077.....D2	R541.....F4	R640.....D4	
C149.....D3	C553.....E4	IC103.....B3	J56.....E4	Q604.....D4	R090.....D2	R542.....E4	R641.....C4	

COMPONENT LOCATION GUIDE(DEF)

C401A1	C484.....B3	E426.....B1	G455B1	J456B2	Q406A2	R454.....B2	R40XE2
C402.....A2	C486.....E5	E427.....A1	G456C1	J457E2	Q407.....F4	R455C2	R40YC3
C403D3	C487C4	E428.....B1	G457D1	J458.....F2	Q408E4	R456G2	R40ZB2
C404C1	C488.....E3	E429.....B1	G458D1	J459C2	Q409E4	R457.....E4	R41AD3
C405D4	C489.....E2	E430.....C1	G459C4	J460.....F2	Q410E4	R458F3	R41BE1
C406.....B2	C491G2	E440.....C4	G460A5	J461.....F2	Q411A2	R459.....F3	R41DD4
C407.....A1	C492D4	E441.....C4	IC401.....E2	J462C2	Q413D3	R460.....E2	R41ED2
C408.....B2	C493.....E2	E442.....C5	IC402.....F4	J463D2	Q416C4	R461.....E5	R41FG2
C409.....B2	D400D1	E443.....C5	IC403.....F3	J464E2	Q417D2	R462.....F4	R41GB2
C410.....A3	D401.....E4	FB401.....A1	IC404.....E1	J465.....F2	Q419E5	R463.....F3	R41HA5
C411.....A3	D402.....F5	FB402.....B1	IC405.....F5	J466E2	Q420E5	R464.....F4	SG401A3
C412.....B3	D403.....E4	FB403D2	IC406.....E2	J467D2	Q423E3	R465.....E3	T401D1
C414G1	D404G5	FB404D2	IC408.....F3	J468E2	Q424B2	R466.....F3	T402D4
C415C2	D406.....F4	FB405D2	IC410G1	J469D2	Q428D4	R467D1	T403B4
C416D2	D408.....E5	G401C5	J401D5	J470.....F1	Q429.....F5	R468.....E3	T405.....C3
C417C4	D409.....F3	G402C5	J402.....F5	J471D1	Q432D2	R469D1	T406A3
C418.....E3	D410C3	G403A5	J403F5	J472E1	R400D3	R470B5	T407C5
C419.....E5	D414C5	G404A5	J404F5	J473D1	R402F4	R471.....E3	VR401 ...G3
C420.....E2	D415C5	G405D5	J405F5	J474.....F1	R403D2	R472G3	ZD401F4
C421.....F5	D416D5	G406C5	J406F5	J475D3	R404F4	R473E3	ZD403D2
C423.....F2	D417D5	G407C5	J407F5	J476E1	R405.....A3	R474.....B2	ZD404E4
C424D1	D418.....E4	G408C5	J408F5	J477E1	R406B3	R475.....B2	ZD405E4
C425D1	D419D3	G409D5	J409D3	J478D1	R407.....B3	R476D4	ZD406F3
C426.....E2	D420D3	G410D4	J410G3	J490G5	R408.....A2	R477.....E3	ZD407F4
C427.....E3	D421G4	G411D4	J411E4	J491F5	R409.....B3	R478.....E5	ZD408E2
C428.....F2	D422.....E2	G412D4	J412E4	J492E3	R410.....A5	R479C4	ZD410B2
C429C4	D423.....F5	G413D4	J413E4	J493E3	R411.....B3	R480.....E5	ZD411D1
C430.....B3	D424.....B2	G414B3	J414F4	J494E3	R412.....A3	R481D5	ZD412D4
C431.....E2	D426C5	G415B3	J415F4	J495E3	R413.....B3	R482D5	ZD413E2
C432.....F1	D428.....A1	G416A3	J416.....F4	L401B2	R414.....E5	R483.....F4	
C433.....E1	D430.....E4	G417A3	J417F4	L402B2	R415.....E5	R484.....F4	
C434D2	D431E4	G418C3	J418D3	L404A5	R416.....A3	R485.....D5	
C435D2	D432C4	G419D3	J419D3	L405B3	R417.....A3	R486.....A5	
C436B1	D433.....E4	G420A3	J420G2	P405C3	R418F4	R487C1	
C437.....E3	D434.....F4	G421A3	J421D3	P410.....B3	R419.....A3	R488C1	
C438D1	D435.....F4	G422C3	J422F4	P411E3	R420E4	R489D4	
C440B2	D437.....F3	G423C3	J423F4	P412A5	R421D4	R490F4	
C441.....E4	D440C3	G424B3	J424E3	P413A5	R423C4	R491D5	
C443E4	D441C3	G425A2	J425E4	P414A5	R424.....B3	R492F3	
C444.....F4	D442D1	G426A2	J426.....F3	P415G4	R425.....B3	R493C3	
C446F4	D443.....G2	G427B2	J427F4	P416G4	R426D2	R494C4	
C447F2	DFA3	G428C2	J428.....F3	P417F5	R427F5	R495.....E3	
C448.....F4	DFGND ..A3	G429C2	J429D3	P401A...G1	R428.....E1	R496.....E3	
C449.....E4	DFGND2 A4	G430D2	J430E3	P402A...F1	R429.....E3	R497E3	
C450.....E3	E401.....C5	G431D2	J431E3	P403A...E1	R430.....B5	R498.....B5	
C451F3	E402.....D5	G432B2	J432E4	P404A...E1	R431D2	R499F3	
C452F3	E403.....C5	G433B2	J433E3	P407A...C2	R432.....B3	R40AE3	
C454E2	E404.....D5	G434B2	J434E4	P407B...C2	R433.....A2	R40BE5	
C455F4	E405.....D5	G435A2	J435B3	P407C...C2	R434D2	R40CE5	
C460F2	E406.....C5	G436A2	J436E4	P407D...C2	R435E1	R40DE5	
C461D5	E407.....B4	G437D2	J437C3	P408A...C2	R436.....E1	R40EE5	
C462.....E5	E408B4	G438D2	J438.....F1	P408B...C2	R437.....E4	R40FE5	
C463C5	E409B4	G439B2	J439F4	P408C...C2	R438.....F4	R40GF5	
C464C5	E410.....B4	G440B2	J440E3	P408D...C2	R439.....E4	R40HG5	
C466D3	E411B4	G441B2	J441D3	P409A...C2	R440.....E4	R40IE4	
C467.....E3	E412.....D4	G442C2	J443D3	P409B...C2	R441.....E1	R40JE4	
C468.....A5	E413.....C4	G443B2	J444D3	P409C...C2	R442.....E4	R40KE5	
C469.....E3	E415.....A2	G444B2	J445D3	P409D...C2	R443.....E4	R40LB2	
C470D4	E416.....A2	G445A1	J446D3	P410A...F3	R444.....E2	R40MA2	
C471D3	E417.....D2	G446A1	J447G2	P411A...F5	R445C2	R40ND3	
C474C3	E418F2	G447B1	J448D3	P412A...F2	R446.....E2	R40PE3	
C475B2	E419.....A1	G448C1	J449D3	P418B...E5	R447.....B5	R40QE2	
C476.....A3	E420.....A1	G449A1	J450G2	P419B...F5	R448.....E2	R40RE2	
C477C3	E421B1	G450A1	J451E3	P420B...G5	R449.....E4	R40SE2	
C478D5	E422.....C1	G451B1	J452E2	Q401G4	R450.....E4	R40TE2	
C479F4	E423.....D1	G452C1	J453F2	Q402D1	R451F4	R40UE2	
C481.....E2	E424F1	G453D1	J454F2	Q403B1	R452F3	R40VE2	
C482.....E2	E425.....A1	G454D1	J455F2	Q405A3	R453C2	R40WE2	

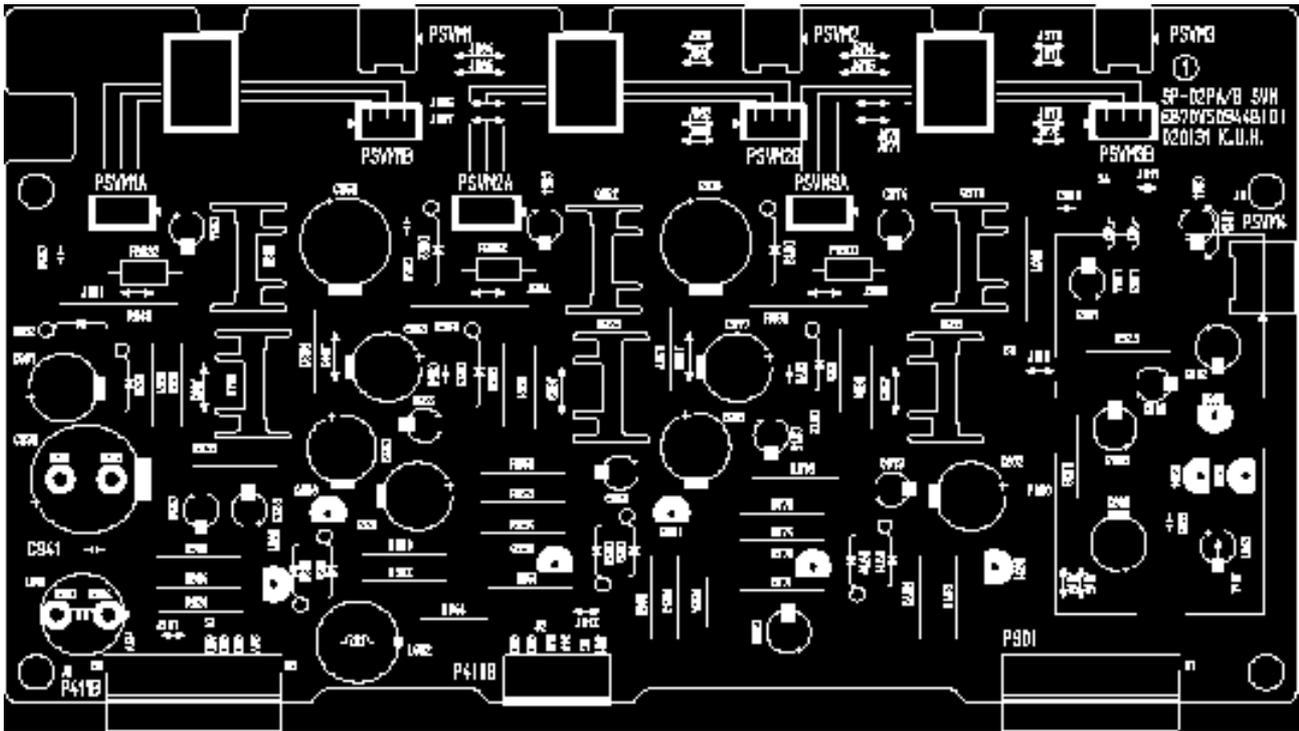
SMPS



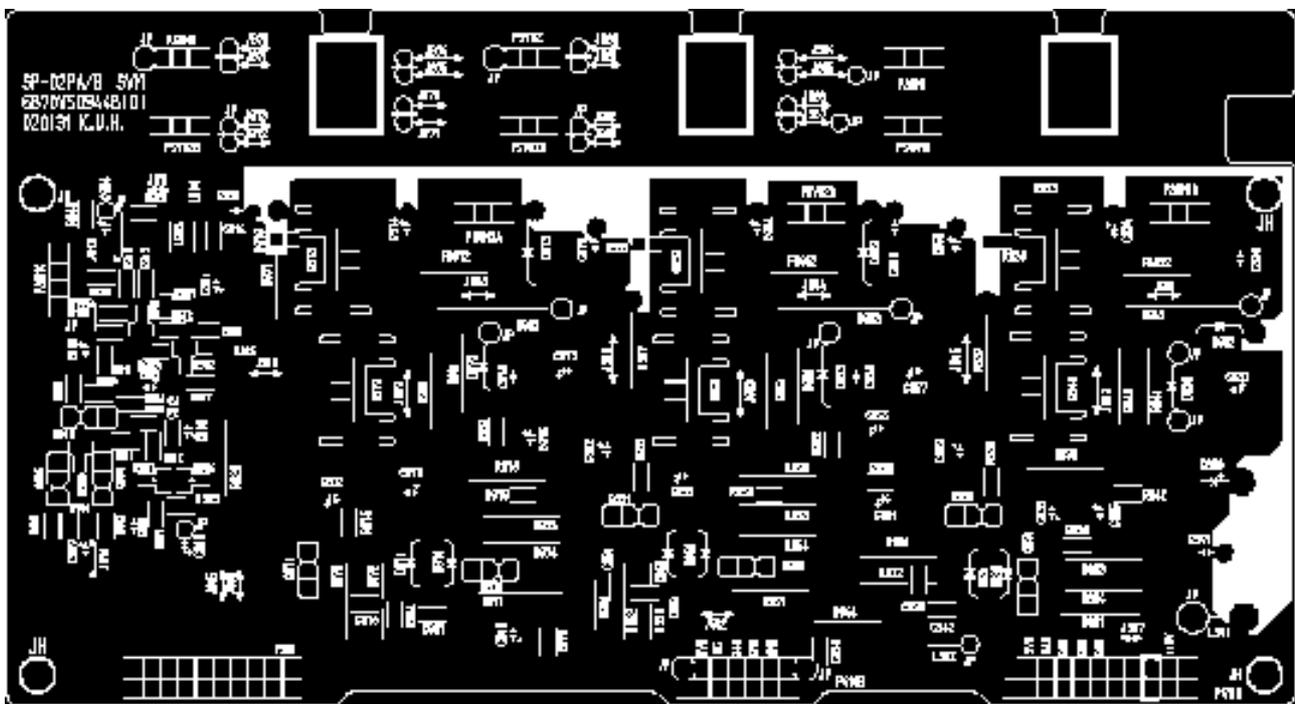
COMPONENT LOCATION GUIDE(SMPS)

C801D5	C889G4	E845G1	G847E4	IC805C1	J886E4	R823G4
C802D5	C890A5	E846G2	G848E5	IC807F3	J887E4	R824G4
C803B5	C891A5	F801AA5	G849B2	IC808G5	J888E4	R825F3
C804C5	C892G4	F801BA4	G850B2	IC809G4	J889E4	R826C1
C805E4	C893G4	F802AE5	G851D2	IC810G3	J890E5	R827D1
C806D4	C894G4	F802BF5	G853G1	J801D5	J891E5	R828C1
C807B2	C895G4	F803AB3	G857D5	J802C5	L801B5	R831G2
C808B2	C896B1	F803BC3	G858E4	J803C4	L803C5	R832G2
C809F3	C850BC5	FB801C3	G859E5	J804B3	L804D5	R838G2
C810F3	D801D4	FB802B2	G860E1	J805A3	L810G3	R839C1
C811G4	D802B1	FB803B2	G861E1	J806D4	L811F1	R840G5
C812G3	D803C1	FB809D1	G862F4	J807C4	L812E1	R842G4
C813D3	D804C1	FB810D1	G863F4	J808E3	L813E1	R843A5
C814E3	D805B1	FB811D1	G865F4	J809E3	L814F2	R845G2
C815B1	D806G5	FB812D2	G866F1	J810E4	L815F3	R851B3
C816B2	D812F4	FB813D2	G867F1	J811C4	L816F3	R852B3
C817B1	D813D1	FB814D2	G868E2	J812C5	L817E2	R853A4
C818B1	D814D1	FB815D2	G869F2	J813F2	L818F2	R854C4
C819B1	D815D1	FB816D2	G870E2	J814F2	L819E3	R855D4
C820A1	D816E2	FB817D2	G871E2	J816F2	L852G3	R856B4
C821C4	D817E3	FB818G4	G872E2	J817F1	L850DE5	R861G5
C833G3	D818F3	G800C2	G873F1	J818F2	P810C4	R862G5
C834F3	D820F5	G801B4	G874F1	J819G2	P806C4	R863G5
C835C1	D821F4	G802B5	G875G3	J820C5	P807B2	R864G4
C836D1	D822F5	G803B4	G876F3	J821C4	P808C2	R865G4
C837D1	D823F2	G804F4	G877F3	J822C4	P809C4	R866G4
C838D2	D824G1	G805B5	G878F3	J823D3	P810E3	R867G4
C839E1	D825G3	G806B4	G879F3	J824C4	P811E3	R868G4
C840F1	D826G2	G807B4	G880G3	J825B2	P812E4	R869G4
C841E1	D827G2	G808B5	G881G3	J826C4	P813F2	R870E3
C842F1	D828G2	G809D3	G882E2	J827F3	P814E4	R871G3
C843D2	D829G2	G810D4	G883E2	J828D3	P830E5	R872G2
C844F2	D830F4	G811C3	G884E2	J829F3	P831E5	R873E2
C845D1	D831G1	G812C3	G885G3	J830C4	P800AF4	R878A4
C846E2	D832G2	G813B2	G886F3	J831C4	P800BF5	R802AE4
C847F2	D833F2	G814B5	G887F4	J832C2	P810AG1	RL802F4
C848E3	D834F4	G815F3	G889F2	J833A1	P810BG1	T801D3
C849F3	D835G4	G816F3	G890E1	J834F2	P811AG2	T803F4
C850F3	D836G4	G817F3	G891F2	J835B3	P812AF1	T805F4
C851G3	D837F4	G818F3	G892E3	J836D1	P850AA5	VA801B5
C852F3	D839G2	G819C4	G893F1	J837D1	P850BA4	VA802D4
C855G2	D867G4	G820F4	G894F1	J838B1	P850CA4	ZD801B1
C856F3	DLA801E2	G821C5	G895E1	J839B1	P850DA4	ZD802G4
C857D2	DP805D4	G822C4	G896G2	J840F5	P850EE4	
C858E2	E803E4	G823C5	G898F3	J841F2	P850FE4	
C859F2	E804E4	G824C4	G899F3	J842F3	P850GE5	
C860D2	E809B3	G825C5	G801AG5	J843F5	P850HE4	
C861E2	E811A1	G826D4	G801BG5	J846G2	P850IE4	
C862F2	E812B3	G827F4	G801CF4	J847G1	P850JE5	
C863F2	E813B2	G828D5	G801DG4	J848G1	P850KA4	
C864E2	E814C3	G829D5	G801EF4	J849D2	Q801B1	
C865E2	E815C2	G830D4	G801FG4	J850F5	Q803F3	
C866C1	E816B3	G831D4	G801GG4	J851F5	Q804F4	
C867C3	E817B1	G832D5	G801HG4	J854F2	Q805G2	
C868C4	E818A3	G833E2	G801IG3	J867F5	Q809G4	
C869C3	E819D2	G834E2	G801JG3	J868G5	R800E4	
C871F3	E820D3	G835F2	G801KC4	J869G3	R801C3	
C873C4	E821D2	G836F2	G801LC4	J870C3	R802C2	
C875F5	E822D3	G837D2	G801MD2	J871C3	R803B1	
C876C1	E823B3	G838D2	G801ND2	J872C3	R804A1	
C877D1	E829D1	G839E2	G801PD2	J873C3	R805B1	
C878F2	E830D1	G840E2	G802AE1	J878F3	R806B1	
C879B3	E831D1	G841D4	G802BE1	J880E5	R807B2	
C880D3	E832D1	G842F4	G802CF1	J881E5	R808B2	
C881F4	E833E1	G843D5	G802DF1	J882E5	R809B2	
C883G5	E834E1	G844C5	IC801B3	J883E5	R810C2	
C887G5	E835E1	G845B5	IC802C3	J884E4	R811C1	
C888F4	E836E1	G846D5	IC803C1	J885E4	R812B4	

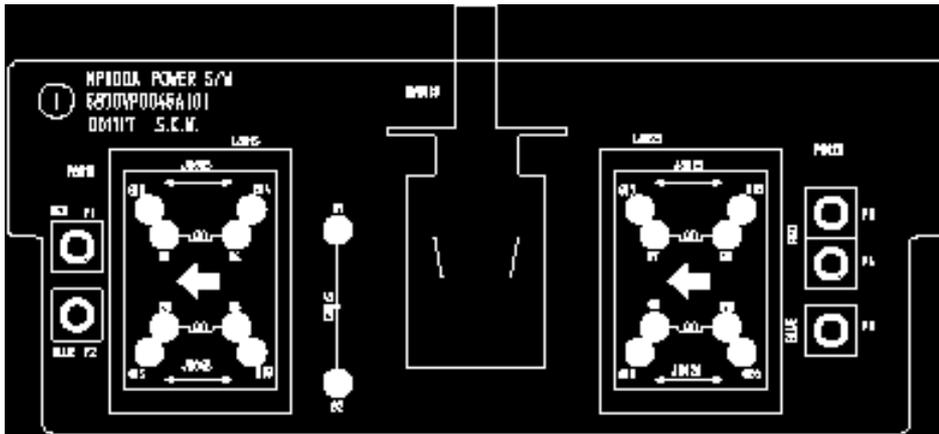
VM(TOP)



VM(BOTTOM)

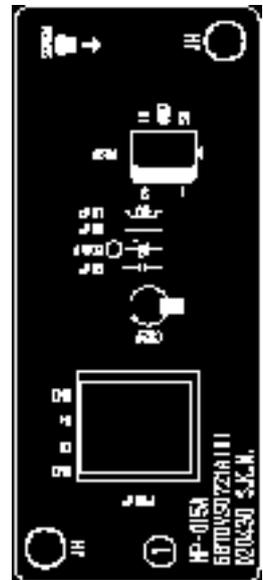
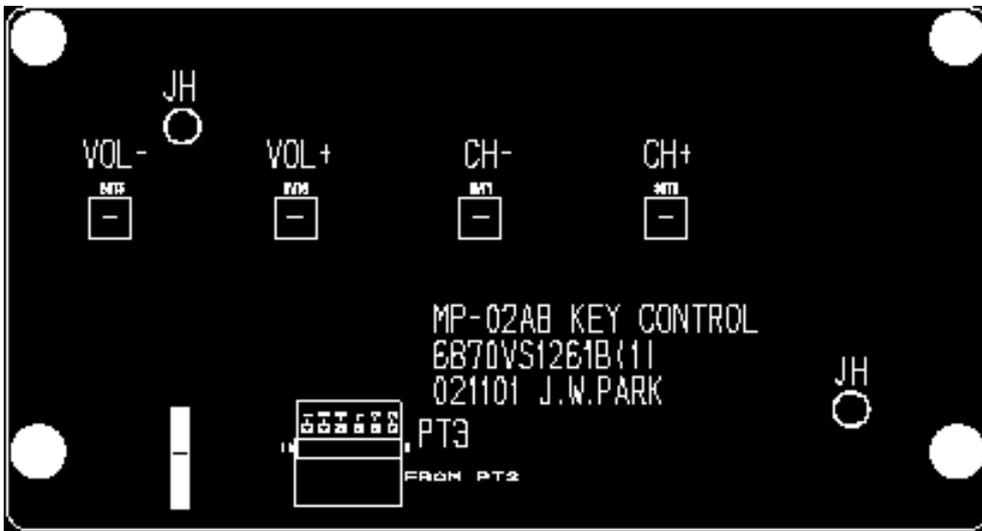


