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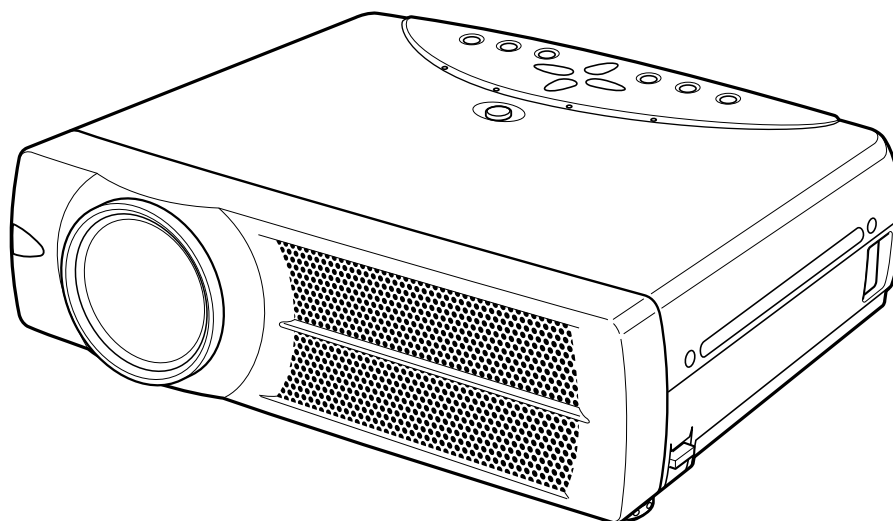
SERVICE MANUAL Multimedia Projector

Model No. PLC-SU40

PLC-SU25

U.S.A., Canada,
Europe, Asia, Africa

Original Version



Chassis No. MB3-SU4000
MB3-SU2500

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

PRODUCT CODE

1 122 159 00 (MB3A)
1 122 160 00 (PB3A)
1 122 160 02 (PB3C)
1 122 159 20 (MB3AA)

■ Contents

■ Safety Instructions	3
■ Specifications	4
■ Adjustments after Parts Replacement	5
■ Circuit Protections	6
● Thermal switch	6
● Interlock switch	6
● Fuse	6
● Warning temperature and power failure protection	7
■ Mechanical Disassemblies	8
■ Optical Parts Disassemblies	14
■ LCD Panel/Prism Ass'y Replacement	19
■ Lamp Replacement	20
■ Optical Adjustments	21
■ Electrical Adjustments	25
● Service Adjustment Menu Operation	25
● Circuit Adjustments	26
● Test Points and Locations	30
● Service Adjustment Data Table	31
■ Chassis Block Diagrams	34
Chassis over view	34
Inputs & video signal processing stage	35
LCD panel driving stage	36
Audio signal processing circuit	37
Motor driving circuit	38
System controls	39
Power supply & protection circuit	40
■ Troubleshooting	42
No Power	42
No Picture	43
No Sound	45
Lens Motor Problems	45
■ Control Port Functions	46
● System Control & I/O Port Table	46
■ Waveform	48
■ Cleaning	49
■ IC Block Diagrams	50
■ Service Parts List	59-87
Electrical Parts List	59-80
Mechanical Parts List	81-87

Drawings & Diagrams

■ Parts description and reading in schematic diagram	A2
■ Schematic diagrams	A3-A9
■ Printed wiring board diagrams	A11-A15
■ Pins description of ICs, transistors, diodes	A16

SAFETY PRECAUTIONS

WARNING:

The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

- 1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.
- 2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.
- 3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

- 4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark  in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.

Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages(15kV - 25kV) at its starts.

Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

DO NOT ATTEMPT TO SERVICING THE REMOTE CONTROL UNIT.

Laser Beam may be leaked out when in disassemble the Unit. As the Laser Beam used in this Remote control unit is harmful to the eyes.

