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COLOR TV

SERVICE MANUAL

CHASSIS : MP-03AB

MODEL : RE/RL-44NB10RB

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

31.5 $\pm$ 1.5KV

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

Before returning the receiver to the customer,

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

Leakage Current Cold Check(Antenna Cold Check)

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

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

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

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

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

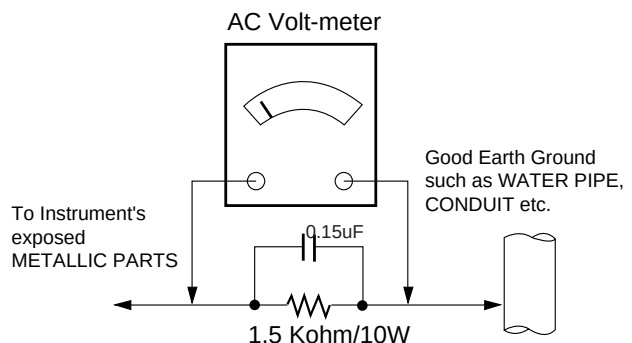
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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

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

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

Leakage Current Hot Check circuit



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 nonabrasive 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 heatsink 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 wirebrush (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 circuitboard 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 heatsink 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 heatsink.

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 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-03AB Chassis.

Chassis	Model Name	Market Place	Brand	Remark
MP-03AB	RE-44NA14T/13RB RE-40NZ60RB/RP	Europe (except Fance)	LG	'T' / 'RB' : Teletext option
	RT-44NA13/23RB RT-40NZ60RB/RP RT-44NA43RB/RP	China, Asia, Afreca, Middle East		
	RL-44NA14T/13RB RL-40NZ60RB	France		

■ Test Conditin

Conduct the test as mentioned below.

- 1) Temperature : 25 ± 5°C
- 2) Relative Humidity : 65 ± 10%
- 3) Power Voltage : Standard input voltage (230V~, 50Hz)
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 RPL
- 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) Extra requirement

Model	Market	Remark	Appliance
RE-44NA14T RE-39NZ60RB	EUROPE	CE SAFETY : CB EMI : EN55013 EMS : EN55020	OK

■ Test and Inspection Method

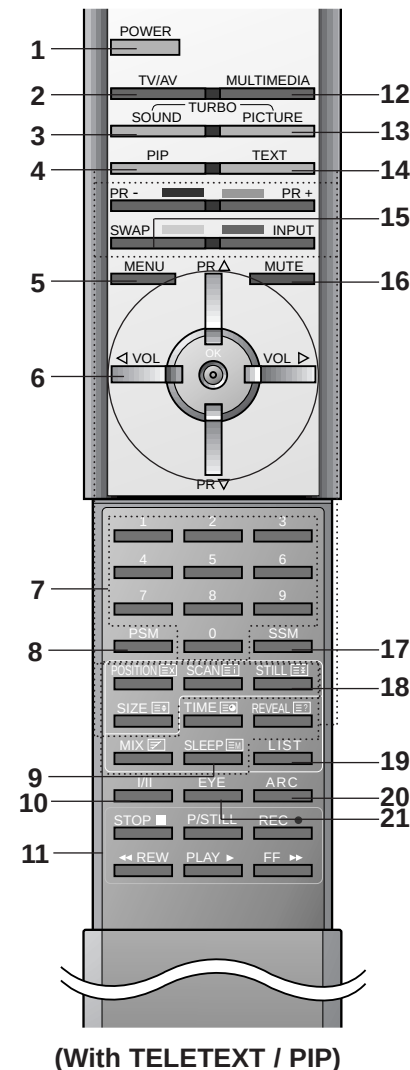
(★ Mark : Option Item)

No	Item		Specification	Remark
1	Receiving System	RE	PAL, SECAM-BG PAL, SECAM-DK, PAL-I	AV can be input NTSC-M
		RL	PAL, SECAM-BG SECAM-LL'	
		RT	PAL, SECAM-BG, PAL, SECAM-DK, PAL-I NTSC-M	
2	Available Channel		1) VHF : E2 ~ E12 2) UHF : E21 ~ E69 3) CATV : S1~S20 4) HYPER : S21~S41	★ (RL model for Fance)
			LL'VHF : B,C,D	
3	Input Voltage		AC 110-240V~, 50/60Hz	★ (RT model w/o China)
			AC 230V~, 50/60Hz	★ (RE,RL, China model)
4	Market	RE	Europe except France	
		RL	France	
		RT	Asia, Africa, Middle East	
5	Screen Size		44/49/54, 39/40/45/50/57 inch	
6	Aspect Ratio		4:3, 16:9	
7	Tuning System		FVS 100 Program	★ (With Teletext model)
			FVS 200 Program	★ (W/O Teletext model)
8	TUNER IF		38.9MHz, 39MHz	
9	Operating Environment		1)Temperature : -5 ~ 40 °C	
			2) Humidity : 30 ~ 95 %	
10	Storage Environment		3) Temperature : -20 ~ 50 °C	
			4) Humidity : 30 ~ 95 %	

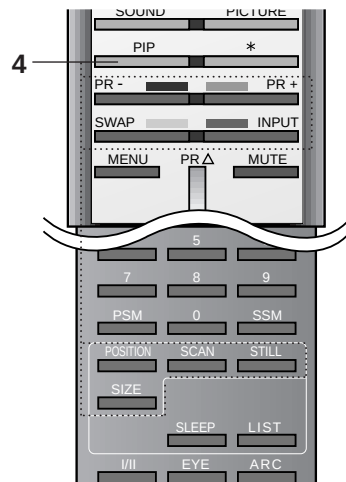
■ Feature and Function

No	Item		Specification		Remark
1	Feature	AV Input	1	V/L/R	Side
			2	V/L/R	★ (Rear, RT model)
		AV Output	1	V/L/R	★ (Rear, RT model)
		Component Input	2	COMPONENT1, L/R COMPONENT2, L/R	Rear 480i/ 480P/ 576i (1080i for CHINA)
		S-Video Input	2	Y/C	side 1, Rear 1
		SCART	3	Full SCART (with RGB Input) : 1 Half SCART : 1 (AV In/Out) Half SCART ; 1 (AV In, YC In)	★ (Rear, RE,RL model)
2	key	Local Key	POWER, MENU, VOL(◀▶), PR(▲▼)		Front
			TV/AV, OK, MUTE (W/O Index)		★ INDEX (With Index)
		Remocon	NEC Code		
3	Picture	PSM	Dynamic/ Standard/ Mild/ Game/ User		
		User Control	Contrast/ Brightness/ Colour/ Sharpness/ Tint		Tint : NTSC system only
		DRPC	On/ Off		★NA 5, NZ 5, NZ60
		XD	On/ Off		★NB10, NA 5, NZ 5
		VM	1/ 2/ 3/ 4		
		Convergence	1[+] Point/ 9[+] Point Auto Convergence		★ 3*3 EDC
4	Sound	SSM	Dolby Virtual/ Flat/ Music/ Movie/ Speech/ User		★ Dolby virtual (Option)
		AVL	On/ Off		
		DBS	On/ Off		
		TV Speaker	On/ Off		
		Balance	L 50 ~ 0 ~ R 50		
5	Timer	Clock	-- : -- AM		
		Off time	-- : -- AM Off (On)		
		On time	-- : -- AM Pr 1 VOL 30 Off(On)		
		Auto sleep	On/ Off		
6	Special	Language	Multi language		★
		Input	TV/ AV1/ AV2/ AV3/ AV4/ S-VIDEO4/ Component1/ Component2		★ S-VIDEO4 (EU ONLY)
		PIP Input	TV/ AV1/ AV2/ AV3/ AV4/ S-VIDEO4		★ S-VIDEO4 (EU ONLY)
		child lock	On/ Off		
7	Etc.	Convergence	MANUAL ADJUST Auto Adjust		★
		Comb Filter	Digital comb filter		
		SVM	O		
		ARC	4:3/ 16:9 (4:3 Model) 16:9/ 14:9/ ZOOM/ AUTO/ 4:3 (16:9 Model)		★
		ACMS	O		★
		Auto Off	On/ Off		
		Teletext	TOP/ FLOF/ LIS		★

CONTROLS DESCRIPTION



(With TELETEXT / PIP)



(Without TELETEXT/With PIP)

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

13 Remote control handset

14 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. **TV/AV (option)**
selects TV or AV mode.
switches the set on from standby.
3. **TURBO SOUND BUTTON**
selects Turbo sound.
4. **PIP BUTTONS (option)**
PIP
switches the sub picture on or off.
PR +/-
selects a programme for the sub picture.
SWAP
alternates between main and sub picture.
INPUT (option)
selects the input mode for the sub picture.
5. **MENU**
selects a menu.
6. **▲ / ▼ (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.
7. **NUMBER BUTTONS**
switches the set on from standby or directly select a number.
8. **PSM (Picture Status Memory)**
recalls your preferred picture setting.
9. **SLEEP**
sets the sleep timer.
10. **I/II**
selects the language during dual language broadcast.
selects the sound output (option).
11. **VCR BUTTONS**
control a LG video cassette recorder.

- 12. MULTIMEDIA (option)**
selects Component 1 or Component 2 modes.
- 13. TURBO PICTURE BUTTON**
selects Turbo picture.
- 14. TELETEXT BUTTONS (option)**
These buttons are used for teletext.
For further details, see the 'Teletext' section.
- 15. YELLOW BUTTON**
returns to the previously viewed programme.
selects a favourite programme.
- 16. MUTE**
switches the sound on or off.
- 17. SSM (Sound Status Memory)**
recalls your preferred sound setting.
- 18. STILL**
freezes motion of the picture.
- 19. LIST**
displays the programme table.
- 20. ARC**
select your desired picture format.
- 21. EYE (option)**
switches the eye function on or off.

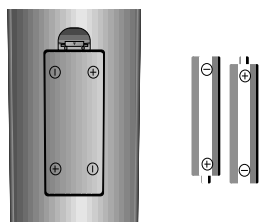
*** : No function**

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

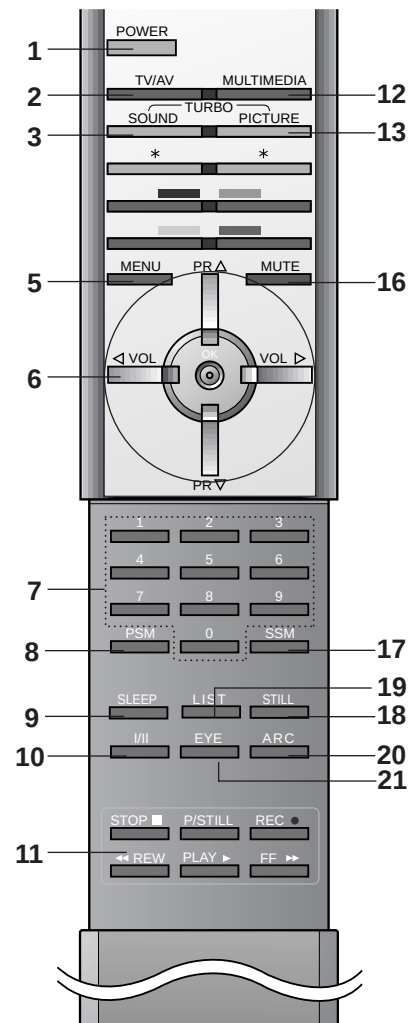
Note : In teletext mode, the **PR +/-**, **SWAP** and **INPUT** buttons are used for teletext function.

Battery installation

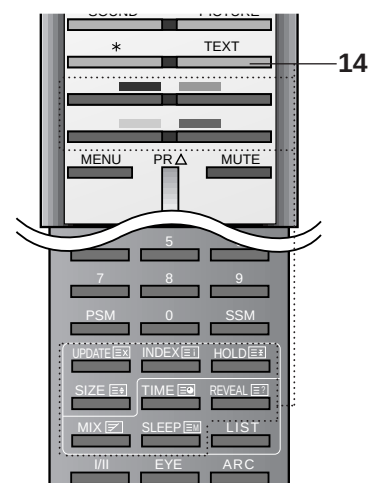
The remote control handset is powered by two AAA type batteries. To load the batteries, turn the remote control handset over and open the battery compartment. Install two batteries as indicated by the polarity symbols (+ and -) marked inside the compartment.



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.



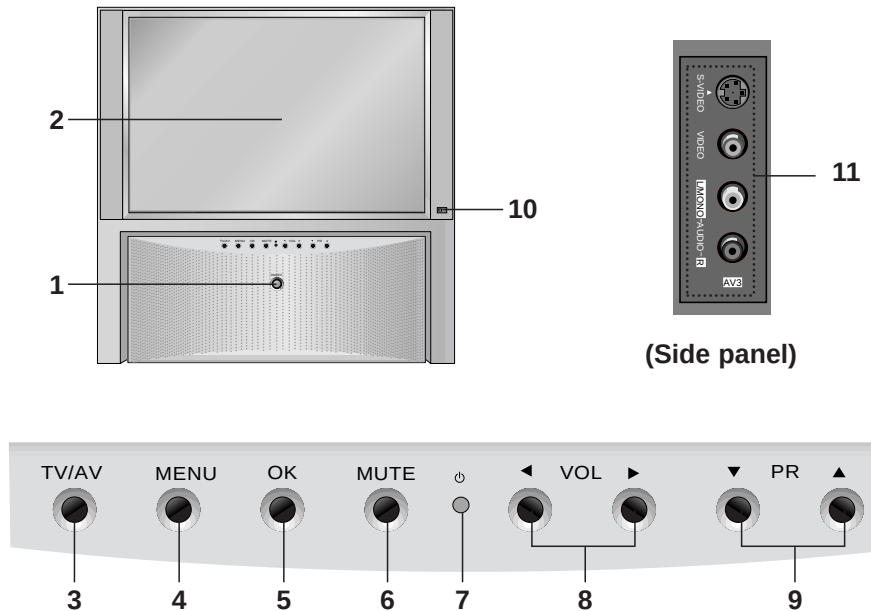
(Without PIP/TELETEXT)



(With TELETEXT/Without PIP)

Front panel

• RT-44NB10 series



1. **MAIN POWER**
switches the set on or off.
2. **REMOTE CONTROL SENSOR**
3. **TV/AV (option)**
selects TV or AV mode.
clears the menu / text from the screen.
switches the set on from standby.
4. **MENU**
selects a menu.
5. **OK**
accepts your selection or displays the current mode.
6. **MUTE**
switches the sound on or off.
7. **POWER/STANDBY INDICATOR**
illuminates brightly when the set is in standby mode.
dims when the set is switched on.
8. **◀ / ▶ (Volume Up/Down)**
adjusts the volume.
adjusts menu settings.
9. **▲ / ▼ (Programme Up/Down)**
selects a programme or a menu item.
switches the set on from standby.
10. **EYE (option)**
adjusts picture according to the surrounding conditions.
11. **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

These instructions are applied to only MP-03AB chassis.

Notes

1. Because this is not a hot chassis, it is not necessary to use an isolation transformer.
However, the use of isolation transformer will help protect test instrument.
2. Adjustment must be done in the correct order.
3. The receiver must be operated for about 60 minutes prior to the adjustment.
Pre-heat run must be operated receiving moving pictures or 100% white pattern.

※ Never operate the SET over 10 minutes with still picture because a fluorescent material may get damage.

● Raster Slope/Focus 1th Adjustment

1. Preliminary steps

- 1) Apply power to the unit and switch the unit ON.
- 2) Receive the EU 05 CH signal.
- 3) Select INSTART key on the Remote Control and then select "0 RASTER ADJ" move the cursor or by pressing the key No. 0.
- 4) Adjust Lens Focus/Electric focus temporarily.

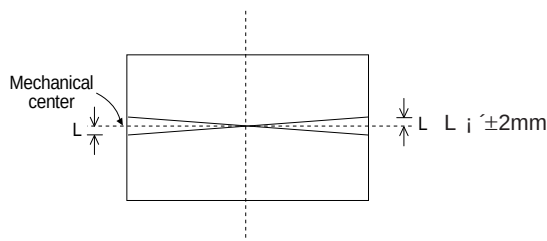
※ When select "0 RASTER ADJ" mode after entering adjustment mode with INSTART key, the convergence reset and then preparation for adjustment complete.

※ The convergence reset is possible even from convergence adjustment mode.

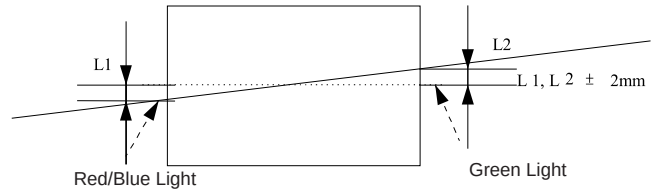
- 1) Enter into convergence adjustment mode: Select INSTART key on the Remote Control and then select "3 CONVERGENCE" move the cursor or using the key No..
- 2) Convergence reset: After press the key No. 5, press the ENTER key.
- 3) Adjustment mode release: Press the INSTART key

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) Coincide the slope of red and blue raster to that of green.



- Note) 1. When adjusting raster slope, loosen the DY and fasten it after adjusting.
2. Never rotate and adjust the fixed DY without loosening it.

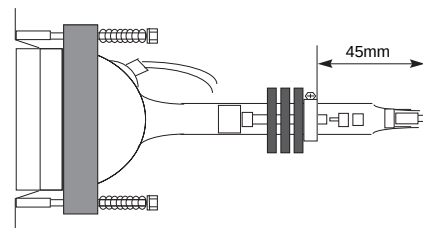
● Adjustment Of BEAM Aligment

1. Test Equipment

Video Test Generator(801GF) or Signal Generator can produce NTSC DOT pattern(408NPS or 5518/5418 equipment)

2. Preparation

- 1) Heat run over 60 minutes.
- 2) Pre-adjust Raster slope, Raster position & Lens focus & centering Magnet.
- 3) Check if the Magnet is located 45mm from the end of CRT.
- 4) In case of using 801GF : Receive #13 DOT Pattern of VGA mode(Format #5) through PC input terminal.
In case of using NTSC generator : Receive Dot signal through the external input terminal.

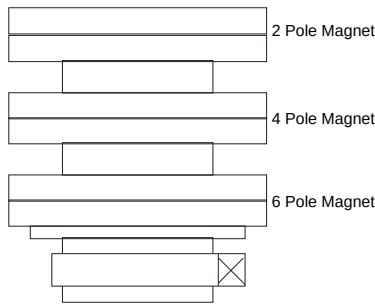


3. 2-Pole Magnet Adjustment

- (1) Make Green raster using lens cover.
- (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 clockwise and counter clockwise.
- (5) If the screen shifts, readjust (2)~(4).
- (6) Do the same method in Red and Blue.

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

- (1) Do after 2-Pole magnet adjustment.
- (2) Make Green raster using lens cover and turn the focus volume right.
- (3) Make the dot in the center a perfect circle using 4 & 6-Pole magnet.
- (4) Do the same method in Red & Blue.
- (5) Fasten the Magnet after adjustment.
- (6) Adjust focus accurately.



● Centering Magnet Adjustment

1. Preliminary steps

- 1) Receive the EU 05 CH signal.(PR.1 : PAL B/G 175.25MHZ)
- 2) Press the keys of Remote Controller for adjustment to reset the convergence.
 - a.Adjustment mode:Press the IN-START key.
 - b.Data reset : Press 0 KEY.
 - c.Adjustment mode cancellation : Press the ENTER key.

2. Adjustment

- 1) Operate adjustment about Red,Green,Blue centering magnet.
- 2) SGS-THOMSON Convergence assy
Adjust until the center of blue signal is shifted up to 40mm left from that of green signal and center of red signal is shifted up to 40mm right from that of green signal with turning the centering magnet.
- 3) After adjustment, re-adjust convergence data and exit the adjusting mode.
 - a.Adjustment mode:Press the IN_START key.
 - b.Data reset : Press 0 KEY.
 - c.Adjustment mode cancellation : Press the Enter key.

● High Voltage Regulation Adjustment

1. Test Equipment

Digital Multi-Meter(DMM)

2. Preparation for Adjustment.

Select picture mode to 'DYNAMIC' in no signal input.

3. Adjustment

- 1) Press the IN_START key and then press '1' key.(HV ADS)
- 2) Connect "+" terminal(Red) of DMM to the P415 of the Deflection PCB, [+] and the "-"terminal(Black) to the P416,[.-].
- 3) Adjust VR401 so that the voltage of multimeter to be below voltage.
Voltage: $21.7 \pm 0.1V$.
- 4) Exit the adjustment mode by pressing the enter key

● CUT-OFF Voltage Adjustment

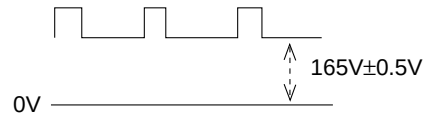
1. Preliminary steps

- (1) Select INSTART key on the Remote Control and then select "2 SCREEN ADJ" move the cursor or using the key No..

- (2) Adjustment must be operated in a dark room (simple dark room)

2. Adjustment

- (1) Test Equipment: Oscilloscope, 100:1 Probe
- (2) Connect oscilloscope to cathode of R, G, B(R926R/B/G: SCREEN ADJ on the PCB) and GND.
- (3) Turning Screen Volume (R/G/B) in Focus Pack and adjust R/G/B is $165V \pm 0.5V$.



- (4) After adjustment complete, exit the RASTER adjustment mode using ENTER key and exit the SVC adjustment mode using INSTART key.

● 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 13CH signal or MULTI 48CH signal,and PAL adjustment should be done in STANDARD mode of picture after receiving EU05 CH.
- 3) Reset the data in convergence adjustment mode,quit the mode.
Adjustment Mode : Press the IN_START key and then '0' key.
Data reset : Press the "0" key.
Adjustment mode cancellation :Press the ENTER key.
- 4) Display only the Green raster using lens covers to block Red and Blue.

2. PAL Mode Deflection adjustment

Do not adjust V-LIN, S-COR, A-BOW, A-ANG, UCPIN, LCPIN, V-ASP, V-SCR in PAL MODE. At SVC mode, press the '0' key get into the deflection adjustment mode.

1) VS (Vertical Shift)

Adjust until the geometric vertical center line is accord with the vertical center line of screen JIG in EU 05 CH by pressing the VOLUME ◀▶ key.

2) VA (Vertical Amplitude)

Adjust until sixth vertical line from upper and lower center of the screen is accord with the last point of the frame.

3) HS (Horizontal Shift)

Adjust until the geometric horizontal center line is accord with the horizontal center line of screen JIG.

4) EW (East-west Width)

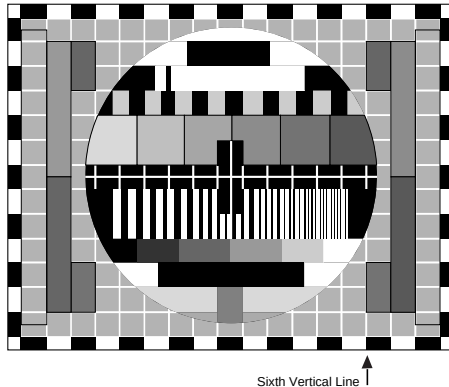
Adjust until the outermost left and right vertical line of the screen is accord with the last point of the frame.

5) EP (East-west Parabola)

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

6) ET(East-west Trapezium)

Adjust to make the width of top horizontal line same with it of the bottom horizontal line.



7) A-ANG(AFC Angle)

Vertical slope adjustment

8) A-BOW(AFC BOW)

Vertical get bending adjustment

9) U-C(Upper Corner Pincushion)

Upper part pin cushion adjustment

10) L-C(Lower Corner Pincushion)

Lower part pin cushion adjustment

11) U-VL(Upper Vertical Linearity)

Adjust vertical linearity of upper screen

12) L-VL(Lower Vertical Linearity)

Adjust vertical linearity of lower screen

13) VL (Vertical Linearity)

Adjust the top/bottom size of circle to be same in the EU 05CH.

14) SC (Vertical "S" Correction)

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

15) V-ASP(Vertical Aspect Ratio)

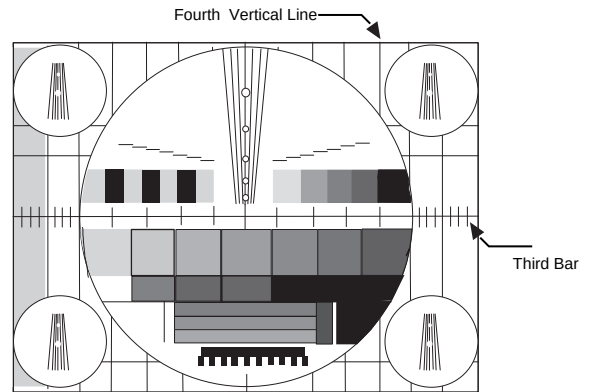
Adjust the vertical aspect ratio.

16) Store the adjusted data in EEPROM by pressing the "OK" key before exiting adjustment mode.

17) Exit the Adjustment mode by pressing the 'TV/AV' key.

3. NTSC Mode Deflection Adjustment

- 1) Adjust vertical size (VA Adjustment) until fifth 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.