POWER S/W

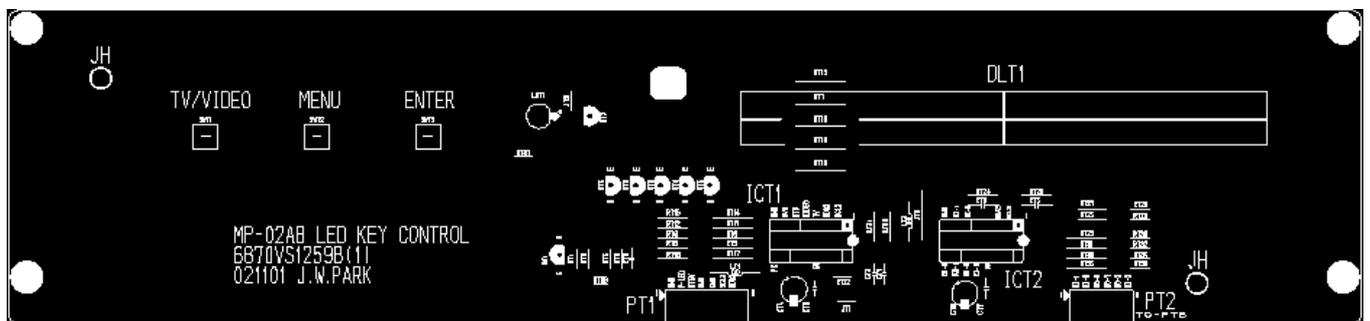


PRE-AMP

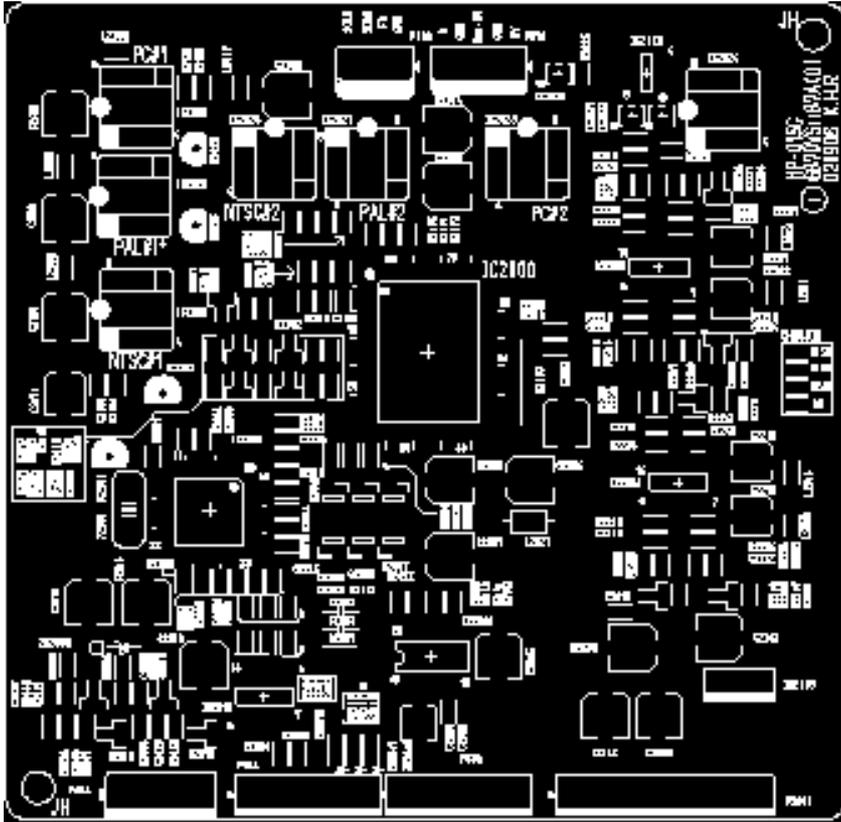
KEY CONTROL



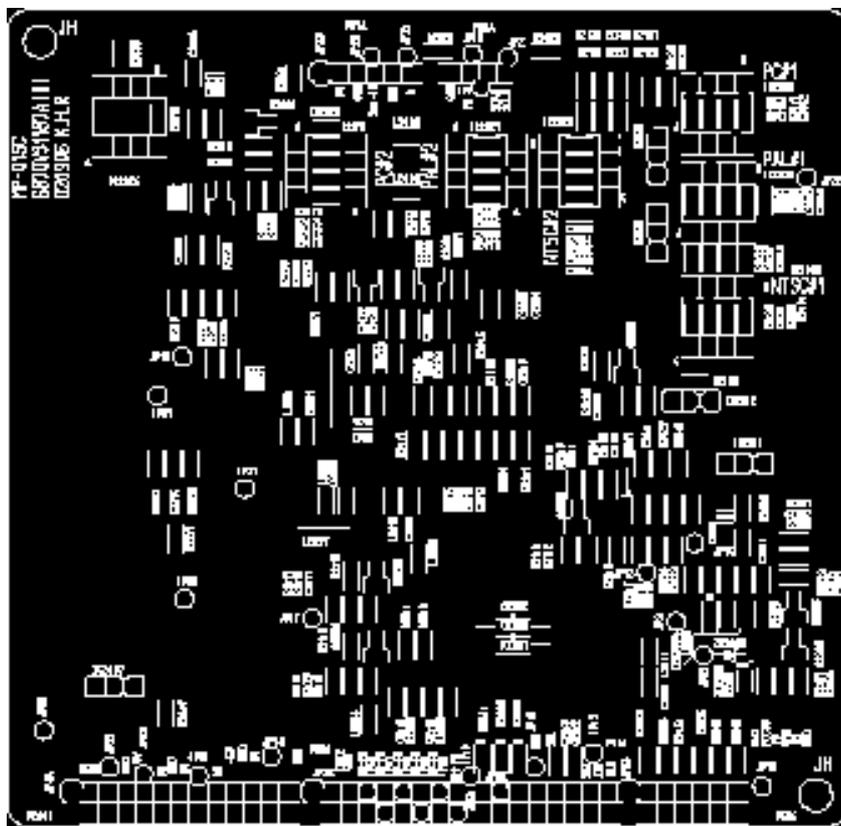
LED KEY CONTROL



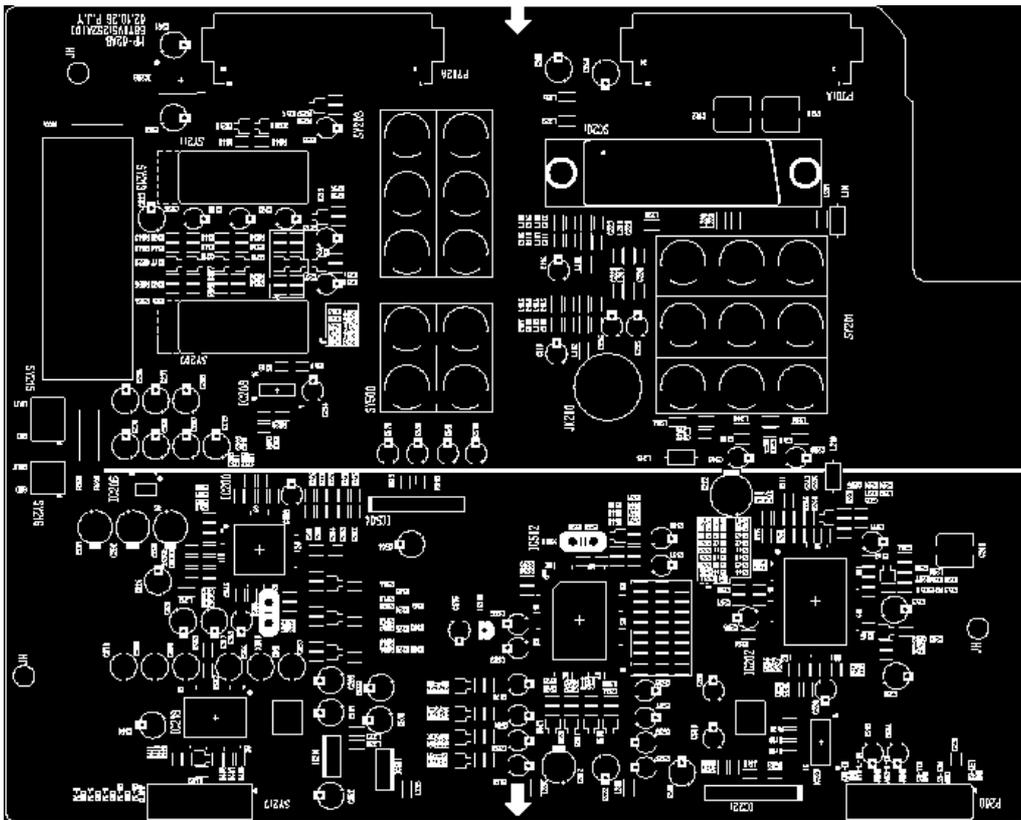
CONVERGENCE (TOP)



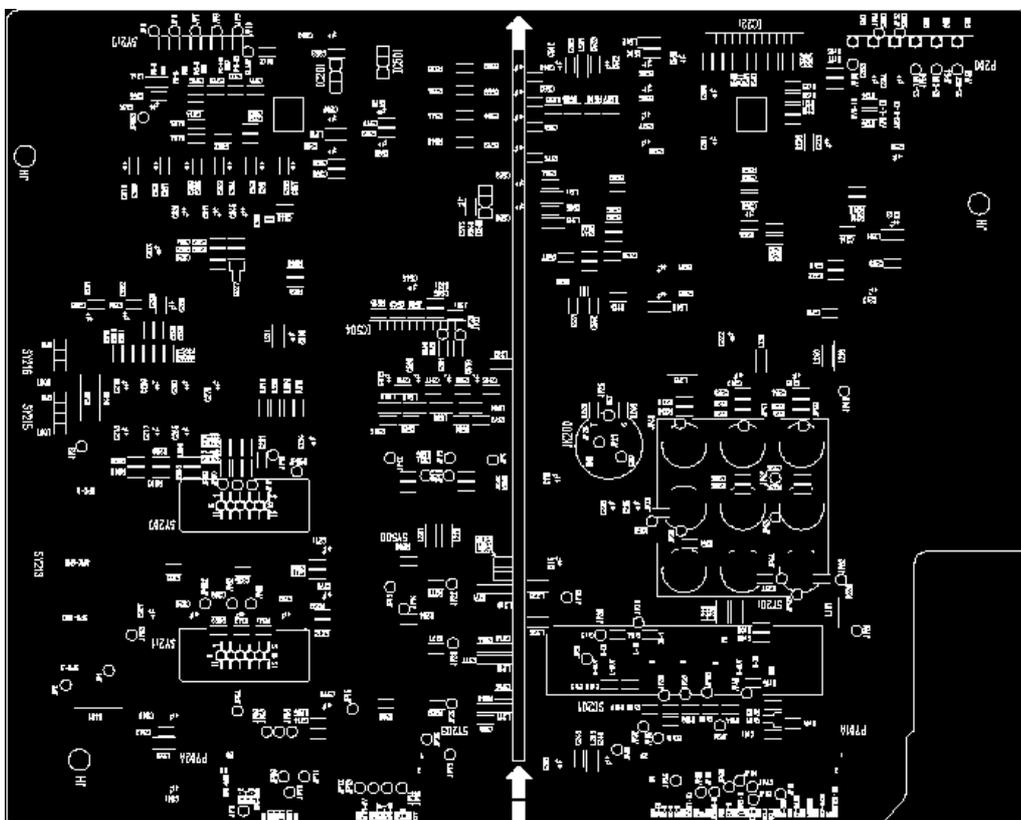
CONVERGENCE (BOTTOM)



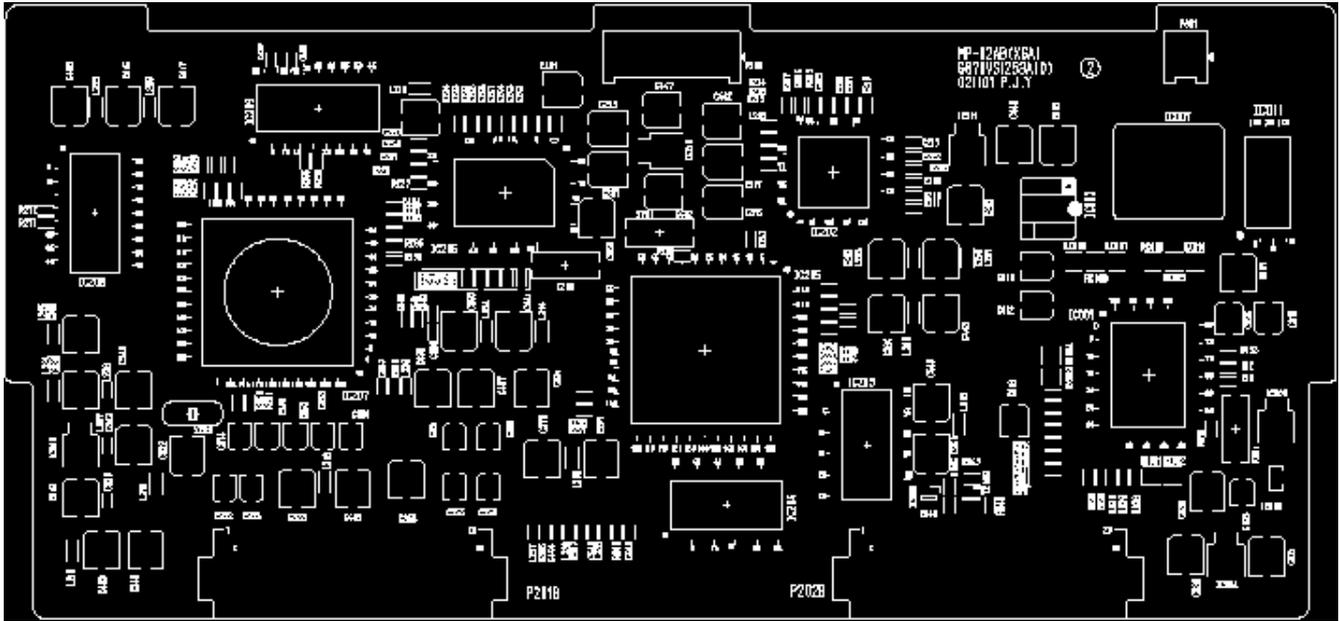
AV (TOP)



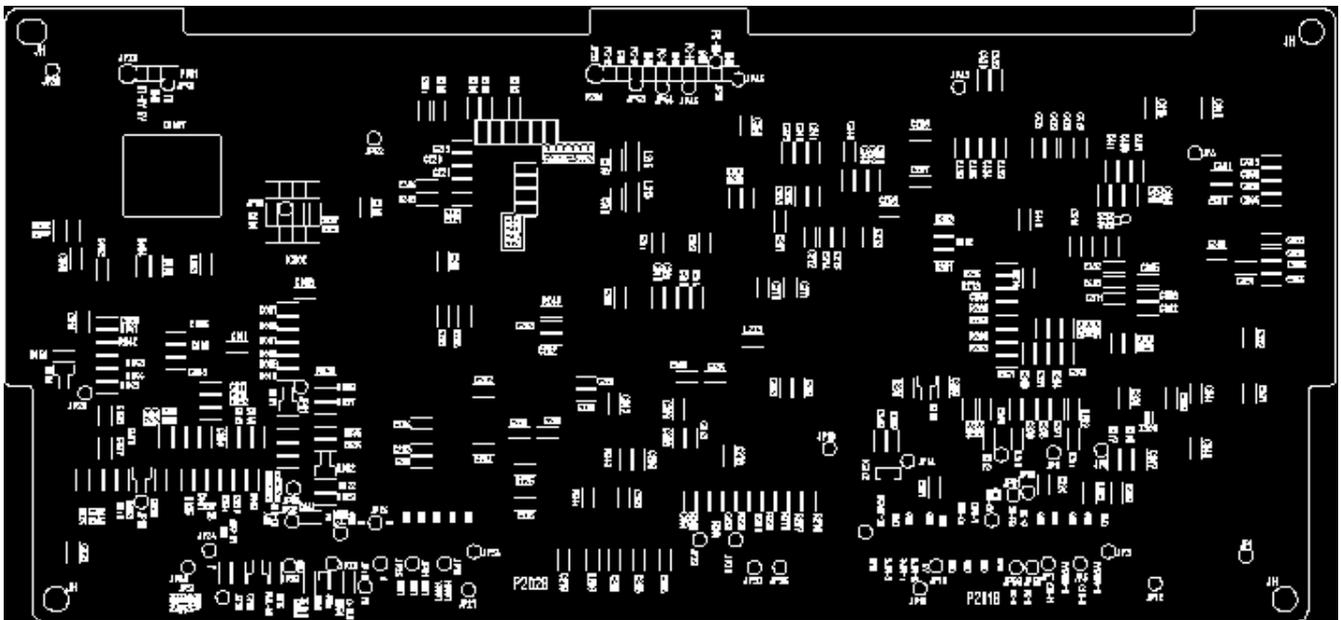
AV (BOTTOM)



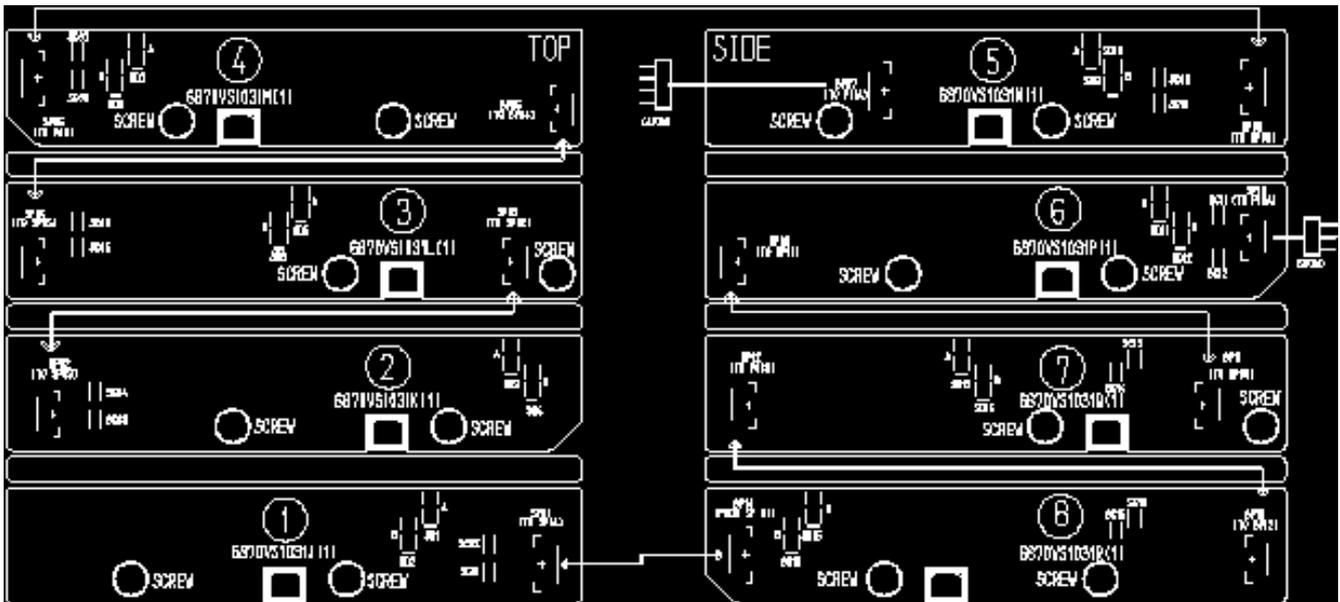
DIGITAL (TOP)



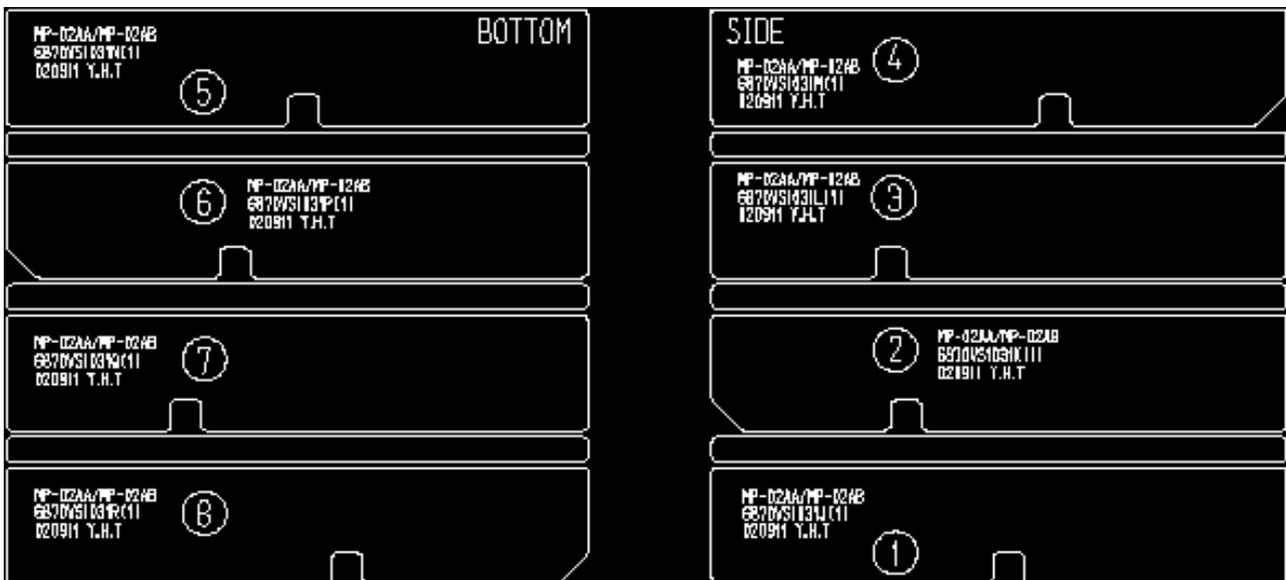
DIGITAL (BOTTOM)



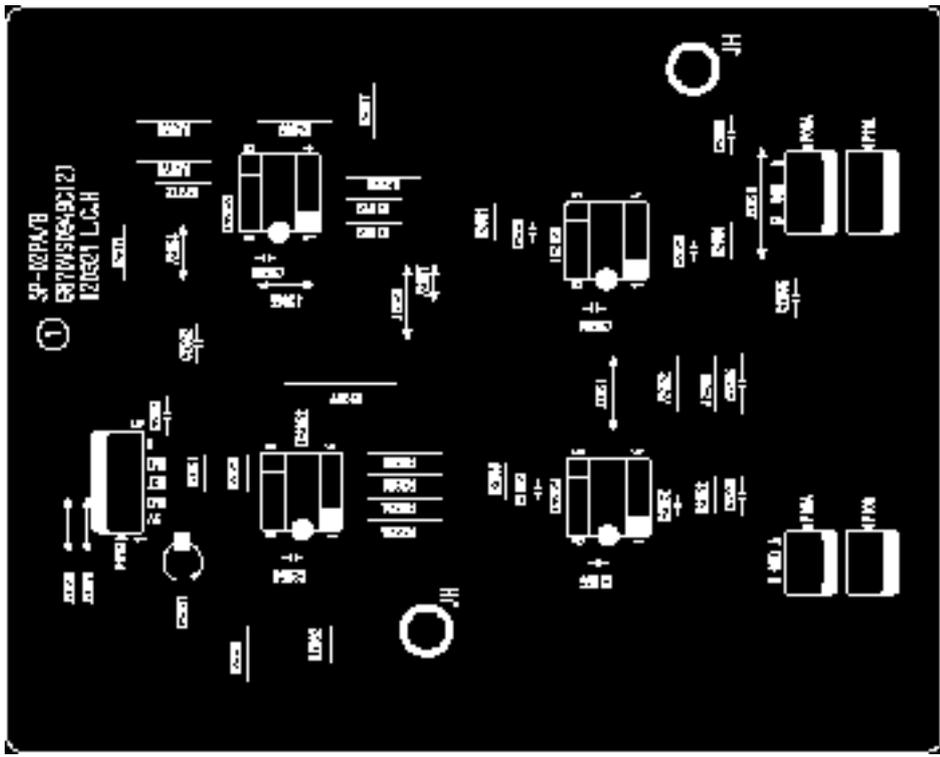
AUTO CVG SENSOR(TOP)



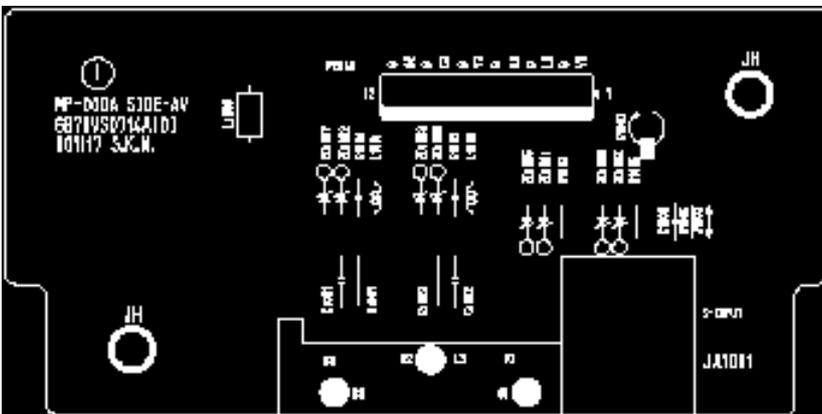
AUTO CVG SENSOR(BOTTOM)