CAUTION



LASER RADIATION
DO NOT STARE INTO BEAM
MAX. OUTPUT: 1mW
WAVE LENGTH: 650±20nm
CLASS II LASER PRODUCT

This product is complied with 21 CFR
part 1040.10

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
LASER-STRAHLUNG
NICHT IN DEN STRAHL BLICKEN
LASER KLASSE 2
レーザー放射クラス2レーザー製品
ビームをのぞき込まないこと
IEC60825-1, Am.1 1997
MAX OUTPUT (最大出力) : 1 mW
WAVE LENGTH (波長) : 650±20nm

■ Specifications

Projector Type	Multi-media Projector
Dimensions (W x H x D)	13.11" x 3.52" x 9.96" (333mm x 89.5mm x 253mm)
Net Weight	9.5 lbs (4.3 kg)
LCD Panel System	0.8" TFT Active Matrix type, 3 panels
Panel Resolution	800 x 600 dots
Number of Pixels	1,440,000 (800 x 600 x 3 panels)
Color System	6 color system (PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N)
High Definition TV Signals	480i, 480p, 575i, 575p, 720p, 1035i and 1080i
Scanning Frequency	H-sync. 15 ~ 80kHz, V-sync. 50 ~ 100Hz
Projection Image Size (diagonal)	Adjustable from 36" to 260"
Projection Lens	F 1.9 ~ 2.1 lens with f 21.3mm ~ 25.6mm with motor zoom and focus
Throw Distance	3.6' ~ 22.6' (1.1m ~ 6.9m)
Projection Lamp	180watts
AV Input Jacks	RCA Type x 3 (Video/Y, Cb/Pb, Cr/Pr) and Mini DIN 4 pin x 1(S-Video)
AV Audio Input Jacks	RCA Type x 2
Computer Input Jacks	DVI-I Terminal (Digital/Analog)
Computer Input/Monitor Output Terminal	(VGA) HDB15 Terminal x 1 (This terminal is switchable)
Computer Audio Input Jack	Mini Jack (stereo)
Control Port Connector	Mini DIN 8 pin x 1
USB Connector	USB Series B receptacle x 1
Audio Output Jacks	RCA Type x 2
Internal Audio Amp.	1.0watt RMS (monaural)
Built-in Speaker	1 speaker, 1.18" x 1.57" (30mm x 40mm)
Feet Adjustment	0° to 15.6°
Voltage and Power Consumption	AC 100 ~ 120V (3.0A Max. Ampere), 50/60Hz (The U.S.A and Canada) AC 200 ~ 240V (1.5A Max. Ampere), 50/60Hz (Continental Europe and the U.K)
Operating Temperature	41°F ~ 95°F (5°C ~ 35°C)
Storage Temperature	14°F ~ 140°F (-10°C ~ 60°C)
Remote Control Transmitters	Wireless Remote Control, batteries AA, UM3 or R06 Type x 2

● The specifications are subject to change without notice.



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

■ Adjustments after Parts Replacement

● : Adjustment necessary ○ : Check necessary

		Disassembly / Replaced Parts									
		LCD/ Prism Ass'y	Condenser Lens	Condenser Lens-Out	Relay Lens-Out	Polarized glass			P. F. Board	Power Board	Main Board
						R	G	B			
Optical Adjustments	Contrast Adjustment										
	R-Contrast adjustment					●					
	G-Contrast adjustment						●				
	B-Contrast adjustment							●			
	Condenser lens adjustment	○	●								
	Condenser lens-out adjustment	○		●							
	Relay lens-out adjustment	○			●						
Electrical Adjustments	Fan voltage adjustment									●	
	Signal center adjustment										●
	PSIG adjustment										●
	Gain adjustment [PC]										●
	Gain adjustment [Video]										●
	Gain adjustment [Component]										●
	Gamma gain adjustment [PC]										●
	Gamma gain adjustment [AV]										●
	Common center adjustment	●									●
	Signal offset adjustment [PC]										●
	Signal offset adjustment [AV]										●
	White balance adjustment	○									○

■ Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

● Fuse

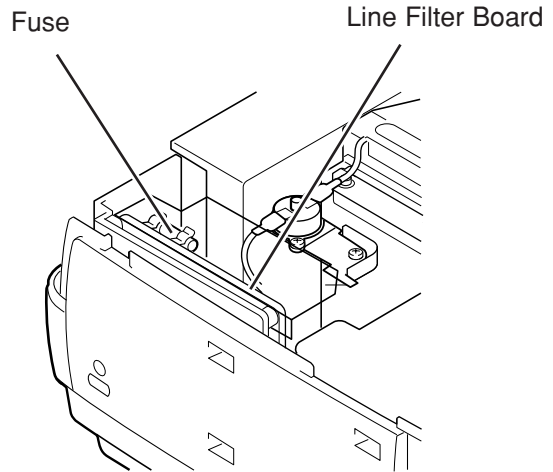
The fuse is located inside of the projector. When either the LAMP indicator or the READY indicator is not illuminated, fuse may be opened. Check the fuse as following steps.

It should be used the specified fuse as follows;

Fuse Part No.: 423 022 2102
TYPE T4.0AH 250V FUSE
LITTLE FUSE INC. TYPE 215004

How to replace the fuse

1. Remove the cabinet top following to “Mechanical Disassemblies”.
 2. Remove the fuse from fuse holder.
- To install the fuse, take reversed step in the above.



● Thermal switch

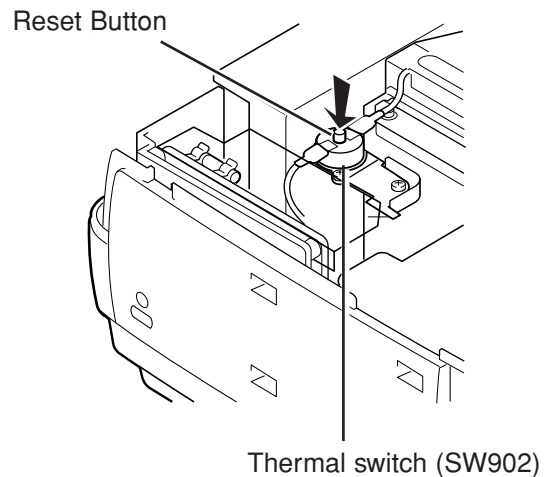
There is the thermal switch (SW902) inside of the projector to prevent the internal temperature rising abnormally. When the internal temperature reaches near 100°C, turn off the AC main power supply automatically.

The thermal switch is not reset to normal automatically even if the internal temperature becomes normal. Reset the thermal switch following procedure.

Check the resistance between terminals of thermal switch by using the tester. If it has high impedance, thermal switch may be in operative.

How to reset the thermal switch

1. Remove cabinet top following to the “Mechanical Disassemblies”.
2. Press the reset button on the thermal switch.

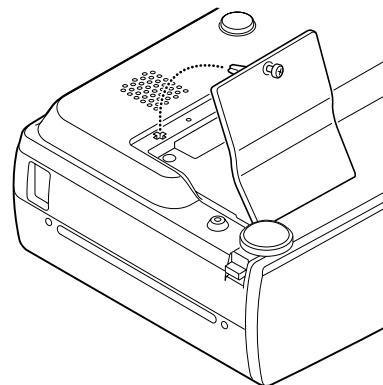


CAUTION:

Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.

● Interlock switch

The interlock switch (SW904) cuts off the AC mains power supply when the lamp cover is removed. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



● Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector exceeds the normal operating temperature, or the cooling fans stop, or the power supplies in the projector are failed.

- If the TEMP WARNING indicator (red) is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING TEMP indicator flashing stops, and then try to turn on the projector.
- If both of the TEMP WARNING (red) and READY (green) indicators are flashing at the same time, It may defect the cooling fans and power supply circuits. Check fan operation and power supply lines referring to the chapter “Power supply & protection circuit” in the Chassis Block Diagram section.

Possible causes

- Air filter is clogged with dust particles. Remove dust from the air filter by following instructions in the “Air filter care and cleaning” below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 °C or 41 to 95°F)

Air filter care and cleaning

The removable air filter prevents dust from accumulation on the surface of the projection lens and projection mirror. Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and reduce the life of the projector.