4. 1080i Mode deflection Adjustment (option)

(1) Test Equipment

SETTOP BOX with 1080i output or MSPG-925LTH (Programmable VIDEO Signal Generator).

(2) Preliminary steps

- 1) After adjust 1080i with output of the SETTOP BOX, connects the Y signal which is output from SETTOP BOX with the VIDEO input terminal of the SIDE-AV(AV3).
- 2) Select INSTART key on the Remote Control and then select "5 1080I-ADJ" move the cursor or using the key No5.
- 3) Adjust vertical size (V-SIZE Adjustment) until fifth vertical bar from upper and lower center screen is accord with the edge of the frame.
- 4) Adjust horizontal size(H-SIZE Adjustment) until twelfth

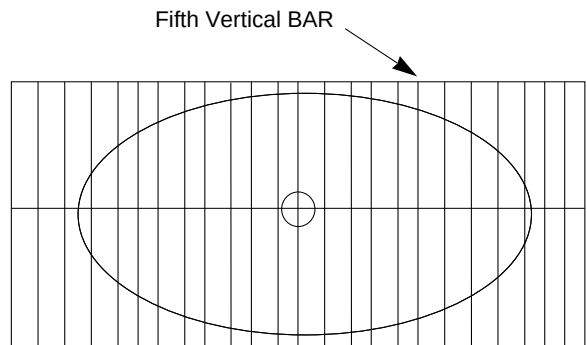


Fig. 3

- vertical bar is accord with the edge of the frame.
- 5) Do other adjustments the same as in PAL mode.

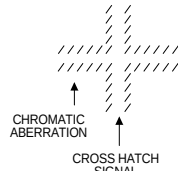
● Lens Focus & Electronic Focus Adjustment

1. Preliminary steps

- 1) Electronic focus, Raster slope & Raster position must be pre-adjusted.
- 2) Heat-run over 60 minutes.
- 3) Receive Crosshatch pattern.
(PAL:EU07(PR 8) or NTSC:09CH(PR 13))

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

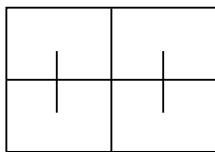
Lens	Change of chromatic aberration
Red	Orange → Scarlet
Green	Blue → Red
Blue	Purple → Green



* 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.

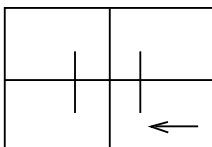
2. G-lens Adjustment

- 1) Turn the lens until the chromatic aberration changed Blue to Red point.
- 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 13CH or EU07 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 the upper control.
- 6) Especially, noting to the Green light because it influenced on picture's function.



3. R-lens adjustment

- 1) Turn the R-lens until the chromatic aberration changed orange to scarlet.
- 2) Adjust to appear Red chromatic aberration in right within 3.5 cross-hatch of the picture center. Adjust the chromatic aberration so that it located center correctly.
- 3) Switching the signal to 13CH or EU07 and adjust it as same method of Green lens.
- 4) Adjust as same method of Green lens with Red focus control

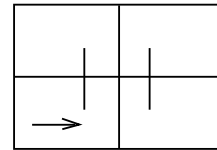


volume of focus pack.

4. B- lens adjustment

- 1) Turn the B-lens until the chromatic aberration of 3.5 Cross-hatch left from center point changes from purple to green.

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



- 3) Adjust the R-focus control volume of focus pack as same method of Green lens.

Note) After adjustment Red, Green & Blue lens, remove lens cover and receive Cross-hatch pattern and check the overall focus. If need, repeat above.

● Convergence Adjustment

1. Preliminary steps

This adjustment should be performed after warming up 60 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. Convergence Key

- 1) Convergence Mode : IN_START, '3'
 - 2) Cursor shift : ◀, ▶, ▲, ▼
 - 3) Cursor Movement/Adjustment Selection : OK
 - 4) Cursor Color Selection : TV/AV
 - 5) Adjustment mode out : IN_START
- *Note: When cursor flashes, set is in adjustment mode. When R, G or B selected color flashes, the set is in cursor movement mode.

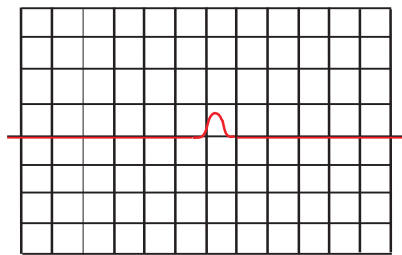
● PAL Mode Adjustment

1. Preliminary steps

- 1) Receive the EU 05CH signal.
- 2) Press the buttons IN_START, '3' of Remote Controller for adjustment to get into the convergence adjustment mode.

2. Horizontal/Vertical phase adjustment

- 1) Press the buttons 9 & 5 to get into the phase adjustment mode.
- 2) Horizontal Phase Adjustment.
Move the convex curve to the quarter of Vertical center by pressing the Volume ◀ / ▶ button.
- 3) Press the OK button to escape from the adjustment.



Convergence Phase Adjustment

3. 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 ◀, ▶, ▲, ▼ buttons)
- 4) Quit pattern shift mode. (Press "OK" button)
- 5) Save adjusted phase/pattern position adjustment mode. (Press "9", "2" & "OK" buttons)

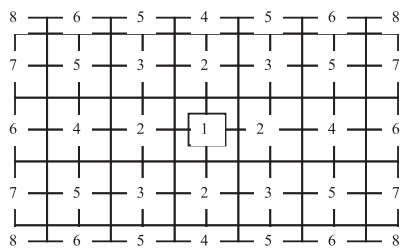
4. Auto convergence Adjustment by Camera

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

5. Green convergence adjustment

- 1) Show the OSD on screen by pressing 2 button, then change the OSD to green(G) adjustment mode with pressing TV/AV button.
- 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)

Here, do it in the same order from center listed in figure.



Adjustment Order Of Convergence

6. Red convergence adjustment

- 1) Display "R" red color on the screen by the TV/AV button.
- 2) If the need to do, close the cover of the blue lens.
- 3) Coincide the red screen with the green screen or screen in same way with that of green convergence adjustment.

7. Blue convergence adjustment

- 1) Display "B" blue color on the screen by the TV/AV button.
- 2) Coincide the blue screen with the green screen in same way with that of red convergence adjustment.

8. Adjusted data saving

- 1) To save the data after adjustment, Press "9", "1" & "OK" button.
- 2) Exit convergence adjustment mode. ("IN_START" button)

9. Auto-Convergence measuring or Measuring back up data (option)

- 1) Operate the auto-convergence measuring or the measuring back up data separately in PAL, NTSC and 1080i (Option) mode.
- 2) Operate in the condition of 'Zero magnetometer' in room after correcting convergence manually.
- 3) How to measuring
Press the 'IN_START -> 3 -> MENU -> 3' key to operate Auto convergence measuring or the measuring back up data.
- 4) Exit convergence adjustment mode by the IN-START key.

● White Balance Adjustment

1. Test Equipment

Brightness meter (CA110)

2. Adjustment

- 1) This adjustment must be operated in a dark room or equivalent.
- 2) Adjust after Cut-Off and Focus adjustment.
- 3) The brightness meter must be located in 20 ± 5 cm distance from the center of the screen.
- 4) Receive WINDOW signal.

* High Light :

RE/RL : 250 ± 10 cd/m² (16:9)

RT : 160 ± 10 cd/m² (16:9)

* Low Light : 10 ± 3 cd/m²

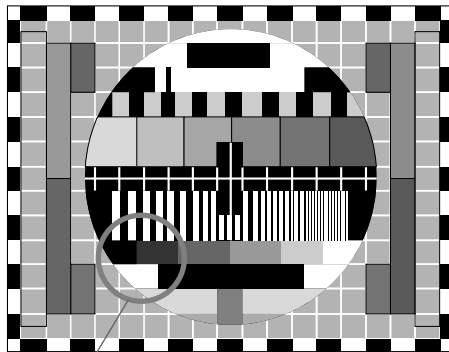
RE/RL : 190 ± 10 cd/m² (4:3)

RT : 160 ± 10 cd/m² (4:3)

- 5) Set BRIGHT to H/Light adjustment mode in 4) and enter SVC mode by pressing the "IN_START" button. Adjust RG (R Gain) and BG (B Gain) until color coordinate becomes RE/RL - X=0.283 and Y=0.292, RT - X=0.269 and Y=0.274 (Deviation : ±0.03).
- 6) Set BRIGHT to L/Light adjustment mode and adjust CR (R Cut Off) and CB (B Cut Off) until color coordinate becomes RE/RL - X=0.280 and Y=0.260, RT - X=0.269 and Y=0.274 (Deviation : ±0.03).
- 7) Repeat adjusting until the color coordinate of H/Light and L/Light is satisfied.
- 8) Save the data after adjustment.
(Press "ENTER" button)
- 9) Exit adjustment mode. ("INSTANT" button)

● Sub-Bright Adjustment(Optional)

- 1) Tune the TV set to receive a EU 05 CH.
- 2) Enter WB mode by pressing the IN_START & '4' button.
Adjust S-BRI data until 100% and 80% GRAY PATTERN is classified.
(Use ◀, ▶, ▲, ▼, OK buttons)



100% and 80% GRAY PATTERN
Fifth Vertical Line
SUB BRIGHT Adjustment Signal

● Auto-Convergence Check (option)

- 1) Check the Auto-Convergence in PAL/NTSC mode separating.
- 2) Press the IN_START key on R/C for adjustment and press the Time key to check whether Auto-Convergence works normally in each mode.
- 3) If not, check the Convergence condition or Measuring condition and SENSOR condition.
- 4) The shipment must be done after restoring the final auto convergence data value.
(Restore a Convergence data : IN_START -> '3' -> TEXT)

● Check the Option Adjustment

- 1) Check the OPTION1~5 data of attach 6 is well recorded.
- 2) The option value of each suffix is started on JOB EXP of 3141VMN chassis Assy.

● Convergence Adjustment Mode

- INSTART -> 3 -> MENU

* **This Mode is for engineering. So, don't change before permission from Design Department.**

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

1.Save to 50Hz/60Hz : Save (convergence adjustment data)

It's same 9,1,Enter.

2.Save Control data : Save (A phase adjustment data)

It's same 9,2,Enter.

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

4.Pattern : Adjust location of convergence pattern.

It's same 9,4,Enter.

5.Phase : Adjust a phase of convergence pattern.

It's same 9,5,Enter.

6.GRID Border

Item	Description	(NTSC)	(PAL)	(1080i)
HGD	Horizontal Grid Distance	27	27	29
HRD	Horizontal Retrace Distance	55	55	42
VGD	Vertical Grid Adjustment	38	23	44
BPH	Border Position Horizontal	18	20	22
BPV	Border Position Vertical	26	18	35

7.ADJUST: Set the Dynamic focus data&auto-convergence data

Item	Description	4:3 TV (WIDE = 0)			16:9 TV (WIDE =1)		
		NTSC	PAL	1080i	NTSC	PAL	1080i
FV1	Focus parabola top value	29	24	29	30	28	30
FV2	Focus parabola middle value	23	19	23	27	26	27
FV3	Focus parabola bottom value	31	30	31	32	31	32
VFP	Focus parabola position	9	6	9	13	5	0
FSB	Start of the retrace value	31	31	31	31	31	31
FVR	Focus value during frame retrace	31	31	31	31	31	31
STA	Force the video pattern fast blanking	110	110	110	110	110	110
ACO	Auto convergence offset	70	70	70	70	70	70
PBH	Pattern Bright Horizontal	7	7	7	7	7	7
PBV	Pattern Bright Vertical	7	7	7	7	7	7
OPT	EEPROM/MICOM selection	MICOM	MICOM	MICOM	MICOM	MICOM	MICOM
ACINIT	Initialization of AC Pattern data	NO	NO	NO	NO	NO	NO
ADJINIT	Initialization of ADJ. Focus data	NO	NO	NO	NO	NO	NO

8.OSD POSITION

9.AC PATTERN ADJ (Option : Only for Auto Convergence)

● SVC Adjustment mode & Initial data

1. White Balane adjustment data (IC:CXA2180Q)

Menu	Description	Range	Default	
			RE/RL	RT
RD	Red Drive		14	09
GD	Green Drive		27	1F
BD	Blue Drive		29	2D
RC	Red Cut-off		0D	14
GC	Green Cut-off		1F	1F
BC	Blue Cut-off		09	13
S-BRI	Sub BRIGHT		20	20
DVCO	Digital VCO		75	75

2. Sound adjustment data (IC:MSP3411G)

Menu	Description	Range	Default
FM	FM Prescaler		14
NP	NICAM Prescaler		53
SP	SCART Prescaler		12
S1 VOL	SCART 1 Volume		66
S2 VOL	SCART 2 Volume		66
MDB-STR	MDB Effect Bass Strength		2D
MDB-HMC	MDB Harmonic Content		19
MDB-HP	MDB High Pass		09
MDB-LP	MDB Low Pass		0B
MDB-LIM	MDB Amplitude Limit		FC

• MDB(MICRONAS DYNAMIC BASS)

3. Picture adjustment data (IC : CXA21801)

Menu	Description	PAL	NTSC	Remark
D-COL	Dynamic color mode setting	03	03	
EXTSW	Selects the Y/Cb/Cr input or EY/ECb/Ecr	00	00	
SHPFO	Sharpness f0 setting	00	00	
BLKBT	RGB output bottom limiter level control (for blanking/signal)	00	00	
PREOV	Pre-shoot/over-shoot ratio setting	03	03	
CTILE	CTI level setting	01	01	
LTILE	LTI level setting	02	02	
PLMTL	RGB output amplitude level setting	03	03	V3.50
ABLMO	ABL mode setting	02	02	
CTI-M	CTI mode setting	00	00	
LTI-M	LTI mode setting	01	01	
GAMMA	RGB output GAMMA correction amount control	02	02	
DPIC	Dynamic picture(black expansion) control	03	03	
DC-TR	Y system DC transmission ratio setting	02	02	
S-CON	Sub Contrast control	0C	0C	V3.50
LRGB2	Picture level control for LRGB2	05	05	
P-ABL	RGB output level detection DC setting for PEAK ABL	0B	0B	
ABLTH	Threshold voltage adjustment for ABL_IN input	07	07	
CB-OFF	DC_OFFSET canceling for Cb signal	1F	1F	
CR-OFF	DC_OFFSET canceling for Cr signal	1F	1F	
Y-OFF	DC_OFFSET canceling for Y signal	07	07	
AGN-W	White(80IRE) output aging mode ON/OFF switch	00	00	
AGN-B	All blank(0IRE) output aging mode ON/OFF switch	00	00	
SYSTM	Selects the signal band	00	00	
VM-DL	VM_OUT phase control	02	02	
VM-FO	VM_OUT level control	02	02	
VM-LE	VM_OUT f0 setting	06	06	V3.50
FLCOL	Flesh color enhancement function control	00	00	
FL-SW	Flesh color enhancement function ON/OFF switch	00	00	

4. Picture adjustment data (IC : CXA21802)

Menu	Description	PAL	NTSC	Remark
R-Y R	R-Y axis + (R-Y) component setting	7	7	
R-Y B	R-Y axis + (B-Y) component setting	0A	0A	
G-Y R	G-Y axis + (R-Y) component setting	08	08	
G-Y B	G-Y axis + (B-Y) component setting	06	06	
UP-BL	VBLK position control for top of picture, when VBLK_SW = 1	00	00	
LO-BL	VBLK position control for bottom of picture, when VBLK_SW=1	00	00	
EW-DC	EW_DRV signal DC level down switch	00	00	
UP-UP	Horizontal pin distortion compensation position adjustment for extreme top edge of picture	00	00	
LO-UP	Horizontal pin distortion compensation position adjustment for extreme bottom edge of picture	00	00	
UP-UG	Horizontal pin distortion compensation amount adjustment for extreme bottom edge of picture	00	00	
LO-UG	Horizontal pin distortion compensation amount adjustment for extreme top edge of picture	00	00	
UC-PO	Horizontal pin distortion compensation polarity setting for extreme top/bottom edge of picture	00	00	
VB-SW	VBLK period mode setting switch	00	00	
CLP-S	Internal clamp pulse start phase setting	00	00	
NON-I	Interlace/progressive mode switch	00	00	
AFC-M	AFC loop gain control	01	01	
L-BLK	HBLK width control for left side of picture when HBLK_SW =1	39	39	
R-BLK	HBLK width control for right side of picture when HBLK_SW =1	0F	0F	
CLP-P	Internal clamp pulse phase control	00	00	
CLP-G	Switch for gating internal clamp pulse with input HSYNC	00	00	
HB-SW	HBLK width control ON/OFF switch during 4:3 software full display mode on a 16:9 CRT	01	01	
ZOOSW	Zoom mode ON/OFF switch for 16:9 CRT	00	00	
JMP SW	Reference pulse jump mode ON/OFF switch	00	00	
VFREQ	Vertical frequency setting	02	02	
VCOMP	High voltage fluctuation compensation amount setting for vertical picture size	00	00	
HCOMP	High voltage fluctuation compensation amount setting for horizontal picture size	00	00	
AKBTM	AKB Bch reference pulse timing setting	07	07	
BLK-O	Blanking ON/OFF SW when AKBOFF=1	00	00	
AKBOF	Automatic cut-off/manual cut-off setting	00	00	
V-AGC	V-AGC system mode setting switch	00	00	

5.CXA2151Q adjustment item

Menu	Description	PAL	NTSC	Remark
INPUT	Selects the four systems of inputs IN1 to IN4	0	0	
MAT-O	Selects the type of matrix conversion	0	0	
VFREQ	Selects the frequency of the dummy sync output to SELV_OUT(pin23)	0	0	
SELS1	Selects the type of the signal input to IN1_H/L1(pin36) and IN1_V/L2(pin37)	0	0	
SELS2	Selects the type of the signal input to IN1_H/L1(pin44) and IN1_V/L2(pin45)	1	1	
FIX-S	Switches the sync identification circuit operating mode	0	0	
V-TC	Sets the V sync separation time constant	0	0	
H-WID	Sets the SELH_OUT (pin22) output pulse width	0	0	
HSEPS	Sets the sync separation method. (Valid for YG_IN(Pin16) input)	0	0	
HD-DC	Sets the H sync separation time constant of the YG_IN (Pin16) input	0	0	
HYSW	Switches the signal output to YG_OUT (Pin 15)	0	0	
HS-MA	Sets whether or not to add H-sync within V-sync at SELH_OUT(Pin22)	0	0	
MACRO	Switch for eliminating the macrovision signal of the 525P signal at SELH_OUT (Pin22) This is valid only when HFREQ =1	0	0	
SELDU	This Switch selects whether to output the sync separated signal or the dummy Sync to SELH_OUT (Pin22) and SELV_OUT(Pin23)	0	0	
CLK-S	This switch selects the clock for the sync counter	0	0	
G-SEL	This switch selects the gain or mute of the signals output to SELCR_OUT (Pin25), SELCB_OUT(Pin26) and SELY_OUT (pin27)	1	1	
CBGAI	SELCB_OUT(Pin26) gain control	0	0	
CRGAI	SELCR_OUT(Pin25) gain control	0	0	
YGAIN	SELY_OUT(Pin27) gain control	0	0	
HFREQ	Selects the frequency of the dummy sync output to SELH_OUT(Pin22)	1	1	

6. OPTION Data Adjustment

Option 1

No	Item	Specification	Remark
1	200PR	1 : 200 PROGRAM (CHINA ONLY) 0 : 100 PROGRAM (OTHER CONTRIES)	1 : LIST no operation 0 : LIST operation
2	TSEAR	1 : WITH TURBO SEARCH 0 : WITHOUT TURBO SEARCH (FRANCE)	1 : RT/ RE 0 : RL
3	I /II SV	1 : SAVE DUAL SOUND CONDITION (RT) 0 : NOT SAVE DUAL SOUND CONDITION(RE/RL)	1 : NON - EU 0 : EU
4	TOP	1 : TOP + FLOF TEXT 0 : FLOF TEXT	1 : Dutch/ Swiss/ Austria/ Sweden/ Norway/ Finland/ Poland/ Italy/ Spain/ Benelux 3 0 : OTHERS
5	Eye	1 : WITH DIGITAL EYE 0 : WITHOUT DIGITAL EYE	1 : NB10 0 :
6	A2 ST	1 : WITH FM STEREO 0 : WITHOUT FM STEREO	1 : ALL 0 :
7	SYS	0 : BG/ I/ DK (RE MODEL) 1 : BG/ L (RL MODEL) 2 : BG/ I/ DK/ M (RT MODEL) 3 : RESERVED	0 : 1 : 2 : 3 :

Option 2

No	Item	Specification	Remark
1	ACMS	1 : WITH CHANNEL NAME DISPLAY 0 : WITHOUT CHANNEL NAME DISPLAY	1 : ALL CONTRIES EXCEPT AUSTRALIA 0 : AUSTRALIA
2	VOL	1 : RUSHED SOUND CURVE (ASIA, MIDDLE EAST ASIA) 0 : STANDARD SOUND CURVE (OTHER CONTRIES)	1 : RT 0 : RE/RL
3	Wide	1 : 16 : 9 0 : 4 : 3	1 : NZ TOOL 0 : NA TOOL
4	EU	1 : RE/ RL MODEL 0 : RT MODEL	AV MODE sequence decision
5	XDOFF / Compo	1 : WITHOUT XD 0 : WITH XD 1 : WITH COMPONENT INPUT 0 : WITHOUT COMPONENT INPUT	1 : XD OFF (After V3.50) 0 : XD ON ★ Before V3.16
6	1080i	1 : WITH 1080i INPUT 0 : WITHOUT 080i INPUT	1 : CHINA ONLY 0 :
7	PC	1 : WITH VGA PC INPUT 0 : WITHOUT VGA PC INPUT	1 : Haier OEM(IIC Speed) 0 :
8	DRP	1 : WITH H - FILTER 0 : WITHOUT H - FILTER	1 : ALL 0 :

Option 3

No	Item	Specification	Remark
1	PIP	1 : WITH PIP 0 : WITHOUT PIP	1 : 0 :
2	INDEX	1 : WITH INDEX 0 : WITHOUT INDEX	1 : 0 :
3	HDEV	1 : HIGH DEVIATION MODULATION (CHINA) 0 : RF NORMAL SOUND MODULATION (OTHERS)	1 : China/ Saudi/ India/ Indonesia Lebanon/Pakistan/Iran 0 :
4	D - PRO / 50PRO	1 : WITH DOLBY PRO LOGIC 0 : WITHOUT DOLBY PRO LOGIC 1 : WITH 50Hz PROGRESSIVE 0 : WITHOUT 50Hz PROGRESSIVE	★V3.00/6.00'S ★ V4.00'S ONLY
5	D - VIR	1 : WITH DOLBY VIRTUAL SURROUND 0 : WITHOUT DOLBY VIRTUAL SURROUND	1 : 0 : '4' Series Model Only
6	TEXT	1 : WITH TELETEXT 0 : WITHOUT TELETEXT	1 : Last Model Name "RB" or "T" 0 : Others
7	SCART	1 : RF 54% MODULATION INPUT 0 : RF 100% MODULATION INPUT	1 : SCART -> OVER 1EA 0 : Phone only
8	CH + AU	1 : CHINA + AUSTRALIA CHANNEL TABLE 0 : OTHER CONTRIES CHANNEL TABLE	1:China, Austrailia 0:

Option 4

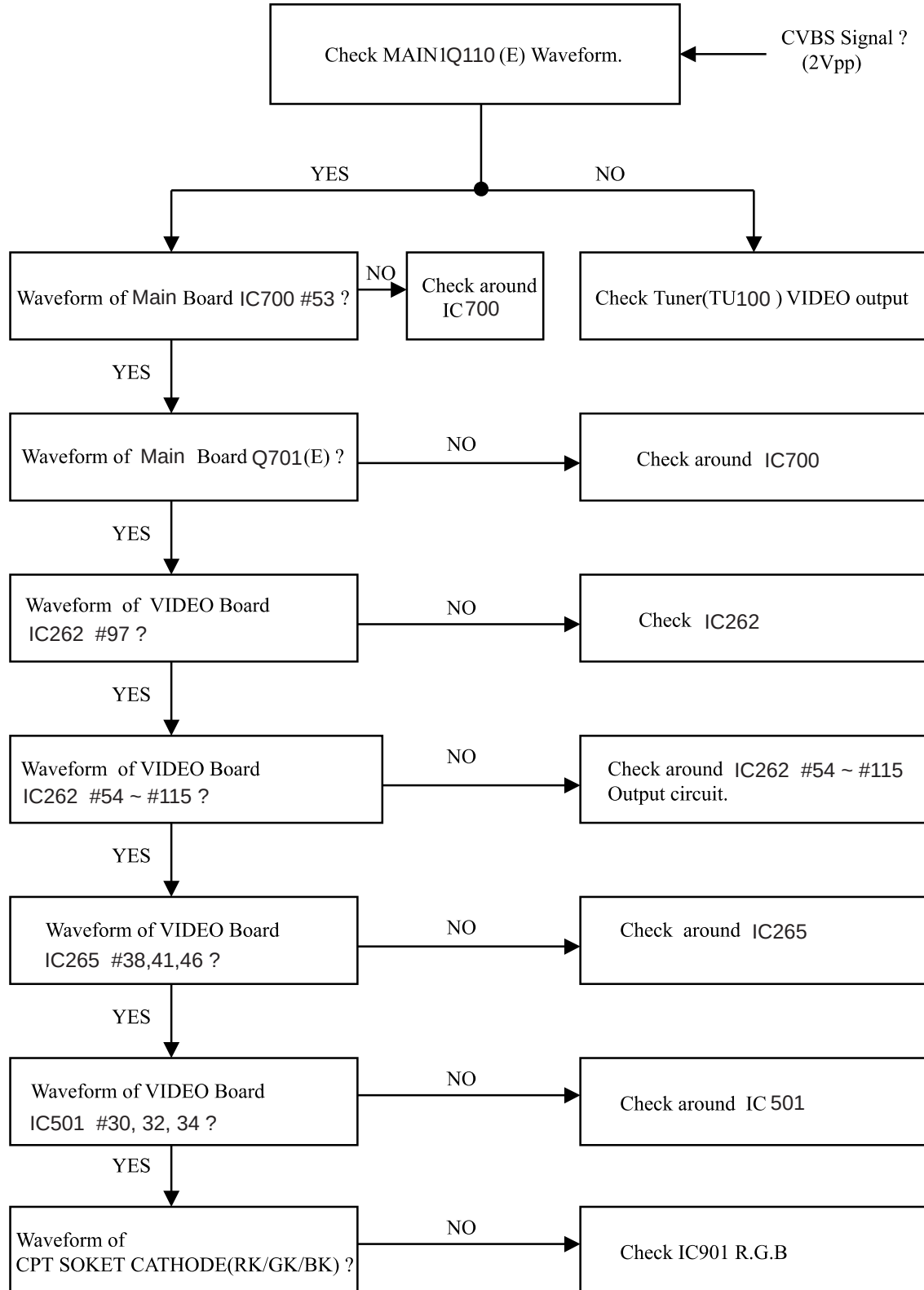
No	Item	Specification	Remark
1	AV4 - S	1 : WITH SCART TYPE 0 : WITH PHONE TYPE	1 : SCART -> OVER 1EA 0 : PHONE ONLY
2	BOOSTER	1 : WITH BOOSTER 0 : WITHOUT BOOSTER	1 : All 0 :
3	AV SV	1 : SAVE LAST AV 0 : NOT SAVE LAST AV	1: All 0 :
4	SAV4	1 : WITH SAV4 (RE, RL) 0 : WITHOUT SAV4 (RT)	1 : 3 SCART area S-JACK 0 : 3 SCART except EU
5	EZ-AV	1 : WITH EZ-AV 0 : WITHOUT EZ-AV	1 : RT 0 : 3 SCART JACK (RE / RL)
6	B - DEF	1 : BOOSTER DEFAULT ON AFTER CHANNEL SEARCH 0 : BOOSTER DEFAULT OFF AFTER CHANNEL SEARCH	1 : All 0 :
7	I-KEY	1 : WITH INDEX KEY IN THE LOCAL BUTTON 0 : WITH MUTE KEY IN THE LOCAL BUTTON	1 : 39NZ43 ONLY 0 : Others
8	HAIER	1 : HAIER OEM ONLY 2 : OTHERS	1 : 0 :

Option 5

No	State	Language	Function
1	LANGUAGE	0:ENG Only	English
		1:EU 5EA	English/German/French/Italy/Spanish
		2:EU ETC	Pol./Hungary/Czecho/Russia/Eng
		3:GREECE	English/ Greece
		4:FARSI	English/Parsi (Iran)
		5:ARAB URDU	Eng./French/Arab(Egypt,Saudi)/Urdu(Pakistan)
		6:E+Hindi	English/Hindi(Without VGA)
		7:E+I+M+V	English/Indonesian/Malaysian/Vietnamese
		8:E+THAI	English/Thai
		9:E+China	English/China
2	T LAN	0:WEST EU	English/French/Swedish/Czech/German/Spanish/Italian
		1:EAST EU1	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/ Rumanian
		4:Cyrillic 1	Can't
		5:Cyrillic 2	Can't
		6:Cyrillic 3	Russia
		7:TURK GRE1	
		8:TURK GRE2	
		9:TURK GRE3	Eng./ Greece
		10:ARAB FRA	Can't
		11:ARAB ENG	
		12:ARAB HEB1	Can't
		13:ARAB HEB 2	
		14:FARS ENG	
		15:FARS FRA	Can't
		16:FARS ALLI	Can't

Trouble Shooting

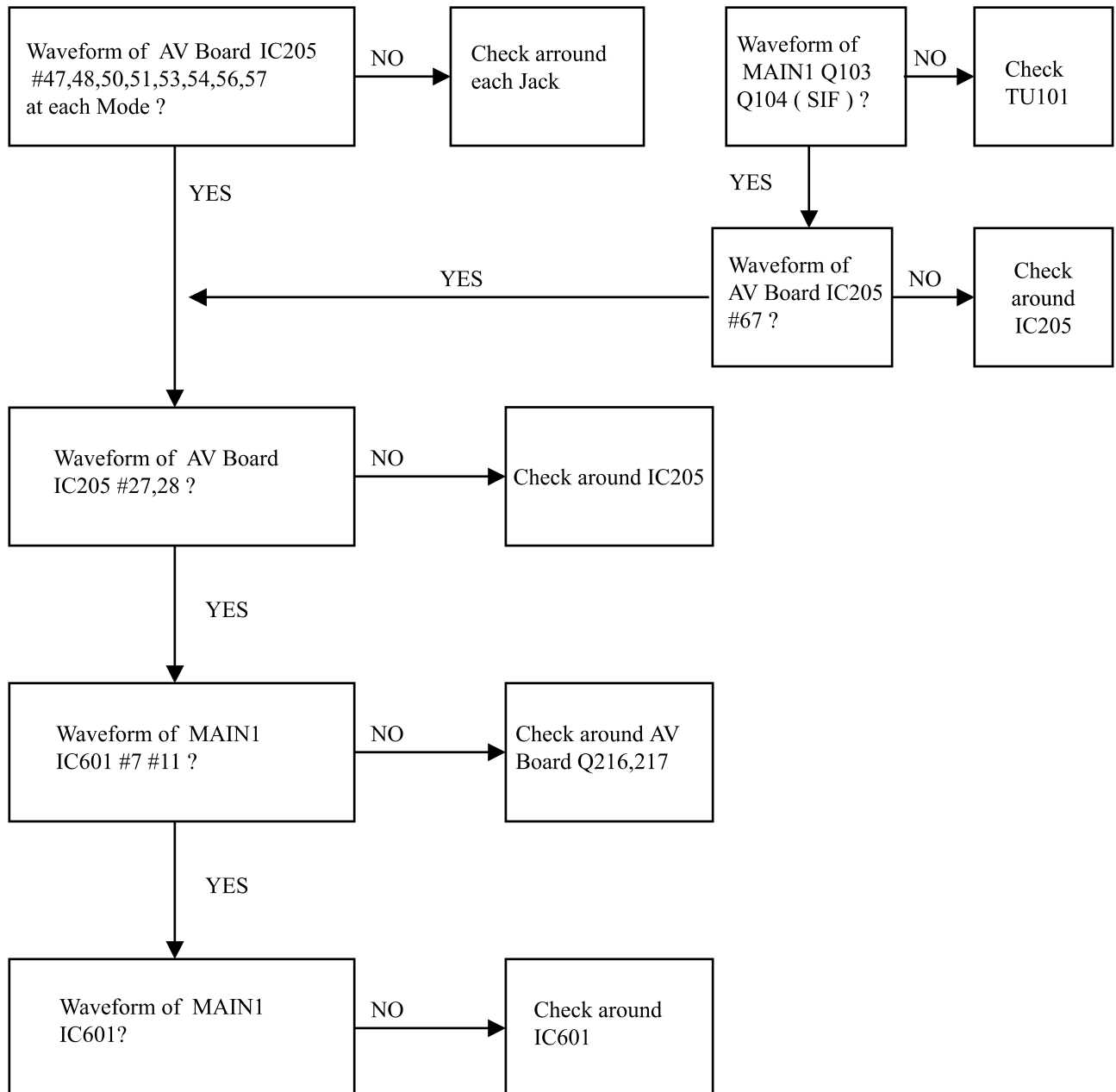
1. NO PICTURE (SOUND OK)



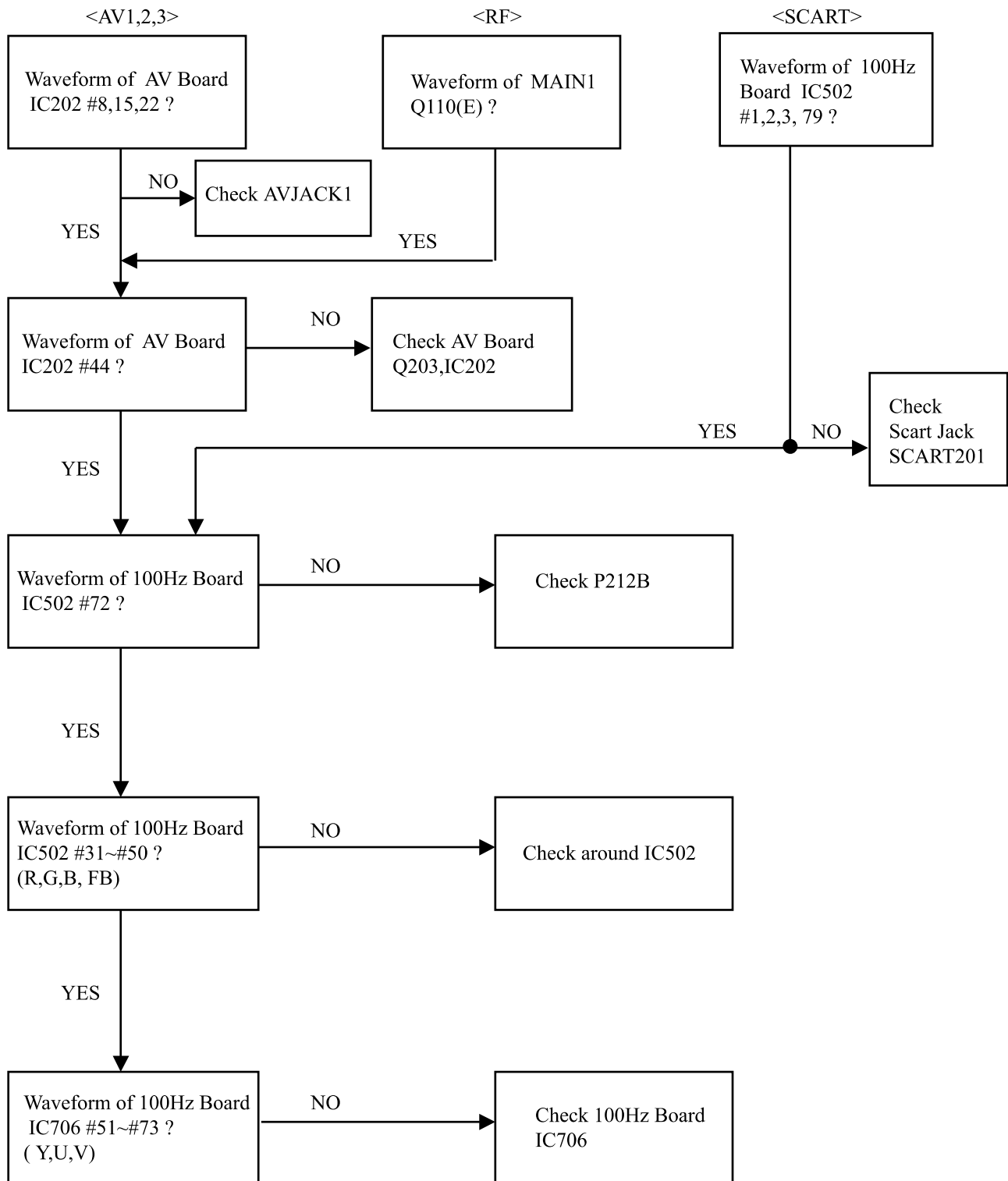
2. NO SOUND (PICTURE OK)

<AV1,2,3,DVD(480i),DVD(480p) INPUT>

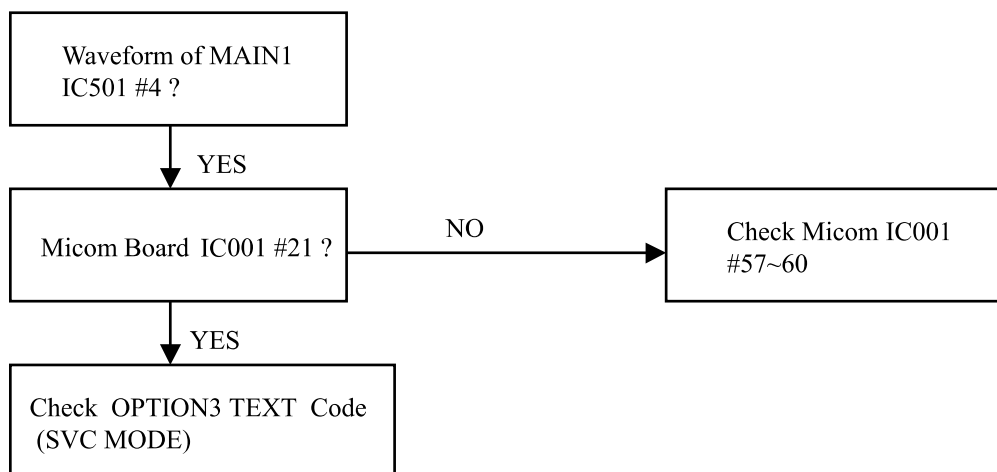
< RF >



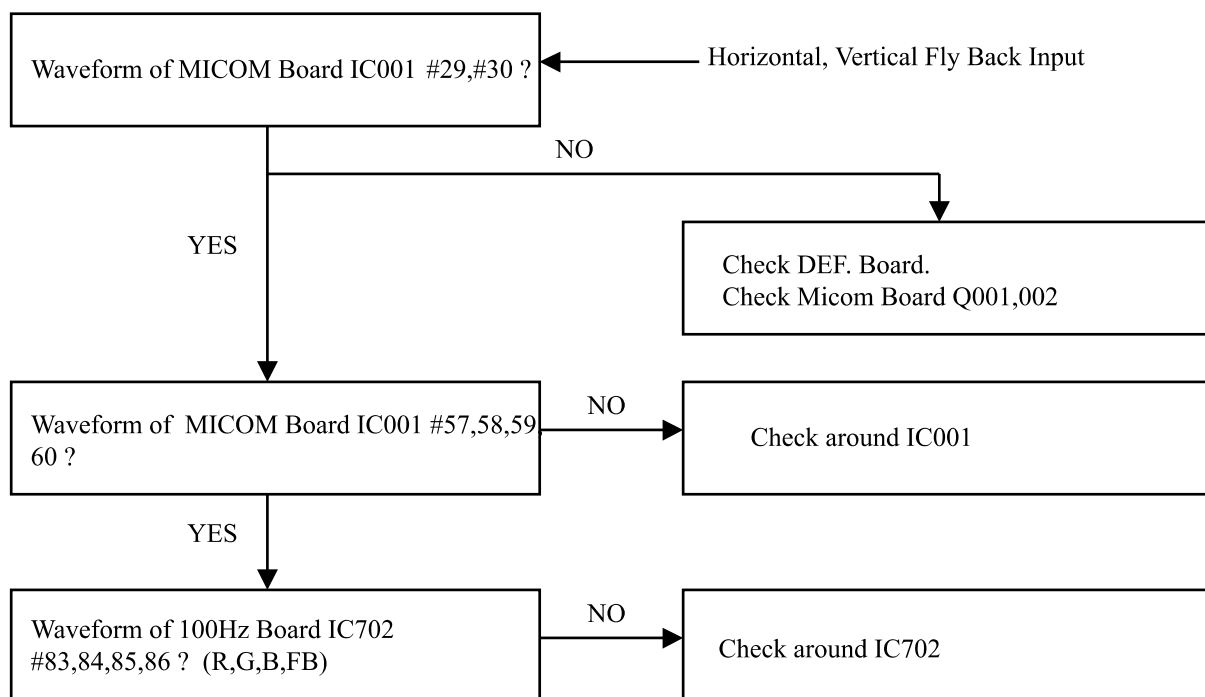
3. NO PIP



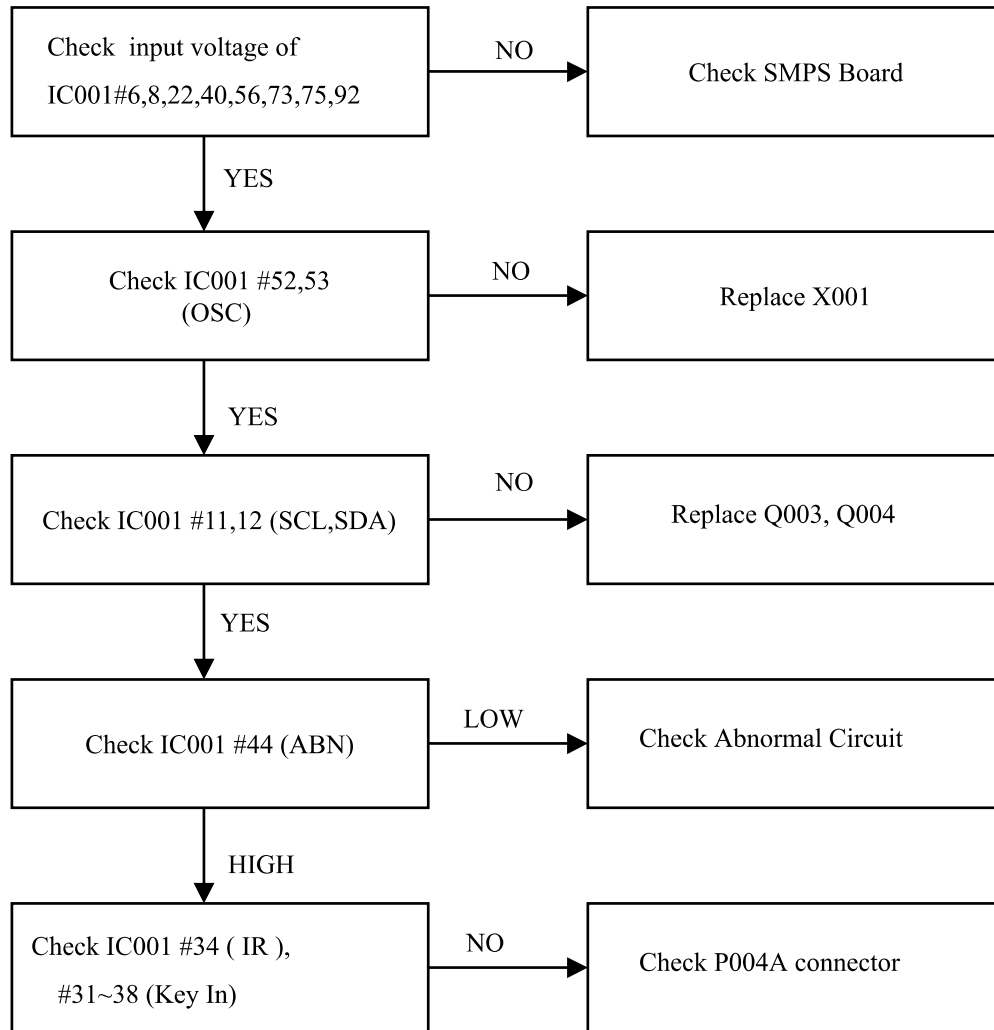
4. NO Teletext (Picture OK)



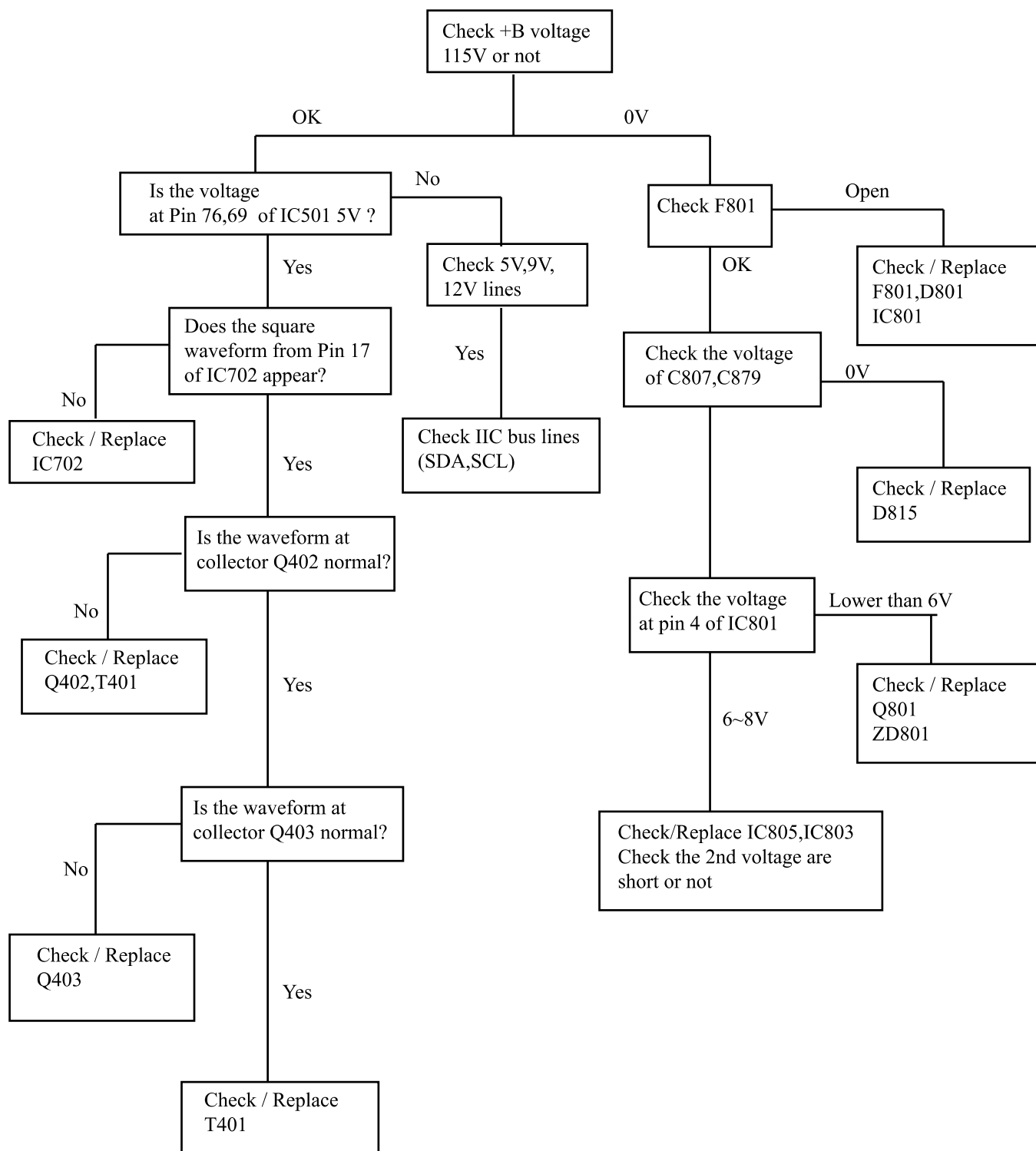
5. NO OSD (ON SCREEN DISPLAY)