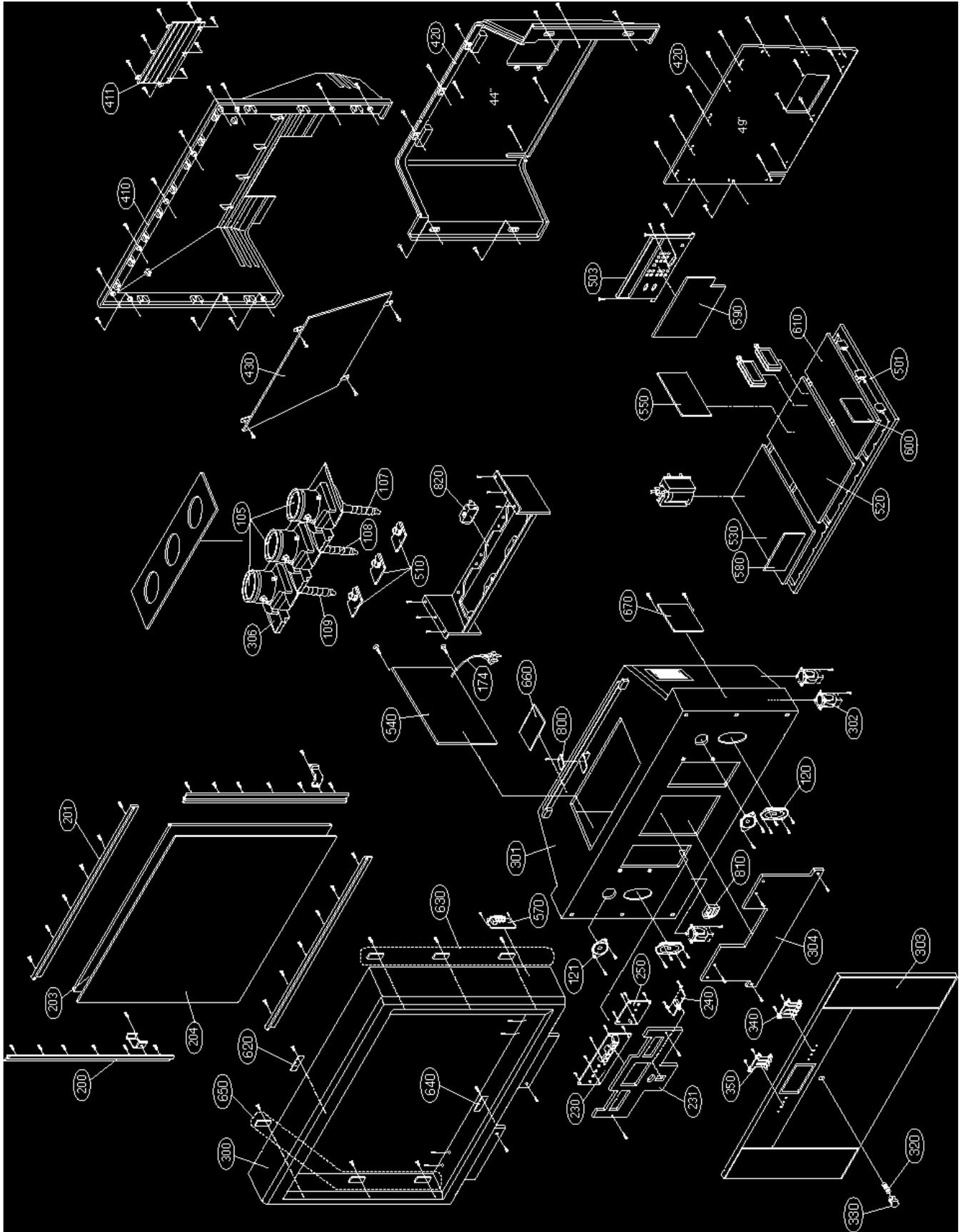
AUTO CVG INTERFACE



SIDE AV



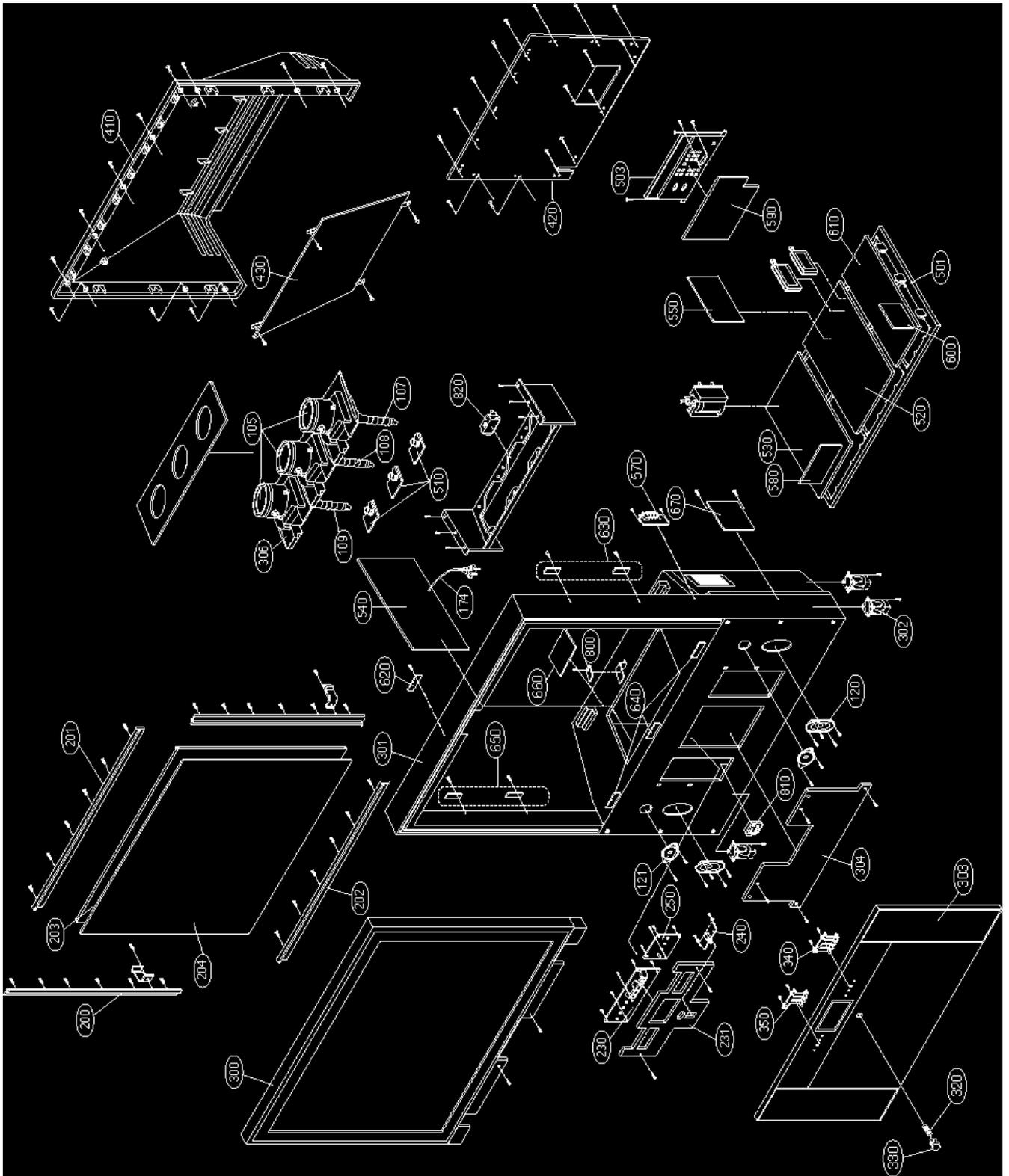
EXPLODED VIEW(RT-44/49NA12)



EXPLODED VIEW PARTS LIST

No.	Part No.		Description
	44"	49"	
105	3680V00048B	3680V00048B	LENS.
107	4810V00675D	4810V00675D	BRACKET,PRT ASSY RED
108	4810V00675E	4810V00675E	BRACKET,PRT ASSY GREEN
109	4810V00675F	4810V00675F	BRACKET,PRT ASSY BLUE
120	120-D38E	120-237C	SPEAKER,MID-RANGE
121		6400VA0015A	SPEAKER,GENERAL
174	6411VCH001F	6411VCH001F	POWER CORD ASSEMBLY NON
200	4980V00571B	4980V00685B	SUPPORTER,SCREEN SECC SIDE
201	4980V00570B	4980V00684B	SUPPORTER,SCREEN SECC TOP,BOTTOM
203	3350V00013B	3350V00011B	SCREEN DNP 43KP/GAIN6.0
204	3790V00298G	3790V00298H	WINDOW, FILTER DNP
230	6871VSMR19A	6871VSMR19A	PWB(PCB) ASSEMBLY,SUB CONT MP02AB
231	4810V00687C	4810V00687C	BRACKET,CONTROL LGESY
240	6871VSMR18A	6871VSMR18A	PWB(PCB) ASSEMBLY,SUB PSW
250	6871VSMT01A	6871VSMT01A	PWB(PCB) ASSEMBLY,SUB S/W
300	3091V00A95D	3091V00A53B	CABINET ASSEMBLY, NON NON RED
301	3091V00461B	3091V00462B	CABINET ASSEMBLY, STEREO XGA,
302	4778V00011B	4778V00011B	LEG,ROLLER CASTER 3T .
303	3211V00070U	3211V00075Q	FRAME ASSEMBLY,FRONT LOWER
304	3300V00239A	3300V00239A	PLATE,FRONT WOOD
306	4980V00263B	4980V00263B	SUPPORTER,PRT&LENS SECC .
320	320-062J	320-062J	SPRING,KNOB
330	5020V00393R	5020V00393R	BUTTON,POWER HF-380 1KEY NON
340	5020V00665C	5020V00665A	BUTTON,CONTROL HF-380 4KEY CKD
350	5020V00665D	5020V00665B	BUTTON,CONTROL HF-380 - 3KEY
410	3809V00A49C	3809V00A30B	BACK COVER ASSEMBLY, NON 60HR(S/GRAY)
411	3300V00218C	3300V00150B	PLATE,B/COVER 60HR S/GRAY ADHESIVE TAPE
420	3809V00A50B	3809V00A50B	BACK COVER ASSEMBLY, LGESY
430	5018V00019A	5018V00016A	MIRROR,PLASTIC NON NON . PLASTIC(43N)
501	4810V00614C	4810V00614C	BRACKET,MAIN BK, LGESY NON HIPS 60HR NON
503	4810V00682C	4810V00682C	BRACKET,AV HIPS 60HR C/SKD,LGESY
510	6871VSMR14A	6871VSMR14A	PWB(PCB) ASSEMBLY,SUB PRT MP02AB PRT
520	6871VMMP14A	6871VMMP14C	PWB(PCB) ASSEMBLY,MAIN MP02AB
530	6871VDM894A	6871VDM894C	PWB(PCB) ASSEMBLY,DEFLECTION MAIN2 MP02AB DEF
540	6871VPMA06A	6871VPMA06A	PWB(PCB) ASSEMBLY,POWER SMPS MP02AB POWER
550	6871VSMR13A	6871VSMR13C	PWB(PCB) ASSEMBLY,SUB DIGIT MP02AB
570	6871VSMT06A	6871VSMT06A	PWB(PCB) ASSEMBLY,SUB A/V MP02AB SIDE
580	6871VSMR11A	6871VSMR11A	PWB(PCB) ASSEMBLY,SUB VM MP02AB
590	6871VSMR12A	6871VSMR12A	PWB(PCB) ASSEMBLY,SUB A/V MP02AB
600	6871VSMT09A	6871VSMT09A	PWB(PCB) ASSEMBLY,SUB CVG MP02AB D-CON
610	6871VSMR15A	6871VSMR15A	PWB(PCB) ASSEMBLY,SUB CVG MP02AB
620	6871VSMT02A	6871VSMT02C	PWB(PCB) ASSEMBLY,SUB CVG MP02AB AUTO C/G UPPER ASSY
630	6871VSMT03A	6871VSMT03C	PWB(PCB) ASSEMBLY,SUB CVG MP02AB AUTO C/G LEFT ASSY
640	6871VSMT04A	6871VSMT04C	PWB(PCB) ASSEMBLY,SUB CVG MP02AB AUTO C/G BOTTOM ASSY
650	6871VSMT05A	6871VSMT05C	PWB(PCB) ASSEMBLY,SUB CVG MP02AB AUTO C/G RIGHT ASSY
660	6871VSMR16A	6871VSMR16A	PWB(PCB) ASSEMBLY,SUB FILT MP02AB HARMONICS
670	6871VSMU01A	6871VSMU01A	PWB(PCB) ASSEMBLY,SUB INTER MP02AB AUTO C/G INTERFACE
800	6871VSMR17A	6871VSMR17A	PWB(PCB) ASSEMBLY,SUB P/AMP MP02AB
810	180-836K	180-836K	FOCUS PACK
820	4410Z-A001F	4410Z-A001F	FBT MP015A HVF30-1111A A001A,C

EXPLODED VIEW(RT-54NA12)



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
105	3680V00048B	LENS,SEKINOS SSM-100(50) LENS ASSEMBLY .
107	4810V00675D	BRACKET,PRT ASSY RED SSM-100(50) CKD FOR SY
108	4810V00675E	BRACKET,PRT ASSY GREEN SSM-100(50) CKD FOR SY
109	4810V00675F	BRACKET,PRT ASSY BLUE SSM-100(50) CKD FOR SY
120	120-237C	SPEAKER,FULLRANGE 60X60
121	6400VA0015A	SPEAKER,GENERAL LG C&D 8 OHM 15W/25W 86DB 154X104MM
174	6411VCH001F	POWER CORD ASSEMBLY,NON 2110MM HOUSING BLACK L1=500
200	4980V00708D	SUPPORTER,SCREEN SECC CKD(SIDE) 54NA12
201	4980V00707B	SUPPORTER,SCREEN SECC CKD
202	4980V00709B	SUPPORTER,SCREEN SECC CKD(BOTTOM) 54NA12
203	3350V00012B	SCREEN,DNP NON PN-53A8 53KP/GAIN6.0 NON
204	3790V00298J	WINDOW,FILTER DNP KP54N NON NON
230	6871VSMR19B	PWB(PCB) ASSEMBLY,SUB CONT MP02AB 54NA12 CKD
231	4810V00687C	BRACKET,CONTROL RT-44NA12 MP02AB HIPS 60HR 687B, LGESY
240	6871VSMR18B	PWB(PCB) ASSEMBLY,SUB PSW MP02AB 54NA12 CKD
250	6871VSMT01B	PWB(PCB) ASSEMBLY,SUB S/W MP02AB 54NA12 CKD
300	3091V00463B	CABINET ASSEMBLY,RT-54NA12 STEREO MP02AB WOOD LGESY
301	3090V00389A	CABINET RT-54NA12 PJT WOOD
302	4778V00011B	LEG,ROLLER CASTER 3T .
303	3211V00078M	FRAME ASSEMBLY,FRONT LOWER RT-54NA12 PHANTOM
304	3300V00255A	PLATE,FRONT WOOD WOOD 552*281*3 RT-54NA12
306	4980V00263B	SUPPORTER,PRT&LENS SECC .
320	320-062J	SPRING,KNOB
330	5020V00393R	BUTTON,POWER RT-44NA10 CKD ABS, HF-380 1KEY NON
340	5020V00665C	BUTTON,CONTROL RT-44NA12 ABS, HF-380 4KEY CKD
350	5020V00665D	BUTTON,CONTROL RT-44NA12 ABS, HF-380 - 3KEY
410	3809V00190Q	BACK COVER ASSEMBLY,NON 60HR(S/GRAY),CKD
420	3809V00182J	BACK COVER ASSEMBLY,3808V00173A 60HR(S/GRAY), CKD
430	5018V00017A	MIRROR,PLASTIC NON NON NON PLASTIC(53N)
501	4810V00614B	BRACKET,MAIN PCB PT-43A81 HIPS 60HR LGESY HIPS 60HR NON
503	4810V00682C	BRACKET AV RT-44NA12 MP02AB HIPS 60HR C/SKD,LGESY
510	6871VSMR14A	PWB(PCB) ASSEMBLY,SUB PRT MP02AB PRT 44NA12
520	6871VMMP14B	PWB(PCB) ASSEMBLY,MAIN MP02AB 54NA12 CKD
530	6871VDM894B	PWB(PCB) ASSEMBLY,DEFLECTION MAIN2 MP02AB DEF 54NA12 CKD
540	6871VPA06A	PWB(PCB) ASSEMBLY,POWER SMPS MP02AB POWER
550	6871VSMR13B	PWB(PCB) ASSEMBLY,SUB DIGITAL MP02AB 54NA12 CKD
570	6871VSMT06A	PWB(PCB) ASSEMBLY,SUB A/V MP02AB SIDE 44NA12
580	6871VSMR11A	PWB(PCB) ASSEMBLY,SUB VM MP02AB 44NA12
590	6871VSMR12B	PWB(PCB) ASSEMBLY,SUB A/V MP02AB 54NA12 CKD
600	6871VSMT09B	PWB(PCB) ASSEMBLY,SUB CVG MP02AB D/C 54NA12 CKD
610	6871VSMR15B	PWB(PCB) ASSEMBLY,SUB CVG MP02AB 54NA12 CKD
620	6871VSMT02B	PWB(PCB) ASSEMBLY,SUB CVG MP02AB AUTO C/G UPPER ASSY
630	6871VSMT03B	PWB(PCB) ASSEMBLY,SUB CVG MP02AB AUTO C/G LEFT ASSY
640	6871VSMT04B	PWB(PCB) ASSEMBLY,SUB CVG MP02AB AUTO C/G BOTTOM ASSY
650	6871VSMT05B	PWB(PCB) ASSEMBLY,SUB CVG MP02AB AUTO C/G RIGHT ASSY
660	6871VSMR16A	PWB(PCB) ASSEMBLY,SUB FILT MP02AB HARMONICS
670	6871VSMU01A	PWB(PCB) ASSEMBLY,SUB INTER MP02AB AUTO C/G INTERFACE
800	6871VSMR17A	PWB(PCB) ASSEMBLY,SUB P/AMP MP02AB 44NA12
810	180-836K	FOCUS PACK,W18-601-02 YINYANG 180-836H
820	4410Z-A001F	FBT , MP015A HVF30-1111A A001A

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

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
IC			IC206	01BB368200A	IC,OPA3682E 16P SOP ST BUFFER AMP
DLA801	01SK100300A	IC,DIODE MODULE(RU4AM+FMLG12S) LF816	IC206	01IT323000D	IC,VPC3230D QA B4 80P QFP TR,AY SOUND
IC001	01SM555000A	IC,SDA5550 MQFP100 BK MICOM TXT MC006A	IC207	01MCRTS001B	IC,DPTV-3D TR,AY VIDEO PROCESSOR
IC002	01AL241610B	IC,AT24C16A-10PI-2.7 8PIN DIP ST EEPROM	IC208	01MCRPH024A	IC,74HCT86 PHILIPS SOIC 14P R/TP LOGIC
IC002	01KE781200F	IC,KIA78L12BP(AT) 3P 12V,150MA - - - -	IC208	01SS464323A	IC,86P-TSOP(II) TR,AY 2M*32BIT,64SDRAM
IC003	01ZZVF0006A	IC,SYNC DETECTOR 8 PIN BK CA7210	IC209	01MCRFA008A	IC,2P D-PAK, R/TP REGULATOR IC
IC003	01PRPFA007A	IC,SOT-223 R/TP 2.5VOLT REGULATOR	IC209	01SS464323A	IC,86P-TSOP(II) TR,AY 2M*32BIT,64SDRAM
IC004	01MCRM002A	IC,M62320P 16DIP ST I/O EXPANDER	IC210	01PRPFA006A	IC,SOT-223 R/TP 3.3VOLT REGULATOR
IC004	01PRPFA006A	IC,SOT-223 R/TP 3.3VOLT REGULATOR	IC211	01PRPFA006A	IC,SOT-223 R/TP 3.3VOLT REGULATOR
IC005	01KE702700D	IC,KIA7027AF 3, SOT-89 TP RESET IC 2.7V	IC212	01KE702700D	IC,KIA7027AF 3, SOT-89 TP RESET IC 2.7V
IC006	01SH052100C	IC,PQ05RD21 4SIP ST REGULATOR	IC218	01MCRM006A	IC,M52758FP 36PIN, R/TP PLL IC
IC007	01ZZVA0059A	IC,M27W201 32PIN ST MICOM MP02AB	IC220	01MI623200B	IC,16P SOP TP I/O EXPANDER CN-29Q3
IC007	01SG272012A	IC,M27W201(2M BIT 3.3V) EPROM MC006A	IC221	01SA722200A	IC,LA7222 (1280 AUDIO)
IC009	01FA754207A	IC,KA75420ZTA 3P,TO-92 TP 4.2V RESET IC	IC2701	01PRPSA005A	IC,STK392-570 SANYO 18 ST AMP IC
IC011	01SS610082A	IC,R/TP 1M SRAM(3.3V),70NS MC-006A	IC2702	01PRPSA005A	IC,STK392-570 SANYO 18 ST AMP IC
IC101	01KE780500Q	IC,KIA7805API 3P TO-220 ST REGULATOR 5V	IC401	01KE358000A	IC,KIA358P DIP8 DUAL OP-AMP BK
IC103	01KE780900M	IC,KIA7809API TO220 ST 3P 9V REGULATOR	IC402	01SS393000G	IC,KA393 COMPARATOR 8DIP BK OP AMP
IC104	01KE780800J	IC,KIA7808API 3 ST REGULATOR .	IC403	01KE781200P	IC,KIA7812API TO220 ST 3P 12V REGULATOR
IC105	01KE780500Q	IC,KIA7805API 3P TO-220 ST REGULATOR 5V	IC404	01SA784600A	IC,7846 SIP,10P BK V-OUT IC
IC106	01SH323422A	IC,PQ3RF23 4P(TO-220) 3.3V REGUL	IC405	01KE782400C	IC,KIA7824API 3 ST REGULATOR .
IC107	01SH323422A	IC,PQ3RF23 4P(TO-220) 3.3V REGUL	IC406	01KE358000A	IC,KIA358P DIP8 DUAL OP-AMP BK
IC108	01KE780500Q	IC,KIA7805API 3P TO-220 ST REGULATOR 5V	IC408	01KE358000A	IC,KIA358P DIP8 DUAL OP-AMP BK
IC109	01SH122100B	IC,PQ12RD21 4SIP ST REGULATOR	IC410	01SS790500C	IC,TO220 BK REGULATOR
IC110	01SH323422A	IC,PQ3RF23 4P(TO-220) 3.3V REGUL	IC501	01KE780500Q	IC,KIA7805API 3P TO-220 ST REGULATOR 5V
IC200	01MCRSO008A	IC,CXA2151Q SONY 48P QFP TR,AY 60LCD	IC501	01MCRSO013B	IC,CXA2180Q 64P QFP TR,AY BACK-END IC
IC2000	01CTMSG001A	IC,80PIN TQFP TR,AY CONVERGENCE IC	IC502	01IT341120B	IC,MSP3411G QA A2 64P QFP BK DOLBY
IC2003	01TI347000A	IC,LF347D 14P TP QUAD OPERATIONAL AMP	IC502	01KE780500Q	IC,KIA7805API 3P TO-220 ST REGULATOR 5V
IC2004	01TI347000A	IC,LF347D 14P TP QUAD OPERATIONAL AMP	IC503	01FA754207A	IC,KA75420ZT 3P,TO-92 TP 4.2V RESET IC
IC2005	01AL241600B	IC,AT24C16-10PC 8D EEPROM 16K	IC503	01KE780900M	IC,KIA7809API TO220 ST 3P 9V REGULATOR
IC2007	01SG111733B	IC,LD1117V33C 3SIP ST REGULATOR	IC504	01SA722200A	IC,LA7222 (1280 AUDIO)
IC2008	01MCRAL005A	IC,44PIN TR,AY PROGRAM MEMORY	IC504	01SH122100B	IC,PQ12RD21 4SIP ST REGULATOR
IC2009	01MI350710A	IC,M35071-002FP 20P,SOP TP OSD IC	IC505	01SS393000G	IC,KA393 COMPARATOR 8DIP BK OP AMP
IC201	01KE780500Q	IC,KIA7805API 3P TO-220 ST REGULATOR 5V	IC601	01MCRNS006A	IC,15P TO220 ST AUDIO POWER AMP 30W
IC2010	01PH741400E	IC,74HC14D 14SOP TP SHITTER TR,IGGER	IC801	01SK665813A	IC,5PIN SIP BK STR, PN-43A3Y
IC2011	01KE744200A	IC,KIA7442P TO-92 NEGA.RESET(4.2V	IC803	01L1817000G	IC,LTV817M-VB 4P,DIP BK PHOTO COU
IC202	01SO206900A	IC,CXA2069Q QFP64 BK I2C BUS AV S/W	Δ IC805	01SK135000A	IC,SE135N(LF12) 3P 135V ERROR AMP - - - -
IC202	01MCRAD002A	IC,R/TP DIGITAL BOARD A/D CONVERTER	IC807	01KE780500Q	IC,KIA7805API 3P TO-220 ST REGULATOR 5V
IC2020	01MCRAL003A	IC,AT24C16A-10PC 8PIN ST EEPROM PJT	IC901B	01PH612000B	IC,TDA6120Q/N2 13P SIP BK VIDEO OUT AMP
IC2021	01PRPTO002A	IC,5P SOP TP SCHMITT INVERTER	IC901G	01PH612000B	IC,TDA6120Q/N2 13P SIP BK VIDEO OUT AMP
IC2022	01PRPTO003A	IC,TC7SZ08F 5P SOP TP AND GATE	IC901R	01PH612000B	IC,TDA6120Q/N2 13P SIP BK VIDEO OUT AMP
IC2023	01PRPTO004A	IC,TC7W74F 8P SOP TP D TYPE FLIP FLOP	Q2025	01FA270000A	IC,TO-92, 3P TP LEVEL SHIFT 60V/0.2A,MC007A
IC2024	01AL241600B	IC,AT24C16-10PC 8D EEPROM 16K	Q2026	01FA270000A	IC,TO-92, 3P TP LEVEL SHIFT 60V/0.2A,MC007A
IC2025	01PRPTO002A	IC,5P SOP TP SCHMITT INVERTER	Q401	01FA754207A	IC,3P,TO-92 TP 4.2V RESET IC
IC2026	01MCRAL003A	IC,AT24C16A-10PC 8PIN ST EEPROM PJT	SD01	01PRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
IC2027	01MCRAL003A	IC,AT24C16A-10PC 8PIN ST EEPROM PJT	SD02	01PRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
IC203	01EB121616A	IC,ST 16M(512KX16BITX2BANK) SDRAM 3.3V	SD03	01PRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
IC204	01EB121616A	IC,ST 16M(512KX16BITX2BANK) SDRAM 3.3V	SD04	01PRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
IC205	01MR882840D	IC,MX88L284AEC REV. D LCD 15A30/40	SD05	01PRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
IC2050	01MCRNS003A	IC,LMC6482IN NATIONAL SEMICONDUCTOR 8P	SD06	01PRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
IC2051	01MCRNS003A	IC,LMC6482IN NATIONAL SEMICONDUCTOR 8P	SD07	01PRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
IC2052	01SS290300A	IC,KA2903 8P,DIP BK DUAL COMPARATOR	SD08	01PRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
IC2053	01SS290300A	IC,KA2903 8P,DIP BK DUAL COMPARATOR	SD09	01PRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
			SD10	01PRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR

LOCA. NO	PART NO	DESCRIPTION
SD11	0IPRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
SD12	0IPRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
SD13	0IPRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
SD14	0IPRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
SD15	0IPRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR
SD16	0IPRPTD001A	IC,BCS5030G1 TDK 2P SMD R/TP SENSOR

TRANSISTOR

IC008	0TR830009BA	TR,BSS83 TP PHILIPS NON N-CHANNEL S/W
IC009	0TR830009BA	TR,BSS83 TP PHILIPS NON N-CHANNEL S/W
Q001	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q002	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q003	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q003	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q004	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q004	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q005	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q005	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q006	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q008	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q010	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q011	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q012	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q101	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q101	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q102	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q104	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q106	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q108	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2001	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2002	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q2003	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2004	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q2005	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2006	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2007	0TR830009BA	TR,TP PHILIPS NON N-CHANNEL S/W TR,
Q2008	0TR830009BA	TR,TP PHILIPS NON N-CHANNEL S/W TR,
Q2009	0TR830009BA	TR,TP PHILIPS NON N-CHANNEL S/W TR,
Q2013	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2014	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q2015	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2016	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q2020	0TR830009BA	TR,TP PHILIPS NON N-CHANNEL S/W
Q2021	0TR830009BA	TR,TP PHILIPS NON N-CHANNEL S/W
Q2022	0TR830009BA	TR,TP PHILIPS NON N-CHANNEL S/W
Q2023	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2024	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q203	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2030	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q204	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q205	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2050	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q206	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q212	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q213	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q214	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q215	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q216	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q217	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q219	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q220	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2201	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2202	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q2203	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2204	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2205	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2206	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2207	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2208	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2209	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q223	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q224	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q225	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q226	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q227	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q228	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q2700	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
Q2701	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
Q2702	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
Q402	0TF200000AA	TR,IRFIBC20G BK I.R 600V - -
Q403	0TR544600AA	TR,2SC5446(AS) BK TO3P 1700V23A MESA
Q405	0TR126609AA	TR,KTA1266-Y KEC TP TO92 50V 150MA
Q406	0TR471000AA	TR,2SC4710 SANYO OTOROLA IBA
Q407	0TR126609AA	TR,KTA1266-Y KEC TP TO92 50V 150MA
Q408	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
Q409	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
Q410	0TR126609AA	TR,KTA1266-Y KEC TP TO92 50V 150MA
Q411	0TR205900AB	TR,KTD2059-Y TO-220IS KEC
Q413	0TF200000AA	TR,IRFIBC20G BK I.R 600V - -
Q417	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
Q420	0TR421009CB	TR,BF421L(AMMO)TO-92 TP PHILIPS
Q423	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
Q424	0TR126609AA	TR,KTA1266-Y KEC TP TO92 50V 150MA
Q428	0TR322709AA	TR,KTC3227-Y,TP,KEC
Q429	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
Q432	0TR126609AA	TR,KTA1266-Y KEC TP TO92 50V 150MA
Q433	0TR187900AA	TR,2SD1879
Q500	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q501	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q501	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q503	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q504	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q504	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q505	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q505	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q506	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q506	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q507	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q507	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q508	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q508	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q509	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q510	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q511	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q512	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q520	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q521	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q601	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q602	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q605	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q801	0TR385200AA	TR,2SC3852A SANKEN
Q803	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
Q804	0TR322709AA	TR,KTC3227-Y,TP(KTC1627A),KEC
Q805	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
Q901	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q901B	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q901G	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q901R	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q902	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q902B	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q902G	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q902R	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q903	0TR322709AA	TR,KTC3227-Y,TP(KTC1627A),KEC
Q903G	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q904	0TR322709AA	TR,KTC3227-Y,TP(KTC1627A),KEC
Q904B	0TR148000AA	TR,2SA1480E BK SANYO TO126 HN-64A10
Q904G	0TR148000AA	TR,2SA1480E BK SANYO TO126 HN-64A10
Q904R	0TR148000AA	TR,2SA1480E BK SANYO TO126 HN-64A10
Q905	0TR127409AB	TR,KTA1274-Y TO-92L TP KEC
Q905G	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q906G	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q907B	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q907G	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q907R	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q908B	0TR223800AA	TR,KTC2238A-Y BK KEC - -
Q908G	0TR223800AA	TR,KTC2238A-Y BK KEC - -
Q908R	0TR223800AA	TR,KTC2238A-Y BK KEC - -
Q930	0TR322709AA	TR,KTC3227-Y,TP(KTC1627A),KEC
Q931	0TR127409AB	TR,KTA1274-Y TO-92L TP KEC
Q933	0TR153500AA	TR,2SA1535A BK PANASONIC TO220 -180V
Q940	0TR394400AA	TR,2SC3944A BK PANASONIC TO220 180V
Q950	0TR127409AB	TR,KTA1274-Y TO-92L TP KEC
Q951	0TR322709AA	TR,KTC3227-Y,TP(KTC1627A),KEC
Q952	0TR153500AA	TR,2SA1535A BK PANASONIC TO220 -180V
Q953	0TR394400AA	TR,2SC3944A BK PANASONIC TO220 180V
Q970	0TR127409AB	TR,KTA1274-Y TO-92L TP KEC

LOCA. NO	PART NO	DESCRIPTION
Q971	0TR322709AA	TR,KTC3227-Y,TP(KTC1627A),KEC
Q972	0TR394400AA	TR,2SC3944A BK PANASONIC TO220 180V
Q973	0TR153500AA	TR,2SA1535A BK PANASONIC TO220 -180V
QT1	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
QT2	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
QT3	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
QT4	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
QT5	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
QT6	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
QT7	0TR319809AA	TR,KTC3198 KEC TP TO92 50V 150MA
DIODE		
D2701	0DS113379BA	DIODE,1SS133 T-72 TP KOREA DO34 90V - - - -
D2801	0DD184009AA	DIODE,KDS184S CHIP 85V 300MA KEC TP
D400	0DD140009AA	DIODE,TP E/EO-TMD 40V 1.5A 40A 0.2US 5MA
D401	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D402	0DS141489AB	DIODE,1N4148 TP GRANDE - 20V - - - -
D403	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D404	0DS141489AB	DIODE,1N4148 TP GRANDE - 20V - - - -
D406	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D409	0DR060009AA	DIODE,TP DO41 600V 0.6A - - -
D410	0DR200009DA	DIODE,DO15 600V 1.5A 50A 75NSEC 10UA
D414	0DR150009EA	DIODE,DO15 600V 1.5A 50A 250NSEC 5UA
D415	0DR150009EA	DIODE,DO15 600V 1.5A 50A 250NSEC 5UA
D416	0DD340009EA	DIODE,BYW34 TP (2A/400V) TELEFUNKEN
D417	0DD340009EA	DIODE,BYW34 TP (2A/400V) TELEFUNKEN
D418	0DD340009EA	DIODE,BYW34 TP (2A/400V) TELEFUNKEN
D419	0DR200009DA	DIODE,DO15 600V 1.5A 50A 75NSEC 10UA
D420	0DR200009DA	DIODE,DO15 600V 1.5A 50A 75NSEC 10UA
D421	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D422	0DR150009CB	DIODE,DO15 600V 1.5A 50A .SEC 50UA
D423	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D424	0DD100009AQ	DIODE,RP1HV(1) TP TP
D427	0DR360000AA	DIODE,FMG-36S BK - 2.2V - - 100NSEC 1.0MA
D428	0DR500000AA	DIODE,FMQ-G5FMS BK - - - - - 0.5UA
D430	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D431	0DR140059AC	DIODE,1N4005GP DO41 600V 1.0A - - -
D432	0DR060009AA	DIODE,TVR06J DO41 600V 0.6A - - -
D433	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D434	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D435	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D437	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D440	0DR200009DA	DIODE,DO15 600V 1.5A 50A 75NSEC 10UA
D441	0DD100009AQ	DIODE,RP1HV(1) TP TP
D442	0DR140059AC	DIODE,DO41 600V 1.0A - - -
D443	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D501	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D502	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D503	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D504	0DD410009AA	DIODE,SCHOTTKY,BAT 41 TP
D505	0DD410009AA	DIODE,SCHOTTKY,BAT 41 TP
D506	0DD410009AA	DIODE,SCHOTTKY,BAT 41 TP

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
D510	0DD184009AA	DIODE,KDS184S CHIP 85V 300MA KEC TP
D601	0DD184009AA	DIODE,KDS184S CHIP 85V 300MA KEC TP
D603	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D605	0DD184009AA	DIODE,KDS184S CHIP 85V 300MA KEC TP
D606	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D607	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D801	0DD606000AA	DIODE,RBV606 BK NA 600V 6A 150A NA 10UA
D802	0DR102609AA	DIODE,DO41 600V 1.0A .A .SEC .A
D803	0DR100009FA	DIODE,DO41 200V 1.0A 30A 50NSEC 10UA
D804	0DR100009FA	DIODE,DO41 200V 1.0A 30A 50NSEC 10UA
D805	0DR100009FA	DIODE,DO41 200V 1.0A 30A 50NSEC 10UA
D812	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D813	0DD410000AB	DIODE,RU4C,LF-L1
D814	0DD410000AB	DIODE,RU4C,LF-L1
D815	0DR102609AA	DIODE,DO41 600V 1.0A .A .SEC .A
D816	0DD420000BB	DIODE,D4L20U SHINDENGEN
D817	0DD420000BB	DIODE,D4L20U SHINDENGEN
D818	0DD420000BB	DIODE,D4L20U SHINDENGEN
D823	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D824	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D825	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D826	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D827	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D828	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D829	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D831	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D832	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D833	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D834	0DR100009FA	DIODE,DO41 200V 1.0A 30A 50NSEC 10UA
D835	0DR100009FA	DIODE,DO41 200V 1.0A 30A 50NSEC 10UA
D836	0DR100009FA	DIODE,DO41 200V 1.0A 30A 50NSEC 10UA
D837	0DR100009FA	DIODE,DO41 200V 1.0A 30A 50NSEC 10UA
D839	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D901	0DD226239AA	DIODE,CHIP KDS226 SOT-23
D902B	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D902G	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D902R	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D903B	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D903G	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D903R	0DS113379BA	DIODE,T-72 TP ROHM KOREA DO34 90V - - - -
D904	0DD226239AA	DIODE,CHIP KDS226 SOT-23
D905B	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D905G	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D905R	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D906B	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D906G	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D906R	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D907	0DD226239AA	DIODE,CHIP KDS226 SOT-23
D907B	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D907G	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D907R	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D908	0DD226239AA	DIODE,CHIP KDS226 SOT-23

LOCA. NO	PART NO	DESCRIPTION
D908B	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D908G	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D908R	0DR210009AC	DIODE,DO35 200V 0.2A 1A 50SEC 100A
D930	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D931	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D932	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D933	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D950	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D951	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D952	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D953	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D970	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D971	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D972	0DR060009AA	DIODE,DO41 600V 0.6A - - -
D973	0DR060009AA	DIODE,DO41 600V 0.6A - - -
ZD001	0DZ510009DB	DIODE,TP ROHM-K DO34 - 5.1V 5UA -
ZD1001	0DZ620009BB	DIODE,TP ROHM-K DO34 0.5W 6.2V 5UA -
ZD1002	0DZ620009BB	DIODE,TP ROHM-K DO34 0.5W 6.2V 5UA -
ZD1003	0DZ620009BB	DIODE,TP ROHM-K DO34 0.5W 6.2V 5UA -
ZD1004	0DZ620009BB	DIODE,TP ROHM-K DO34 0.5W 6.2V 5UA -
ZD1005	0DZ620009BB	DIODE,TP ROHM-K DO34 0.5W 6.2V 5UA -
ZD1006	0DZ620009BB	DIODE,TP ROHM-K DO34 0.5W 6.2V 5UA -
ZD1007	0DZ620009BB	DIODE,TP ROHM-K DO34 0.5W 6.2V 5UA -
ZD1008	0DZ620009BB	DIODE,TP ROHM-K DO34 0.5W 6.2V 5UA -
ZD101	0DZ330009BA	DIODE,HZT33(TP) HITACHI
ZD111	0DZ330009BA	DIODE,HZT33(TP) HITACHI
ZD2610	0DZRM00178A	DIODE,ROHM R/TP SMD 0.2W 5.1V 5MA -PF
ZD2611	0DZRM00178A	DIODE,ROHM R/TP SMD 0.2W 5.1V 5MA -PF
ZD2612	0DZRM00178A	DIODE,ROHM R/TP SMD 0.2W 5.1V 5MA -PF
ZD2804	0DZRM00178A	DIODE,ROHM R/TP SMD 0.2W 5.1V 5MA -PF
ZD2805	0DZ240009DC	DIODE,TP ROHM-K DO34 0.5W 2
ZD401	0DZ910009AJ	DIODE,TP ROHM-K DO34 0.5W 9.1V 5UA -
ZD403	0DZ180009BE	DIODE,TP GRANDE DO34 0.5W 18.0V - -
ZD404	0DZ240009DC	DIODE,MTZJ2.4B TP ROHM-K DO34 0.5W 2
ZD405	0DZ510009DB	DIODE,TP ROHM-K DO34 - 5.1V 5UA -
ZD406	0DZ510009DB	DIODE,TP ROHM-K DO34 - 5.1V 5UA -
ZD407	0DZ820009AH	DIODE,MTZJ8.2B TP ROHM-K DO34 - 8.2V 5UA -
ZD408	0DZ180009BE	DIODE,TP GRANDE DO34 0.5W 18.0V - -
ZD410	0DZ560009CF	DIODE,TP ROHM-K DO34 0.5W 5.6V 5UA -
ZD411	0DZ130009CJ	DIODE,TP ROHM-K DO34 0.5W 13V 5UA -
ZD412	0DZ130009CJ	DIODE,TP ROHM-K DO34 0.5W 13V 5UA -
ZD801	0DZ150009BG	DIODE,TP GRANDE DO34 0.5W 15.0V .A .PF
ZD902B	0DZ180009BE	DIODE,TP GRANDE DO34 0.5W 18.0V - -
ZD902G	0DZ180009BE	DIODE,TP GRANDE DO34 0.5W 18.0V - -
ZD902R	0DZ180009BE	DIODE,TP GRANDE DO34 0.5W 18.0V - -
CAPACITOR		
C001	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C003	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C010	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C010	0CE227DF618	220UF STD 16V M FL TP5
C011	0CN1030F679	10000P 16V M Y TA52

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

LOCA. NO	PART NO	DESCRIPTION
C012	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C012	0CE107DD618	100UF STD 10V M FL TP5
C013	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C014	0CE107DD618	100UF STD 10V M FL TP5
C016	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C01P	0CN1030F679	10000P 16V M Y TA52
C021	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C022	0CE476DF618	47UF STD 16V M FL TP5
C024	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C024	0CE106DK618	10UF STD 50V M FL TP5
C025	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C02P	0CE476DD618	47UF STD 10V 20% FL TP 5
C030	0CE476DF618	47UF STD 16V M FL TP5
C033	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C036	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C040	0CE477DD618	470UF STD 10V M FL TP5
C054	0CE107DJ618	100UF STD 35V M FL TP5
C055	0CE107DJ618	100UF STD 35V M FL TP5
C071	0CE476DF618	47UF STD 16V M FL TP5
C1004	0CN2210K519	220P 50V K B TA52
C1005	0CN2210K519	220P 50V K B TA52
C1006	0CN1040K949	0.1M 50V Z F TA52
C1007	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C101	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C102	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C103	0CE2276D618	220UF SMS,SG 10V 20% FL TP 5
C105	0CE476DD618	47UF STD 10V 20% FL TP 5
C107	0CE477DF618	470UF STD 16V 20% FL TP 5
C108	0CE476DK618	47UF STD 50V M FL TP5
C110	0CE1063F618	10UF SRE 16V M FL TP5
C111	0CE476DD618	47UF STD 10V 20% FL TP 5
C114	0CE1063F618	10UF SRE 16V M FL TP5
C115	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C116	0CE476DD618	47UF STD 10V 20% FL TP 5
C118	0CE476DK618	47UF STD 50V M FL TP5
C120	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C122	0CN1010K519	100P 50V K B TA52
C128	0CE477DD618	470UF STD 10V M FL TP5
C129	0CE477DD618	470UF STD 10V M FL TP5
C130	0CN1030F679	10000P 16V M Y TA52
C131	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C134	0CE107DF618	100UF STD 16V M FL TP5
C136	0CE477DF618	470UF STD 16V 20% FL TP 5
C141	0CE227DF618	220UF STD 16V M FL TP5
C142	0CE227DF618	220UF STD 16V M FL TP5
C143	0CE477DD618	470UF STD 10V M FL TP5
C145	0CE227DF618	220UF STD 16V M FL TP5
C147	0CE477DF618	470UF STD 16V 20% FL TP 5
C148	0CE477DD618	470UF STD 10V M FL TP5
C149	0CE477DD618	470UF STD 10V M FL TP5
C162	0CE108DF618	1000UF STD 16V M FL TP5
C170	0CE107DF618	100UF STD 16V M FL TP5

LOCA. NO	PART NO	DESCRIPTION
C2001	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2002	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2003	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2004	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2005	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2006	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2009	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2015	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2016	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2017	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2018	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2019	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C202	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2020	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2022	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2023	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2024	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2037	0CE108DJ618	1000UF STD 35V M FL TP5
C2038	0CE108DJ618	1000UF STD 35V M FL TP5
C2040	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2041	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2050	0CE108DJ618	1000UF STD 35V M FL TP5
C2051	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2052	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2053	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2054	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2055	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2056	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2060	0CE108DJ618	1000UF STD 35V M FL TP5
C2061	0CE108DJ618	1000UF STD 35V M FL TP5
C2061	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2062	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2063	0CK1040K945	0.1UF 50V Z F TR,
C2064	0CK1040K945	0.1UF 50V Z F TR,
C2065	0CK1040K945	0.1UF 50V Z F TR,
C2065	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2066	0CK1040K945	0.1UF 50V Z F TR,
C2066	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2067	0CK1040K945	0.1UF 50V Z F TR,
C2067	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2068	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2069	0CK1040K945	0.1UF 50V Z F TR,
C207	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5
C2070	0CE477DD618	470UF STD 10V M FL TP5
C2071	0CE477DD618	470UF STD 10V M FL TP5
C2071	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2072	0CE477DD618	470UF STD 10V M FL TP5
C2073	0CE477DD618	470UF STD 10V M FL TP5
C2074	0CK1040K945	0.1UF 50V Z F TR,
C2074	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2075	0CK1040K945	0.1UF 50V Z F TR,
C2080	0CK1040K945	0.1UF 50V Z F TR,

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LOCA. NO	PART NO	DESCRIPTION
C2081	0CK1040K945	0.1UF 50V Z F TR,
C2082	0CK1040K945	0.1UF 50V Z F TR,
C209	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5
C2094	0CK1040K945	0.1UF 50V Z F TR,
C2095	0CK1040K945	0.1UF 50V Z F TR,
C2096	0CK1040K945	0.1UF 50V Z F TR,
C2119	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C213	0CE1074F618	100UF SRA 16V M FL TP5
C2130	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2133	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2142	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2143	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C216	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C217	0CE4763F618	47UF SRE 16V M FL TP5
C2170	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) SMD
C2202	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C2203	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2206	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2207	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C2210	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C2211	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2214	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2215	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C222	0CE477DF618	470UF STD 16V 20% FL TP 5
C232	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C233	0CE1053K618	1UF SRE 50V M FL TP5
C235	0CE4743K618	0.4700UF SRE 50V M FL TP5
C236	0CE4743K618	0.4700UF SRE 50V M FL TP5
C237	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C248	0CE1074F618	100UF SRA 16V M FL TP5
C250	0CE1074F618	100UF SRA 16V M FL TP5
C255	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C256	0CE1053K618	1UF SRE 50V M FL TP5
C260	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2605	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2606	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2607	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C268	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SMD
C269	0CE1074F618	100UF SRA 16V M FL TP5
C2701	0CE108DJ618	1000UF STD 35V M FL TP5
C2702	0CE108DJ618	1000UF STD 35V M FL TP5
C2703	0CE108DJ618	1000UF STD 35V M FL TP5
C2704	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C2705	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C2706	0CK2710K515	270P 50V K B TS
C2707	0CK2710K515	270P 50V K B TS
C2708	0CK2710K515	270P 50V K B TS
C2709	0CK2710K515	270P 50V K B TS
C271	0CE1063F618	10UF SRE 16V M FL TP5
C2710	0CK2710K515	270P 50V K B TS
C2711	0CK2710K515	270P 50V K B TS
C2712	0CK1030K945	0.01UF 50V Z F TR,