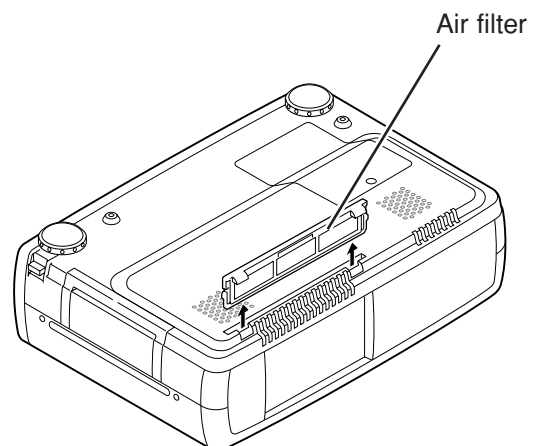
To clean up the air filters, follow the cleaning procedure below:

1. Turn the power off, and disconnect the AC power cord from the AC outlet.
2. Turn the projector up side down and remove air filter by pulling the latches of it upward.
3. Clean the air filter with brush or wash out the dust and particles.
4. Replace the air filter properly. Make sure that the air filter is fully inserted.

CAUTION:

Do not operate the projector with the air filter removed. The dust is stuck on the LCD panel and the mirror, and it may spoil the fine picture image.

Do not put the small parts into the air intake vents. It may result in the malfunction of the projector. The air filters are small parts. Take care that children don't eat or swallow it.



RECOMMENDATION

We recommend not to use the projector in dusty, smoky places. Using it in dusty place may cause the poor picture quality.

When using under the dusty or smoky conditions, dust may accumulate on the LCD panel and lens inside it, and may resultantly be projected on the screen together with the picture.

When the above symptoms are noticed, please clean up the LCD panel and lens following to the “Cleaning Method”.

■ Mechanical Disassemblies

Mechanical disassemble should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:

The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

1 Cabinet Top and Control Panel removal

- 1 Remove 4 screws **A** (M3x6) to take the Cabinet Top Ass'y upward off.
- 2 Remove the Control Panel off from the Cabinet Top by lifting the edge of control panel.

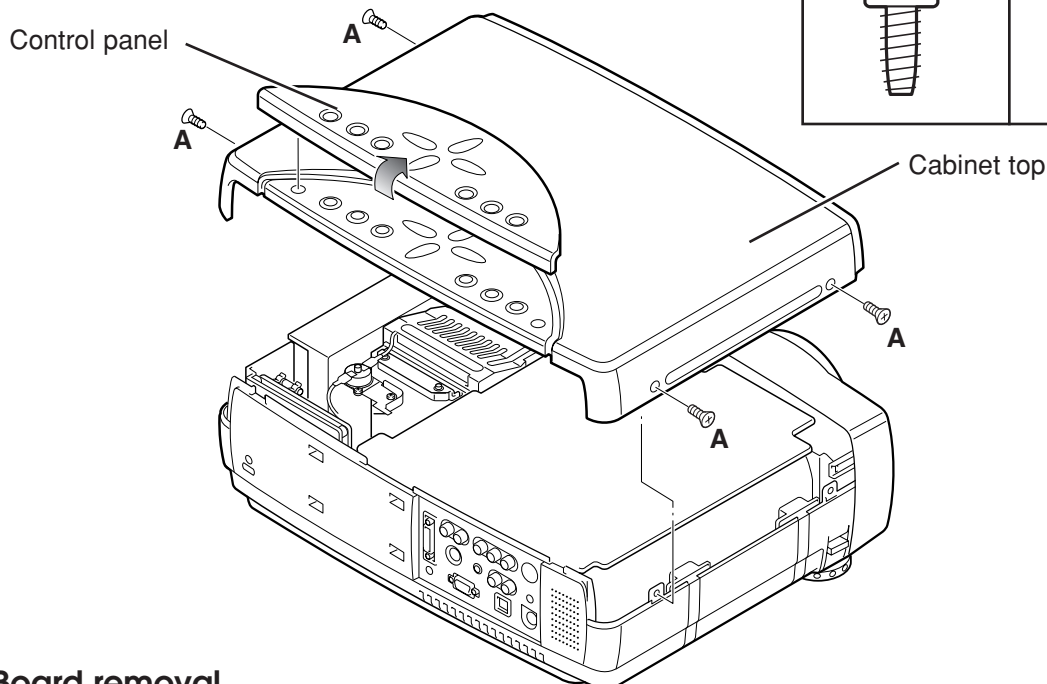


Fig.1

2 Main Board removal

- 1 Remove 8 screws (M3x6) to take the Main Board upward off.