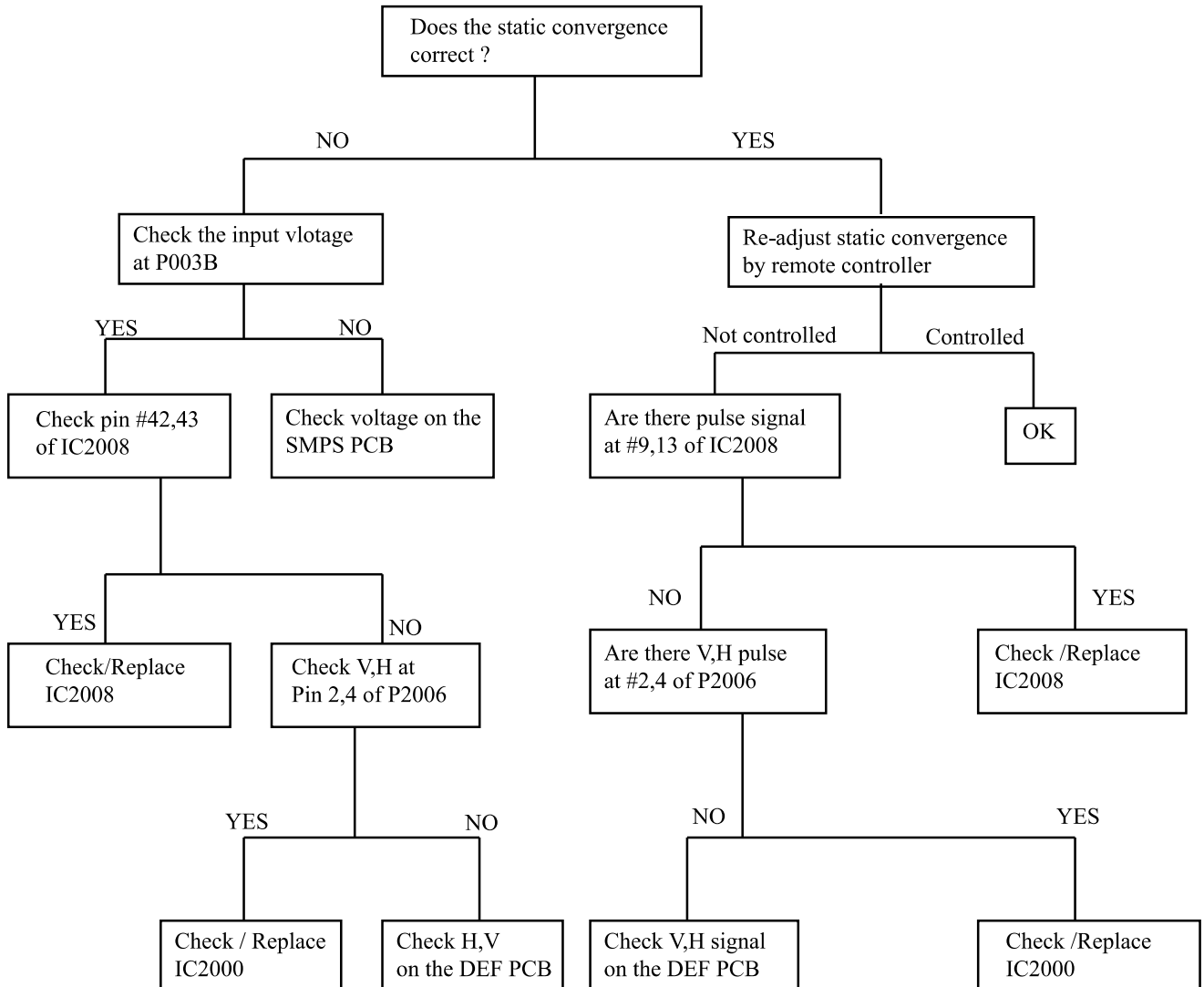
6. NO POWER ON



8.NO RASTER



9. INCORRECT CONVERGENCE



The diagram illustrates the internal architecture of the CXA-2069 video processor. It features several key integrated circuits (ICs) and their interconnections:

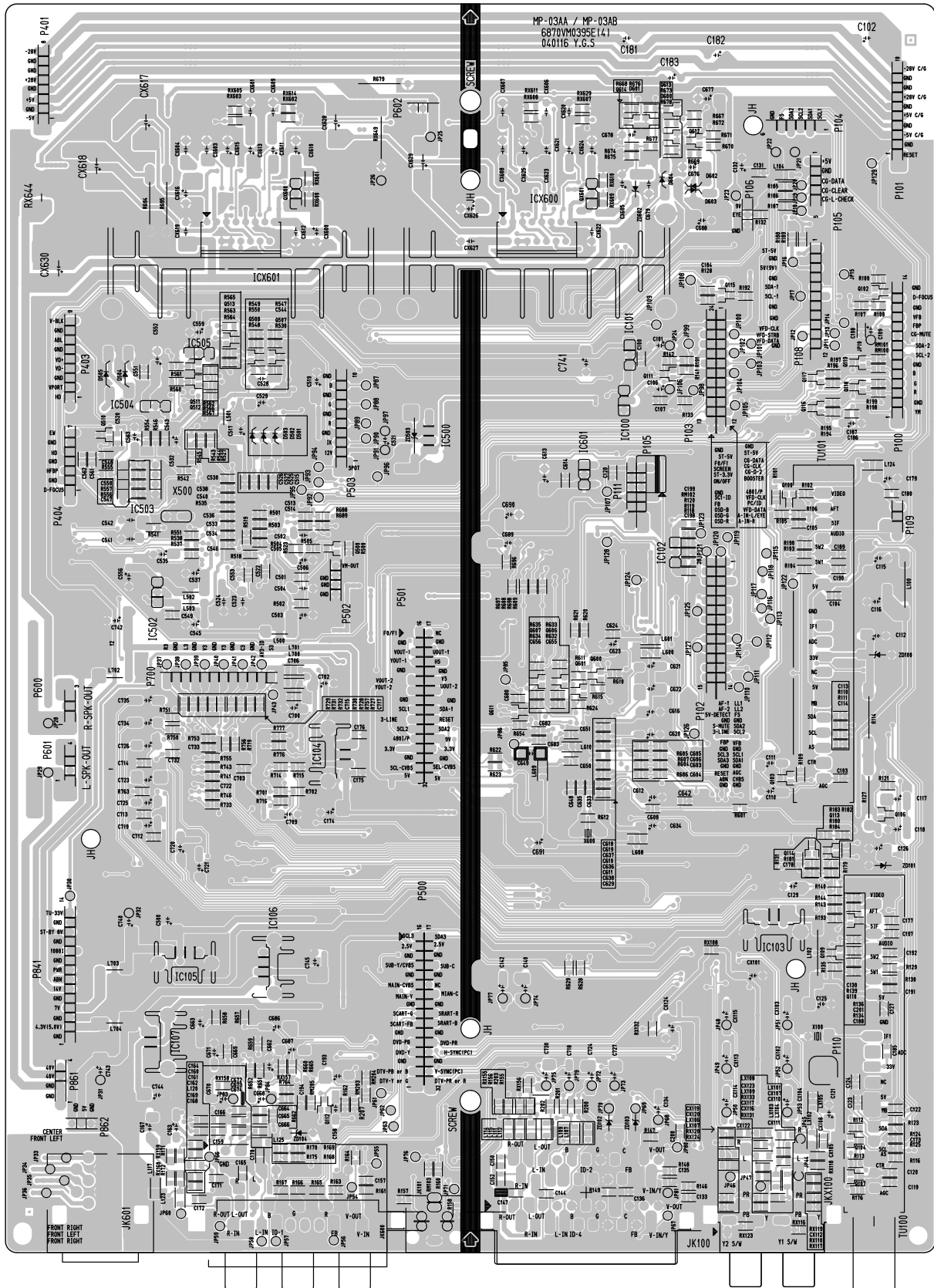
- IC700 CXA-2069**: The central video processor, receiving inputs from RF, SIF, and various video sources (AV-1 to AV-4). It outputs TV, PIP, and video signals to the VSP-9427B and CXA-2180.
- IC265 LGDT 1000B**: A line delay and timing control IC, connected to the video input and the VSP-9427B.
- IC264 74LS 157**: A monostable multivibrator used for timing, connected to the video input and the VSP-9427B.
- IC262 VSP-9427B**: A video signal processor that handles CVBS, Y/C, and RGB signals, outputting to the CXA-2180.
- IC501 CXA-2180**: A color and luminance processor that receives signals from the VSP-9427B and outputs RGB, Y/CbCr, and deflection signals.
- IC600 MSP-3411G**: A multi-standard video processor that receives signals from the CXA-2069 and outputs to the CXA-2151.
- IC266 CXA-2151**: A video processor that receives signals from the MSP-3411G and outputs to the CXA-2180.
- IC601 LM4765T**: A DAC and L/R processor that receives signals from the MSP-3411G and outputs to the CXA-2180.
- IC602 KA4558**: A variable audio output processor that receives signals from the MSP-3411G and outputs to the CXA-2180.

The diagram shows the flow of video, audio, and control signals between these components, including inputs like RF, SIF, and video sources, and outputs like TV, PIP, and video signals.

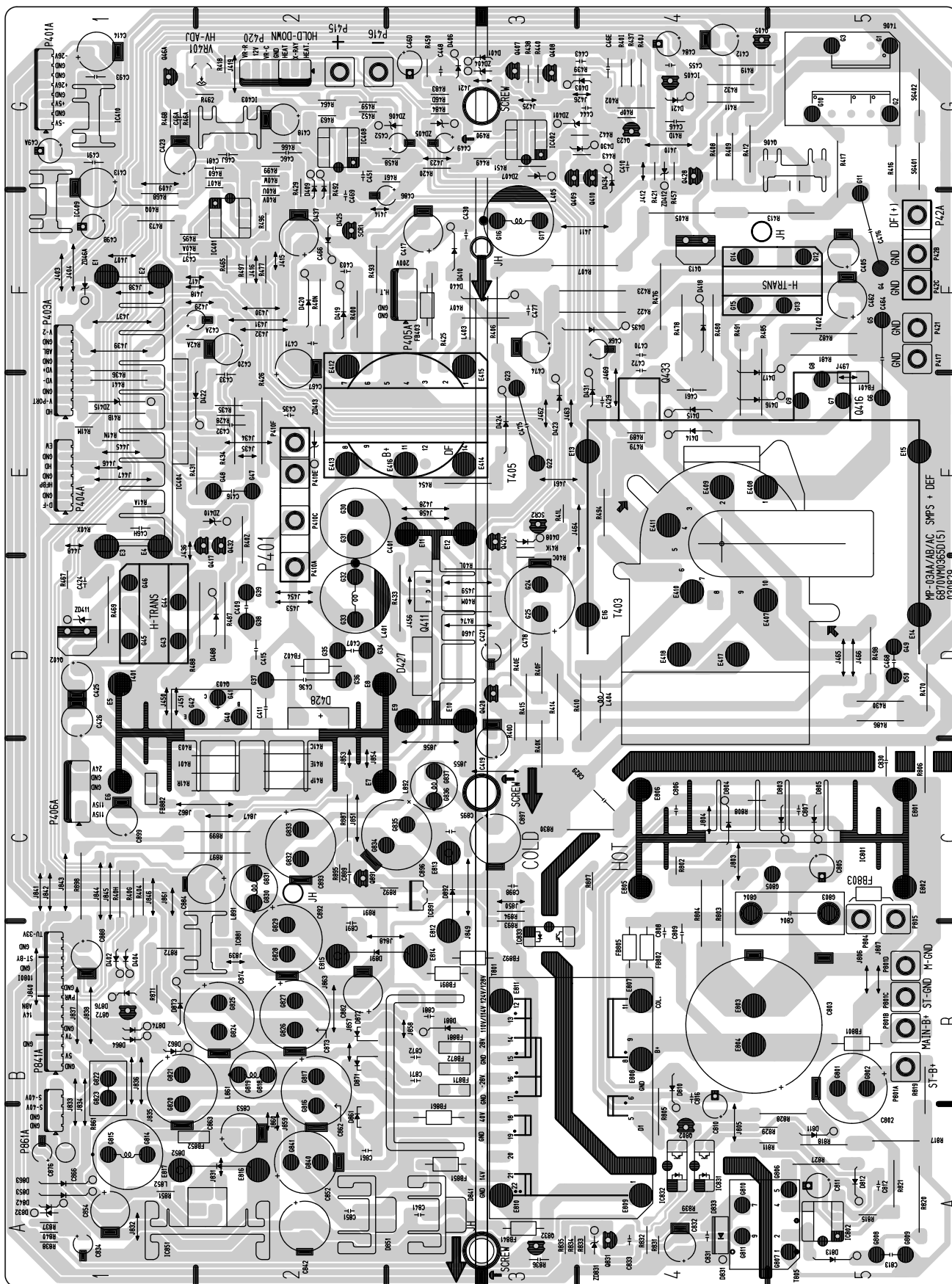
MAIN1 (TOP)



MAIN1 (BOTTOM)



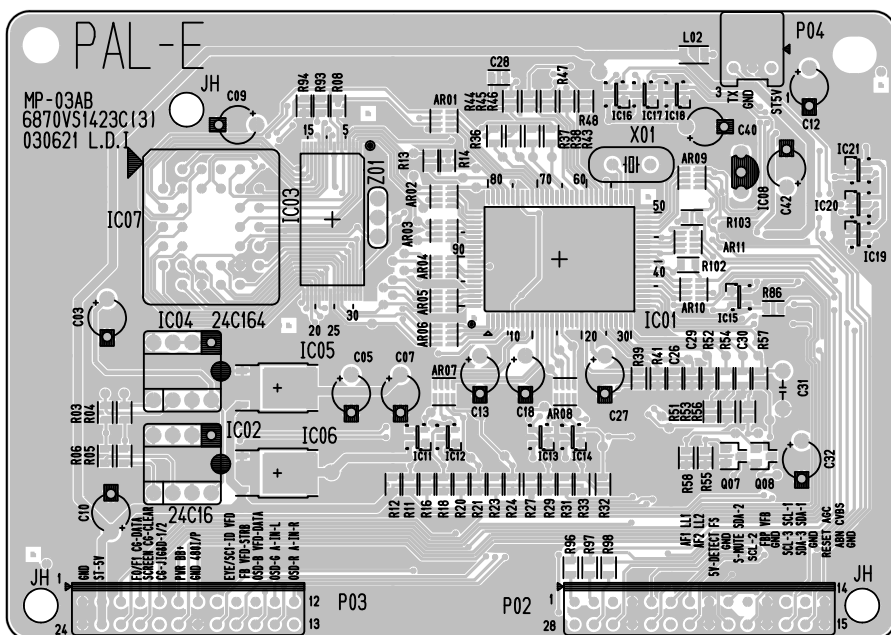
MAIN2



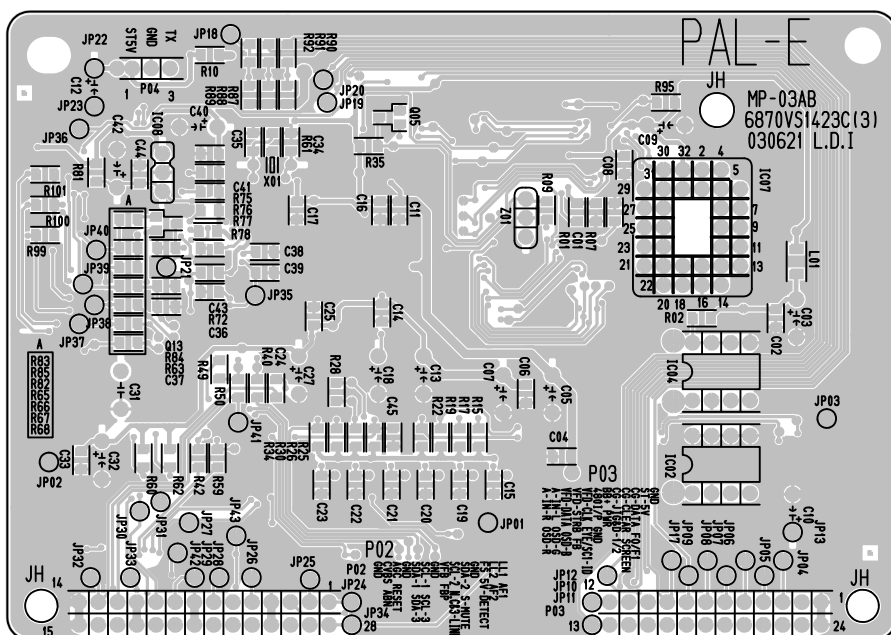
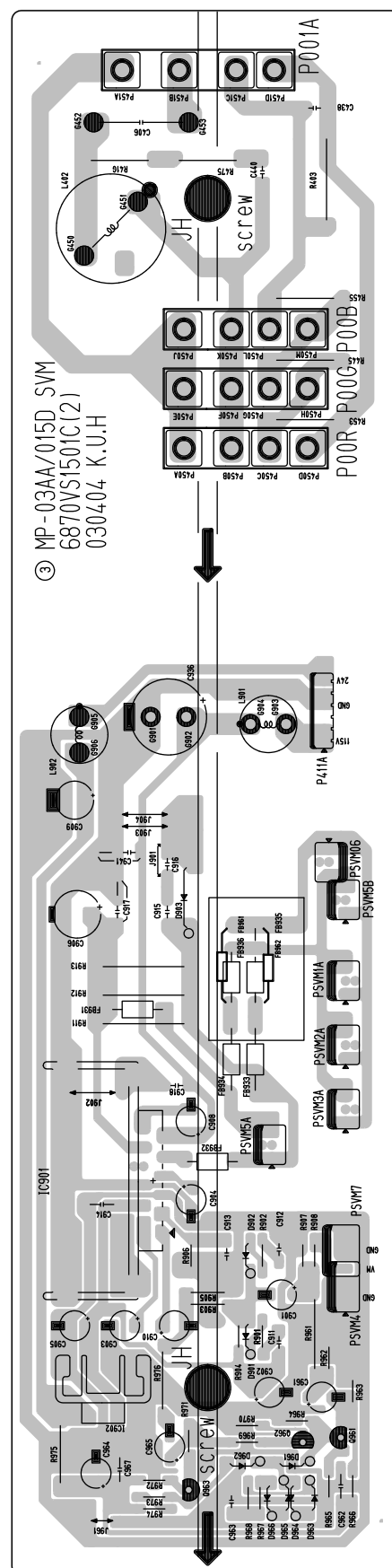
COMPONENT LOCATION GUIDE(MAIN2)

C401	E2	C871	B3	E5	D1	G37	D2	J429	F2	JP19	E2	R420	G3	R831	A4
C403	F2	C872	B3	E6	C1	G38	D2	J430	F2	JP20	F3	R421	G4	R832	A4
C405	F5	C873	B2	E7	C3	G39	D2	J431	F2	JP21	G2	R422	F4	R833	A4
C407	D2	C874	B2	E8	D3	G40	D2	J432	F2	JP22	G2	R423	F4	R834	A4
C409	D2	C876	A1	E9	D3	G41	D2	J434	E2	JP23	G2	R425	F3	R835	A3
C410	G4	C881	B3	E10	D3	G42	D2	J435	E2	JP24	G2	R426	E2	R836	A3
C411	D2	C882	B2	E11	E3	G43	D1	J436	D2	JP25	G2	R428	E2	R837	A1
C412	G4	C884	C2	E12	E3	G44	D1	J437	F1	JP26	G2	R429	F2	R838	A1
C413	G1	C888	B1	E13	E4	G45	D1	J438	F1	JP27	G3	R430	D5	R839	A4
C414	G1	C889	C2	E14	D5	G46	D1	J439	F1	JP29	C5	R431	E2	R840	A1
C415	D2	C891	B2	E15	E5	G47	E2	J445	E1	L401	D2	R432	G4	R851	A1
C416	E2	C892	B2	E16	D4	G48	E2	J446	E1	L403	F3	R433	D3	R861	B1
C417	F3	C893	C2	E407	D5	G49	D5	J447	E1	L404	D4	R434	E2	R871	B1
C418	G2	C895	C3	E408	E5	G50	D5	J448	E1	L405	F3	R435	E2	R872	B2
C419	D3	C896	C3	E409	E4	G801	B5	J450	D1	L852	A1	R436	F1	R887	C2
C420	F2	C897	C3	E410	D4	G802	B5	J451	D1	L861	B2	R437	G4	R891	C3
C421	D3	C898	C3	E411	E4	G803	C5	J453	D2	L891	C2	R438	G3	R892	C3
C423	G1	C899	C1	E412	F2	G804	C4	J454	D2	L892	C3	R439	G4	R893	C3
C424	D1	C42A	F2	E413	E2	G805	C5	J456	D3	P415	G2	R440	G3	R894	C3
C425	D1	C46A	G1	E414	E3	G806	A5	J458	E3	P416	G3	R441	E1	R895	C2
C426	D1	C46C	G2	E415	F3	G807	A5	J459	D3	P417	F5	R442	G4	R897	C2
C429	E4	C46D	G3	E416	E3	G808	A5	J460	D3	P420	G2	R443	G4	R898	B1
C430	F3	C46E	G4	E417	D4	G809	A5	J461	E4	P421	F5	R449	G3	R899	C2
C432	E2	C46H	E1	E418	D4	G810	A4	J462	E3	P804	C5	R450	G3	R40A	F2
C433	E2	C46J	G2	E801	C5	G811	A4	J463	E4	P805	C5	R451	G3	R40C	D3
C435	E2	C46K	F4	E802	C5	G814	A1	J464	D4	P401A	G1	R452	G3	R40D	C3
C436	D2	C49A	G1	E803	B4	G815	A1	J465	D5	P403A	E1	R454	E3	R40E	D3
C437	F2	C49B	F1	E804	B4	G816	A2	J466	D5	P404A	E1	R457	G4	R40F	D3
C443	G4	D401	G3	E805	C4	G817	B2	J467	E5	P405A	F3	R458	G3	R40G	B1
C444	G4	D402	B1	E806	C4	G818	B2	J469	E4	P406A	C1	R459	G3	R40H	B1
C446	G4	D403	G3	E807	B4	G819	B2	J803	C4	P410A	D2	R460	G2	R40I	G4
C448	G3	D404	B1	E808	B4	G820	B2	J804	C4	P410C	E2	R461	G3	R40J	G4
C449	G3	D406	G3	E809	A4	G821	B2	J805	A4	P410E	E2	R462	G2	R40K	C3
C451	G2	D408	E3	E810	A3	G822	B1	J806	B5	P410F	E2	R463	G2	R40L	D3
C452	G3	D409	G2	E811	B3	G823	B1	J807	B5	P42A	F5	R464	G2	R40M	D3
C455	G4	D410	F3	E812	B3	G824	B2	J831	A2	P42B	F5	R465	F2	R40N	F2
C461	E4	D414	E4	E813	C3	G825	B2	J832	A1	P42C	F5	R466	G2	R40P	G4
C462	F5	D415	E4	E814	B3	G826	B2	J833	A1	P801A	B5	R467	D1	R40Q	F2
C464	E5	D416	E5	E815	B2	G827	B2	J834	A1	P801B	B5	R468	F2	R40T	G2
C466	F2	D417	F5	E816	A2	G828	B2	J835	A1	P801C	B5	R469	D1	R40U	G2
C467	F2	D418	F4	E817	A1	G829	B2	J836	A1	P801D	B5	R470	D5	R40V	F2
C468	D5	D419	F2	FB401	E5	G830	C2	J837	B1	P841A	B1	R473	F1	R40W	G2
C469	F2	D420	F2	FB402	D2	G831	C2	J838	B1	P861A	A1	R474	D3	R40X	E1
C470	F4	D421	G4	FB403	F3	G832	C2	J839	B2	Q402	D1	R476	F4	R40Y	F3
C471	F2	D422	E2	FB801	B5	G833	C2	J840	B1	Q403	D2	R477	F2	R40Z	D2
C472	F4	D423	E3	FB802	B4	G834	C3	J841	C1	Q405	G5	R478	F4	R41A	E1
C474	F3	D424	E3	FB805	B4	G835	C3	J842	C1	Q406	G5	R479	E4	R41B	E1
C475	E3	D425	F2	FB841	A3	G836	C3	J843	C1	Q407	G3	R480	F4	R41C	C2
C476	F5	D427	D3	FB851	A3	G837	C3	J844	B1	Q408	G3	R481	F5	R41D	G4
C477	F3	D430	G4	FB852	A2	G840	A2	J845	B1	Q409	G4	R482	F5	R41E	C2
C478	D3	D431	F4	FB861	A3	G841	A2	J846	C1	Q410	G4	R483	G3	R41K	E3
C481	G2	D434	G4	FB871	B3	IC401	F2	J847	C2	Q413	F4	R484	G3	R41L	E3
C484	G4	D435	F4	FB872	B3	IC402	G3	J848	B3	Q416	D5	R485	E4	R41M	E1
C486	F3	D437	G2	FB881	B3	IC403	G2	J849	C3	Q417	E2	R486	D5	R41N	E1
C491	G1	D440	F3	FB882	C1	IC404	E1	J850	C3	Q420	D3	R487	D2	R41P	C2
C493	G1	D488	D2	FB891	B3	IC405	G4	J851	C2	Q423	G4	R488	D2	R41R	C2
C802	B5	D803	C5	FB892	B3	IC408	G2	J853	C2	Q424	E3	R489	E4	R42A	F2
C803	B4	D804	C4	G1	G5	IC409	F1	J854	C2	Q428	G4	R490	G3	R46A	G2
C804	C5	D805	C5	G2	G5	IC410	G1	J855	C3	Q432	E2	R491	E4	R46B	G1
C805	C5	D810	A4	G3	G5	IC801	C4	J856	C3	Q802	A4	R492	F2	R46D	G3
C806	C4	D811	A5	G4	F5	IC802	A5	J857	B2	Q831	A4	R493	F3	SCR1	F2
C807	C5	D812	A5	G5	F5	IC831	A4	J858	B3	Q832	A3	R494	E4	SCR2	E3
C808	B4	D813	A5	G6	E5	IC832	A4	J859	A2	Q872	B1	R495	F2	SG401	F5
C809	B4	D831	A4	G7	E5	IC833	B3	J860	A2	Q891	C2	R496	F2	SG402	G5
C810	B4	D832	A1	G8	E5	IC851	A2	J861	C1	Q46A	G1	R497	F2	T401	D1
C811	A5	D833	A4	G9	E5	IC881	B2	J862	C2	R400	F2	R498	D5	T402	F5
C812	A5	D841	A3	G10	G5	IC891	C3	J863	B2	R401	C2	R499	G2	T403	E4
C813	A5	D842	A1	G11	F5	J403	F1	JP1	B5	R402	G4	R802	C4	T405	F3
C816	A4	D851	A3	G12	F5	J404	F1	JP2	A5	R403	C2	R803	B4	T406	G5
C829	C4	D852	A1	G13	F5	J407	F1	JP3	A5	R404	C1	R804	B4	T801	B3
C830	C5	D853	A1	G14	F4	J409	G2	JP4	B5	R405	F4	R805	A4	T805	A5
C831	A4	D861	B2	G15	F4	J410	G4	JP5	B5	R406	F3	R806	C5	VR401	G2
C832	A4	D862	B2	G16	F3	J411	F4	JP6	A5	R407	F4	R807	C4	ZD401	G3
C833	A4	D863	A1	G17	F3	J412	G4	JP7	A5	R408	G4	R808	C4	ZD404	G3
C834	A1	D864	B1	G22	E3	J414	F3	JP8	A4	R409	G4	R811	A5	ZD405	G3
C841	A3	D873	B1	G23	E3	J415	F2	JP9	C5	R410	C4	R815	A5	ZD406	G3
C842	A2	D874	B1	G24	D3	J416	F2	JP10	C5	R411	G4	R817	A5	ZD407	G3
C851	A2	D876	B1	G25	D3	J417	F2	JP11	C1	R412	G4	R818	A5	ZD410	E2
C852	A2	D881	B3	G30	E2	J418	F2	JP12	C1	R413	F5	R819	A5	ZD411	D1
C853	A2	D891	B2	G31	E2	J419	G2	JP13	C1	R414	C3	R820	A5	ZD412	G4
C854	A1	D892	C3	G32	D2	J421	G3	JP14	B2	R415	C3	R821	A5	ZD413	E2
C861	A2	E1	F1	G33	D2	J423	G3	JP15	B2	R416	F5	R827	A5	ZD415	E1
C862	A2	E2	F1	G34	D2	J425	G3	JP16	C3	R417	F5	R828	A5	ZD831	A4
C863	B2	E3	E1	G35	D2	J426	G4	JP17	D2	R418	G2	R829	A5	ZD46A	F1
C866	A1	E4	E1	G36	D2	J428	E3	JP18	E2	R419	G5	R830	C4		