LOCA. NO	PART NO	DESCRIPTION
C2713	0CK1030K945	0.01UF 50V Z F TR,
C273	0CE1063F618	10UF SRE 16V M FL TP5
C275	0CE1063F618	10UF SRE 16V M FL TP5
C276	0CE1074F618	100UF SRA 16V M FL TP5
C277	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C277	0CE1074F618	100UF SRA 16V M FL TP5
C278	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C278	0CE1074F618	100UF SRA 16V M FL TP5
C2786	0CN1040K949	0.1M 50V Z F TA52
C279	0CE1074F618	100UF SRA 16V M FL TP5
C2801	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2802	0CN1040K949	0.1M 50V Z F TA52
C2803	0CN4710K519	470P 50V K B TA52
C2804	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C2805	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2807	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C281	0CE477DD618	470UF STD 10V M FL TP5
C2813	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2814	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2816	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C2817	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2818	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2819	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C282	0CE477DD618	470UF STD 10V M FL TP5
C2820	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2821	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C284	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C285	0CE1074F618	100UF SRA 16V M FL TP5
C286	0CE1074F618	100UF SRA 16V M FL TP5
C287	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C287	0CE1074F618	100UF SRA 16V M FL TP5
C289	0CE477DD618	470UF STD 10V M FL TP5
C292	0CE4763F618	47UF SRE 16V M FL TP5
C293	0CE4763F618	47UF SRE 16V M FL TP5
C294	0CE1063F618	10UF SRE 16V M FL TP5
C2950	0CK5610K515	560P 50V K B TS
C2951	0CK1220K515	1200P 50V K B TS
C2952	0CK5610K515	560P 50V K B TS
C2953	0CK1220K515	1200P 50V K B TS
C2954	0CK1040K945	0.1UF 50V Z F TR,
C2955	0CK1040K945	0.1UF 50V Z F TR,
C2956	0CK1040K945	0.1UF 50V Z F TR,
C2957	0CE476DF618	47UF STD 16V M FL TP5
C2960	0CK1040K945	0.1UF 50V Z F TR,
C2961	0CN1040K949	0.1M 50V Z F TA52
C2962	0CN1030F679	10000P 16V M Y TA52
C297	0CE1074F618	100UF SRA 16V M FL TP5
C298	0CE1074F618	100UF SRA 16V M FL TP5
C306	0CE4763F618	47UF SRE 16V M FL TP5
C315	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C317	0CE4763F618	47UF SRE 16V M FL TP5
C317	0CE107SF6DC	100UF MVG 16V M SMD R/TP

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	CE : Electrolytic	RN : Metal Film
		RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
C319	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C322	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C323	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C324	0CE1074F618	100UF SRA 16V M FL TP5
C326	0CE4763F618	47UF SRE 16V M FL TP5
C327	0CE1074F618	100UF SRA 16V M FL TP5
C331	0CE4763F618	47UF SRE 16V M FL TP5
C331	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C336	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C338	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C340	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C340	0CE1074F618	100UF SRA 16V M FL TP5
C341	0CE1074F618	100UF SRA 16V M FL TP5
C342	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C345	0CE1053K618	1UF SRE 50V M FL TP5
C346	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C352	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C352	0CE1074F618	100UF SRA 16V M FL TP5
C353	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C354	0CE1074F618	100UF SRA 16V M FL TP5
C355	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C356	0CE227SC6DC	220UF MVG 6.3V M SMD R/TP
C357	0CE4764F636	47UF SRA,SS 16V 20% BP(D) TP FM5
C359	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C360	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C361	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C361	0CE4764F636	47UF SRA,SS 16V 20% BP(D) TP FM5
C364	0CE4764F636	47UF SRA,SS 16V 20% BP(D) TP FM5
C366	0CE4764F636	47UF SRA,SS 16V 20% BP(D) TP FM5
C368	0CE4764F636	47UF SRA,SS 16V 20% BP(D) TP FM5
C370	0CE4764F636	47UF SRA,SS 16V 20% BP(D) TP FM5
C374	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C375	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD) SMD
C383	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C397	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C402	0CE5651K652	5.6UF SM,SA 50V 20% FM7.5 BP(S)
C403	0CK47101515	470P 1KV K B TS
C405	0CE475BP618	4.7UF KME TYPE 160V 20% FL TP 5
C406	181-013R	MPP 0.47UF 400V 5% FM
C407	181-010W	PP 800V 0.0047UF J
C409	181-010M	PP 630V 0.018UF J
C411	0CQ4731N509	0.047U 100V K POLY TP
C412	0CE107DK618	100UF STD 50V M FL TP5
C414	0CE477DF618	470UF STD 16V 20% FL TP 5
C415	181-091G	470PF 2KV 10%,-10% R/TP DE0907-486
C416	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C416	0CQ3341N401	0.33U 100V J POLY F5
C417	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C417	0CE106DR618	10UF STD 250V M FL TP5
C418	0CE477DH618	470UF STD 25V M FL TP5
C419	0CE2276D618	220UF SMS,SG 10V 20% FL TP 5
C420	0CE107DK618	100UF STD 50V M FL TP5

LOCA. NO	PART NO	DESCRIPTION
C421	0CE106DK618	10UF STD 50V M FL TP5
C423	0CE107DK618	100UF STD 50V M FL TP5
C424	0CK1020W515	1000P 500V K B TS
C425	0CE107DK618	100UF STD 50V M FL TP5
C426	0CN1040K949	0.1M 50V Z F TA52
C427	0CN1030F679	10000P 16V M Y TA52
C428	0CE108DH618	1000UF STD 25V M FL TP5
C430	0CK47101515	470P 1KV K B TS
C431	0CE108DH618	1000UF STD 25V M FL TP5
C432	0CN1030F679	10000P 16V M Y TA52
C432	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C433	0CN1020K519	1000P 50V K B TA52
C433	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C434	0CE227BP650	220UF KME TYPE 160V 20% FM7.5 BULK
C435	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C435	0CQ1042K439	0.1UF S 50V 5% M/PE NI TP5
C436	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C436	181-014K	0.0082UF 1.6KV 5%,-5% FM
C437	0CN6810K519	680P 50V K B TA52
C437	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C438	0CQ1041N509	0.1U 100V K POLY TP
C438	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C440	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C440	0CK1520W515	1500P 500V K B TS
C441	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C441	0CE476DK618	47UF STD 50V M FL TP5
C442	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C443	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C443	0CC1010K415	100P 50V J NP0 TS
C444	0CQ2221N509	0.0022U 100V K POLY TP
C446	0CN1040K949	0.1M 50V Z F TA52
C447	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C447	0CQ1042K439	0.1UF S 50V 5% M/PE NI TP5
C448	0CQ1031N509	0.01U 100V K POLY TP
C448	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C449	0CE105DK618	1UF STD 50V M FL TP5
C450	0CN1040K949	0.1M 50V Z F TA52
C451	0CQ2721N409	0.0027M 100V J POLY TP
C452	0CE105DK618	1UF STD 50V M FL TP5
C454	0CE1074F618	100UF SRA 16V M FL TP5
C455	0CQ1042K439	0.1UF S 50V 5% M/PE NI TP5
C460	0CE107DK618	100UF STD 50V M FL TP5
C461	0CK22202510	2200P 2KV K B S
C462	0CE226CR618	22UF SHL,SD 250V M FL TP 5
C463	181-015G	MPP 1600V 0.0077UF H
C466	0CE227DK618	220UF STD 50V M FL TP5
C467	0CE227DK618	220UF STD 50V M FL TP5
C468	181-009V	PP 200V 0.047UF K
C469	0CQ1031N509	0.01U 100V K POLY TP
C470	0CK2210W515	220P 500V K B TS
C471	0CK1810W515	180P 500V K B TS
C474	0CE106DK618	10UF STD 50V M FL TP5

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LOCA. NO	PART NO	DESCRIPTION
C475	181-014K	0.0082UF 1.6KV 5%,-5% FM
C476	181-014K	0.0082UF 1.6KV 5%,-5% FM
C477	0CK1810W515	180P 500V K B TS
C478	181-001B	CE 200V 470UF M LUG (105)
C479	0CE227DK618	220UF STD 50V M FL TP5
C481	0CQ2242K439	0.22UF S 50V 5% M/PE NI TP5
C482	0CE106DK618	10UF STD 50V M FL TP5
C484	0CE107DK618	100UF STD 50V M FL TP5
C486	0CN1040K949	0.1M 50V Z F TA52
C487	0CE475BP618	4.7UF KME TYPE 160V 20% FL TP 5
C488	0CE107DK618	100UF STD 50V M FL TP5
C489	181-007H	50V 0.47UF J MATSUSHITA
C491	0CN1040K949	0.1M 50V Z F TA52
C492	0CN1040K949	0.1M 50V Z F TA52
C493	0CN1040K949	0.1M 50V Z F TA52
C501	0CE107DD618	100UF STD 10V M FL TP5
C502	0CE227DF618	220UF STD 16V M FL TP5
C502	0CE106DK618	10UF STD 50V M FL TP5
C503	181-007H	50V 0.47UF J MATSUSHITA
C504	0CN1040K949	0.1M 50V Z F TA52
C505	0CN1040K949	0.1M 50V Z F TA52
C506	0CE107DD618	100UF STD 10V M FL TP5
C507	0CN1040K949	0.1M 50V Z F TA52
C508	0CN1040K949	0.1M 50V Z F TA52
C509	0CN1040K949	0.1M 50V Z F TA52
C510	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C511	181-007H	50V 0.47UF J MATSUSHITA
C513	0CE476DF618	47UF STD 16V M FL TP5
C516	0CE107DF618	100UF STD 16V M FL TP5
C519	0CE226DF618	22UF STD 16V M FL TP5
C520	181-007H	50V 0.47UF J MATSUSHITA
C522	0CE107DF618	100UF STD 16V M FL TP5
C522	0CE1074F618	100UF SRA 16V M FL TP5
C525	0CE4763F618	47UF SRE 16V M FL TP5
C525	0CQ4721N519	0.0047U 100V K POLY NI TP
C526	0CE1063F618	10UF SRE 16V M FL TP5
C526	181-007H	50V 0.47UF J MATSUSHITA
C527	0CE1063F618	10UF SRE 16V M FL TP5
C528	0CE3353K618	3.3UF SRE,SE 50V 20% FL TP 5
C529	181-442Z	PE,ECQ-B1H104KF3(TR,)
C530	181-442Z	PE,ECQ-B1H104KF3(TR,)
C531	181-442Z	PE,ECQ-B1H104KF3(TR,)
C532	0CQ1031N509	0.01U 100V K POLY TP
C537	0CE1063F618	10UF SRE 16V M FL TP5
C538	0CE4763F618	47UF SRE 16V M FL TP5
C538	0CE107DD618	100UF STD 10V M FL TP5
C544	0CE1074F618	100UF SRA 16V M FL TP5
C553	0CE107DF618	100UF STD 16V M FL TP5
C555	0CE476DF618	47UF STD 16V M FL TP5
C558	0CE1053K618	1UF SRE 50V M FL TP5
C559	0CE1053K618	1UF SRE 50V M FL TP5
C560	0CE1053K618	1UF SRE 50V M FL TP5

LOCA. NO	PART NO	DESCRIPTION
C563	0CE1063F618	10UF SRE 16V M FL TP5
C563	0CE107DF618	100UF STD 16V M FL TP5
C566	0CE4763F618	47UF SRE 16V M FL TP5
C568	0CE1074F618	100UF SRA 16V M FL TP5
C570	0CE107DF618	100UF STD 16V M FL TP5
C573	0CE1053K618	1UF SRE 50V M FL TP5
C575	0CE4763F618	47UF SRE 16V M FL TP5
C576	0CE1074F618	100UF SRA 16V M FL TP5
C578	0CE1063F618	10UF SRE 16V M FL TP5
C579	0CE1063F618	10UF SRE 16V M FL TP5
C580	0CE1063F618	10UF SRE 16V M FL TP5
C581	0CE1063F618	10UF SRE 16V M FL TP5
C589	0CE1074F618	100UF SRA 16V M FL TP5
C590	0CE1063F618	10UF SRE 16V M FL TP5
C591	0CE1063F618	10UF SRE 16V M FL TP5
C593	0CE1063F618	10UF SRE 16V M FL TP5
C594	0CE1063F618	10UF SRE 16V M FL TP5
C599	0CN1030F679	10000P 16V M Y TA52
C601	0CQ1831N509	0.018U 100V K POLY TP5
C602	0CQ1831N509	0.018U 100V K POLY TP5
C603	0CE106DK618	10UF STD 50V M FL TP5
C604	0CE106DK618	10UF STD 50V M FL TP5
C611	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C612	0CE226DK618	22UF STD 50V M FL TP5
C616	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C617	181-442Z	PE,ECQ-B1H104KF3(TR,)
C623	0CE477DF618	470UF STD 16V 20% FL TP 5
C624	0CE106DF618	10UF STD 16V M FL TP5
C627	0CE108DK61A	1000UF STD 50V M FL TP7.5
C628	181-442Z	PE,ECQ-B1H104KF3(TR,)
C629	0CE104DK618	0.1000UF STD 50V M FL TP5
C631	0CE108DK61A	1000UF STD 50V M FL TP7.5
C632	181-442Z	PE,ECQ-B1H104KF3(TR,)
C633	0CE108DK61A	1000UF STD 50V M FL TP7.5
C634	181-442Z	PE,ECQ-B1H104KF3(TR,)
C639	0CE477DF618	470UF STD 16V 20% FL TP 5
C643	0CE226DK618	22UF STD 50V M FL TP5
C644	181-442Z	PE,ECQ-B1H104KF3(TR,)
C806	0CK10202510	1000P 2KV K B S
C808	0CE227BJ618	220U KME 35V M FL TP5
C809	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C810	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C811	0CE477DF618	470UF STD 16V 20% FL TP 5
C812	0CE107BF618	100UF KME 16V M FL TP5
C813	0CK10202510	1000P 2KV K B S
C815	0CK27101515	270P 1KV K B TS
C816	181-011D	PP 1600V 0.0022UF J
C817	0CE476DN618	47UF STD 100V 20% FL TP 5
C818	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C819	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C820	0CK8210K515	820P 50V K B TS
C835	0CQ1041N509	0.1U 100V K POLY TP

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

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

LOCA. NO	PART NO	DESCRIPTION
C836	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C837	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C838	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C839	181-001A	CE 200V 470UF M LUG (85)
C840	OCE107BP61A	100UF KME 160V M FL TP7.5
C841	181-001A	CE 200V 470UF M LUG (85)
C842	OCE107BP61A	100UF KME 160V M FL TP7.5
C843	OCE337DK618	330UF STD 50V M FL TP5
C845	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C846	OCE228BK650	2200UF KME TYPE 50V 20% FM7.5 BULK
C847	OCE228BK650	2200UF KME TYPE 50V 20% FM7.5 BULK
C848	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C849	OCE228BK650	2200UF KME TYPE 50V 20% FM7.5 BULK
C850	OCE228BK650	2200UF KME TYPE 50V 20% FM7.5 BULK
C851	OCE228EJ61A	2200UF KMG 35V M FL TP 7.5
C852	OCE228EJ61A	2200UF KMG 35V M FL TP 7.5
C855	OCE105DK618	1UF STD 50V M FL TP5
C856	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C857	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C858	OCE3386H610	3300UF SMS,SG 25V 20% FL BULK
C859	OCE108DJ618	1000UF STD 35V M FL TP5
C860	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C861	OCE3386F650	3300M SMS 16V M FM7.5
C862	OCE108DF618	1000UF STD 16V M FL TP5
C863	OCE108DF618	1000UF STD 16V M FL TP5
C864	OCE3386F650	3300M SMS 16V M FM7.5
C865	181-091D	1000PF 1KV 10%,-10% R/TP DE0905-979
C866	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C879	181-001U	LUG(85) 470UF 450V 20% FM
Δ C890	181-120P	470 PF 4KV K JE R FL 10
Δ C891	181-120P	470 PF 4KV K JE R FL 10
C901	OCE106BK618	10UF KME 50V M FL TP5
C901B	OCE107DF618	100UF STD 16V M FL TP5
C901G	OCE107DF618	100UF STD 16V M FL TP5
C901R	OCE107DF618	100UF STD 16V M FL TP5
C902	OCE476BK618	47UF KME 50V M FL TP5
C903	OCE106BK618	10UF KME 50V M FL TP5
C903B	OCE107DF618	100UF STD 16V M FL TP5
C903G	OCE107DF618	100UF STD 16V M FL TP5
C903R	OCE107DF618	100UF STD 16V M FL TP5
C904	OCE106BK618	10UF KME 50V M FL TP5
C905	OCQ1031N509	0.01U 100V K POLY TP
C905B	OCE108DF618	1000UF STD 16V M FL TP5
C905G	OCE108DF618	1000UF STD 16V M FL TP5
C905R	OCE108DF618	1000UF STD 16V M FL TP5
C906	OCE476BK618	47UF KME 50V M FL TP5
C906B	OCE476DR618	47UF STD 250V 20% FL TP 5
C906G	OCE476DR618	47UF STD 250V 20% FL TP 5
C906R	OCE476DR618	47UF STD 250V 20% FL TP 5
C907B	OCE106DR618	10UF STD 250V M FL TP5
C907G	OCE106DR618	10UF STD 250V M FL TP5
C907R	OCE106DR618	10UF STD 250V M FL TP5

LOCA. NO	PART NO	DESCRIPTION
C908	OCE336DK618	33UF STD 50V M FL TP5
C908B	OCK1030W510	0.01U 500V K B S
C908G	OCK1030W510	0.01U 500V K B S
C908R	OCK1030W510	0.01U 500V K B S
C909B	OCK47202510	4700P 2KV K B S
C909G	OCK47202510	4700P 2KV K B S
C909R	OCK47202510	4700P 2KV K B S
C910B	OCQZVBK002A	A.C 275V 0.1UF M (S=15)
C910G	OCQZVBK002A	A.C 275V 0.1UF M (S=15)
C910R	OCQZVBK002A	A.C 275V 0.1UF M (S=15)
C911	OCK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C912	OCK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C913B	OCQZVBK002A	A.C 275V 0.1UF M (S=15)
C913G	OCQZVBK002A	A.C 275V 0.1UF M (S=15)
C913R	OCQZVBK002A	A.C 275V 0.1UF M (S=15)
C919B	OCK1010K515	100P 50V K B TS
C919G	OCK1010K515	100P 50V K B TS
C919R	OCK1010K515	100P 50V K B TS
C931	OCE337DK618	330UF STD 50V M FL TP5
C932	OCE106BR618	10UF KME 250V M FL TP5
C933	OCE106BK618	10UF KME 50V M FL TP5
C934	OCE106BK618	10UF KME 50V M FL TP5
C935	OCE106BK618	10UF KME 50V M FL TP5
C936	OCE107BP61A	100UF KME 160V M FL TP7.5
C937	OCE107DN618	100UF STD 100V M FL TP5
C938	OCQ1031N509	0.01U 100V K POLY TP
C939	OCK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C941	OCK4720W510	4700P 500V K B S
C952	OCE106BR618	10UF KME 250V M FL TP5
C953	OCE106BK618	10UF KME 50V M FL TP5
C954	OCE106BK618	10UF KME 50V M FL TP5
C955	OCE106DK618	10UF STD 50V M FL TP5
C956	OCE336DP618	33UF STD 160V M FL TP5
C957	OCE107DN618	100UF STD 100V M FL TP5
C958	OCQ1031N509	0.01U 100V K POLY TP
C960	OCK4720W510	4700P 500V K B S
C972	OCE106BR618	10UF KME 250V M FL TP5
C973	OCE106BK618	10UF KME 50V M FL TP5
C974	OCE106BK618	10UF KME 50V M FL TP5
C975	OCE106BK618	10UF KME 50V M FL TP5
C976	OCE336DP618	33UF STD 160V M FL TP5
C977	OCE107DN618	100UF STD 100V M FL TP5
C978	OCQ1031N509	0.01U 100V K POLY TP
C979	OCK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C980	OCK4720W510	4700P 500V K B S
CT3	OCN1040K949	0.1M 50V Z F TA52
CT4	OCE107DF618	100UF STD 16V M FL TP5
CT7	OCN1040K949	0.1M 50V Z F TA52
CT8	OCE107DF618	100UF STD 16V M FL TP5
CT9	OCN1030F679	10000P 16V M Y TA52
ZD01P	OCN1020K519	1000P 50V K B TA52

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

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

LOCA. NO	PART NO	DESCRIPTION
COIL&TRANSFORMER		
L015	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L016	0LA0221K139	INDUCTOR,AXIAL LEAD2.2UH A +-10%
L017	0LA0222K119	INDUCTOR,AXIAL LEAD22UH K 2.3*3.4 TP
L019	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L01P	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L020	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L051	0LC0233002A	INDUCTOR,CHIP3.3UH CERATECH R/TP
L1001	0LA0472K119	INDUCTOR,AXIAL LEAD47UH K 2.3*3.4 TP
L1002	0LA0472K119	INDUCTOR,AXIAL LEAD47UH K 2.3*3.4 TP
L101	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L102	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L103	0LA0221K139	INDUCTOR,AXIAL LEAD2.2UH A +-10%
L104	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L106	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L217	0LC0233002A	INDUCTOR,CHIP3.3UH CERATECH R/TP
L218	0LC0233002A	INDUCTOR,CHIP3.3UH CERATECH R/TP
L219	0LC0233002A	INDUCTOR,CHIP3.3UH CERATECH R/TP
L2700	150-C02F	COIL,CHOKE82UH PHY TURN
L2701	150-C02F	COIL,CHOKE82UH PHY TURN
L2702	150-C02F	COIL,CHOKE82UH PHY TURN
L2703	150-C02F	COIL,CHOKE82UH PHY TURN
L2711	0LA0272K139	INDUCTOR,AXIAL LEAD27UH K 4X10.5 TP
L2712	0LA0272K139	INDUCTOR,AXIAL LEAD27UH K 4X10.5 TP
L401	150-717J	COIL,CHOKECHOKE 560UH (E/W)
L402	6140VY0007A	COIL,LINEARITY- GET 6.7UH, LINEARITY COIL
L404	0LA1001K130	INDUCTOR,1000UH 10% A 4.0 X 10.5 BULK -
L405	150-717F	COIL,CHOKE- GET CHOKE 325MH
L500	0LC1032101A	INDUCTOR,CHIP10UH 10% 3216 R/TC FI-
L502	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L503	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L503	0LC1032101A	INDUCTOR,CHIP10UH 10% 3216 R/TC FI-
L504	0LA0222K119	INDUCTOR,AXIAL LEAD22UH K 2.3*3.4 TP
L504	0LC1032101A	INDUCTOR,CHIP10UH 10% 3216 R/TC FI-
L505	0LC1032101A	INDUCTOR,CHIP10UH 10% 3216 R/TC FI-
L810	150-C02F	COIL,CHOKE82UH PHY TURN
L811	150-C02F	COIL,CHOKE82UH PHY TURN
L812	150-C02F	COIL,CHOKE82UH PHY TURN
L813	150-C02F	COIL,CHOKE82UH PHY TURN
L814	150-C02F	COIL,CHOKE82UH PHY TURN
L815	150-C02F	COIL,CHOKE82UH PHY TURN
L816	150-C02F	COIL,CHOKE82UH PHY TURN
L817	150-C02F	COIL,CHOKE82UH PHY TURN
L818	150-C02F	COIL,CHOKE82UH PHY TURN
L819	150-C02F	COIL,CHOKE82UH PHY TURN
L901	150-C02F	COIL,CHOKE82UH PHY TURN
L902	150-C02F	COIL,CHOKE82UH PHY TURN
L902B	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L902G	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
L902R	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
LT1	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP