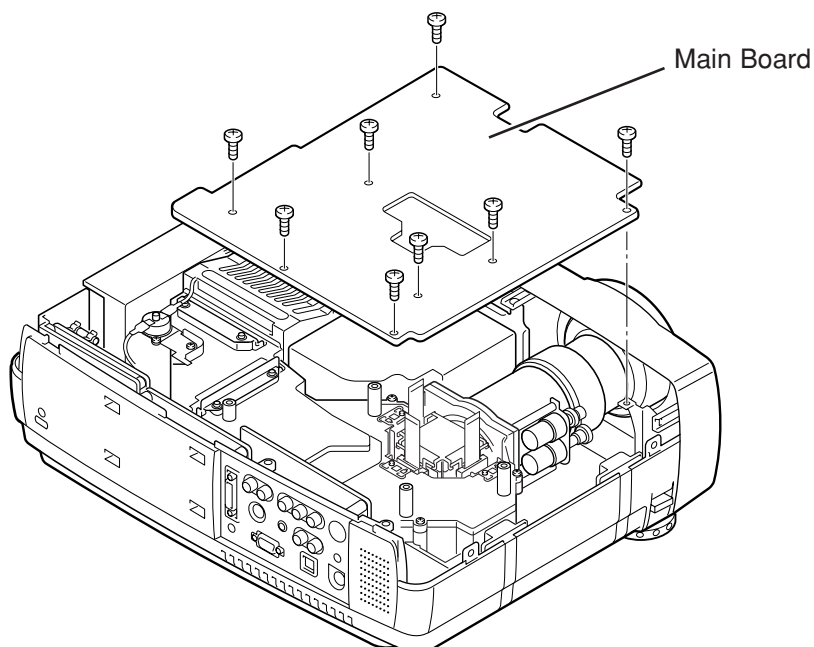


Fig.2

3 AV, DVI, Temp Board and Speaker removal

- 1 Remove 1 screw **A** (M4x8) to release grounding wires.
- 2 Pull the Rear Panel ass'y upward.
- 3 Remove 4 screws **B** (T3x6) and remove the AV Board.
- 4 Remove 4 screws **C** (T3x6) and remove the DVI Board.
- 5 Remove 4 screws **D** (T2.6x6) and remove the speaker.
- 6 Remove 1 screws **E** (T3x8) and remove the Sensor Board.