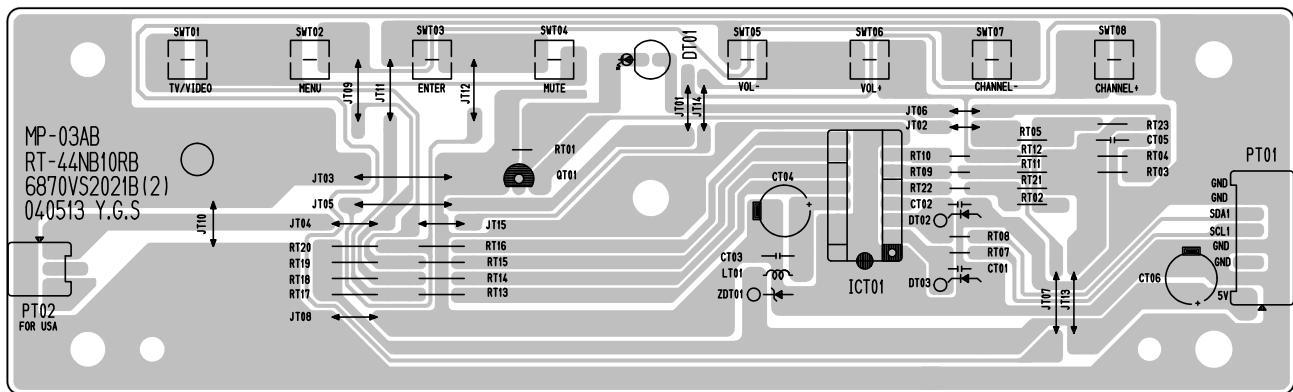
MICOM (TOP)



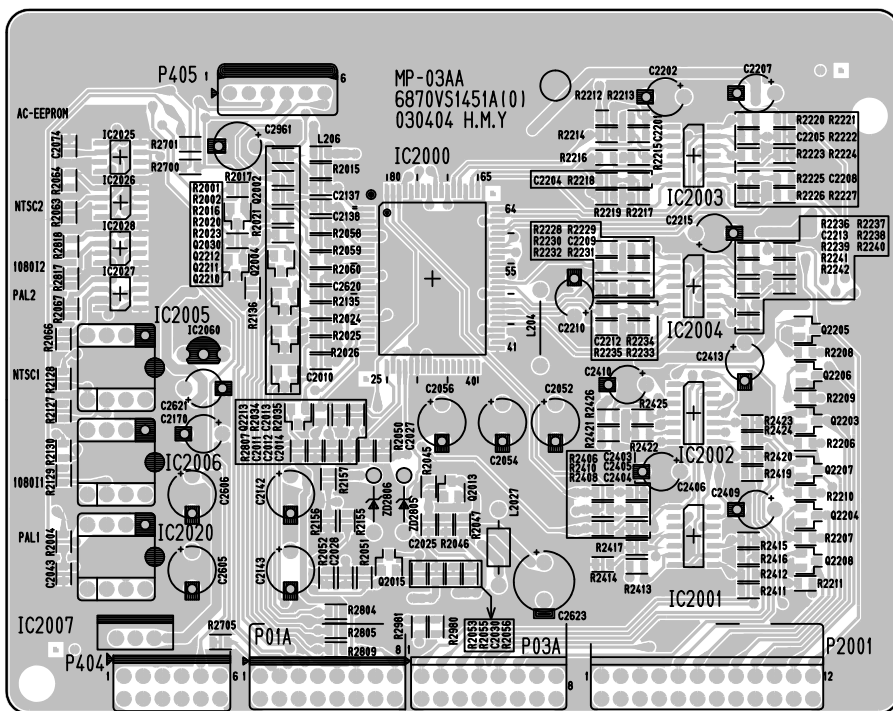
MICOM (BOTTOM)

**VM**

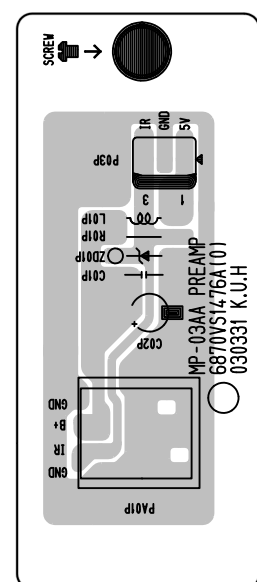
CONTROL



D-CON

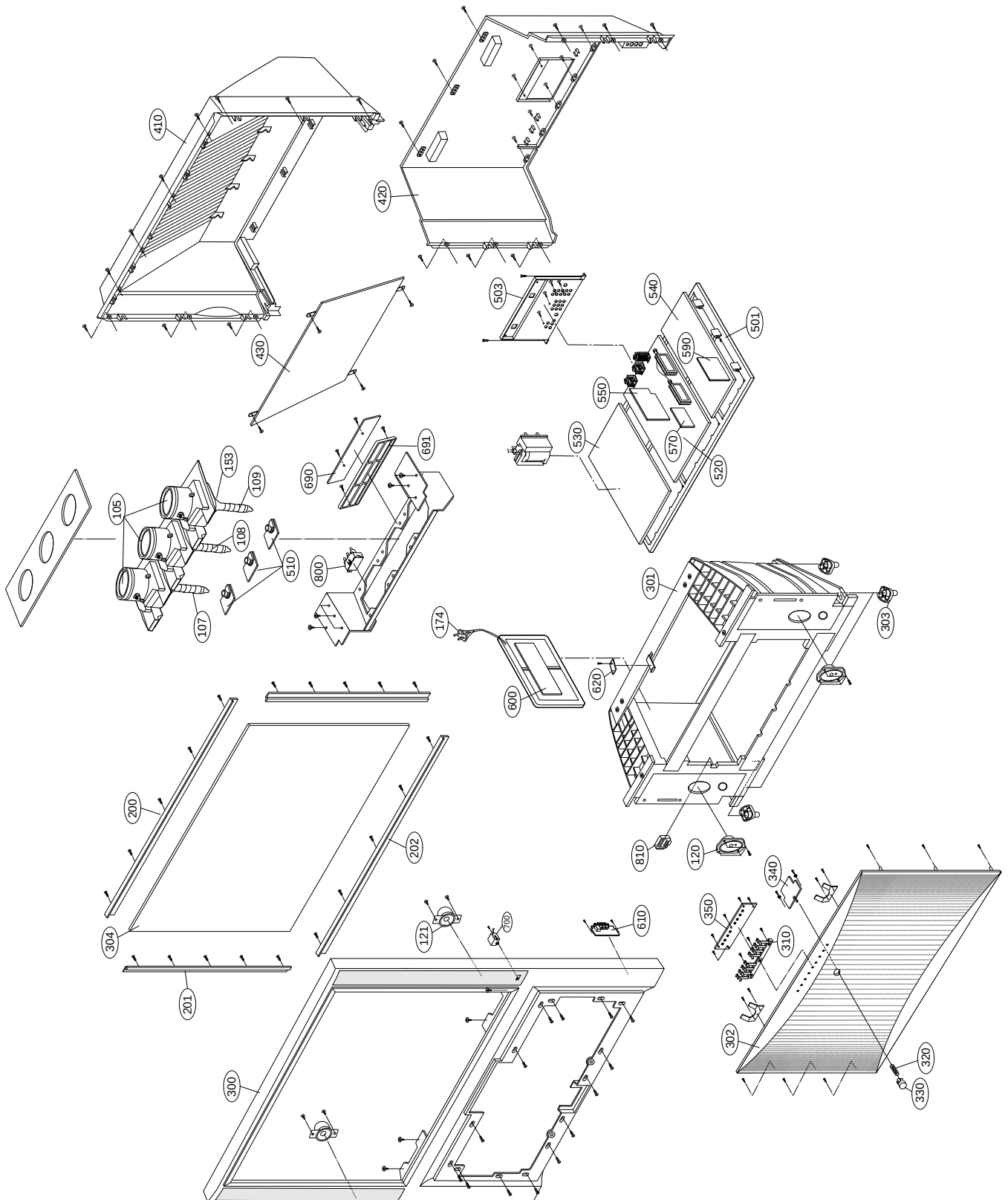


PRE-AMP



MEMO

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
105	3680V00109A	LENS, LENS RU-39NZ40H 3M-PO D-72 LENS ASSY
107	4811V00158J	BRACKET ASSEMBLY, PRT ASSY RE-44NB10RB MP03AB D-72 BLUE CLENS+COUPLER+CPT SKD
	4811V00336C	BRACKET ASSEMBLY, PRT ASSY RE-44NB10RB SY CKD MP03AB D-72 BLUE CLENS+CPT+COUPLER
108	4811V00158H	BRACKET ASSEMBLY, PRT ASSY RE-44NB10RB MP03AB D-72 GREEN CLENS+COUPLER+CPT SKD
	4811V00336B	BRACKET ASSEMBLY, PRT ASSY RE-44NB10RB SY CKD MP03AB D-72 GREEN CLENS+CPT+COUPLER
109	4811V00158G	BRACKET ASSEMBLY, PRT ASSY RE-44NB10RB MP03AB D-72 RED CLENS+COUPLER+CPT SKD
	4811V00336A	BRACKET ASSEMBLY, PRT ASSY RE-44NB10RB SY CKD MP03AB D-72 RED CLENS+CPT+COUPLER
120	6400VA0016A	SPEAKER,, GENERAL C050TX-346K14 LG C&D 8 OHM 15W/20W 82DB 74X21.8(SQUEETER)MM
121	120-D38E	SPEAKER,, MID-RANGE, LG FOSTER 8 OHM 15/25W 87DB 128X77MM
153	6150V-1026A	DY(DEFLECTION YOKE), 6150Z-1100L 07 LPDBJ 38KHZ 2.5H DEFLECTION YOKE MP-03AA
174	174-322E	POWER CORD, POWER W/FILTER L=400(179B)
200	4980V00B00C	SUPPORTER, SCREEN SECC(EGI) RT-44NB10RP(CKD)
201	4980V00B01C	SUPPORTER, SCREEN SECC(EGI) RT-44NB10RP(CKD)
202	4980V00B02C	SUPPORTER, SCREEN SECC(EGI) RT-44NB10RP(CKD)
300	3091V00663E	CABINET ASSEMBLY, RE-44NB10RB STEREO MP03AB UPPER(CKD,PHANTOM)
	3091V00663R	CABINET ASSEMBLY, RE-44NB10RB STEREO MP03AB PHANTOM (LGEMA ASSY)
301	3091V00668D	CABINET ASSEMBLY, RE-44NB10RB STEREO MP03AB CKD(PHANTOM), LOCAL ASSEMBLY
	3091V00668J	CABINET ASSEMBLY, RT-44NB10RB STEREO MP03AB LGEMA LOCAL RE-44NB10RB.TPMLMG3/ TPMLMI3
302	3211V00175D	FRAME ASSEMBLY, FRONT LOWER ASSY,RE-44NB0RB PHANTOM,CKD
	3211V00175L	FRAME ASSEMBLY, FRONT LOWER RE-44NB10RB PHANTOM (LGEMA ASSY) RE-44NB10RB.TPMLMG3/ TPMLMI3
303	4778V00101A	LEG, DN-45NZ80 ABS, HF-380 SUPPORTER NDP
	4778V00107A	LEG, RE-40NZ80 ABS, HF-380 SUPPORTER EXPORT TOOL RE-44NB10RB.TPMLMG3/ TPMLMI3/ SPMLMI2
304	3351V00012B	SCREEN ASSEMBLY, DNP R4 44N C/SKD_SS ENG ASSY
310	5020V00929B	BUTTON, CONTROL RT-44NB10RP ABS, HF-380 8KEY C/SKD
320	320-062E	SPRING, KNOB
330	5020V00928A	BUTTON, POWER RT-44NB10RB ABS, HF-380 1KEY .
340	6871VSMY74B	PWB(PCB) ASSEMBLY, SUB PSW MP03AB M/I LGEMA SKD (40/45NZ80,44NB10)
350	6871VSM695A	PWB(PCB) ASSEMBLY, SUB CONT MP03AB M/I CONTROL 44NB10
410	3809V00457B	BACK COVER ASSEMBLY, RT-44NB10RP NON C/SKD
	3809V00457E	BACK COVER ASSEMBLY, RE-44NB10RB UPPER PHANTOM (LGESY-LGEMA) RE-44NB10RB.TPMLMG3/ TPMLMI3
420	3809V00458D	BACK COVER ASSEMBLY, RE-44NB10RB NON LOWER(CKD), 40AF
	3809V00458L	BACK COVER ASSEMBLY, RE-44NB10RB LOWER PHANTOM(LGESY - LGEMA) RE-44NB10RB.TPMLMG3/ TPMLMI3
430	5018V00085C	MIRROR, PROJECTION AHSUNG FILM (SW) R4 44(N) C/SKD INNOVATION MIRROR.
501	4810V00752C	BRACKET, MAIN RU-40NZ60 MP03AA HIPS 407AF .
503	4810V00874B	BRACKET, REAR AV RE-39NZ60RB MP03AB HIPS 60HR .
510	6871VSMV08B	PWB(PCB) ASSEMBLY, SUB CPT MP03AB M/I EXPORT NO HIGH VOLTAGE LABEL
520	6871VMN683G	PWB(PCB) ASSEMBLY, MAIN MAIN MP03AB M/I PAL-EU (GREECE) RE-44NB10RB.TPMLMG3
	6871VMN683H	PWB(PCB) ASSEMBLY,MAIN MAIN MP03AB M/I PAL-EU (ITALY) RE-44NB10RB.SPMLMI2/ TPMLMI3
	6871VMN683J	PWB(PCB) ASSEMBLY,MAIN MAIN MP03AB M/I SECAM (FRANCE) RL-44NB10RB
	6871VMN671Y	PWB(PCB) ASSEMBLY, MAIN MAIN MP03AB M/I PAL-EU, EYE (HUNGARY) RE-44NB10RB.SUMLMH2/TUMLMH3
530	6871VDM904B	PWB(PCB) ASSEMBLY, POWER MAIN2 MP03AB M/I 4:3, NARROW, 100MM EUROPE
540	6871VSMC39A	PWB(PCB) ASSEMBLY, SUB CVG MP03AB M/I CONV-OUT (PAL 2MODE) 250 AMP
550	6871VSMV80A	PWB(PCB) ASSEMBLY, SUB DIGITAL MP03AB M/I PAL (W/O PC, W/ PIP) VSP9427B
570	6871VSMG45G	PWB(PCB) ASSEMBLY, SUB MICOM MP03AB M/I PAL-EU, W/TXT,EYE (GREECE) RE-44NB10RB.TPMLMG3
	6871VSMG45H	PWB(PCB) ASSEMBLY,SUB MICOM MP03AB M/I PAL-EU, W/TXT, EYE (ITALY) RE-44NB10RB.SPMLMI2/ TPMLMI3
	6871VSMG45J	PWB(PCB) ASSEMBLY,SUB MICOM MP03AB M/I SECAM, W/TXT, EYE (FRANCE) RL-44NB10RB
	6871VSMG01Y	PWB(PCB) ASSEMBLY, SUB MICOM MP03AB M/I W/TXT, EYE (HUNGARY) RE-44NB10RB
590	6871VSMC17A	PWB(PCB) ASSEMBLY, SUB CVG MP03AB D-CON M/I (PAL 2MODE)
600	6871VPMA27A	PWB(PCB) ASSEMBLY, POWER SMPS MP03AB AC-INPUT M/I EUROPE
610	6871VSMY75A	PWB(PCB) ASSEMBLY, SUB S/IN AP03NC M/I SIDE-AV DN-40NZ80H (40/45NZ80, 44NB10)
620	6871VSMX19B	PWB(PCB) ASSEMBLY, SUB P/AMP MP03AB M/I PRE-AMP(PAL) 1400MM
690	6871VSMV58B	PWB(PCB) ASSEMBLY, SUB VM MP03AB EU,PAL
691	4810V00700B	BRACKET, BOARD RU-40NZ60 MP03AA HIPS 60HR (VM BOARD) RE-44NB10RB
	4810V00700C	BRACKET, BOARD RU-40NZ60 MP03AA HIPS 407AF (VM BOARD) RL-44NB10RB
700	0IGL120104A	IC, LG SEMICONDUCTOR CDS SENSOR MODULE(P1201-04)
800	4410Z-A001P	FBT (FLY BACK TRANSFORMER), HVF30-1115A 44 YINYANG A001L G/S
810	180-836K	FOCUS PACK, W18-601-02 YINYANG 180-836H

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
IC		
D861	0ISK100300A	SLA1003 SIP12 DIODE MODULE
IC01	0ISM555000A	SDA5550 MQFP100
IC02	0IAL241610B	AT24C16A-10PI-2.7 8PIN
IC03	0ISS610082A	K6X1008T2D-TF70 REVISION 32-TSOP
IC04	0IMCRAL003B	AT24C164-10PI-2.7
IC05	0IPMSG017A	LD1117DT25CTR STM 3P
IC06	0ISG111733A	LD1117DT33C-TR 3
IC07	0IZZVA0078A	M27W201 32PLCC ST MICOM(PAL)
IC07	0ISG272012A	M27W201(2M BIT 3.3V) 32PLCC
IC08	0IFA752700A	KA75270Z 3 TP RE-SET IC MC-007
IC101	0IKE780500Q	KIA7805API 3P TO-220(=KIA7805PI)
IC102	0IFA754207A	KA75420ZTA(KA7542ZTA) 3P
IC103	0IKE780500Q	KIA7805API 3P TO-220(=KIA7805PI)
IC103	0IKE780500Q	KIA7805API 3P TO-220(=KIA7805PI)
IC104	0IKE780900M	KIA7809API TO220 ST 3P 9V
IC105	0ISH052100C	PQ05RD21 4SIP ST REGULATOR
IC106	0ISH323422A	PQ3RF23 4P(TO-220) 3.3V REGUL
IC107	0ISG111725B	LD1117V25 3 SIP ST REGULATOR
IC2000	0ICTMSG001A	STV2050A TRAY CONVERGENCE IC
IC2003	0ITI347000A	LF347D 14P,SOP
IC2004	0ITI347000A	LF347D 14P,SOP
IC2005	0IAL241610B	AT24C16A-10PI-2.7 8PIN
IC2006	0IMCRAL003B	AT24C164-10PI-2.7
IC2007	0ISG111733B	LD1117V33C 3SIP
IC2020	0IMCRAL003B	AT24C164-10PI-2.7
IC2025	0IMCRAL003C	AT24C164-10SI-2.7
IC2026	0IMCRAL003C	AT24C164-10SI-2.7
IC2027	0IMCRAL003C	AT24C164-10SI-2.7
IC2060	0IFA752700A	KA75270Z 3 TP RE-SET IC
IC260	0IPMSG016A	LD1086D2T18TR STM 3P
IC261	0IPMSG016A	LD1086D2T18TR STM 3P
IC262	0IMCRMN016B	VSP9427B-XZ-C3
IC263	0ISA721700C	LA7217M MFP14
IC264	0IMCRFA012B	MM74HC157MX SOIC
IC265	0ICTMLG010A	LGDT1000B QFP 128P TRAY DRP2
IC266	0IMCRSO008A	CXA2151Q QFP TRAY 60LCD
IC2701	0IPRPSA014A	STK394-250
IC2702	0IPRPSA014A	STK394-250
IC401	0IKE358000A	KIA358P DIP8 DUAL OP-AMP
IC402	0ISS393000G	KA393 COMPARATOR 8DIP
IC403	0IKE781200P	KIA7812API TO220 ST 3P 12V
IC404	0ISA784600A	7846 SIP,10P
IC405	0IFA754207A	KA75420ZTA(KA7542ZTA) 3P
IC408	0IKE358000A	KIA358P DIP8 DUAL OP-AMP
IC409	0ISS790500C	KA7905 POWER INTEGRATION
IC410	0IKE780500Q	KIA7805API 3P TO-220(=KIA7805PI)
IC500	0ISH122100B	PQ12RD21 4SIP ST REGULATOR
IC501	0IMCRSO013B	CXA2180Q QFP TRAY BACK-END IC
IC502	0IKE780500Q	KIA7805API 3P TO-220(=KIA7805PI)
IC503	0ISS393000G	KA393 COMPARATOR 8DIP
IC504	0IKE780900M	KIA7809API TO220 ST 3P 9V REGULATOR

LOCA. NO	PART NO	DESCRIPTION
IC505	0IKE780500P	KIA78L05BP(AT) 3P 5V,150MA
IC600	0IMCRMN001C	MSP3411G QA B8 V3 MICRONAS 80P
IC601	0IKE780800J	KIA7808API 3 ST REGULATOR
IC602	0ISS455880A	KA4558D 8SOP OP AMP
IC700	0ISO206900A	CXA2069Q QFP64
IC801	0ISK665813A	STR-F6658B(LF1352) 5PIN SIP
IC802	0IPMGSK003A	STR-A6351 ST SMPS 1 CHIP
IC831	0ILI817000G	LTV817M-VB 4P,DIP
IC832	0ILI817000G	LTV817M-VB 4P,DIP
IC833	0ILI817000G	LTV817M-VB 4P,DIP
IC851	0IMO257633A	LM2576TV-3.3 5PIN
IC881	0IKE782400C	KIA7824API 3 ST REGULATOR
IC891	0ISK105000A	SE105N 105V ERROR AMP(NO.12)
IC901	0IZZVF0018C	STK396-130 11P
IC901B	0IPH611190A	TDA6111Q 9SIP RGB AMP
IC901G	0IPH611190A	TDA6111Q 9SIP RGB AMP
IC901R	0IPH611190A	TDA6111Q 9SIP RGB AMP
IC902	0IKE781200P	KIA7812API TO220 ST 3P
ICT01	0IMCRMIO02A	M62320P ST I/O EXPANDER
ICX601	0IMCRNS006A	LM4765T ST AUDIO POWER AMP 30W
IC07	6620F00015A	SOCKET(CIRC),ICD-PLCC-32-B-T
TRANSISTOR		
IC11	0TR830009BA	BSS83
IC12	0TR830009BA	BSS83
IC13	0TR830009BA	BSS83
IC14	0TR830009BA	BSS83
IC15	0TR830009BA	BSS83
IC16	0TR830009BA	BSS83
IC17	0TR830009BA	BSS83
IC18	0TR830009BA	BSS83
IC19	0TR830009BA	BSS83
IC20	0TR830009BA	BSS83
IC21	0TR830009BA	BSS83
Q07	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q08	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q100	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q100	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q101	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q102	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q104	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q107	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q108	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q110	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q111	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q112	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q113	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q114	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q115	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q116	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q117	0TR387500AA	CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q118	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q119	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q13	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q200	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2001	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2002	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q2003	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2004	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q2005	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2013	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2014	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q2015	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2016	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q2201	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2202	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q2203	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2204	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2205	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2206	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2207	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2208	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2209	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q2210	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q2211	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q2212	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q2213	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q260	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q261	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q262	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q263	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q264	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q265	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q266	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q267	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q268	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q269	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q270	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q2700	0TR319809AA	KTC3198(KTC1815) KEC
Q2701	0TR319809AA	KTC3198(KTC1815) KEC
Q2702	0TR319809AA	KTC3198(KTC1815) KEC
Q271	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q272	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q273	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q274	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q275	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q276	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q402	0TF630000CB	FAIRCHILD IRFS630B ST TO220F
Q403	0TRTH10007A	2SC5858 TO3P VCBO 1700V IC 22A
Q405	0TR126609AA	KTA1266-Y(KTA1015) KEC
Q405	0TR126609AA	KTA1266-Y(KTA1015) KEC
Q406	0TRFC10001A	FAIRCHILD KSC5042F-YDTU
Q407	0TR126609AA	KTA1266-Y(KTA1015) KEC