LOCA. NO	PART NO	DESCRIPTION
LT2	0LA0102K119	INDUCTOR,AXIAL LEAD10UH K 2.3*3.4 TP
T401	151-515A	TRANSFORMER, 2519 4.5MH CF201
T402	6170VC0002A	TRANSFORMER,RH-DRIVE EER-2619
T405	6170VMCA13P	TRANSFORMER,1200UH 87TURN, 0.12PHY
T406	151-E06A	TRANSFORMER,POWEEER2834 0UH
T407	6170VMCA13K	TRANSFORMER,SMPS[COIL]EER4215 700UH
T407	6170VMCA13P	TRANSFORMER,SMPS[COIL]EER4215 1200UH
T801	6170VMCA45B	TRANSFORMER,SMPS[COIL]EE5555S 300UH
Δ T803	151-D02G	TRANSFORMER,STAND-BYEER3541 0UH
T890	6170VZ0008A	TRANSFORMER,TS4841 30500UH REACTOR
T891	6170VZ0008A	TRANSFORMER,TS4841 30500UH REACTOR
CONNECTOR		
GND2B	387-907M	CONNECTOR ASSY,800MM R-H UL1617AWG22
P003A	387-A08A	CONNECTOR ASSY,8P 2.5MM 100MM H-B
P005A	6631V25A04A	CONNECTOR ASSY,14P 2.5MM 100MM H-
P03P	366-921B	CONNECTOR (CIRC),WAFER2.5MM 3P GIL-G
P1	366-009D	CONNECTOR (CIRC),WAFER2.36PAI 1P . K/M
P2	366-009D	CONNECTOR (CIRC),WAFER2.36PAI 1P . K/M
P204B	6631V25044A	CONNECTOR ASSY,12P 2.5MM 1000MM B-H
P3	366-009D	CONNECTOR (CIRC),WAFER2.36PAI 1P . K/M
P401A	387-A08A	CONNECTOR ASSY,8P 2.5MM 100MM H-B
P402A	6631V25A04A	CONNECTOR ASSEMBLY,14P 2.5MM 100MM H-
P403A	387-A08A	CONNECTOR ASSEMBLY,8P 2.5MM 100MM H-B
P404A	387-A15A	CONNECTOR ASSEMBLY,12P 2.5MM 100MM H-
P903A	6631V00017E	CONNECTOR ASSEMBLY,9P 2.5MM 300MM H-B
P904A	6631V00017E	CONNECTOR ASSEMBLY,9P 2.5MM 300MM H-B
PT1	366-922G	CONNECTOR (CIRC),WAFER2.5MM 8P GIL-G
PT3	366-922E	CONNECTOR (CIRC),WAFER2.5MM 6P GIL-G
SY207	6630GE00415	CONNECTOR (CIRC),D-SUBPDC 013
SY211	6630GE00415	CONNECTOR (CIRC),D-SUBPDC 013
RESISTOR		
D408	0RD8202F609	82K OHM 1/6 W 5.00% TA52
FR901B	0RF0102K607	10 2W 5% TA62
FR901G	0RF0102K607	10 2W 5% TA62
FR901R	0RF0102K607	10 2W 5% TA62
FR902B	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
FR902G	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
FR902R	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
R002	0RD1000F609	100 OHM 1/6 W 5% TA52
R003	0RD2001F609	2K OHM 1/6 W 5% TA52
R006	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R007	0RD1000F609	100 OHM 1/6 W 5% TA52
R008	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R009	0RD1000F609	100 OHM 1/6 W 5% TA52
R010	0RD1000F609	100 OHM 1/6 W 5% TA52
R014	0RD1000F609	100 OHM 1/6 W 5% TA52
R032	0RD1001F609	1K OHM 1/6 W 5% TA52
R051	0RD1000F609	100 OHM 1/6 W 5% TA52
R054	0RD1001F609	1K OHM 1/6 W 5% TA52
R055	0RD1001F609	1K OHM 1/6 W 5% TA52

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

LOCA. NO	PART NO	DESCRIPTION
R056	0RD1001F609	1K OHM 1/6 W 5% TA52
R066	0RD1000F609	100 OHM 1/6 W 5% TA52
R070	0RD1000F609	100 OHM 1/6 W 5% TA52
R071	0RD1000F609	100 OHM 1/6 W 5% TA52
R074	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R075	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R076	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R077	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R1001	0RD2403F609	240K OHM 1/6 W 5.00% TA52
R1002	0RD2403F609	240K OHM 1/6 W 5.00% TA52
R1003	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R1004	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R1005	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R108	0RD0102F609	10 OHM 1/6 W 5% TA52
R117	0RD1002F609	10K OHM 1/6 W 5% TA52
R128	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R134	0RD5600H609	560 OHM 1/2 W 5.00% TA52
R135	0RD5600H609	560 OHM 1/2 W 5.00% TA52
R2057	0RN1001G509	1K OHM 1/4 W 2.00% TA52
R2095	0RF0470K607	0.47 OHM 2 W 5.00% TA62
R2096	0RF0470K607	0.47 OHM 2 W 5.00% TA62
R2700	0RS2200K607	220 OHM 2 W 5.00% TA62
R2701	0RD1000F609	100 OHM 1/6 W 5% TA52
R2702	0RD1000F609	100 OHM 1/6 W 5% TA52
R2703	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2704	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2705	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2706	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2707	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2708	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2709	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R2710	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R2711	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R2712	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R2713	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R2714	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R2715	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2716	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2717	0RD2702F609	27K OHM 1/6 W 5.00% TA52
R2718	0RD2702F609	27K OHM 1/6 W 5.00% TA52
R2719	0RD4702F609	47K OHM 1/6 W 5% TA52
R2720	0RD4702F609	47K OHM 1/6 W 5% TA52
R2721	0RD4702F609	47K OHM 1/6 W 5% TA52
R2722	0RD4702F609	47K OHM 1/6 W 5% TA52
R2723	0RD4702F609	47K OHM 1/6 W 5% TA52
R2724	0RD4702F609	47K OHM 1/6 W 5% TA52
R2725	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2726	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2727	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2728	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2729	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2730	0RS0391K607	3.9 OHM 2 W 5.00% TA62

LOCA. NO	PART NO	DESCRIPTION
R2731	0RS0561K607	5.6 OHM 2 W 5.00% TA62
R2732	0RS0561K607	5.6 OHM 2 W 5.00% TA62
R2733	0RS0561K607	5.6 OHM 2 W 5.00% TA62
R2734	0RS0561K607	5.6 OHM 2 W 5.00% TA62
R2735	0RS0561K607	5.6 OHM 2 W 5.00% TA62
R2736	0RS0561K607	5.6 OHM 2 W 5.00% TA62
R2737	0RS2200K607	220 OHM 2 W 5.00% TA62
R2738	0RS2200K607	220 OHM 2 W 5.00% TA62
R2739	0RS2200K607	220 OHM 2 W 5.00% TA62
R2740	0RS2200K607	220 OHM 2 W 5.00% TA62
R2741	0RS2200K607	220 OHM 2 W 5.00% TA62
R2742	0RS2200K607	220 OHM 2 W 5.00% TA62
R2743	0RS2200K607	220 OHM 2 W 5.00% TA62
R2744	0RS2200K607	220 OHM 2 W 5.00% TA62
R2745	0RS2200K607	220 OHM 2 W 5.00% TA62
R2746	0RS2200K607	220 OHM 2 W 5.00% TA62
R2747	0RS2200K607	220 OHM 2 W 5.00% TA62
R2748	0RD1000F609	100 OHM 1/6 W 5% TA52
R2780	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2781	0RD1001F609	1K OHM 1/6 W 5% TA52
R2782	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2783	0RD1001F609	1K OHM 1/6 W 5% TA52
R2784	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2785	0RD1001F609	1K OHM 1/6 W 5% TA52
R2786	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2787	0RD1001F609	1K OHM 1/6 W 5% TA52
R2788	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2789	0RD1001F609	1K OHM 1/6 W 5% TA52
R2790	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2791	0RD1001F609	1K OHM 1/6 W 5% TA52
R2792	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2793	0RD1002F609	10K OHM 1/6 W 5% TA52
R2794	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2807	0RD1001F609	1K OHM 1/6 W 5% TA52
R2819	0RH0102D622	10 OHM 1 / 10 W 2012 5.00% D
R2820	0RH0102D622	10 OHM 1 / 10 W 2012 5.00% D
R2950	0RD1004F609	1M OHM 1/6 W 5% TA52
R2951	0RD4703F609	470K OHM 1/6 W 5.00% TA52
R2952	0RD1004F609	1M OHM 1/6 W 5% TA52
R2953	0RD4703F609	470K OHM 1/6 W 5.00% TA52
R2954	0RD1002F609	10K OHM 1/6 W 5% TA52
R2955	0RD1002F609	10K OHM 1/6 W 5% TA52
R2956	0RD1002F609	10K OHM 1/6 W 5% TA52
R2957	0RD1002F609	10K OHM 1/6 W 5% TA52
R2958	0RD1004F609	1M OHM 1/6 W 5% TA52
R2959	0RD1004F609	1M OHM 1/6 W 5% TA52
R2960	0RD3903F609	390K OHM 1/6 W 5.00% TA52
R2961	0RD3903F609	390K OHM 1/6 W 5.00% TA52
R2962	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R2965	0RD1002F609	10K OHM 1/6 W 5% TA52
R2966	0RD1002F609	10K OHM 1/6 W 5% TA52
R2967	0RD1004F609	1M OHM 1/6 W 5% TA52

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LOCA. NO	PART NO	DESCRIPTION
R2968	ORD1004F609	1M OHM 1/6 W 5% TA52
R2969	ORD1004F609	1M OHM 1/6 W 5% TA52
R2970	ORD1004F609	1M OHM 1/6 W 5% TA52
R2971	ORD5101F609	5.1K OHM 1/6 W 5.00% TA52
R2972	ORD1002F609	10K OHM 1/6 W 5% TA52
R2973	ORD1002F609	10K OHM 1/6 W 5% TA52
R399	ORS1001H609	1K OHM 1/2 W 5.00% TA52
R400	ORF0470K607	0.47 OHM 2 W 5.00% TA62
R400	ORS1001H609	1K OHM 1/2 W 5.00% TA52
R402	ORD1001F609	1K OHM 1/6 W 5% TA52
R403	ORS2200K607	220 OHM 2 W 5.00% TA62
R404	ORD2701F609	2.7K OHM 1/6 W 5% TA52
R405	ORS1002K607	10K OHM 2 W 5.00% TA62
R406	ORS1002K607	10K OHM 2 W 5.00% TA62
R407	ORS3902K607	39K OHM 2 W 5.00% TA62
R409	ORS6201H609	6.2K OHM 1/2 W 5.00% TA52
R40A	ORD4702F609	47K OHM 1/6 W 5% TA52
R40B	ORD1002F609	10K OHM 1/6 W 5% TA52
R40C	ORD1002F609	10K OHM 1/6 W 5% TA52
R40D	ORD0332F609	33 OHM 1/6 W 5.00% TA52
R40E	ORD7502H609	75K OHM 1/2 W 5.00% TA52
R40F	ORS1002H609	10K OHM 1/2 W 5.00% TA52
R40G	ORD2001F609	2K OHM 1/6 W 5% TA52
R40H	ORD6200F609	620 OHM 1/6 W 5.00% TA52
R40I	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R40J	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R40K	ORD2403H609	240K OHM 1/2 W 5.00% TA52
R40L	ORD1501H609	1.5K OHM 1/2 W 5.00% TA52
R40M	ORD2001H609	2K OHM 1/2 W 5.00% TA52
R40N	ORF0470H609	0.47 OHM 1/2 W 5.00% TA52
R40P	ORD2201F609	2.2K OHM 1/6 W 5.00% TA52
R40Q	ORD2701F609	2.7K OHM 1/6 W 5% TA52
R40R	ORD1201F609	1.2K OHM 1/6 W 5% TA52
R40S	ORD2701F609	2.7K OHM 1/6 W 5% TA52
R40T	ORD2001F609	2K OHM 1/6 W 5% TA52
R40U	ORD4700F609	470 OHM 1/6 W 0.05 TA52
R40V	ORD6201F609	6.2K OHM 1/6 W 5.00% TA52
R40W	ORD3001F609	3K OHM 1/6 W 5.00% TA52
R40X	ORD1001F609	1K OHM 1/6 W 5% TA52
R40Y	ORF0470H609	0.47 OHM 1/2 W 5.00% TA52
R40Z	ORD4700H609	470 OHM 1/2 W 5.00% TA52
R410	ORS4701K607	4.7K OHM 2 W 5.00% TA62
R411	ORD4702H609	47K OHM 1/2 W 5.00% TA52
R412	ORD5600H609	560 OHM 1/2 W 5.00% TA52
R413	ORS3902K607	39K OHM 2 W 5.00% TA62
R414	ORF0470K607	0.47 OHM 2 W 5.00% TA62
R415	180-A01T	2 W RW ROUND.G. 1OHM.J.TA31(63)
R416	180-C02M	5.6K OHM 1/2 W 10% TA52 ERC12GK562V
R417	ORD1501H609	1.5K OHM 1/2 W 5.00% TA52
R418	ORD4701F609	4.7K OHM 1/6 W 5% TA52
R419	ORS0221H609	2.2 OHM 1/2 W 5.00% TA52
R41A	ORD1000F609	100 OHM 1/6 W 5% TA52

LOCA. NO	PART NO	DESCRIPTION
R41B	ORD1001F609	1K OHM 1/6 W 5% TA52
R41D	ORD1002F609	10K OHM 1/6 W 5% TA52
R41E	ORS0102K607	10 OHM 2 W 5.00% TA62
R41G	ORD2200H609	220 OHM 1/2 W 5.00% TA52
R41H	ORS4701K607	4.7K OHM 2 W 5.00% TA62
R420	ORD1002F609	10K OHM 1/6 W 5% TA52
R421	ORD0102F609	10 OHM 1/6 W 5% TA52
R423	ORS1001K607	1K OHM 2 W 5.00% TA62
R424	ORF0470K607	0.47 OHM 2 W 5.00% TA62
R425	ORF0121K607	1.2 OHM 2 W 5.00% TA62
R426	ORF0141K607	1.4 OHM 2 W 5.00% TA62
R428	ORN5601F409	5.6K OHM 1/6 W 1.00% TA52
R429	ORD1303F609	130K OHM 1/6 W 5.00% TA52
R430	ORS4702H609	47K OHM 1/2 W 5.00% TA52
R431	ORS0101H609	1 OHM 1/2 W 5.00% TA52
R432	ORD4700H609	470 OHM 1/2 W 5.00% TA52
R433	ORS0221K607	2.2 OHM 2 W 5.00% TA62
R434	ORF0141K607	1.4 OHM 2 W 5.00% TA62
R435	ORN5601F409	5.6K OHM 1/6 W 1.00% TA52
R436	ORD1002F609	10K OHM 1/6 W 5% TA52
R437	ORD2201F609	2.2K OHM 1/6 W 5.00% TA52
R438	ORD2001F609	2K OHM 1/6 W 5% TA52
R439	ORD2201F609	2.2K OHM 1/6 W 5.00% TA52
R440	ORD2001F609	2K OHM 1/6 W 5% TA52
R441	ORD1002F609	10K OHM 1/6 W 5% TA52
R442	ORD5101F609	5.1K OHM 1/6 W 5.00% TA52
R443	ORD0472F609	47 OHM 1/6 W 5% TA52
R444	ORD1001F609	1K OHM 1/6 W 5% TA52
R445	ORD1000H609	100 OHM 1/2 W 5.00% TA52
R446	ORD5602F609	56K OHM 1/6 W 5% TA52
R447	ORD9102H609	91K OHM 1/2 W 5.00% TA52
R448	ORD2002F609	20K OHM 1/6 W 5.00% TA52
R449	ORD1002F609	10K OHM 1/6 W 5% TA52
R450	ORD1501H609	1.5K OHM 1/2 W 5.00% TA52
R451	ORD1001F609	1K OHM 1/6 W 5% TA52
R452	ORD1501H609	1.5K OHM 1/2 W 5.00% TA52
R453	ORD1000H609	100 OHM 1/2 W 5.00% TA52
R454	ORS0470H609	0.47 OHM 1/2 W 5.00% TA52
R455	ORD1000H609	100 OHM 1/2 W 5.00% TA52
R456	ORD1002F609	10K OHM 1/6 W 5% TA52
R457	ORD1001F609	1K OHM 1/6 W 5% TA52
R458	ORD3003F609	300K OHM 1/6 W 5.00% TA52
R459	ORD1002F609	10K OHM 1/6 W 5% TA52
R460	ORD1000F609	100 OHM 1/6 W 5% TA52
R461	ORD1002F609	10K OHM 1/6 W 5% TA52
R463	ORD1001F609	1K OHM 1/6 W 5% TA52
R464	ORD2001F609	2K OHM 1/6 W 5% TA52
R465	ORD1501F609	1.5K OHM 1/6 W 5% TA52
R466	ORD1001F609	1K OHM 1/6 W 5% TA52
R467	ORD1000F609	100 OHM 1/6 W 5% TA52
R468	ORD4700F609	470 OHM 1/6 W 0.05 TA52
R469	ORS3900K607	390 OHM 2 W 5.00% TA62

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

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

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

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

LOCA. NO	PART NO	DESCRIPTION
R470	0RS2002H609	20K OHM 1/2 W 5.00% TA52
R473	0RD3601F609	3.6K OHM 1/6 W 5.00% TA52
R474	0RD2701H609	2.7K OHM 1/2 W 5.00% TA52
R475	0RD2200H609	220 OHM 1/2 W 5.00% TA52
R476	0RS4701K607	4.7K OHM 2 W 5.00% TA62
R477	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R478	0RS2001K607	2K OHM 2 W 5.00% TA62
R479	0RD5601F609	5.6K OHM 1/6 W 5% TA52
R480	0RS2001K607	2K OHM 2 W 5.00% TA62
R481	0RS3902K607	39K OHM 2 W 5.00% TA62
R482	0RS3902K607	39K OHM 2 W 5.00% TA62
R483	0RN2202F409	22K OHM 1/6 W 1.00% TA52
R484	0RN9102F409	91K OHM 1/6 W 1.00% TA52
R485	0RS0561K607	5.6 OHM 2 W 5.00% TA62
R486	0RS1002H609	10K OHM 1/2 W 5.00% TA52
R487	0RS0102K607	10 OHM 2 W 5.00% TA62
R488	180-A01F	RW ROUND G 2W 0.50 J TA31(63)
R489	0RD0472F609	47 OHM 1/6 W 5% TA52
R490	0RN2202F409	22K OHM 1/6 W 1.00% TA52
R491	180-A01F	RW ROUND G 2W 0.50 J TA31(63)
R492	0RD1001F609	1K OHM 1/6 W 5% TA52
R493	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
R494	0RF0121H609	1.2 OHM 1/2 W 5.00% TA52
R495	0RD1001F609	1K OHM 1/6 W 5% TA52
R496	0RD1602F609	16K OHM 1/6 W 5.00% TA52
R497	0RD7501F609	7.5K OHM 1/6 W 5.00% TA52
R498	0RS4702H609	47K OHM 1/2 W 5.00% TA52
R499	0RD2002F609	20K OHM 1/6 W 5.00% TA52
R502	0RD1000F609	100 OHM 1/6 W 5% TA52
R503	0RD1000F609	100 OHM 1/6 W 5% TA52
R504	0RD1000F609	100 OHM 1/6 W 5% TA52
R505	0RD1000F609	100 OHM 1/6 W 5% TA52
R506	0RD1000F609	100 OHM 1/6 W 5% TA52
R508	0RN4701F409	4.7K OHM 1/6 W 1.00% TA52
R509	0RD1000F609	100 OHM 1/6 W 5% TA52
R510	0RD1002F609	10K OHM 1/6 W 5% TA52
R511	0RD1002F609	10K OHM 1/6 W 5% TA52
R512	0RD1000F609	100 OHM 1/6 W 5% TA52
R513	0RD1000F609	100 OHM 1/6 W 5% TA52
R514	0RD3304F609	3.3M OHM 1/6 W 5.00% TA52
R516	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R518	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R520	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R526	0RD1000F609	100 OHM 1/6 W 5% TA52
R535	0RD1002F609	10K OHM 1/6 W 5% TA52
R536	0RD0102F609	10 OHM 1/6 W 5% TA52
R562	0RD2702F609	27K OHM 1/6 W 5.00% TA52
R564	0RD8201F609	8.2K OHM 1/6 W 5.00% TA52
R576	0RD0102F609	10 OHM 1/6 W 5% TA52
R581	0RD1002F609	10K OHM 1/6 W 5% TA52
R601	0RD5100F609	510 OHM 1/6 W 5.00% TA52
R603	0RD5100F609	510 OHM 1/6 W 5.00% TA52

LOCA. NO	PART NO	DESCRIPTION
R612	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R614	0RD1001F609	1K OHM 1/6 W 5% TA52
R615	0RD3902F609	39K OHM 1/6 W 5.00% TA52
R621	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R632	0RD0471F609	4.7 OHM 1/6 W 5% TA52
R634	0RD0471F609	4.7 OHM 1/6 W 5% TA52
R651	0RD2703F609	270K OHM 1/6 W 0.05 TA52
R800	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR
R801	0RS4702K607	47K OHM 2 W 5.00% TA62
R802	0RS4702K607	47K OHM 2 W 5.00% TA62
R802A	180-822M	RWR 15W 1.0 OHM J PD
R803	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R804	0RD9101F609	9.1K OHM 1/6 W 5.00% TA52
R805	0RD0472H609	47 OHM 1/2 W 5.00% TA52
R806	0RD6802H609	68K OHM 1/2 W 5.00% TA52
R807	0RD1001F609	1K OHM 1/6 W 5% TA52
R808	180-A01C	2 W RWR G 2W 0.12 J TA31(63)
R809	180-A01D	RW ROUND G 2W 0.16 J TA31(63)
R810	0RD0222H609	22 OHM 1/2 W 5.00% TA52
R811	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
Δ R812	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR
R825	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R826	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R828	0RD2001F609	2K OHM 1/6 W 5% TA52
R831	0RD5602F609	56K OHM 1/6 W 5% TA52
R832	0RD4302F609	43K OHM 1/6 W 5.00% TA52
R838	180-777H	RWR 7W 910 J VERT
Δ R839	0RKZVTA001D	10M OHM 1/2 W 5% TA52 UL PILKOR
R845	180-A03E	7 W RW RECT G 20.2 J DOUBLE
R901B	0RD1000F609	100 OHM 1/6 W 5% TA52
R901G	0RD1000F609	100 OHM 1/6 W 5% TA52
R901R	0RD1000F609	100 OHM 1/6 W 5% TA52
R905B	0RS5602K607	56K OHM 2 W 5.00% TA62
R905G	0RS5602K607	56K OHM 2 W 5.00% TA62
R905R	0RS5602K607	56K OHM 2 W 5.00% TA62
R906B	0RN1501F409	1.5K OHM 1/6 W 1.00% TA52
R906G	0RN1501F409	1.5K OHM 1/6 W 1.00% TA52
R906R	0RN1501F409	1.5K OHM 1/6 W 1.00% TA52
R907B	0RN2701F409	2.7K OHM 1/6 W 1.00% TA52
R907G	0RN2701F409	2.7K OHM 1/6 W 1.00% TA52
R907R	0RN2701F409	2.7K OHM 1/6 W 1.00% TA52
R910B	180-C02P	220OHM 1/2 W 5% TA52
R910G	180-C02P	220OHM 1/2 W 5% TA52
R910R	180-C02P	220OHM 1/2 W 5% TA52
R912B	0RCZVTA002E	4.7K OHM 1/2 W 10% TA52 .
R912G	0RCZVTA002E	4.7K OHM 1/2 W 10% TA52 .
R912R	0RCZVTA002E	4.7K OHM 1/2 W 10% TA52 .
R914B	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR
R914G	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR
R914R	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR
R916B	0RS5602K607	56K OHM 2 W 5.00% TA62
R916G	0RS5602K607	56K OHM 2 W 5.00% TA62

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LOCA. NO	PART NO	DESCRIPTION
R916R	0RS5602K607	56K OHM 2 W 5.00% TA62
R917B	0RC0512H609	51 OHM 1/2 W 5.00% TA52
R917G	0RC0512H609	51 OHM 1/2 W 5.00% TA52
R917R	0RC0512H609	51 OHM 1/2 W 5.00% TA52
R919B	0RD1002F609	10K OHM 1/6 W 5% TA52
R919G	0RD1002F609	10K OHM 1/6 W 5% TA52
R919R	0RD1002F609	10K OHM 1/6 W 5% TA52
R921B	0RD1004H609	1M OHM 1/2 W 5.00% TA52
R921G	0RD1004H609	1M OHM 1/2 W 5.00% TA52
R921R	0RD1004H609	1M OHM 1/2 W 5.00% TA52
R922B	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R922G	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R922R	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R923B	0RD1003H609	100K OHM 1/2 W 5.00% TA52
R923G	0RD1003H609	100K OHM 1/2 W 5.00% TA52
R923R	0RD1003H609	100K OHM 1/2 W 5.00% TA52
R924B	0RD1802F609	18K OHM 1/6 W 5.00% TA52
R924G	0RD1802F609	18K OHM 1/6 W 5.00% TA52
R924R	0RD1802F609	18K OHM 1/6 W 5.00% TA52
R925	0RF0102H609	10 OHM 1/2 W 5.00% TA52
R925B	0RD4700H609	470 OHM 1/2 W 5.00% TA52
R925G	0RD4700H609	470 OHM 1/2 W 5.00% TA52
R925R	0RD4700H609	470 OHM 1/2 W 5.00% TA52
R926	0RF0102H609	10 OHM 1/2 W 5.00% TA52
R926B	0RD6201F609	6.2K OHM 1/6 W 5.00% TA52
R926G	0RD6201F609	6.2K OHM 1/6 W 5.00% TA52
R926R	0RD6201F609	6.2K OHM 1/6 W 5.00% TA52
R928G	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R930	0RD0271H609	2.7 OHM 1/2 W 5.00% TA52
R931	0RD1801H609	1.8K OHM 1/2 W 5.00% TA52
R932	0RD1801H609	1.8K OHM 1/2 W 5.00% TA52
R932B	0RD1000F609	100 OHM 1/6 W 5% TA52
R932G	0RD1000F609	100 OHM 1/6 W 5% TA52
R932R	0RD1000F609	100 OHM 1/6 W 5% TA52
R933	0RD0102H609	10 OHM 1/2 W 5.00% TA52
R934	0RD0271H609	2.7 OHM 1/2 W 5.00% TA52
R937	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R938	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R940	0RD3902H609	39K OHM 1/2 W 5.00% TA52
R941	0RD3902H609	39K OHM 1/2 W 5.00% TA52
R943	0RS1800J607	180 OHM 1 W 5.00% TA62
R944	0RD0472F609	47 OHM 1/6 W 5% TA52
R950	0RD0271H609	2.7 OHM 1/2 W 5.00% TA52
R951	0RD1801H609	1.8K OHM 1/2 W 5.00% TA52
R952	0RD1801H609	1.8K OHM 1/2 W 5.00% TA52
R953	0RD0102H609	10 OHM 1/2 W 5.00% TA52
R954	0RD0271H609	2.7 OHM 1/2 W 5.00% TA52
R957	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R958	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R960	0RD3902H609	39K OHM 1/2 W 5.00% TA52
R961	0RD3902H609	39K OHM 1/2 W 5.00% TA52
R963	0RS1800J607	180 OHM 1 W 5.00% TA62