LOCA. NO	PART NO	DESCRIPTION
Q408	0TR319809AA	KTC3198(KTC1815) KEC
Q409	0TR319809AA	KTC3198(KTC1815) KEC
Q410	0TR126609AA	KTA1266-Y(KTA1015) KEC
Q411	0TR205900AB	KTD2059-Y TO-220IS KEC
Q413	0TF630000CB	FAIRCHILD IRFS630B ST TO220F
Q416	0TR187900AA	2SD1879
Q416	0TF630000CB	FAIRCHILD IRFS630B ST TO220F
Q417	0TR319809AA	KTC3198(KTC1815) KEC
Q420	0TR421009CB	BF421L(AMMO)TO-92
Q423	0TR319809AA	KTC3198(KTC1815) KEC
Q424	0TR126609AA	KTA1266-Y(KTA1015) KEC
Q428	0TR322709AA	KTC3227-Y,TP(KTC1627A),KEC
Q432	0TR126609AA	KTA1266-Y(KTA1015) KEC
Q500	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q501	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q502	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q503	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q504	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q505	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q506	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q507	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q508	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q509	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q510	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q511	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q512	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q513	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q514	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q600	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q601	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q602	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q603	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q606	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q607	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q608	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q609	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q610	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q611	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q612	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q613	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q614	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q615	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q700	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q700	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q701	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q702	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q703	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q703	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q704	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q705	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q706	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q707	0TR387500AA	CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q708	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q709	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q710	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q711	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q802	0TR322709AA	KTC3227-Y,TP(KTC1627A),KEC
Q831	0TR319809AA	KTC3198(KTC1815) KEC
Q832	0TR319809AA	KTC3198(KTC1815) KEC
Q872	0TR319809AA	KTC3198(KTC1815) KEC
Q891	0TR319809AA	KTC3198(KTC1815) KEC
Q901B	0TR437000BA	KTC4370A-Y TO-220IS KEC
Q901G	0TR437000BA	KTC4370A-Y TO-220IS KEC
Q901R	0TR437000BA	KTC4370A-Y TO-220IS KEC
Q902B	0TR319809AA	KTC3198(KTC1815) KEC
Q902G	0TR319809AA	KTC3198(KTC1815) KEC
Q902R	0TR319809AA	KTC3198(KTC1815) KEC
Q905G	0TR126609AA	KTA1266-Y(KTA1015) KEC
QT01	0TR319809AA	KTC3198(KTC1815) KEC
QX100	0TR387500AA	CHIP 2SC3875S(ALY) KEC
QX101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
QX102	0TR387500AA	CHIP 2SC3875S(ALY) KEC
QX103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
QX104	0TR387500AA	CHIP 2SC3875S(ALY) KEC
QX105	0TR387500AA	CHIP 2SC3875S(ALY) KEC
QX600	0TR322709AA	KTC3227-Y,TP(KTC1627A),KEC
DIODE		
D2701	0DS113379BA	1SS133 T-72
D401	0DS113379BA	1SS133 T-72
D402	0DS113379BA	1SS133 T-72
D403	0DS113379BA	1SS133 T-72
D404	0DS113379BA	1SS133 T-72
D406	0DS113379BA	1SS133 T-72
D409	0DR210009AC	BAV21 200V 0.2A 1A 50SEC 100A
D410	0DD200009AH	RU2AMV(1) TP SANKEN
D414	0DD300009AC	RU3AMV(1) TP SANKEN
D415	0DD300009AC	RU3AMV(1) TP SANKEN
D416	0DD340009EA	BYW34 TP (2A/400V) TELEFUNKEN
D417	0DD340009EA	BYW34 TP (2A/400V) TELEFUNKEN
D418	0DD340009EA	BYW34 TP (2A/400V) TELEFUNKEN
D419	0DD200009AH	RU2AMV(1) TP SANKEN
D420	0DD200009AH	RU2AMV(1) TP SANKEN
D421	0DS113379BA	1SS133 T-72
D422	0DD150009CE	GP15J - 600V
D423	0DS113379BA	1SS133 T-72
D424	0DD100009AQ	RP1HV(1) TP SANKEN
D425	0DS113379BA	1SS133 T-72 DO34 90V
D430	0DS113379BA	1SS133 T-72 DO34 90V
D431	0DR149379AA	1N4937G TP LITEON 200NSEC 5UA
D434	0DS113379BA	1SS133 T-72 DO34 90V
D435	0DS113379BA	1SS133 T-72 DO34 90V
D437	0DS113379BA	1SS133 T-72 DO34 90V
D440	0DD200009AH	RU2AMV(1) TP SANKEN

LOCA. NO	PART NO	DESCRIPTION
D488	0DD140009AA	EK14 V(1) E/EO-TMD 40V 1.5A
D500	0DD184009AA	KDS184S CHIP 85V 300MA KEC
D501	0DS113379BA	1SS133 T-72 DO34 90V
D502	0DS113379BA	1SS133 T-72 DO34 90V
D503	0DS113379BA	1SS133 T-72 DO34 90V
D504	0DD100009AU	EU1AV(1) TP SANKEN
D505	0DD100009AU	EU1AV(1) TP SANKEN
D600	0DD184009AA	KDS184S CHIP 85V 300MA KEC
D601	0DD184009AA	KDS184S CHIP 85V 300MA KEC
D602	0DS113379BA	1SS133 T-72 DO34 90V
D603	0DS113379BA	1SS133 T-72 DO34 90V
D604	0DS113379BA	1SS133 T-72 DO34 90V
D803	0DD100009AM	EU1ZV(1) TP SANKEN
D804	0DD100009AM	EU1ZV(1) TP SANKEN
D805	0DD100009AM	EU1ZV(1) TP SANKEN
D805	0DD100009AM	EU1ZV(1) TP SANKEN
D806	0DR010009AA	EG01C -1000V 0.5A 10A 100NSEC
D810	0DD100009AM	EU1ZV(1) TP SANKEN
D811	0DD100009AM	EU1ZV(1) TP SANKEN
D812	0DD100009AM	EU1ZV(1) TP SANKEN
D813	0DR010009AA	EG01C 1000V 0.5A 10A 100NSEC
D81A	0DD606000AA	RBV606 600V 6A 150A
D81D	0DD110009DB	RM11CV(1) TP SANKEN
D81F	0DRSA00121A	FMM-26S(LF664) TO-220FM 600V
D831	0DD420000BB	D4L20U SHINDENGEN
D832	0DZ240009DC	MTZJ2.4B DO34 0.5W 2
D841	0DD420000BB	D4L20U SHINDENGEN
D842	0DS113379BA	1SS133 T-72 DO34 90V
D851	0DD420000BB	D4L20U SHINDENGEN
D852	0DR460009AA	RK46 DO-214AC 60V 3.5A 70A 100SEC
D853	0DS113379BA	1SS133 T-72 DO34 90V
D862	0DS113379BA	1SS133 T-72 DO34 90V
D863	0DS113379BA	1SS133 T-72 DO34 90V
D864	0DS113379BA	1SS133 T-72 DO34 90V
D873	0DS113379BA	1SS133 T-72 DO34 90V
D874	0DS113379BA	1SS133 T-72 DO34 90V
D876	0DS113379BA	1SS133 T-72 DO34 90V
D881	0DD100009AM	EU1ZV(1) TP SANKEN
D891	0DD410000AD	RU4AM,LF-L1 SANKEN SANKEN
D892	0DD410000AD	RU4AM,LF-L1 SANKEN SANKEN
D901	0DS113379BA	1SS133 T-72 DO34 90V
D901B	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A
D901G	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A
D901R	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A
D902	0DS113379BA	1SS133 T-72 DO34 90V
D902B	0DD060009AC	TVR06J -600V 250NSEC
D902G	0DD060009AC	TVR06J -600V 250NSEC
D902R	0DD060009AC	TVR06J -600V 250NSEC
D903	0DD060009AC	TVR06J -600V 250NSEC
D903B	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A
D903G	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A
D903R	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
D904B	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C112	0CE106DK618	10UF STD 50V M FL TP5
D904G	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C115	0CE477DD618	470UF STD 10V M FL TP5
D904R	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C115	0CE477DD618	470UF STD 10V M FL TP5
D905B	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C116	0CE108DD618	1000UF STD 10V M FL TP5
D905G	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C118	0CE225DK618	2.2UF STD 50V 20% FL TP 5
D905R	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C1201	0CE475DK618	4.7UF STD 50V 20% FL TP 5
D908B	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C1202	0CE475DK618	4.7UF STD 50V 20% FL TP 5
D908G	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C1203	0CE475DK618	4.7UF STD 50V 20% FL TP 5
D908R	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C1205	0CE475DK618	4.7UF STD 50V 20% FL TP 5
D911B	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C1206	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
D911G	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C1208	0CN2210K519	220P 50V K B TA52
D911R	0DR210009AC	BAV21 DO35 200V 0.2A 1A 50SEC 100A	C1209	0CN2210K519	220P 50V K B TA52
Q403	0DR500000CA	FMQ-G5GS 1700V 10A 50A 500USEC 500UA	C121	0CE106DF618	10UF STD 16V M FL TP5
Q411	0DR360000AA	FMG-36S - 2.2V 100NSEC 1.0MA	C125	0CE477DD618	470UF STD 10V M FL TP5
ZD100	0DZ330009DF	MTZJ33B DO34 0.5W 33V 5UA	C126	0CE106DK618	10UF STD 50V M FL TP5
ZD100	0DZ330009DF	MTZJ33B DO34 0.5W 33V 5UA	C129	0CE477DD618	470UF STD 10V M FL TP5
ZD101	0DZ330009DF	MTZJ33B DO34 0.5W 33V 5UA	C13	0CE476DD618	47UF STD 10V 20% FL TP 5
ZD2610	0DZRM00178A	UDZS TE-17 5.1BSMD 0.2W 5.1V 5MA	C131	0CH2103K516	10000P 50V K B 2.0X1.25 R/TP
ZD2611	0DZRM00178A	UDZS TE-17 5.1BSMD 0.2W 5.1V 5MA	C132	0CE227DF618	220UF STD 16V M FL TP5
ZD2612	0DZRM00178A	UDZS TE-17 5.1BSMD 0.2W 5.1V 5MA	C134	0CE227DF618	220UF STD 16V M FL TP5
ZD2805	0DZ240009DC	MTZJ2.4B DO34 0.5W 2	C140	0CE106DF618	10UF STD 16V M FL TP5
ZD401	0DZ910009AJ	MTZJ9.1B DO34 0.5W 9.1V 5UA	C142	0CE106DF618	10UF STD 16V M FL TP5
ZD404	0DZ240009DC	MTZJ2.4B DO34 0.5W 2	C158	0CE227DF618	220UF STD 16V M FL TP5
ZD405	0DZ510009DB	MTZJ5.1B DO34 - 5.1V 5UA	C163	0CE106DF618	10UF STD 16V M FL TP5
ZD406	0DZ510009DB	MTZJ5.1B DO34 - 5.1V 5UA	C167	0CE106DF618	10UF STD 16V M FL TP5
ZD407	0DZ820009AH	MTZJ8.2B DO34 - 8.2V 5UA	C174	0CE227DF618	220UF STD 16V M FL TP5
ZD410	0DZ560009CF	MTZJ5.6B DO34 0.5W 5.6V 5UA	C178	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
ZD411	0DZ130009CJ	MTZJ13B DO34 0.5W 13V 5UA	C18	0CE476DD618	47UF STD 10V 20% FL TP 5
ZD412	0DZ130009CJ	MTZJ13B DO34 0.5W 13V 5UA	C184	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
ZD503	0DZ910009AJ	MTZJ9.1B DO34 0.5W 9.1V 5UA	C186	0CE476DF618	47UF STD 16V M FL TP5
ZD831	0DZ620009BB	MTZJ6.2B DO34 0.5W 6.2V 5UA	C193	0CE106DF618	10UF STD 16V M FL TP5
ZD901B	0DZ560009CF	MTZJ5.6B DO34 0.5W 5.6V 5UA	C195	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
ZD901G	0DZ560009CF	MTZJ5.6B DO34 0.5W 5.6V 5UA	C196	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
ZD901R	0DZ560009CF	MTZJ5.6B DO34 0.5W 5.6V 5UA	C198	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
ZD902B	0DZ130009CJ	MTZJ13B DO34 0.5W 13V 5UA	C199	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
ZD902G	0DZ130009CJ	MTZJ13B DO34 0.5W 13V 5UA	C2032	0CC4710K405	470PF D 50V 5% SL TR
ZD902R	0DZ130009CJ	MTZJ13B DO34 0.5W 13V 5UA	C2033	0CC4710K405	470PF D 50V 5% SL TR
DT01	0DL112100AA	LED5R3411(DL-11S2RN1)	C2034	0CC4710K405	470PF D 50V 5% SL TR
CAPACITOR			C2035	0CC4710K405	470PF D 50V 5% SL TR
C01P	0CN1030F679	10000P 16V M Y TA52	C2036	0CC4710K405	470PF D 50V 5% SL TR
C02P	0CE476DD618	47UF STD 10V 20% FL TP 5	C2037	0CE108DJ618	1000UF STD 35V M FL TP5
C03	0CE476DD618	47UF STD 10V 20% FL TP 5	C2038	0CE108DJ618	1000UF STD 35V M FL TP5
C04	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C2050	0CE108DJ618	1000UF STD 35V M FL TP5
C05	0CE476DD618	47UF STD 10V 20% FL TP 5	C2052	0CE107DF618	100UF STD 16V M FL TP5
C06	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C2054	0CE107DF618	100UF STD 16V M FL TP5
C07	0CE476DD618	47UF STD 10V 20% FL TP 5	C2056	0CE107DF618	100UF STD 16V M FL TP5
C09	0CE107DD618	100UF STD 10V M FL TP5	C2060	0CE108DJ618	1000UF STD 35V M FL TP5
C10	0CE107DD618	100UF STD 10V M FL TP5	C2061	0CE108DJ618	1000UF STD 35V M FL TP5
C101	0CE227DF618	220UF STD 16V M FL TP5	C2063	0CK1030K945	0.01UF 50V Z F TR
C110	0CE225DK618	2.2UF STD 50V 20% FL TP 5	C2064	0CK1030K945	0.01UF 50V Z F TR
C112	0CE106DK618	10UF STD 50V M FL TP5	C2065	0CK1030K945	0.01UF 50V Z F TR
			C2066	0CK1030K945	0.01UF 50V Z F TR

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	CE : Electrolytic	RN : Metal Film
		RF : Fusible

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C2067	0CK1030K945	0.01UF 50V Z F TR	C272	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2069	0CK1030K945	0.01UF 50V Z F TR	C273	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2070	0CE477DD618	470UF STD 10V M FL TP5	C274	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2071	0CE477DD618	470UF STD 10V M FL TP5	C275	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2072	0CE477DD618	470UF STD 10V M FL TP5	C276	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2073	0CE477DD618	470UF STD 10V M FL TP5	C277	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2074	0CK1030K945	0.01UF 50V Z F TR	C2786	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C2075	0CK1030K945	0.01UF 50V Z F TR	C279	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2080	0CK1030K945	0.01UF 50V Z F TR	C285	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C2081	0CK1030K945	0.01UF 50V Z F TR	C286	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2082	0CK1030K945	0.01UF 50V Z F TR	C287	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C2094	0CK1030K945	0.01UF 50V Z F TR	C288	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2095	0CK1030K945	0.01UF 50V Z F TR	C289	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2096	0CK1030K945	0.01UF 50V Z F TR	C29	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2142	0CE107DF618	100UF STD 16V M FL TP5	C290	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2143	0CE107DF618	100UF STD 16V M FL TP5	C293	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2170	0CE475DK618	4.7UF STD 50V 20% FL TP 5	C294	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2202	0CE476DF618	47UF STD 16V M FL TP5	C295	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2207	0CE476DF618	47UF STD 16V M FL TP5	C296	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2210	0CE476DF618	47UF STD 16V M FL TP5	C2961	0CE227DD618	220UF STD 10V M FL TP5
C2215	0CE476DF618	47UF STD 16V M FL TP5	C297	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C225	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD	C298	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C226	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C299	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2406	0CE476DF618	47UF STD 16V M FL TP5	C300	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2409	0CE476DF618	47UF STD 16V M FL TP5	C301	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2410	0CE476DF618	47UF STD 16V M FL TP5	C302	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2413	0CE476DF618	47UF STD 16V M FL TP5	C303	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C26	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C304	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C260	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD	C305	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2605	0CE107DF618	100UF STD 16V M FL TP5	C306	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2606	0CE107DF618	100UF STD 16V M FL TP5	C307	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C261	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD	C308	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C262	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD	C309	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2621	0CE106DF618	10UF STD 16V M FL TP5	C310	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C2623	0CE227DF618	220UF STD 16V M FL TP5	C311	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C263	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C312	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C27	0CE476DD618	47UF STD 10V 20% FL TP 5	C312	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C2700	0CC4710K405	470PF D 50V 5% SL TR	C315	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C2701	0CE108DJ618	1000UF STD 35V M FL TP5	C316	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C2702	0CE108DJ618	1000UF STD 35V M FL TP5	C318	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C2703	0CE108DJ618	1000UF STD 35V M FL TP5	C318	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C2704	0CE225DK618	2.2UF STD 50V 20% FL TP 5	C319	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C2705	0CE225DK618	2.2UF STD 50V 20% FL TP 5	C32	0CE476DD618	47UF STD 10V 20% FL TP 5
C2706	0CK1510K515	150P 50V K B TS	C320	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2707	0CK1510K515	150P 50V K B TS	C322	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C2708	0CK1510K515	150P 50V K B TS	C324	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2709	0CK1510K515	150P 50V K B TS	C325	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C271	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C327	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2710	0CK1510K515	150P 50V K B TS	C328	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2711	0CK1510K515	150P 50V K B TS	C328	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C2712	0CK1030K945	0.01UF 50V Z F TR	C330	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2713	0CK1030K945	0.01UF 50V Z F TR	C331	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C332	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C420	0CE107DK618	100UF STD 50V M FL TP5
C333	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C421	0CE106DK618	10UF STD 50V M FL TP5
C334	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C421	0CE106DK618	10UF STD 50V M FL TP5
C339	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP	C423	0CE107DK618	100UF STD 50V M FL TP5
C340	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C424	0CK3320W515	3300P 500V K B TS
C342	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C425	0CE107DK618	100UF STD 50V M FL TP5
C343	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C426	0CE107DK618	100UF STD 50V M FL TP5
C344	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C427	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C345	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C42A	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C345	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C430	0CK47101515	470P 1KV K B TS
C346	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C432	0CN1020K519	1000P 50V K B TA52
C347	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C433	0CN1020K519	1000P 50V K B TA52
C348	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP	C435	0CQ1042K439	0.1UF S 50V 5% M/PE NI TP5
C355	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C436	181-015J	MPP 1600V 0.0086UF H
C355	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C437	0CN6810K519	680P 50V K B TA52
C356	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C438	0CQ1041N509	0.1UF D 100V 10% PE TP5
C357	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C440	0CK56101515	560P 1KV K B TS
C358	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C443	0CC1010K415	100P 50V J NP0 TS
C362	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C444	0CQ3321N509	0.0033UF D 100V 10% PE TP5
C363	0CE105SK6DC	1UF MVG 50V M SMD R/TP	C446	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C365	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C448	0CQ1031N509	0.01UF D 100V 10% PE TP5
C366	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C449	0CE105DK618	1UF STD 50V M FL TP5
C367	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C45	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C368	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C451	0CQ2721N409	0.0027UF D 100V 5% PE TP5
C370	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD	C452	0CE105DK618	1UF STD 50V M FL TP5
C371	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C455	0CQ1042K439	0.1UF S 50V 5% M/PE NI TP5
C372	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C461	0CK47202510	4700P 2KV K B S
C373	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C462	0CE226CR618	22UF SHL,SD 250V M FL TP 5
C374	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C464	181-015D	MPP 1600V 0.0062UF H
C380	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP	C466	0CE227DK618	220UF STD 50V M FL TP5
C381	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C467	0CE227DK618	220UF STD 50V M FL TP5
C387	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD	C468	181-009V	PP 200V 0.047UF K
C40	0CE476DD618	47UF STD 10V 20% FL TP 5	C469	181-007D	MPE ECQ-V1H154JL3(TR), 50V 0.15UF
C401	0CE6851K652	6.8UF SM,SA 50V 20% FM7.5 BP(S)	C46D	0CE107DF618	100UF STD 16V M FL TP5
C403	0CK47101515	470P 1KV K B TS	C46H	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C405	0CE107DK618	100UF STD 50V M FL TP5	C46K	0CE106DK618	10UF STD 50V M FL TP5
C406	181-013Y	MPP 0.82UF 400V 5%,-5% FM	C470	0CK3320W515	3300P 500V K B TS
C407	181-010S	0.0033UF 800V 5%,-5% FM PP	C471	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C409	181-009R	PP 200V 0.022UF K	C472	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C410	0CQ1041N509	0.1UF D 100V 10% PE TP5	C474	0CE107DK618	100UF STD 50V M FL TP5
C410	0CQ1041N509	0.1UF D 100V 10% PE TP5	C475	181-014N	MPP 1600V 0.01UF J
C411	181-091G	DEHR33D471KN3A 470PF 2KV 10%	C476	181-014N	MPP 1600V 0.01UF J
C412	0CE107DK618	100UF STD 50V M FL TP5	C477	0CK1810W515	180P 500V K B TS
C412	0CE107DK618	100UF STD 50V M FL TP5	C478	0CE227BP650	220UF KME TYPE 160V 20% FM7.5 BULK
C413	0CE477DF618	470UF STD 16V 20% FL TP 5	C478	0CE227BP650	220UF KME TYPE 160V 20% FM7.5 BULK
C414	0CE477DF618	470UF STD 16V 20% FL TP 5	C481	0CN6810K519	680P 50V K B TA52
C415	181-091G	DEHR33D471KN3A 470PF 2KV 10%	C481	0CN6810K519	680P 50V K B TA52
C416	0CQ3341N401	0.33UF D 100V 5% PE FM5	C484	0CE476DK618	47UF STD 50V M FL TP5
C417	0CE106DR618	10UF STD 250V M FL TP5	C486	0CE105DK618	1UF STD 50V M FL TP5
C418	0CE107DF618	100UF STD 16V M FL TP5	C491	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C419	0CE227DD618	220UF STD 10V M FL TP5	C493	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C42	0CE106DF618	10UF STD 16V M FL TP5	C49A	0CE106DK618	10UF STD 50V M FL TP5

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		RF : Fusible

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C49B	0CE106DK618	10UF STD 50V M FL TP5	C614	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C500	0CE477DD618	470UF STD 10V M FL TP5	C616	0CE476DF618	47UF STD 16V M FL TP5
C502	181-007H	MPE ECQ-V1H474JL3(TR), 50V 0.47UF	C618	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C503	0CE476DD618	47UF STD 10V 20% FL TP 5	C619	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C504	181-007H	MPE ECQ-V1H474JL3(TR), 50V 0.47UF	C620	0CE335DK618	3.3UF STD 50V 20% FL TP 5
C506	0CE475DK618	4.7UF STD 50V 20% FL TP 5	C621	0CE106DF618	10UF STD 16V M FL TP5
C507	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C622	0CE106DF618	10UF STD 16V M FL TP5
C508	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C623	0CE107DF618	100UF STD 16V M FL TP5
C509	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C624	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C510	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C629	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C511	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C634	0CE476DF618	47UF STD 16V M FL TP5
C512	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C649	0CE107DF618	100UF STD 16V M FL TP5
C513	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C651	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C514	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C662	0CE226DF618	22UF STD 16V M FL TP5
C515	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C663	0CE226DF618	22UF STD 16V M FL TP5
C516	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C668	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C517	0CE476DF618	47UF STD 16V M FL TP5	C670	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C518	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C671	0CE105DK618	1UF STD 50V M FL TP5
C519	0CE476DF618	47UF STD 16V M FL TP5	C676	0CE105DK618	1UF STD 50V M FL TP5
C521	0CE477DH618	470UF STD 25V M FL TP5	C676	0CE106DF618	10UF STD 16V M FL TP5
C522	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C677	0CE477DF618	470UF STD 16V 20% FL TP 5
C523	181-442Z	PE,ECQ-B1H104KF3(TR)	C678	0CE105DK618	1UF STD 50V M FL TP5
C524	181-442Z	PE,ECQ-B1H104KF3(TR)	C678	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C525	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C679	181-442Z	PE,ECQ-B1H104KF3(TR)
C527	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C686	0CE106DK618	10UF STD 50V M FL TP5
C528	181-007H	MPE ECQ-V1H474JL3(TR), 50V 0.47UF	C687	0CE106DK618	10UF STD 50V M FL TP5
C529	0CE226DF618	22UF STD 16V M FL TP5	C688	0CE227DF618	220UF STD 16V M FL TP5
C530	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C688	0CE227DH618	220UF STD 25V M FL TP5
C532	0CE227DF618	220UF STD 16V M FL TP5	C690	0CE227DD618	220UF STD 10V M FL TP5
C535	0CE106DK618	10UF STD 50V M FL TP5	C691	0CE227DD618	220UF STD 10V M FL TP5
C537	0CE476DD618	47UF STD 10V 20% FL TP 5	C700	0CE227DF618	220UF STD 16V M FL TP5
C539	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C702	0CE227DF618	220UF STD 16V M FL TP5
C541	0CQ4721N509	0.0047UF D 100V 10% PE TP5	C703	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C542	181-007H	MPE ECQ-V1H474JL3(TR), 50V 0.47UF	C709	0CE476DF618	47UF STD 16V M FL TP5
C545	0CE107DF618	100UF STD 16V M FL TP5	C711	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C546	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C718	0CE105DK618	1UF STD 50V M FL TP5
C547	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C719	0CE105DK618	1UF STD 50V M FL TP5
C549	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C720	0CE475CK636	4.7UF SHL,SD 50V 20% FM5 BP(D) TP
C550	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C721	0CE475CK636	4.7UF SHL,SD 50V 20% FM5 BP(D) TP
C552	0CE108DF618	1000UF STD 16V M FL TP5	C723	0CE105DK618	1UF STD 50V M FL TP5
C552	0CE228BF618	2200UF KME 16V M FL TP5	C724	0CE105DK618	1UF STD 50V M FL TP5
C553	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C725	0CE105DK618	1UF STD 50V M FL TP5
C554	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C726	0CE105DK618	1UF STD 50V M FL TP5
C555	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C727	0CE105DK618	1UF STD 50V M FL TP5
C556	0CE107DF618	100UF STD 16V M FL TP5	C728	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C557	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C730	0CE105DK618	1UF STD 50V M FL TP5
C558	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C734	0CE105DK618	1UF STD 50V M FL TP5
C559	0CE107DF618	100UF STD 16V M FL TP5	C735	0CE105DK618	1UF STD 50V M FL TP5
C560	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R	C740	0CE108DF618	1000UF STD 16V M FL TP5
C563	0CE476DF618	47UF STD 16V M FL TP5	C741	0CE227DF618	220UF STD 16V M FL TP5
C612	0CE106DF618	10UF STD 16V M FL TP5	C742	0CE108DH618	1000UF STD 25V M FL TP5
C613	0CE476DF618	47UF STD 16V M FL TP5	C743	0CE108DF618	1000UF STD 16V M FL TP5

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
C744	0CE477DD618	470UF STD 10V M FL TP5	C898	0CQ1041N509	0.1UF D 100V 10% PE TP5
C745	0CE477DD618	470UF STD 10V M FL TP5	C899	0CE475BP618	4.7UF KME TYPE 160V 20% FL TP 5
C802	0CE3366W650	33UF SMS,SG 500V 20% FM7.5 BULK	C901	0CE106BK618	10UF KME 50V M FL TP5
C803	181-001K	CE 450V 220UF M LUG(105)	C901B	0CE107DF618	100UF STD 16V M FL TP5
C804	181-011E	MPP 0.0033UF 1.6KV 5%,-5% FM PP	C901G	0CE107DF618	100UF STD 16V M FL TP5
C805	0CE476DK618	47UF STD 50V M FL TP5	C901R	0CE107DF618	100UF STD 16V M FL TP5
C805	0CE476BK618	47UF KME 50V M FL TP5	C902	0CE106DH618	10UF STD 25V M FL TP5
C806	0CK8210K515	820P 50V K B TS	C902B	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C807	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5	C902G	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C80A	0CQZVBK002B	A.C 275V 0.15UF K (S=22.5)	C902R	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C810	0CE476DK618	47UF STD 50V M FL TP5	C903	0CE107DH618	100UF STD 25V M FL TP5
C811	0CE476DK618	47UF STD 50V M FL TP5	C903B	0CK1030K945	0.01UF 50V Z F TR
C812	0CK8210K515	820P 50V K B TS	C903G	0CK1030K945	0.01UF 50V Z F TR
C813	181-010K	PP 0.01UF 630V 5% FM 7.5MM	C903R	0CK1030K945	0.01UF 50V Z F TR
C816	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5	C904	0CE107DF618	100UF STD 16V M FL TP5
C81B	0CQZVBK002B	A.C 275V 0.15UF K (S=22.5)	C904B	0CK1030K945	0.01UF 50V Z F TR
C81D	181-001K	CE 450V 220UF M LUG(105)	C904G	0CK1030K945	0.01UF 50V Z F TR
C82A	0CK10202510	1000P 2KV K B S	C904R	0CK1030K945	0.01UF 50V Z F TR
C82B	0CK10202510	1000P 2KV K B S	C905	0CE107DH618	100UF STD 25V M FL TP5
C82C	181-120N	1000PF 4KV M E FMTW LEAD4.5	C905B	0CC0500K115	5P 50V D NP0 TS
C82H	0CK10202510	1000P 2KV K B S	C905G	0CC0500K115	5P 50V D NP0 TS
C82J	0CK10202510	1000P 2KV K B S	C905R	0CC0200K115	2PF D 50V 0.5 PF NP0 TR
C830	181-120K	2200PF 4KV M E FMTW LEAD 4.5	C906	0CE106DP618	10UF STD 160V M FL TP5
C832	0CE337DF618	330UF STD 16V M FL TP5	C906B	0CE476DR618	47UF STD 250V 20% FL TP 5
C833	0CK10201515	1000P 1KV K B TS	C906G	0CE476DR618	47UF STD 250V 20% FL TP 5
C834	0CE475DK618	4.7UF STD 50V 20% FL TP 5	C906R	0CE476DR618	47UF STD 250V 20% FL TP 5
C841	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5	C907B	0CE106DR618	10UF STD 250V M FL TP5
C842	0CE228DF618	2200UF STD 16V M FL TP5	C907G	0CE106DR618	10UF STD 250V M FL TP5
C851	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5	C907R	0CE106DR618	10UF STD 250V M FL TP5
C852	0CE2286H61A	2200UF SMS,SG 25V 20% FL TP 7.5	C908	0CE107DF618	100UF STD 16V M FL TP5
C853	0CE108DF618	1000UF STD 16V M FL TP5	C908B	0CK5610W515	560P 500V K B TS
C854	0CE108DF618	1000UF STD 16V M FL TP5	C908G	0CK5610W515	560P 500V K B TS
C861	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5	C908R	0CK5610W515	560P 500V K B TS
C862	0CE228CL611	2200UF SHL,SD 63V M FL BK7.5	C909	0CE107DK618	100UF STD 50V M FL TP5
C863	0CE228CL611	2200UF SHL,SD 63V M FL BK7.5	C909B	0CK22202515	2200PF 2KV K B TR
C866	0CE475CK636	4.7UF SHL,SD 50V 20% FM5 BP(D) TP	C909G	0CK22202515	2200PF 2KV K B TR
C871	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5	C909R	0CK22202515	2200PF 2KV K B TR
C872	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5	C910	0CQ1031N509	0.01UF D 100V 10% PE TP5
C873	0CE228BK650	2200UF KME TYPE 50V 20% FM7.5 BULK	C910B	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C874	0CE228BK650	2200UF KME TYPE 50V 20% FM7.5 BULK	C910G	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C876	0CE105DK618	1UF STD 50V M FL TP5	C910R	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C881	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5	C911	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF
C882	0CE337DK618	330UF STD 50V M FL TP5	C911B	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C884	0CE337DK618	330UF STD 50V M FL TP5	C911G	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C888	0CE475BP618	4.7UF KME TYPE 160V 20% FL TP 5	C911R	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C889	0CN1030F679	10000P 16V M Y TA52	C912	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF
C891	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5	C912B	0CK1030W510	0.01U 500V K B S
C892	0CE227BP650	220UF KME TYPE 160V 20% FM7.5 BULK	C912G	0CK1030W510	0.01U 500V K B S
C893	0CE227BP650	220UF KME TYPE 160V 20% FM7.5 BULK	C912R	0CK1030W510	0.01U 500V K B S
C895	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5	C913	0CC1510K405	150PF 50V J SL TR
C896	0CE227BP650	220UF KME TYPE 160V 20% FM7.5 BULK	C914	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
C897	0CE107CP618	100U SHL 160V M FL TP5	C915	181-091N	SL 100PF 1KV 10%,-10% R/TP TP5

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LOCA. NO	PART NO	DESCRIPTION
C916	181-091N	SL 100PF 1KV 10%,-10% R/TP TP5
C917	0CK1030W510	0.01U 500V K B S
C917G	0CN4710K519	470P 50V K B TA52
C936	0CE107BP61A	100UF KME 160V M FL TP7.5
C941	0CK1030W510	0.01U 500V
CT01	0CX6800K409	68P 50V J SL TA52
CT02	0CX6800K409	68P 50V J SL TA52
CT03	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
CT04	0CE1074F618	100UF SRA 16V M FL TP5
CT05	0CN1040K949	0.1UF D 50V 80%,-20% F(Y5V) TA52
CT06	0CE1074F618	100UF SRA 16V M FL TP5
CX101	0CE107DF618	100UF STD 16V M FL TP5
CX102	0CE106DF618	10UF STD 16V M FL TP5
CX103	0CE106DF618	10UF STD 16V M FL TP5
CX104	0CE106DF618	10UF STD 16V M FL TP5
CX113	0CE106DF618	10UF STD 16V M FL TP5
CX114	0CE106DF618	10UF STD 16V M FL TP5
CX115	0CE106DF618	10UF STD 16V M FL TP5
CX124	0CE107DF618	100UF STD 16V M FL TP5
CX600	0CE226DK618	22UF STD 50V M FL TP5
CX600	0CE475DK618	4.7UF STD 50V 20% FL TP 5
CX601	0CQ1831N509	0.018UF D 100V 10% PE TP5
CX603	181-442Z	PE,ECQ-B1H104KF3(TR)
CX604	181-442Z	PE,ECQ-B1H104KF3(TR)
CX609	0CQ1831N509	0.018UF D 100V 10% PE TP5
CX610	0CE104DK618	0.1000UF STD 50V M FL TP5
CX611	0CE106DK618	10UF STD 50V M FL TP5
CX612	181-442Z	PE,ECQ-B1H104KF3(TR)
CX613	0CE106DK618	10UF STD 50V M FL TP5
CX615	0CE226DK618	22UF STD 50V M FL TP5
CX616	0CE226DK618	22UF STD 50V M FL TP5
CX617	0CE108DK61A	1000UF STD 50V M FL TP7.5
CX618	0CE108DK61A	1000UF STD 50V M FL TP7.5
CX619	181-442Z	PE,ECQ-B1H104KF3(TR)
CX630	0CE228DK650	2200UF STD 50V M FM7.5 BULK
J81J	0CK10202510	1000P 2KV K B S
J81K	0CK10202510	1000P 2KV K B S
R41L	0CN1020K519	1000P 50V K B TA52
R41L	0CN1020K519	1000P 50V K B TA52
ZD01P	0CN1020K519	1000P 50V K B TA52
COIL&TRANSFORMER		
L2700	150-C02F	82UH PHY TURN
L2701	150-C02F	82UH PHY TURN
L2702	150-C02F	82UH PHY TURN
L2703	150-C02F	82UH PHY TURN
L401	150-717J	CHOKE 560UH (E/W)
L402	6140VE0001Z	27.5TURN YL-9N 20-20
L405	150-717J	CHOKE 560UH (E/W)
L702	150-C02F	82UH PHY TURN
L703	150-C02F	82UH PHY TURN
L704	150-C02F	82UH PHY TURN

LOCA. NO	PART NO	DESCRIPTION
L861	150-C02F	82UH PHY TURN
L891	150-C02F	82UH PHY TURN
L892	150-C02F	82UH PHY TURN
L901	150-C02F	82UH PHY TURN
L902	150-C02F	82UH PHY TURN
L01P	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L100	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L100	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L102	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L1203	0LA0472K119	INDUCTOR, 47UH K 2.3*3.4 TP
L1204	0LA0472K119	INDUCTOR, 47UH K 2.3*3.4 TP
L261	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L265	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L2711	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L2712	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L404	0LA1001K139	INDUCTOR, 1000UH 10% A 4.0 X 10.5 TA52 -
L500	0LA0222K119	INDUCTOR, 22UH K 2.3*3.4 TP
L501	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L502	0LA0222K119	INDUCTOR, 22UH K 2.3*3.4 TP
L503	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L902B	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L902G	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L902R	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
LT01	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L852	6170VZ0005A	TRANSFORMER,HORIZONTAL DRIVERIRON-15
T401	6170VC0009A	TRANSFORMER,HORIZONTAL DRIVEREI-2519
T401	151-515A	TRANSFORMER,HORIZONTAL DRIVEREI 2519
T402	6170VC0009A	TRANSFORMER,HORIZONTAL DRIVEREI-2519
T405	6170VMCA13R	TRANSFORMER,SMPS[COIL]JEER4215 1.2UUH
T406	151-E06A	TRANSFORMER,POWEEER2834 0UH
T801	6170VMCC01F	TRANSFORMER,SMPS[COIL]JEER5345 220UUH
T805	6170VS0004B	TRANSFORMER,STAND-BYEE2229 2200UUH
T81A	6170VZ0008A	TRANSFORMER,HORIZONTAL DRIVERTS4841
T81B	6170VZ0008A	TRANSFORMER,HORIZONTAL DRIVERTS4841
CONNECTOR		
P100	6631V25A04A	14P 2.5MM 100MM H-B UL1007AWG26
P101	387-A08A	8P 2.5MM 100MM H-B UL1007AWG26
P401A	387-A08A	8P 2.5MM 100MM H-B UL1007AWG26
P403A	387-A09A	9P 2.5MM 100MM H-B UL1007AWG26
P404A	387-A07A	7P 2.5MM 100MM H-B UL1007AWG26
P411A	387-A06J	6P 2.5MM 500MM H-B UL1007AWG26
P500	6630N600132	DIN41612-B49-FL32 2.54MM FEMALE B-B
P501	6630N600132	DIN41612-B49-FL32 2.54MM FEMALE B-B
P502	387-B04H	ASSY,4P SHIELD WIRE (L=450)
P841A	6631V25A04A	14P 2.5MM 100MM H-B UL1007AWG26
P861A	387-A04A	4P 2.5MM 100MM H-B UL1007AWG26
P903A	6631V00017E	9P 2.5MM 300MM H-B UL1007 AWG26
P904A	6631V00017E	9P 2.5MM 300MM H-B UL1007 AWG26

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
RESISTOR					
AR01	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2719	0RD4701F609	4.7K OHM 1/6 W 5% TA52
AR01	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2720	0RD4701F609	4.7K OHM 1/6 W 5% TA52
AR02	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2721	0RD4701F609	4.7K OHM 1/6 W 5% TA52
AR02	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2722	0RD4701F609	4.7K OHM 1/6 W 5% TA52
AR03	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2723	0RD4701F609	4.7K OHM 1/6 W 5% TA52
AR03	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2724	0RD4701F609	4.7K OHM 1/6 W 5% TA52
AR04	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2725	0RS0391K607	3.9 OHM 2 W 5.00% TA62
AR04	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2726	0RS0391K607	3.9 OHM 2 W 5.00% TA62
AR05	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2727	0RS0391K607	3.9 OHM 2 W 5.00% TA62
AR05	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2728	0RS0391K607	3.9 OHM 2 W 5.00% TA62
AR06	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2729	0RS0391K607	3.9 OHM 2 W 5.00% TA62
AR06	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2730	0RS0391K607	3.9 OHM 2 W 5.00% TA62
AR07	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2731	0RS0391K607	3.9 OHM 2 W 5.00% TA62
AR08	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2732	0RS0391K607	3.9 OHM 2 W 5.00% TA62
AR09	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2733	0RS0391K607	3.9 OHM 2 W 5.00% TA62
AR10	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2734	0RS0391K607	3.9 OHM 2 W 5.00% TA62
AR11	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100	R2735	0RS0391K607	3.9 OHM 2 W 5.00% TA62
L204	0RN1001G509	1K OHM 1/4 W 2.00% TA52	R2736	0RS0391K607	3.9 OHM 2 W 5.00% TA62
L403	0RF0111K607	1.1 OHM 2 W 5.00% TA62	R2737	0RS2200K607	220 OHM 2 W 5.00% TA62
R114	0RD2201H609	2.2K OHM 1/2 W 5.00% TA52	R2738	0RS2200K607	220 OHM 2 W 5.00% TA62
R114	0RD2201H609	2.2K OHM 1/2 W 5.00% TA52	R2739	0RS2200K607	220 OHM 2 W 5.00% TA62
R1201	0RD0752F609	75 OHM 1/6 W 5.00% TA52	R2740	0RS2200K607	220 OHM 2 W 5.00% TA62
R1202	0RD0752F609	75 OHM 1/6 W 5.00% TA52	R2741	0RS2200K607	220 OHM 2 W 5.00% TA62
R1203	0RD0752F609	75 OHM 1/6 W 5.00% TA52	R2742	0RS2200K607	220 OHM 2 W 5.00% TA62
R1204	0RD2403F609	240K OHM 1/6 W 5.00% TA52	R2743	0RS2200K607	220 OHM 2 W 5.00% TA62
R1205	0RD2403F609	240K OHM 1/6 W 5.00% TA52	R2744	0RS2200K607	220 OHM 2 W 5.00% TA62
R127	0RD2201H609	2.2K OHM 1/2 W 5.00% TA52	R2745	0RS2200K607	220 OHM 2 W 5.00% TA62
R2095	0RF0470K607	0.47 OHM 2 W 5.00% TA62	R2746	0RS2200K607	220 OHM 2 W 5.00% TA62
R2096	0RF0470K607	0.47 OHM 2 W 5.00% TA62	R2747	0RS2200K607	220 OHM 2 W 5.00% TA62
R260	0RS0102K607	10 OHM 2 W 5.00% TA62	R2748	0RD1000F609	100 OHM 1/6 W 5% TA52
R261	0RS0102K607	10 OHM 2 W 5.00% TA62	R2792	0RD1002F609	10K OHM 1/6 W 5% TA52
R2700	0RS2200K607	220 OHM 2 W 5.00% TA62	R2793	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2701	0RD1000F609	100 OHM 1/6 W 5% TA52	R2794	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2702	0RD1000F609	100 OHM 1/6 W 5% TA52	R2795	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2703	0RD1001F609	1K OHM 1/6 W 5% TA52	R316	0RN1002F409	10K OHM 1/6 W 1.00% TA52
R2704	0RD1001F609	1K OHM 1/6 W 5% TA52	R400	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
R2705	0RD1001F609	1K OHM 1/6 W 5% TA52	R401	0RD1200H609	120 OHM 1/2 W 5.00% TA52
R2706	0RD1001F609	1K OHM 1/6 W 5% TA52	R402	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R2707	0RD1001F609	1K OHM 1/6 W 5% TA52	R403	0RD1200H609	120 OHM 1/2 W 5.00% TA52
R2708	0RD1001F609	1K OHM 1/6 W 5% TA52	R403	0RS2200K607	220 OHM 2 W 5.00% TA62
R2709	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52	R404	0RD6200F609	620 OHM 1/6 W 5.00% TA52
R2710	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52	R405	0RS3902K607	39K OHM 2 W 5.00% TA62
R2711	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52	R405	0RS3902K607	39K OHM 2 W 5.00% TA62
R2712	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52	R406	0RS3902K607	39K OHM 2 W 5.00% TA62
R2713	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52	R407	0RS3902K607	39K OHM 2 W 5.00% TA62
R2714	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52	R408	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R2715	0RD4701F609	4.7K OHM 1/6 W 5% TA52	R409	0RS5101H609	5.1K OHM 1/2 W 5.00% TA52
R2716	0RD4701F609	4.7K OHM 1/6 W 5% TA52	R40A	0RD4702F609	47K OHM 1/6 W 5% TA52
R2717	0RD2702F609	27K OHM 1/6 W 5.00% TA52	R40C	0RD7501F609	7.5K OHM 1/6 W 5.00% TA52
R2718	0RD2702F609	27K OHM 1/6 W 5.00% TA52	R40C	0RD7501F609	7.5K OHM 1/6 W 5.00% TA52
			R40D	0RD1800F609	180 OHM 1/6 W 5.00% TA52
			R40E	0RD7502H609	75K OHM 1/2 W 5.00% TA52

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

LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
R40F	0RS1002H609	10K OHM 1/2 W 5.00% TA52	R431	0RS0101H609	1 OHM 1/2 W 5.00% TA52
R40F	0RS1002H609	10K OHM 1/2 W 5.00% TA52	R432	0RD4700H609	470 OHM 1/2 W 5.00% TA52
R40G	0RD0682F609	68 OHM 1/6 W 5.00% TA52	R432	0RD4700H609	470 OHM 1/2 W 5.00% TA52
R40H	0RD3300F609	330 OHM 1/6 W 5.00% TA52	R433	0RF0561K607	5.6 OHM 2 W 5.00% TA62
R40I	0RD4701F609	4.7K OHM 1/6 W 5% TA52	R434	0RF0121K607	1.2 OHM 2 W 5.00% TA62
R40J	0RD4701F609	4.7K OHM 1/6 W 5% TA52	R435	0RN5601F409	5.6K OHM 1/6 W 1.00% TA52
R40K	0RD2403H609	240K OHM 1/2 W 5.00% TA52	R436	0RD1102F609	11K OHM 1/6 W 5.00% TA52
R40L	0RD1501F609	1.5K OHM 1/6 W 5% TA52	R437	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R40M	0RD2001H609	2K OHM 1/2 W 5.00% TA52	R438	0RD2001F609	2K OHM 1/6 W 5% TA52
R40N	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52	R439	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R40P	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52	R440	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R40Q	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52	R441	0RD1102F609	11K OHM 1/6 W 5.00% TA52
R40Q	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52	R442	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R40T	0RD1001F609	1K OHM 1/6 W 5% TA52	R443	0RD0472F609	47 OHM 1/6 W 5% TA52
R40T	0RD1001F609	1K OHM 1/6 W 5% TA52	R445	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R40U	0RD1602F609	16K OHM 1/6 W 5.00% TA52	R449	0RD1002F609	10K OHM 1/6 W 5% TA52
R40V	0RD2401F609	2.4K OHM 1/6 W 5.00% TA52	R450	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R40W	0RD2002F609	20K OHM 1/6 W 5.00% TA52	R451	0RD1001F609	1K OHM 1/6 W 5% TA52
R40W	0RD2002F609	20K OHM 1/6 W 5.00% TA52	R452	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R40X	0RD0102F609	10 OHM 1/6 W 5% TA52	R453	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R40Y	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52	R454	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R40Z	0RD4700H609	470 OHM 1/2 W 5.00% TA52	R454	0RS0470H609	0.47 OHM 1/2 W 5.00% TA52
R410	0RS6801K607	6.8K OHM 2 W 5.00% TA62	R455	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R411	0RD1502H609	15K OHM 1/2 W 5.00% TA52	R457	0RD1000F609	100 OHM 1/6 W 5% TA52
R412	0RD2201H609	2.2K OHM 1/2 W 5.00% TA52	R458	0RD3003F609	300K OHM 1/6 W 5.00% TA52
R413	0RS3902K607	39K OHM 2 W 5.00% TA62	R459	0RD1002F609	10K OHM 1/6 W 5% TA52
R414	0RF0201K607	2 OHM 2 W 5.00% TA62	R460	0RD3302F609	33K OHM 1/6 W 5% TA52
R415	0RF0201K607	2 OHM 2 W 5.00% TA62	R461	0RD1002F609	10K OHM 1/6 W 5% TA52
R416	180-C02M	5.6K OHM 1/2 W 10% TA52	R463	0RD1001F609	1K OHM 1/6 W 5% TA52
R417	0RD1501H609	1.5K OHM 1/2 W 5.00% TA52	R464	0RD2001F609	2K OHM 1/6 W 5% TA52
R418	0RD1002F609	10K OHM 1/6 W 5% TA52	R464	0RD1201F609	1.2K OHM 1/6 W 5% TA52
R418	0RD8201F609	8.2K OHM 1/6 W 5.00% TA52	R465	0RD4700F609	470 OHM 1/6 W 0.05 TA52
R419	0RS0221H609	2.2 OHM 1/2 W 5.00% TA52	R466	0RD1001F609	1K OHM 1/6 W 5% TA52
R41A	0RD1000F609	100 OHM 1/6 W 5% TA52	R467	0RD1000F609	100 OHM 1/6 W 5% TA52
R41B	0RD1001F609	1K OHM 1/6 W 5% TA52	R468	0RD4700F609	470 OHM 1/6 W 0.05 TA52
R41C	0RD1200H609	120 OHM 1/2 W 5.00% TA52	R468	0RD4700F609	470 OHM 1/6 W 0.05 TA52
R41D	0RD1002F609	10K OHM 1/6 W 5% TA52	R469	0RS3900K607	390 OHM 2 W 5.00% TA62
R41E	0RD1200H609	120 OHM 1/2 W 5.00% TA52	R46A	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R41G	0RD2200H609	220 OHM 1/2 W 5.00% TA52	R46D	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R41K	0RD8202F609	82K OHM 1/6 W 5.00% TA52	R470	0RS2002H609	20K OHM 1/2 W 5.00% TA52
R41P	0RD1200H609	120 OHM 1/2 W 5.00% TA52	R473	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R41R	0RD1200H609	120 OHM 1/2 W 5.00% TA52	R474	0RD2701H609	2.7K OHM 1/2 W 5.00% TA52
R420	0RD3302F609	33K OHM 1/6 W 5% TA52	R475	0RD2200H609	220 OHM 1/2 W 5.00% TA52
R421	0RD0102F609	10 OHM 1/6 W 5% TA52	R476	0RS3900K607	390 OHM 2 W 5.00% TA62
R423	0RS1500K607	150 OHM 2 W 5.00% TA62	R477	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R425	0RF0111K607	1.1 OHM 2 W 5.00% TA62	R478	0RS2001K607	2K OHM 2 W 5.00% TA62
R425	0RF0141K607	1.4 OHM 2 W 5.00% TA62	R479	0RD5601F609	5.6K OHM 1/6 W 5% TA52
R426	0RF0121K607	1.2 OHM 2 W 5.00% TA62	R480	0RS2001K607	2K OHM 2 W 5.00% TA62
R428	0RN5601F409	5.6K OHM 1/6 W 1.00% TA52	R481	0RS3902K607	39K OHM 2 W 5.00% TA62
R429	0RD1303F609	130K OHM 1/6 W 5.00% TA52	R482	0RS3902K607	39K OHM 2 W 5.00% TA62
R42A	0RD4701F609	4.7K OHM 1/6 W 5% TA52	R483	0RN2002F409	20K OHM 1/6 W 1.00% TA52
R430	0RS4702H609	47K OHM 1/2 W 5.00% TA52	R484	0RN9102F409	91K OHM 1/6 W 1.00% TA52