LOCA. NO	PART NO	DESCRIPTION
R964	0RD0472F609	47 OHM 1/6 W 5% TA52
R970	0RD0271H609	2.7 OHM 1/2 W 5.00% TA52
R971	0RD1801H609	1.8K OHM 1/2 W 5.00% TA52
R972	0RD1801H609	1.8K OHM 1/2 W 5.00% TA52
R973	0RD0102H609	10 OHM 1/2 W 5.00% TA52
R974	0RD0271H609	2.7 OHM 1/2 W 5.00% TA52
R977	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R978	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R980	0RD3902H609	39K OHM 1/2 W 5.00% TA52
R981	0RD3902H609	39K OHM 1/2 W 5.00% TA52
R983	0RS1800J607	180 OHM 1 W 5.00% TA62
RT1	0RD1002F609	10K OHM 1/6 W 5% TA52
RT10	0RD0682H609	68 OHM 1/2 W 5.00% TA52
RT11	0RD1001F609	1K OHM 1/6 W 5% TA52
RT12	0RD1001F609	1K OHM 1/6 W 5% TA52
RT13	0RD0472H609	47 OHM 1/2 W 5.00% TA52
RT14	0RD1001F609	1K OHM 1/6 W 5% TA52
RT15	0RD1001F609	1K OHM 1/6 W 5% TA52
RT16	0RD0682H609	68 OHM 1/2 W 5.00% TA52
RT17	0RD1001F609	1K OHM 1/6 W 5% TA52
RT18	0RD1001F609	1K OHM 1/6 W 5% TA52
RT19	0RD0682H609	68 OHM 1/2 W 5.00% TA52
RT20	0RD1000F609	100 OHM 1/6 W 5% TA52
RT21	0RD1000F609	100 OHM 1/6 W 5% TA52
RT22	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT23	0RD1000F609	100 OHM 1/6 W 5% TA52
RT24	0RD1000F609	100 OHM 1/6 W 5% TA52
RT25	0RD1000F609	100 OHM 1/6 W 5% TA52
RT26	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT27	0RD1000F609	100 OHM 1/6 W 5% TA52
RT28	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT29	0RD1000F609	100 OHM 1/6 W 5% TA52
RT3	0RD4700F609	470 OHM 1/6 W 0.05 TA52
RT30	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT31	0RD1000F609	100 OHM 1/6 W 5% TA52
RT32	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT33	0RD1000F609	100 OHM 1/6 W 5% TA52
RT34	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT35	0RD1000F609	100 OHM 1/6 W 5% TA52
RT36	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT37	0RD2200F609	220 OHM 1/6 W 5.00% TA52
RT38	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT4	0RD4700F609	470 OHM 1/6 W 0.05 TA52
RT5	0RD1001F609	1K OHM 1/6 W 5% TA52
RT6	0RD1001F609	1K OHM 1/6 W 5% TA52
RT7	0RD0682H609	68 OHM 1/2 W 5.00% TA52
RT8	0RD1001F609	1K OHM 1/6 W 5% TA52
RT9	0RD1001F609	1K OHM 1/6 W 5% TA52
RX001	0RRZVTA001A	R OHM 100 OHM 5% CHIP 100 OHM*4
RX002	0RRZVTA001A	R OHM 100 OHM 5% CHIP 100 OHM*4
RX003	0RRZVTA001A	R OHM 100 OHM 5% CHIP 100 OHM*4
RX004	0RRZVTA001A	R OHM 100 OHM 5% CHIP 100 OHM*4

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	RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
RX005	0RRZVTA001A	R OHM 100 OHM 5% CHIP 100 OHM*4
RX006	0RRZVTA001A	R OHM 100 OHM 5% CHIP 100 OHM*4
RX007	0RRZVTA001A	R OHM 100 OHM 5% CHIP 100 OHM*4
RX008	0RRZVTA001A	R OHM 100 OHM 5% CHIP 100 OHM*4
RX009	0RRZVTA001A	R OHM 100 OHM 5% CHIP 100 OHM*4
RX010	0RRZVTA001A	R OHM 100 OHM 5% CHIP 100 OHM*4
VR401	0RV1103D550	10K OHM 6 AG L3P5, 2.5 -
SWITCH		
SW801S	140-289A	SWITCH,PUSHPOWER SDDF3PASP013 LG C&D
SWT1	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D
SWT2	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D
SWT3	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D
SWT5	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D
SWT6	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D
SWT7	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D
SWT8	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D
FILTER & CRYSTAL		
FB2000	125-022K	FILTER,FERRITE 1UH TAPING
FB2001	125-022K	FILTER,FERRITE 1UH TAPING
FB2002	125-022K	FILTER,FERRITE 1UH TAPING
FB2003	125-022K	FILTER,FERRITE 1UH TAPING
FB2004	125-022K	FILTER,FERRITE 1UH TAPING
FB2005	125-022K	FILTER,FERRITE 1UH TAPING
FB2006	125-022K	FILTER,FERRITE 1UH TAPING
FB2007	125-022K	FILTER,FERRITE 1UH TAPING
FB2008	125-022K	FILTER,FERRITE 1UH TAPING
FB2009	125-022K	FILTER,FERRITE 1UH TAPING
FB2010	125-022K	FILTER,FERRITE 1UH TAPING
FB2011	125-022K	FILTER,FERRITE 1UH TAPING
FB404	125-022K	FILTER,FERRITE 1UH TAPING
FB801	125-022K	FILTER,FERRITE 1UH TAPING
FB802	125-022K	FILTER,FERRITE 1UH TAPING
FB803	125-022K	FILTER,FERRITE 1UH TAPING
FB809	125-022K	FILTER,FERRITE 1UH TAPING
FB811	125-022K	FILTER,FERRITE 1UH TAPING
FB812	125-022K	FILTER,FERRITE 1UH TAPING
FB813	125-123A	FILTER,FERRITE BFD3565R2F(TAPING)
FB814	125-123A	FILTER,FERRITE BFD3565R2F(TAPING)
FB815	125-022K	FILTER,FERRITE 1UH TAPING
FB816	125-022K	FILTER,FERRITE 1UH TAPING
FB817	125-022K	FILTER,FERRITE 1UH TAPING
FB902B	125-123A	FILTER,FERRITE BFD3565R2F(TAPING)
FB902G	125-123A	FILTER,FERRITE BFD3565R2F(TAPING)
FB902R	125-123A	FILTER,FERRITE BFD3565R2F(TAPING)
FB905B	125-123A	FILTER,FERRITE BFD3565R2F(TAPING)
FB905G	125-123A	FILTER,FERRITE BFD3565R2F(TAPING)
FB905R	125-123A	FILTER,FERRITE BFD3565R2F(TAPING)
L101	125-022K	FILTER,FERRITE 1UH TAPING
L2001	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2002	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD

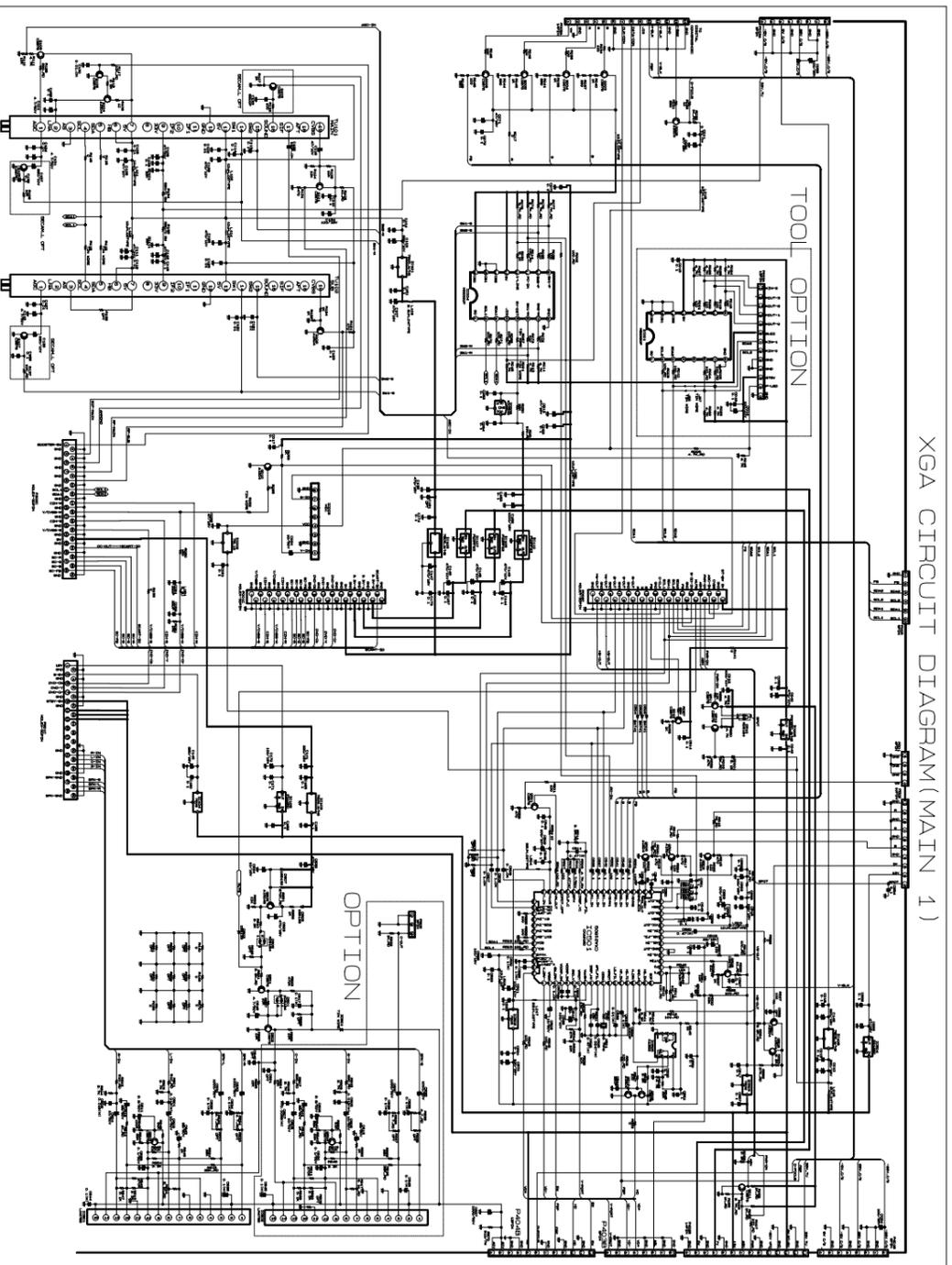
LOCA. NO	PART NO	DESCRIPTION
L2003	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2004	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2005	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2006	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2007	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2008	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2009	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L201	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L201	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L2011	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2012	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2013	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2014	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2018	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2021	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L2027	125-022K	FILTER,FERRITE 1UH TAPING
L2028	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L203	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L2030	6210TCT002B	FILTER,ACB2012M-300-T TDK , CHIP BEAD,LCD
L205	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L208	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L209	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L209	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L210	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L210	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L211	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L212	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L213	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L213	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L214	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L214	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L215	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L215	125-022K	FILTER,FERRITE 1UH TAPING
L216	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L216	125-022K	FILTER,FERRITE 1UH TAPING
L218	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L219	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L220	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L221	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L222	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L223	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L224	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L225	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L226	6210VC0005A	FILTER,BK2125 HS 750 2X1.25X0.85MM R/TP
L227	6210VC0005A	FILTER,BK2125 HS 750 2X1.25X0.85MM R/TP
L234	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L235	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L236	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L237	6210VC0005A	FILTER,BK2125 HS 750 2X1.25X0.85MM R/TP
L238	6210VC0005A	FILTER,BK2125 HS 750 2X1.25X0.85MM R/TP
L239	6210VC0005A	FILTER,BK2125 HS 750 2X1.25X0.85MM R/TP
L501	6210TCE001G	FILTER,HH-1M3216-501 3216MM R/TP

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

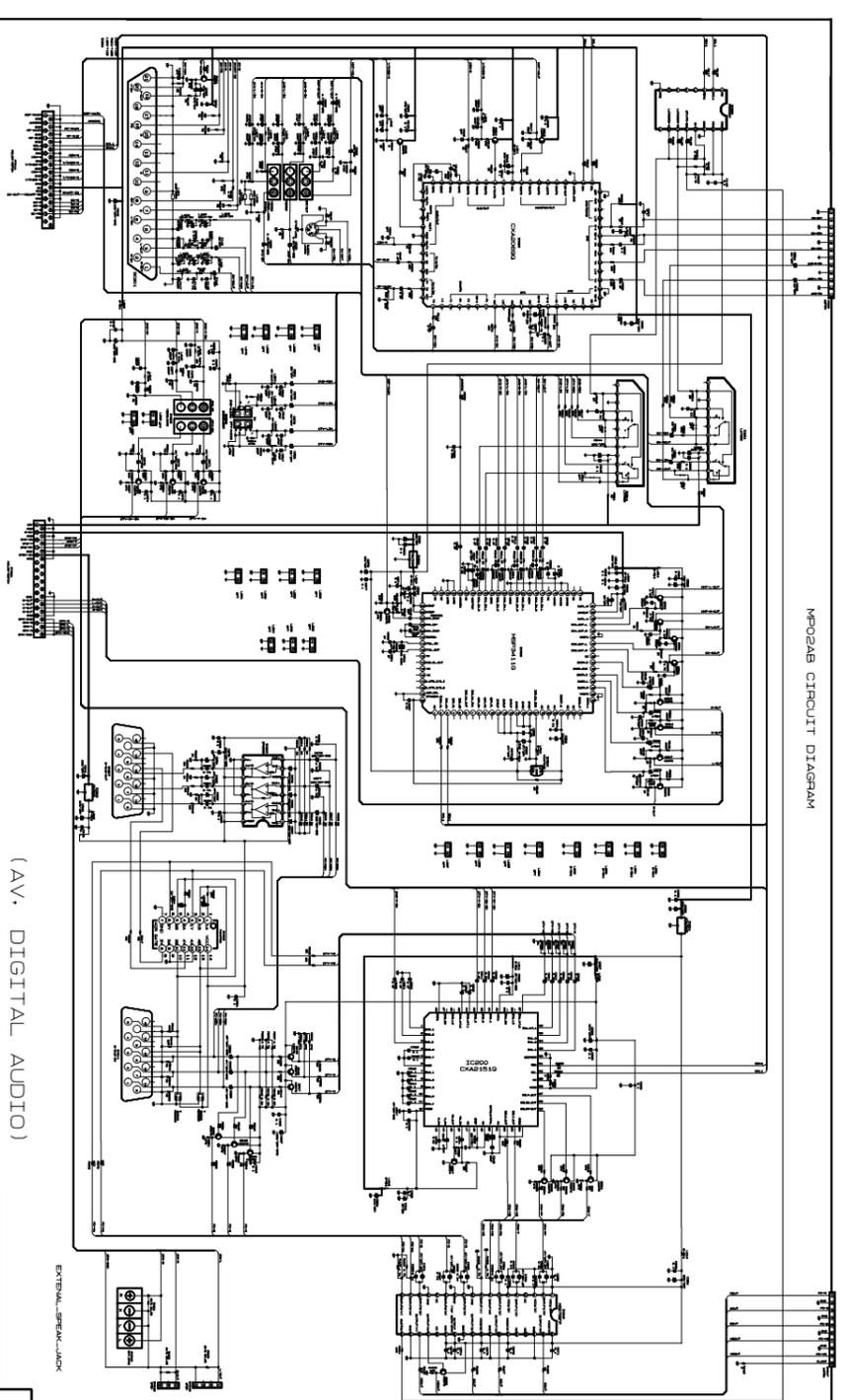
LOCA. NO	PART NO	DESCRIPTION
L502	6210TCE001G	FILTER,HH-1M3216-501 3216MM R/TP
L506	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L511	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
L512	6210TCE001G	FILTER,HH-1M3216-501 CERATEC 3216MM
Δ L801	150-F06U	FILTER,SQE3535 27.5MH 0.6PHY 70TURN .
Δ L803	150-F06U	FILTER,SQE3535 27.5MH 0.6PHY 70TURN .
L804	150-F06U	FILTER,SQE3535 27.5MH 0.6PHY 70TURN .
X200	6202VDT002E	RESONATOR,2025000HZ 30PPM 16PF TP
X201	6202VDT002B	RESONATOR,14.318MHZ 30PPM 16PF TP
X202	6202VDT002B	RESONATOR,14.318MHZ 30PPM 16PF TP
X2801	156-A02Z	RESONATOR,20.000MHZ 30PPM 16PF BK
X300	156-A01E	RESONATOR,4.000MHZ 30PPM 15PF BK
X500	156-A02M	RESONATOR,18.432MHZ 30PPM 10PF BK
X501	6212BA2002C	RESONATOR,2.69MHZ +/- 15 PPM BULK
SPARK		
SG401	165-004A	SPARK GAP,AXIAL AG20PT 152F-L3N/S-23
SG901B	6918VAX002E	SPARK GAP,AXIAL WSP-351M 350V 20% AXIAL
SG901G	6918VAX002E	SPARK GAP,AXIAL WSP-351M 350V 20% AXIAL
SG901R	6918VAX002E	SPARK GAP,AXIAL WSP-351M 350V 20% AXIAL
SG902B	6918VAX002B	SPARK GAP,AXIAL SSA-102N-A1 1000V 30%
SG902G	6918VAX002B	SPARK GAP,AXIAL SSA-102N-A1 1000V 30%
SG902R	6918VAX002B	SPARK GAP,AXIAL SSA-102N-A1 1000V 30%
SG903B	6918VAX002E	SPARK GAP,AXIAL WSP-351M 350V 20% AXIAL
SG903G	6918VAX002E	SPARK GAP,AXIAL WSP-351M 350V 20% AXIAL
SG903R	6918VAX002E	SPARK GAP,AXIAL WSP-351M 350V 20% AXIAL
JACK		
JA1001	6613V00010B	JACK ASSY,PMJ016B A/V 3P + S-VHS
JK200	380-377B	JACK,DIN PJ6024B PARK DIN S/W
SY201	6612VJV003A	JACK,RCA PJ6042C-01 A/V 9P WITH S/W
SY203	6612VJV004A	JACK,RCA PPJ119A PARK ELEC A/V 6P MONO
SY500	6612VJV005A	JACK,RCA PPJ118A PARK ELEC A/V 4P MONO
ACCESSORIES		
A1	3828VA0380B	MANUAL,OWNERS MP02AB SY LG CH 084J TX
A2	6710V00092S	REMOTE CONTR,W/O TXT RT-44NA12 - 42KEY
A5	3890V00499X	BOX,PT-43A80.RMLRS8 43 DWR3 1044*640*200
A6	3890V00838H	BOX,RT-44NA12 KRSLSS8 44 DWR2 .
MISCELLANEOUS		
DLT1	3720V00172A	PANELASSY ,LED RN-49NZ20H - STR,ONG
Δ F801	0FS5001B51D	FUSE,SLOW BLOW 5000MA 250V 5.2X20 CY/GL
LDT1	0DL100000AE	LED,SA5711(DL-1LO) BK AMBER -
PA01P	6726VH0001A	REMOTE CONTR RECEIVER,1238RF1 38KHZ .
Q416	0TF251800AA	FET,2SK2518-01MR BK 200V 20AA TO-220F
Δ RL802	6920VB1001E	RELAY,OEG 5V 0.05A 250V 5A 100 OHM 1A
S1G	5240VE0003D	LEAD,1032 AWG 22 TWI 500 RD 35716
S1R	5240VE0003J	LEAD SET, UL 1032 AWG 22 TWI 700 RD
SK901B	381-226L	SOCKET,PRT PCS628-03L(W/BAND)100K
SK901G	381-226L	SOCKET,PRT PCS628-03L(W/BAND)100K
SK901R	381-226L	SOCKET,PRT PCS628-03L(W/BAND)100K

LOCA. NO	PART NO	DESCRIPTION
T403	6174Z-6400B	FBT,FTMPNB1-T6400B .
TU101	6700MF0001C	TUNER,TAUD-Z240D 4SYS,2IN1,MAIN
TU102	6700MF0001D	TUNER,TAFD-Z241P 2 IN 1,SUB
VA801	164-003K	VARISTOR,620V 0% UL/CSA/VDE BK
VA802	164-003K	VARISTOR,620V 0% UL/CSA/VDE BK

XGA CIRCUIT DIAGRAM(MAIN 1)