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LOCA. NO	PART NO	DESCRIPTION	LOCA. NO	PART NO	DESCRIPTION
R485	0RS0561K607	5.6 OHM 2 W 5.00% TA62	R892	0RN1801F409	1.8K OHM 1/6 W 1.00% TA52
R486	0RS1002H609	10K OHM 1/2 W 5.00% TA52	R893	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R487	0RS0561K607	5.6 OHM 2 W 5.00% TA62	R894	0RD2001F609	2K OHM 1/6 W 5% TA52
R487	0RS0202K607	20 OHM 2 W 5.00% TA62	R895	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R488	180-A01B	RW ROUND G 2W 0.11 K TA31(63)	R897	0RS3301K607	3.3K OHM 2 W 5.00% TA62
R488	180-A01E	2 W RW ROUND G 2W 0.33J TA31(63)	R898	0RS3301K607	3.3K OHM 2 W 5.00% TA62
R489	0RD0472F609	47 OHM 1/6 W 5% TA52	R899	0RS0161K607	1.6 OHM 2 W 5.00% TA62
R490	0RN2202F409	22K OHM 1/6 W 1.00% TA52	R901	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R491	180-A01B	RW ROUND G 2W 0.11 K TA31(63)	R901B	0RD1000F609	100 OHM 1/6 W 5% TA52
R492	0RD1303F609	130K OHM 1/6 W 5.00% TA52	R901G	0RD1000F609	100 OHM 1/6 W 5% TA52
R493	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52	R901R	0RD1000F609	100 OHM 1/6 W 5% TA52
R494	0RF0121H609	1.2 OHM 1/2 W 5.00% TA52	R902	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R495	0RD1001F609	1K OHM 1/6 W 5% TA52	R902B	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R496	0RD1602F609	16K OHM 1/6 W 5.00% TA52	R902G	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R497	0RD7501F609	7.5K OHM 1/6 W 5.00% TA52	R902R	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R498	0RS2702H609	27K OHM 1/2 W 5.00% TA52	R903	0RD1200F609	120 OHM 1/6 W 5.00% TA52
R499	0RD2002F609	20K OHM 1/6 W 5.00% TA52	R903B	0RN3001F409	3K OHM 1/6 W 1.00% TA52
R694	0RD1001H609	1K OHM 1/2 W 5.00% TA52	R903G	0RN3001F409	3K OHM 1/6 W 1.00% TA52
R695	0RD1001H609	1K OHM 1/2 W 5.00% TA52	R903R	0RN3001F409	3K OHM 1/6 W 1.00% TA52
R802	0RD1001F609	1K OHM 1/6 W 5% TA52	R904	0RD1002F609	10K OHM 1/6 W 5% TA52
R803	180-A01D	RW ROUND G 2W 0.16 J TA31(63)	R904B	0RD6200F609	620 OHM 1/6 W 5.00% TA52
R804	180-A01D	RW ROUND G 2W 0.16 J TA31(63)	R904G	0RD6200F609	620 OHM 1/6 W 5.00% TA52
R805	0RD0562H609	56 OHM 1/2 W 5.00% TA52	R904R	0RD6200F609	620 OHM 1/6 W 5.00% TA52
R807	0RD4701F609	4.7K OHM 1/6 W 5% TA52	R905	0RD4700F609	470 OHM 1/6 W 0.05 TA52
R808	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52	R905	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R811	0RD1802F609	18K OHM 1/6 W 5.00% TA52	R905B	0RD0102F609	10 OHM 1/6 W 5% TA52
R815	0RD1001F609	1K OHM 1/6 W 5% TA52	R905G	0RD0102F609	10 OHM 1/6 W 5% TA52
R817	0RD1003H609	100K OHM 1/2 W 5.00% TA52	R905R	0RD0102F609	10 OHM 1/6 W 5% TA52
R818	0RD1003H609	100K OHM 1/2 W 5.00% TA52	R906	0RD0622F609	62 OHM 1/6 W 5.00% TA52
R819	0RS0470H609	0.47 OHM 1/2 W 5.00% TA52	R906B	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R81A	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52	R906G	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R820	0RS1203K607	120K OHM 2 W 5.00% TA62	R906R	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R821	0RS0331H609	3.3 OHM 1/2 W 5.00% TA52	R907	0RD1001F609	1K OHM 1/6 W 5% TA52
R827	0RD0681H609	6.8 OHM 1/2 W 5.00% TA52	R907B	0RD1203F609	120K OHM 1/6 W 5.00% TA52
R828	0RD2001H609	2K OHM 1/2 W 5.00% TA52	R907G	0RD1203F609	120K OHM 1/6 W 5.00% TA52
R829	0RD1001F609	1K OHM 1/6 W 5% TA52	R907R	0RD1203F609	120K OHM 1/6 W 5.00% TA52
R830	180-C02J	ERC12GK106V(RC 1/2W 10M K TA)	R908	0RD0472F609	47 OHM 1/6 W 5% TA52
R831	0RD1001F609	1K OHM 1/6 W 5% TA52	R908B	0RD1001F609	1K OHM 1/6 W 5% TA52
R832	0RD4701F609	4.7K OHM 1/6 W 5% TA52	R908G	0RD1001F609	1K OHM 1/6 W 5% TA52
R833	0RD4701F609	4.7K OHM 1/6 W 5% TA52	R908R	0RD1001F609	1K OHM 1/6 W 5% TA52
R834	0RD7500F609	750 OHM 1/6 W 5% TA52	R909B	0RS4702K607	47K OHM 2 W 5.00% TA62
R835	0RD9100F609	910 OHM 1/6 W 5.00% TA52	R909G	0RS4702K607	47K OHM 2 W 5.00% TA62
R837	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52	R909R	0RS4702K607	47K OHM 2 W 5.00% TA62
R839	0RD1501F609	1.5K OHM 1/6 W 5% TA52	R910B	0RS3901H609	3.9K OHM 1/2 W 5.00% TA52
R840	0RD1002F609	10K OHM 1/6 W 5% TA52	R910G	0RS3901H609	3.9K OHM 1/2 W 5.00% TA52
R851	0RD1501F609	1.5K OHM 1/6 W 5% TA52	R910R	0RS3901H609	3.9K OHM 1/2 W 5.00% TA52
R851	0RD9100F609	910 OHM 1/6 W 5.00% TA52	R911	0RS4700K607	470 OHM 2 W 5.00% TA62
R861	180-777H	RWR 7W 910 J VERT	R911B	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R871	0RD4302F609	43K OHM 1/6 W 5.00% TA52	R911G	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R872	0RD5602F609	56K OHM 1/6 W 5% TA52	R911R	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R887	0RD4701F609	4.7K OHM 1/6 W 5% TA52	R912	0RS4700K607	470 OHM 2 W 5.00% TA62
R891	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52	R912B	0RD1004H609	1M OHM 1/2 W 5.00% TA52

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

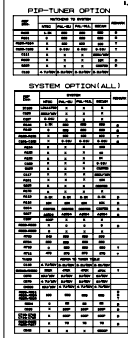
LOCA. NO	PART NO	DESCRIPTION
R912G	0RD1004H609	1M OHM 1/2 W 5.00% TA52
R912R	0RD1004H609	1M OHM 1/2 W 5.00% TA52
R913	0RS4700K607	470 OHM 2 W 5.00% TA62
R913B	0RF0820H609	0.82 OHM 1/2 W 5.00% TA52
R913G	0RF0820H609	0.82 OHM 1/2 W 5.00% TA52
R913R	0RF0820H609	0.82 OHM 1/2 W 5.00% TA52
R914B	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52
R914G	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52
R914R	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52
R915B	0RD1003H609	100K OHM 1/2 W 5.00% TA52
R915G	0RD1003H609	100K OHM 1/2 W 5.00% TA52
R915R	0RD1003H609	100K OHM 1/2 W 5.00% TA52
R916B	0RD3900F609	390 OHM 1/6 W 5% TA52
R916G	0RD3900F609	390 OHM 1/6 W 5% TA52
R916R	0RD3900F609	390 OHM 1/6 W 5% TA52
R918G	0RD1002F609	10K OHM 1/6 W 5% TA52
R919B	0RD6201F609	6.2K OHM 1/6 W 5.00% TA52
R919G	0RD6201F609	6.2K OHM 1/6 W 5.00% TA52
R919R	0RD6201F609	6.2K OHM 1/6 W 5.00% TA52
R920B	0RD1101F609	1.1K OHM 1/6 W 5.00% TA52
R920G	0RD1101F609	1.1K OHM 1/6 W 5.00% TA52
R920R	0RD1101F609	1.1K OHM 1/6 W 5.00% TA52
R921B	0RD2001F609	2K OHM 1/6 W 5% TA52
R921G	0RD2001F609	2K OHM 1/6 W 5% TA52
R921R	0RD2001F609	2K OHM 1/6 W 5% TA52
R922B	0RF0102K607	10 2W 5% TA62
R922G	0RF0102K607	10 2W 5% TA62
R922R	0RF0102K607	10 2W 5% TA62
R923B	0RCZVTA002E	4.7K OHM 1/2 W 10% TA52
R923G	0RCZVTA002E	4.7K OHM 1/2 W 10% TA52
R923R	0RCZVTA002E	4.7K OHM 1/2 W 10% TA52
R925B	0RD1002F609	10K OHM 1/6 W 5% TA52
R925G	0RD1002F609	10K OHM 1/6 W 5% TA52
R926B	DRC1001H609	1K OHM 1/2 W 5.00% TA52
R926G	DRC1001H609	1K OHM 1/2 W 5.00% TA52
R926R	DRC1001H609	1K OHM 1/2 W 5.00% TA52
RT01	0RD8200F609	820 OHM 1/6 W 5.00% TA52
RT03	0RD4700F609	470 OHM 1/6 W 0.05 TA52
RT04	0RD4700F609	470 OHM 1/6 W 0.05 TA52
RT05	0RD1002F609	10K OHM 1/6 W 5% TA52
RT07	0RD1000F609	100 OHM 1/6 W 5% TA52
RT08	0RD1000F609	100 OHM 1/6 W 5% TA52
RT09	0RD1000F609	100 OHM 1/6 W 5% TA52
RT10	0RD1000F609	100 OHM 1/6 W 5% TA52
RT11	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT12	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT13	0RD1000F609	100 OHM 1/6 W 5% TA52
RT14	0RD1000F609	100 OHM 1/6 W 5% TA52
RT15	0RD1000F609	100 OHM 1/6 W 5% TA52
RT16	0RD1000F609	100 OHM 1/6 W 5% TA52
RT17	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT18	0RD4701F609	4.7K OHM 1/6 W 5% TA52

LOCA. NO	PART NO	DESCRIPTION
RT19	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT20	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT21	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT22	0RD1000F609	100 OHM 1/6 W 5% TA52
RX644	180-777H	RWR 7W 910 J VERT
VR401	0RV1103D550	10K OHM 6 AG L3P5, 2.5
FILTER & CRYSTAL		
FB2000	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB2001	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB2002	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB2003	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB2004	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB2005	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB2006	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB2007	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB2008	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB2009	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB2010	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB2011	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB401	125-123A	FERRITE BFD3565R2F(TAPING)
FB402	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB403	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB801	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB802	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB803	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB805	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB841	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB851	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB852	125-123A	FERRITE BFD3565R2F(TAPING)
FB861	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB871	125-123A	FERRITE BFD3565R2F(TAPING)
FB872	125-123A	FERRITE BFD3565R2F(TAPING)
FB881	125-123A	FERRITE BFD3565R2F(TAPING)
FB882	125-123A	FERRITE BFD3565R2F(TAPING)
FB891	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB892	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB901B	125-123A	FERRITE BFD3565R2F(TAPING)
FB901G	125-123A	FERRITE BFD3565R2F(TAPING)
FB901R	125-123A	FERRITE BFD3565R2F(TAPING)
FB905B	125-123A	FERRITE BFD3565R2F(TAPING)
FB905G	125-123A	FERRITE BFD3565R2F(TAPING)
FB905R	125-123A	FERRITE BFD3565R2F(TAPING)
FB931	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB932	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB933	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB934	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB935	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
FB936	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
L01	6210VC0006A	FBMH3216 HM501NT
L101	6210VC0006A	FBMH3216 HM501NT
L106	6210VC0006A	FBMH3216 HM501NT

LOCA. NO	PART NO	DESCRIPTION
L108	6210VC0006A	FBMH3216 HM501NT
L117	6210VC0006A	FBMH3216 HM501NT
L2007	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L2008	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L2009	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L2010	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L2011	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L2012	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L2013	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L2014	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L2018	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L2021	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L2027	125-022K	FERRITE 62MM 1UH NY 3.5X6.0MM
L2028	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L205	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L206	6210TCT002B	ACB2012M-300-T TDK , CHIP BEAD,LCD
L206	6210VC0006A	FBMH3216 HM501NT
L260	6210VC0006A	FBMH3216 HM501NT
L262	6210VC0006A	FBMH3216 HM501NT
L263	6210VC0006A	FBMH3216 HM501NT
L264	6210VC0006A	FBMH3216 HM501NT
L266	6210VC0006A	FBMH3216 HM501NT
L267	6210VC0006A	FBMH3216 HM501NT
L268	6210VC0006A	FBMH3216 HM501NT
L269	6210VC0006A	FBMH3216 HM501NT
L270	6210VC0006A	FBMH3216 HM501NT
L600	6210VC0006A	FBMH3216 HM501NT
L601	6210VC0006A	FBMH3216 HM501NT
L608	6210VC0006A	FBMH3216 HM501NT
L609	6210VC0006A	FBMH3216 HM501NT
L610	6210VC0006A	FBMH3216 HM501NT
L700	6210VC0006A	FBMH3216 HM501NT
L701	6210VC0006A	FBMH3216 HM501NT
L81A	150-F06T	SQE3535 20MH PHY TURN
L81B	150-F06T	SQE3535 20MH PHY TURN
L81C	150-F06T	SQE3535 20MH PHY TURN
LX100	6210VC0006A	FBMH3216 HM501NT
LX105	6210VC0006A	FBMH3216 HM501NT
Z260	6200VKR001A	LPF 1EA SMD H354LAI-K5206
Z261	6200VKR001B	LPF 2EA SMD TH355LSK-K5214
Z262	6200VKR001A	LPF 1EA SMD H354LAI-K5206
X01	156-A01L	CRYSTAL, HC49U 6.000MHZ 30PPM 16PF BK
X260	6202VDB007B	CRYSTAL, HC49U 20.250MHZ 30PPM 13PF BK
X261	166-E02F	CERAMIC, CSBLA500KECZF09-B0 CSB500F9
X262	156-A01E	CRYSTAL, HC49U 4.000MHZ 30PPM 15PF BK
X500	6212BA2002C	CERAMIC, CSALA2M69G4ZF01-B0 2.69MHZ
X600	156-A02R	CRYSTAL, HC49U 18.432MHZ 30PPM 16PF BK
SWITCH		
SW800	140-289A	PUSHPOWER SDDF3PASP013 LG C&D UL/C
SWT01	140-313B	TACT 2LEAD 160G(TA)
SWT02	140-313B	TACT 2LEAD 160G(TA)

LOCA. NO	PART NO	DESCRIPTION
SWT03	140-313B	TACT 2LEAD 160G(TA)
SWT04	140-313B	TACT 2LEAD 160G(TA)
SWT05	140-313B	TACT 2LEAD 160G(TA)
SWT06	140-313B	TACT 2LEAD 160G(TA)
SWT07	140-313B	TACT 2LEAD 160G(TA)
SWT08	140-313B	TACT 2LEAD 160G(TA)
JACK		
JA1201	6613V00010D	JACK ASSEMBLY PMJ-016D A/V 3P+S-VHS
JK100	6612VMH002A	JACK,SCART PMJ020A 2X21 PIN ABOVE 4.5MM
JK600	6613V00011A	JACK ASSY PMJ018A 21P SCART+A/V
JKX100	6612VJH022C	JACK,RCAPPJ125C 2X5 10PIN,COMPO-6,AD-4
SPARK		
SG401	6918VAX002B	SSA-102N-A1 1000V 30% 5MM
SG402	6918VAX002B	SSA-102N-A1 1000V 30% 5MM
SG901B	6918VAX002D	WSP-301M 300V 20% 5MM
SG901G	6918VAX002D	WSP-301M 300V 20% 5MM
SG901R	6918VAX002D	WSP-301M 300V 20% 5MM
SG902B	6918VAX002B	SSA-102N-A1 1000V 30% 5MM
SG902G	6918VAX002B	SSA-102N-A1 1000V 30% 5MM
SG902R	6918VAX002B	SSA-102N-A1 1000V 30% 5MM
SG903B	6918VAX002D	WSP-301M 300V 20% 5MM
SG903G	6918VAX002D	WSP-301M 300V 20% 5MM
SG903R	6918VAX002D	WSP-301M 300V 20% 5MM
ACCESSORIES		
A1	3828VA0510F	MANUAL,OWNERS RE-44NB10RB.SPMLMI2
	3828VA0510J	MANUAL,OWNERS RL-44NB10RB
	3828VA0510L	MANUAL,OWNERS RE-44NB10RB
A2	6710V00136B	REMOTE CONTROLLERMP03AB
MISCELLANEOUS		
T403	6174V-5007B	FBT(FLY BACK TRANSFORMER), BSC30-N2548
F800	0FS5001B51D	FUSE,SLOW BLOW5000MA 250 V 5.2X20
SCR, 1B	5240VE0003C	LEAD SET, UL 1032 AWG 22
SCR, 1G	5240VE0003D	LEAD SET, UL 1032 AWG 22
SCR, 1R	5240VE0003J	LEAD SET, UL 1032 AWG 22
PA01P	6726VH0001A	REMOTE CONTROLLER RECEIVER
SCR, 1	6030V00003A	SCR, P0102BA 200V 0.8A TO-92
SCR, 2	6030V00003A	SCR, P0102BA 200V 0.8A TO-92
SCR, 2	6030V00003A	SCR, P0102BA 200V 0.8A TO-92
SK901B	381-226L	SOCKET (CIRC),CPTPCS628-03L(W/BAND)100K
SK901G	381-226L	SOCKET (CIRC),CPTPCS628-03L(W/BAND)100K
SK901R	381-226L	SOCKET (CIRC),CPTPCS628-03L(W/BAND)100K
NTC80A	163-048D	THERMISTOR,NTCKL15L2R5
NTC80B	163-048D	THERMISTOR,NTCKL15L2R5
TU100	6700MF0001F	TUNER, TAUD-M230D
TU101	6700MF0001G	TUNER, TAFD-M231P
VA800	164-003D	VARISTOR, SVC561D-14A UL/CSA/VDE
VA81B	164-003D	VARISTOR, SVC561D-14A UL/CSA/VDE

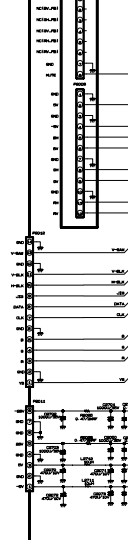
MPO3AA/MPO3AB



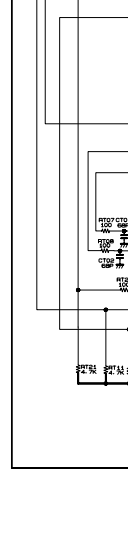
MPO3AA/AB DIGITAL CONVERGENCE



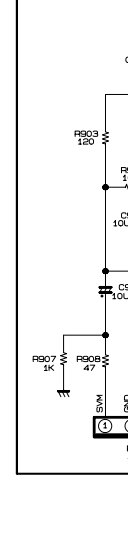
Convergence_OUT BOARD



MP-03AA/03AB KEY CONTROL



MPO3AA/AB SVM BOARD



DIGITAL BOARD
MP03AA/MP03AB

30-CONV FILTER OPTION

IC200
LFC640B4

IC262
VSP5427B

H-FILTER OPTION

IC265
LQDT1000B

COMPONENT OPTION

IC266
CX42151Q

DOUBLE REFERENCE

30-CONV

DIGITAL BOARD
MP03AA/MP03AB

SMP5+DEF B/D MP-03AA/AB

Mode1 : RT-40NZ60RB/44NA13RB/44NA23RB/44NA43RB/RU-40NZ60

AC-INPUT/REACTOR B/D

LOCATED ON SYB

HV BLOCK

Y-SIZE OPTION

The schematic diagram illustrates the internal circuitry of the MICOM BOARD MP-03AB PAL. The central component is IC01 (SDA555), which is connected to a TV TXT section and a PAL section. The TV TXT section includes IC003 (SDA4) and IC004 (SDA4), both of which are 1M BIT devices. The PAL section includes IC005 (L4001) and IC006 (L4001), both of which are 4M BIT devices. The diagram also shows various other components such as resistors, capacitors, and a 2-BV voltage source. The board is labeled with pin numbers and component values.

The image displays three detailed circuit diagrams for the color decoder sections of a television receiver, labeled RED, BLUE, and GREEN. Each diagram shows the internal wiring of a color decoder IC (labeled RED, BLUE, and GREEN) and its connections to various components including resistors, capacitors, and the video input/output lines. The diagrams are arranged vertically, with the RED channel at the top, the BLUE channel in the middle, and the GREEN channel at the bottom. Each diagram includes a label for its respective channel (RED, BLUE, GREEN) and a common label 'G-OUT' at the bottom right.

The schematic diagram illustrates the internal circuitry of the JA1201 PU-6054L. It features a main amplifier section and a pre-amp section.

Main Amplifier Section:

- Inputs:** R (Right), L (Left), and VIDEO signals are connected to the top of the circuit.
- Resistors:** R1205 (240K), R1204 (240K), R1203 (75), R1202 (75), R1201 (75), R1206 (0.1U), R1207 (75), R1208 (75), R1209 (75), R1210 (75), R1211 (75), R1212 (75), R1213 (75), R1214 (75), R1215 (75), R1216 (75), R1217 (75), R1218 (75), R1219 (75), R1220 (75), R1221 (75), R1222 (75), R1223 (75), R1224 (75), R1225 (75), R1226 (75), R1227 (75), R1228 (75), R1229 (75), R1230 (75), R1231 (75), R1232 (75), R1233 (75), R1234 (75), R1235 (75), R1236 (75), R1237 (75), R1238 (75), R1239 (75), R1240 (75), R1241 (75), R1242 (75), R1243 (75), R1244 (75), R1245 (75), R1246 (75), R1247 (75), R1248 (75), R1249 (75), R1250 (75), R1251 (75), R1252 (75), R1253 (75), R1254 (75), R1255 (75), R1256 (75), R1257 (75), R1258 (75), R1259 (75), R1260 (75), R1261 (75), R1262 (75), R1263 (75), R1264 (75), R1265 (75), R1266 (75), R1267 (75), R1268 (75), R1269 (75), R1270 (75), R1271 (75), R1272 (75), R1273 (75), R1274 (75), R1275 (75), R1276 (75), R1277 (75), R1278 (75), R1279 (75), R1280 (75), R1281 (75), R1282 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