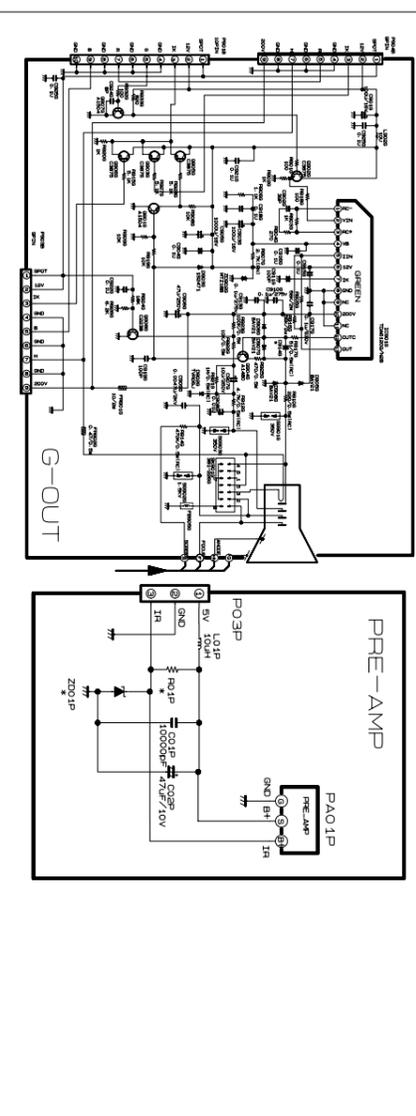
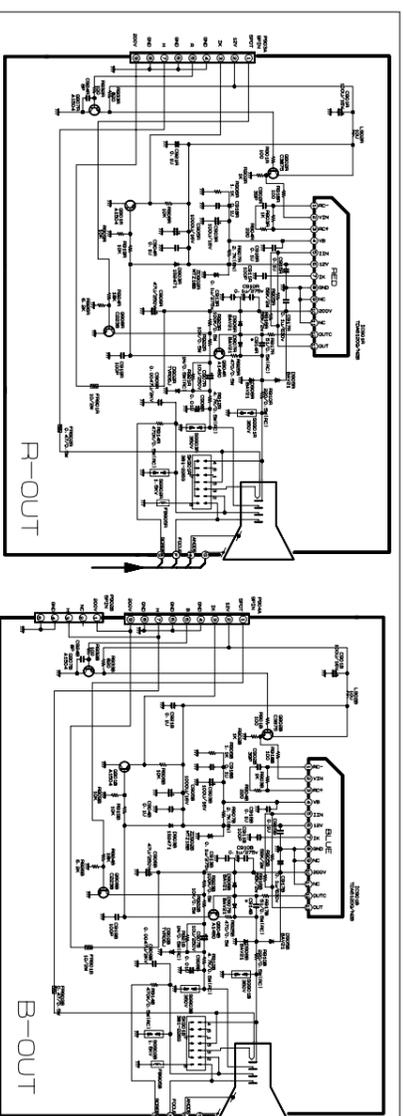
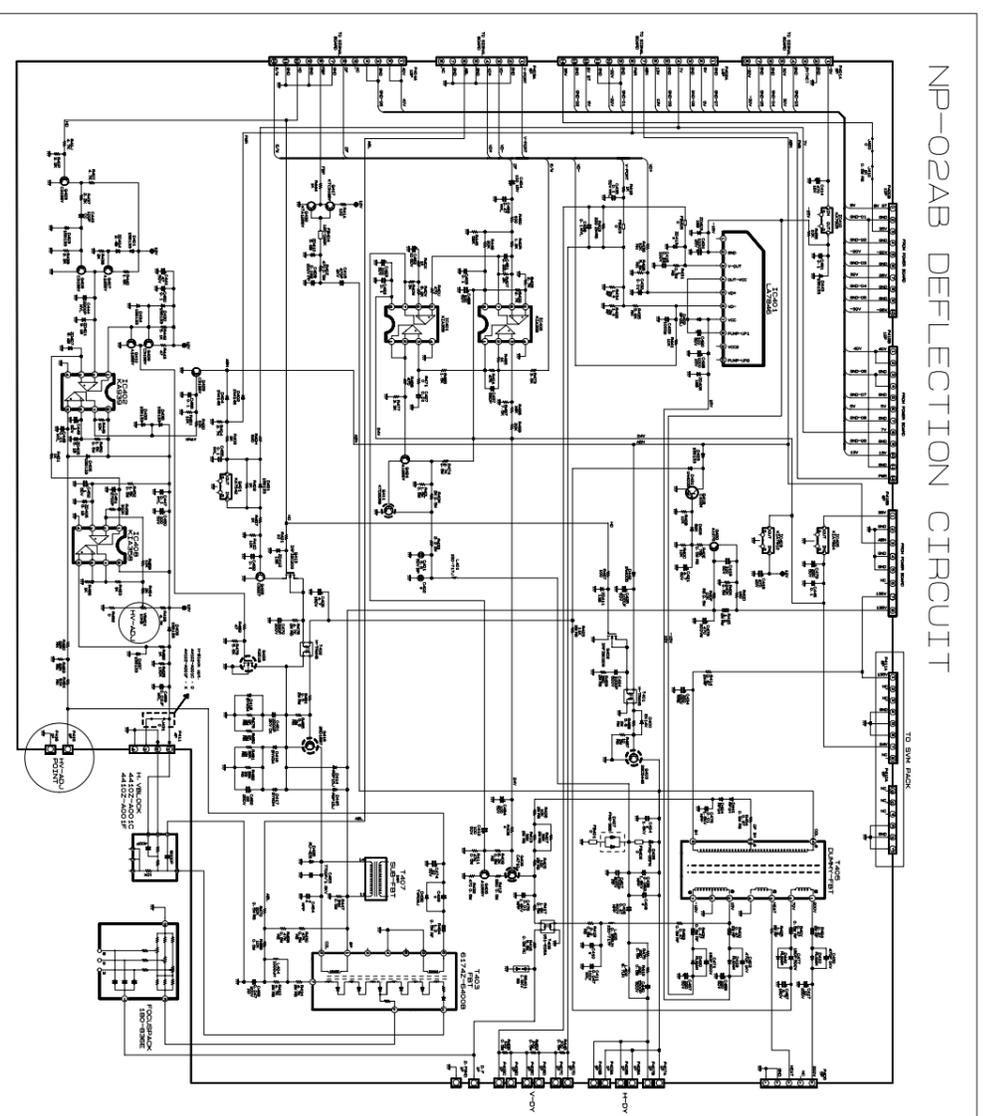


NP02AB CIRCUIT DIAGRAM

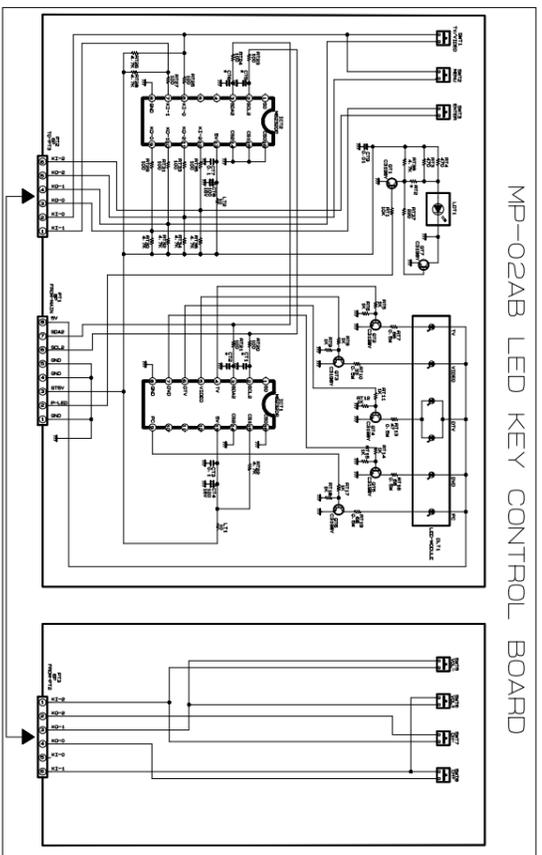
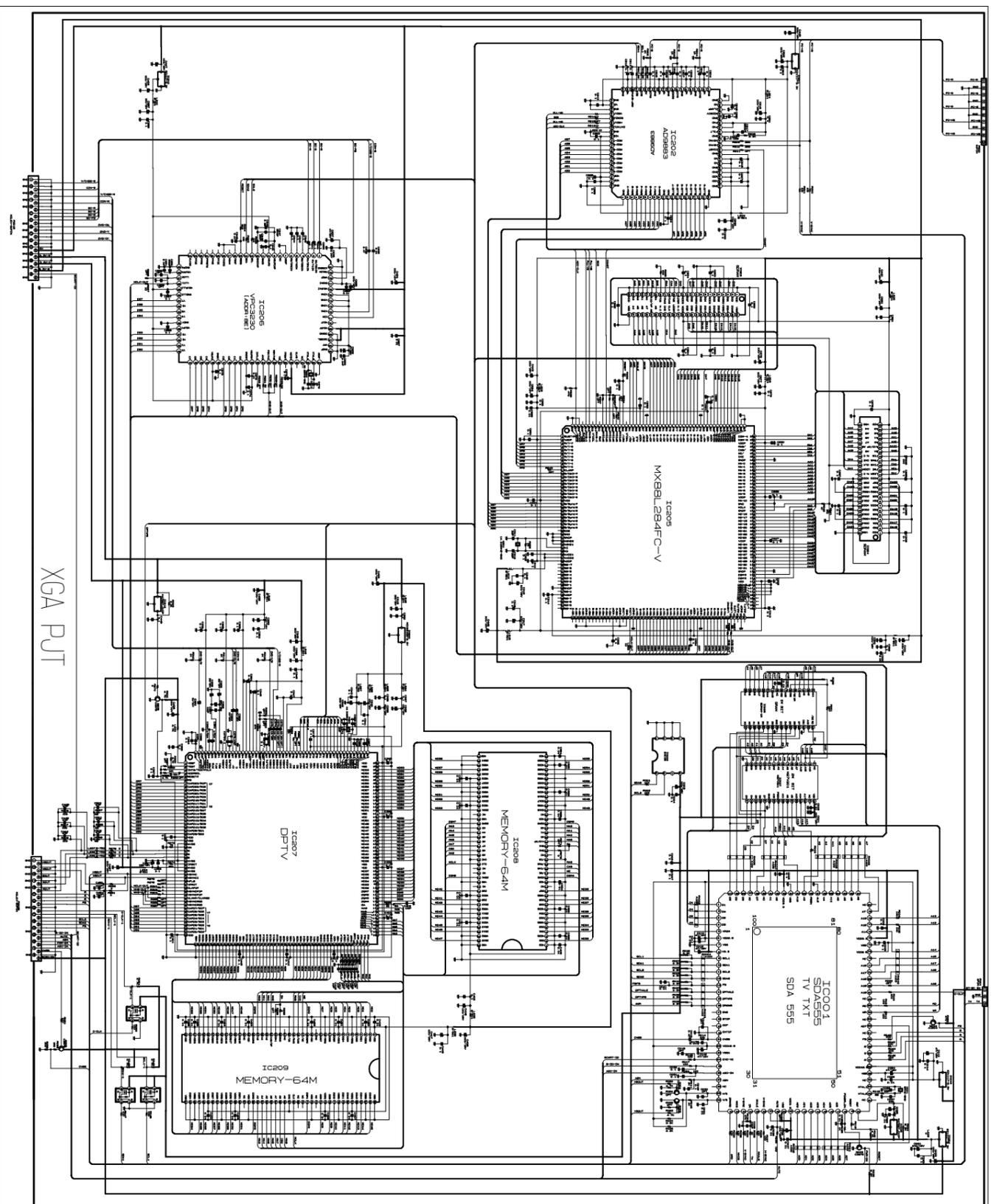
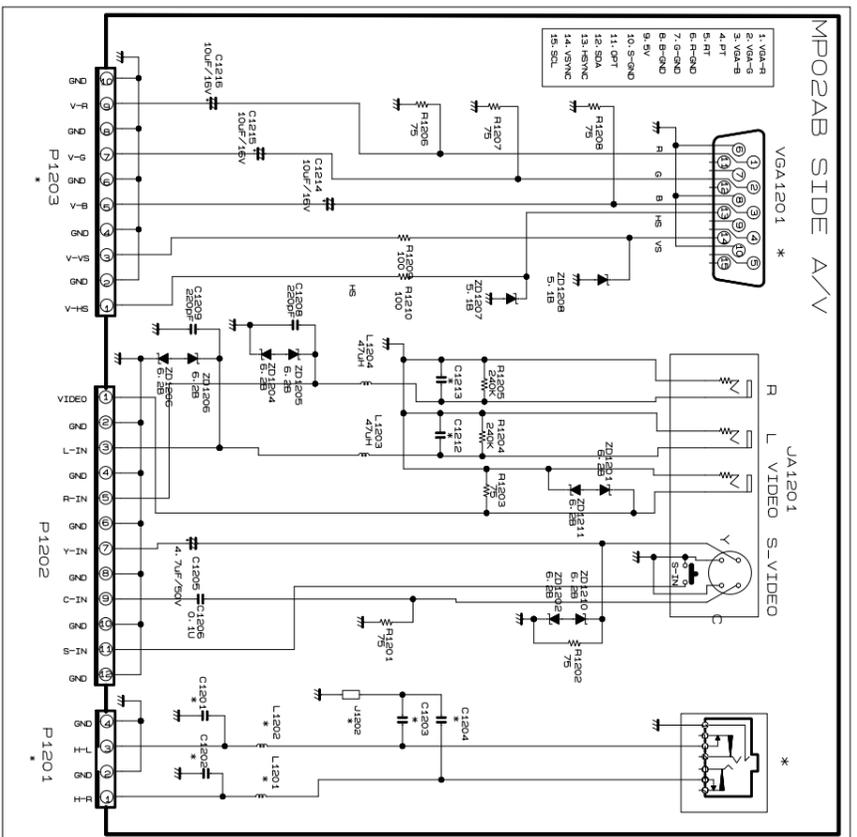
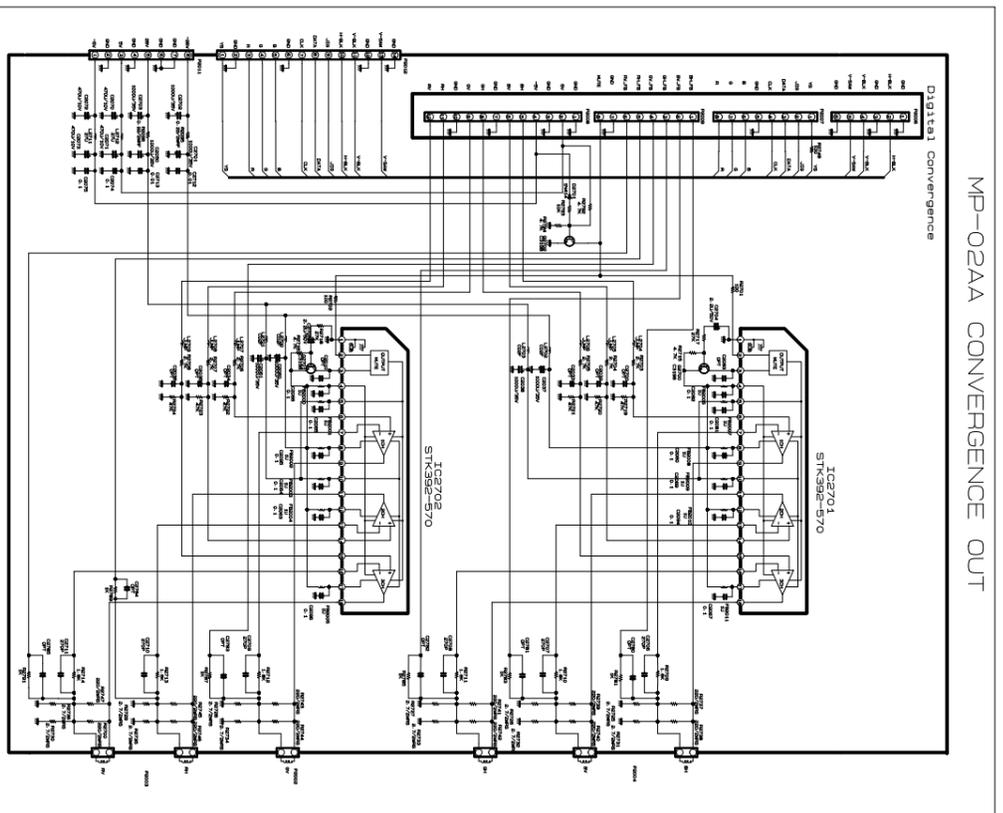


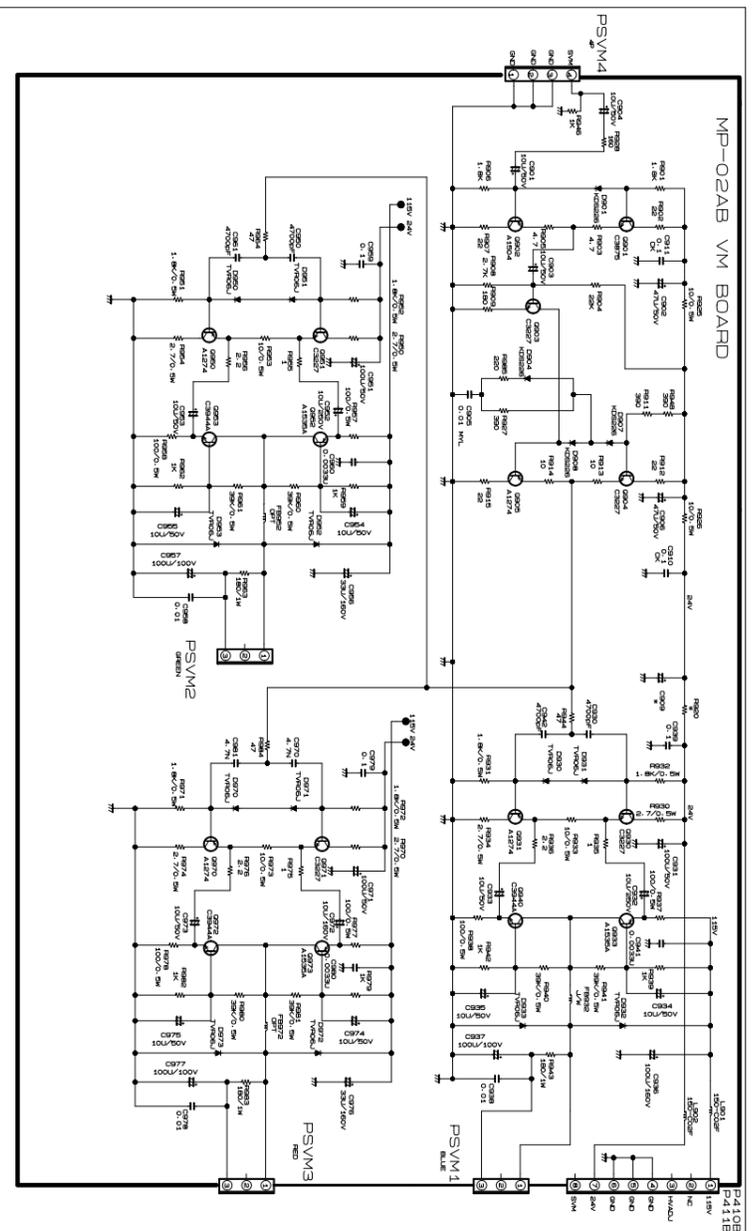
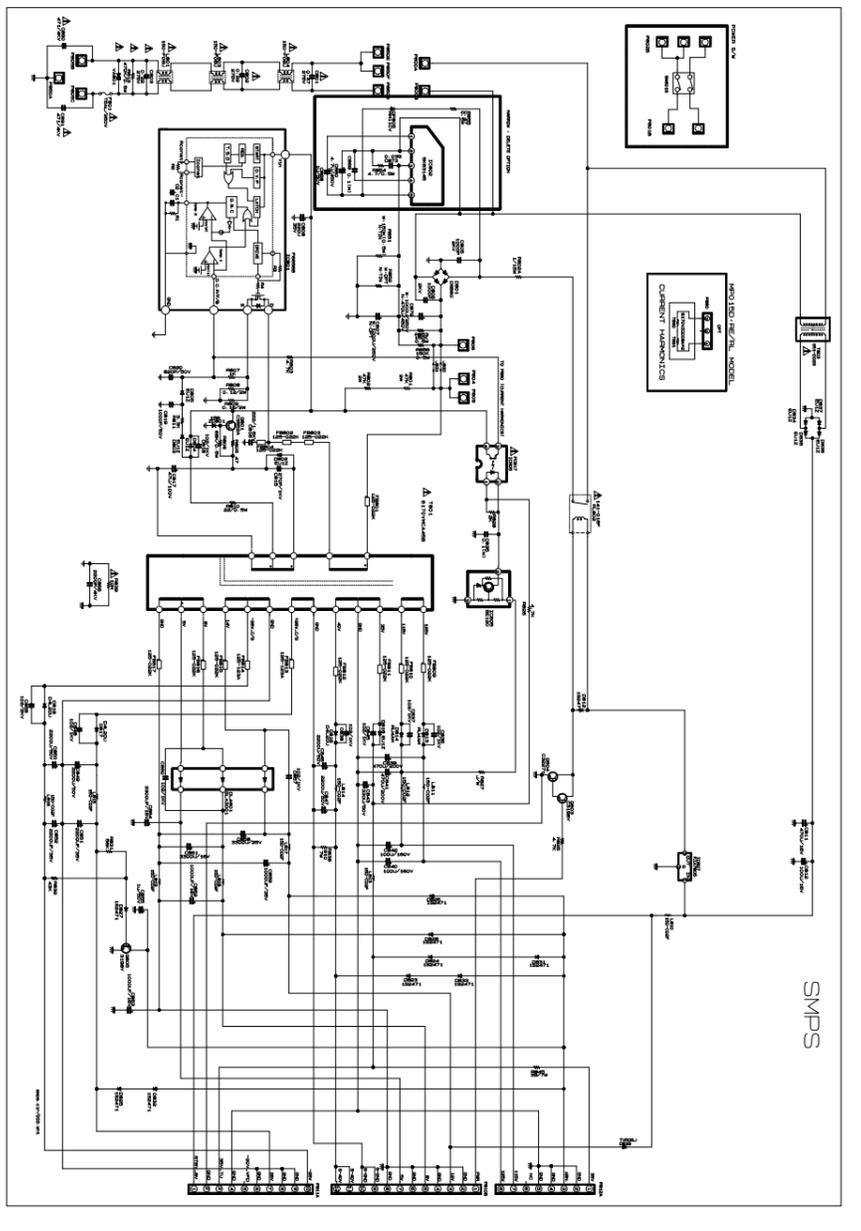
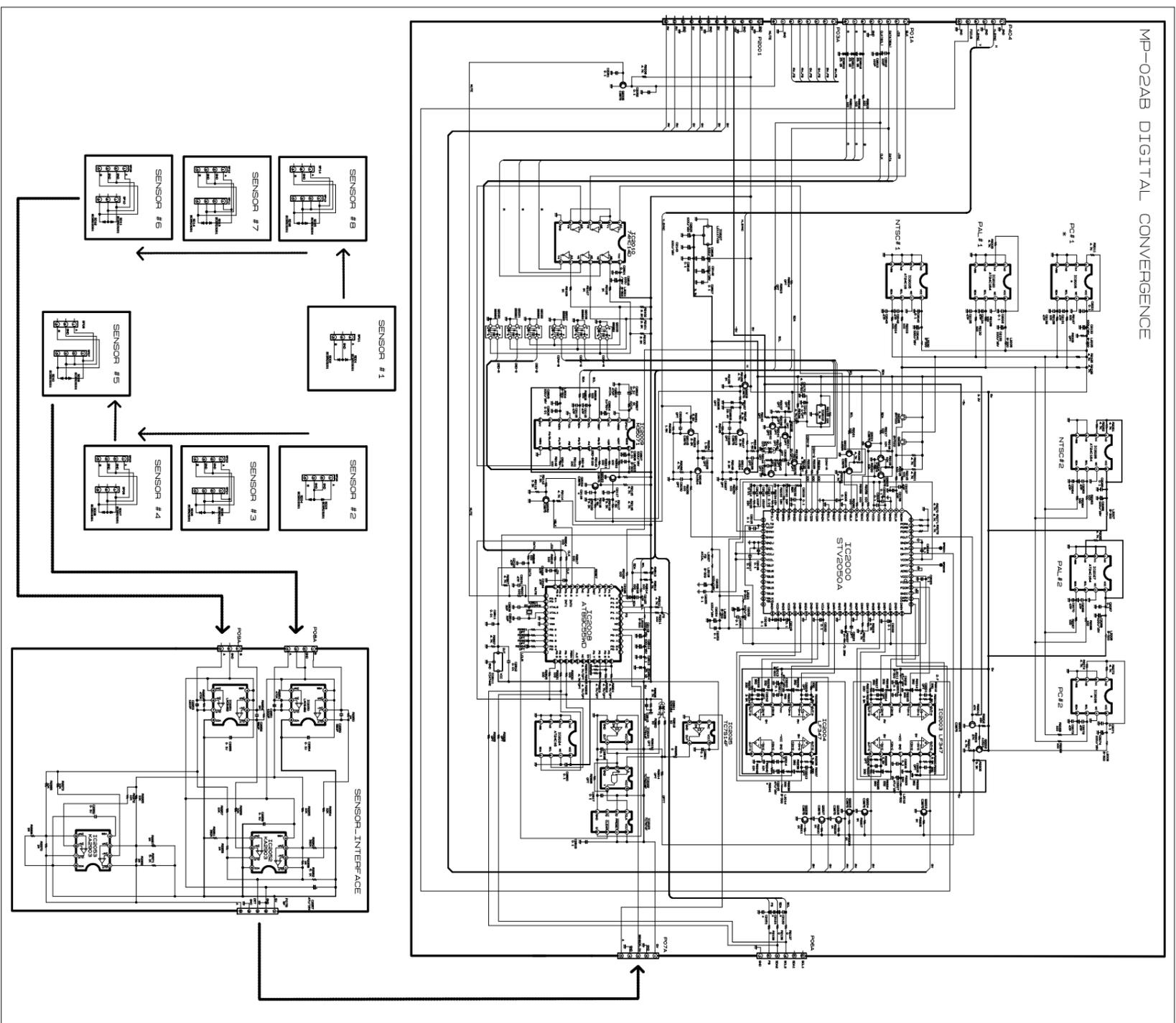
(AV. DIGITAL AUDIO)

NP-02AB DEFLECTION CIRCUIT



MP-02A CONVERGENCE OUT





SVC. SHEET : 3854VA0109A-S1
3854VA0109A-S2