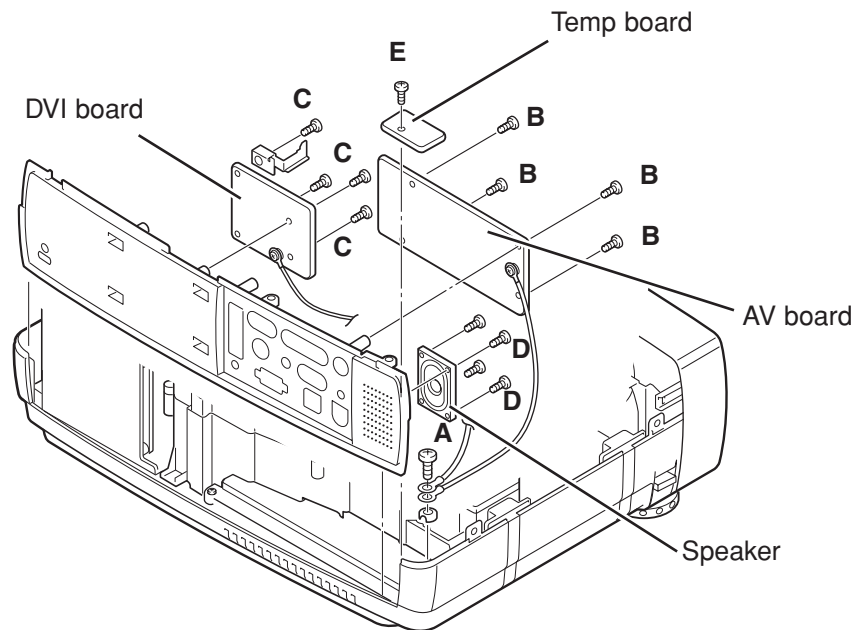


Fig.3

4 Front Panel and R/C Board removal

- 1 Remove 3 screws **A** (M3x4), 1 screw **B** (M3x8) and unhook 2 hooks **C** at the both of left and right side, and the take the Front Panel ass'y off.
- 2 Remove 1 screw **D** (T3x8) to take the R/C Board off.

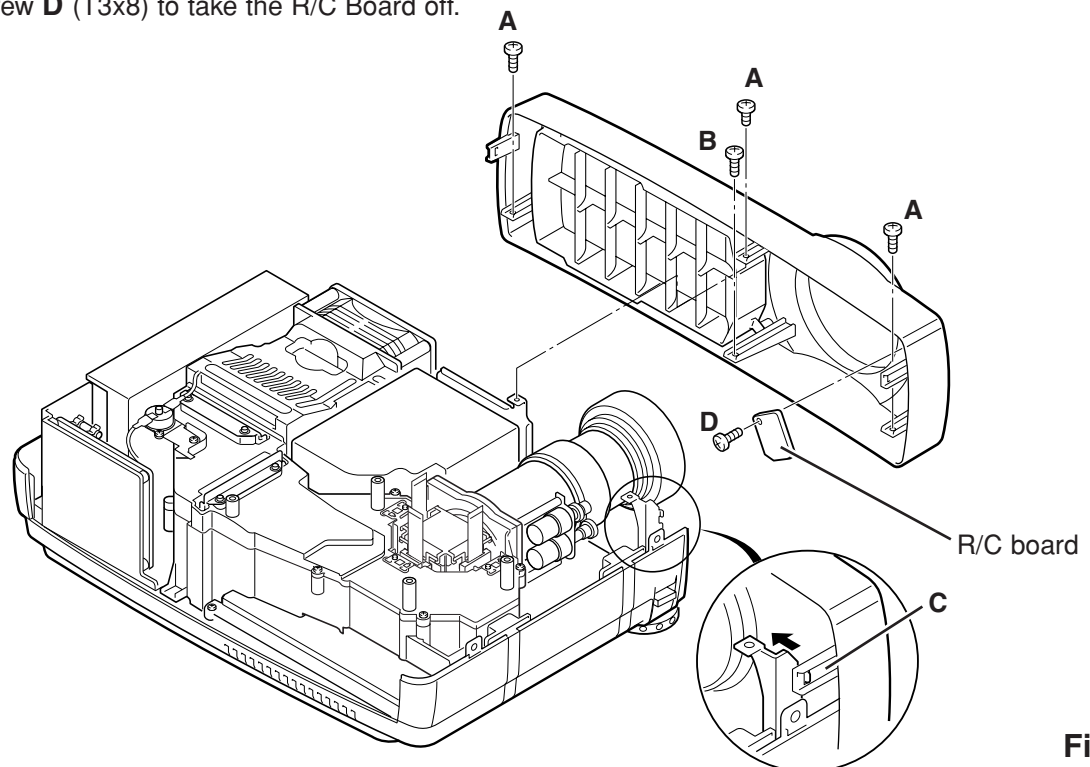


Fig.4

5 Lamp Ballast Unit removal

- 1 Remove 1 screw **A** (M3x4) and remove SW902, and then remove 1 screw **B** (M3x6) and disconnect the Lamp Socket.
- 2 Remove 2 screws **C** (M3x6) to take the Lamp Ballast ass'y upward off.
- 3 Remove 2 screws **D** (T2x6) to take the isolation sheet off.
- 4 Remove 4 screws **E** (T3x6) to take the lamp ballast board off.

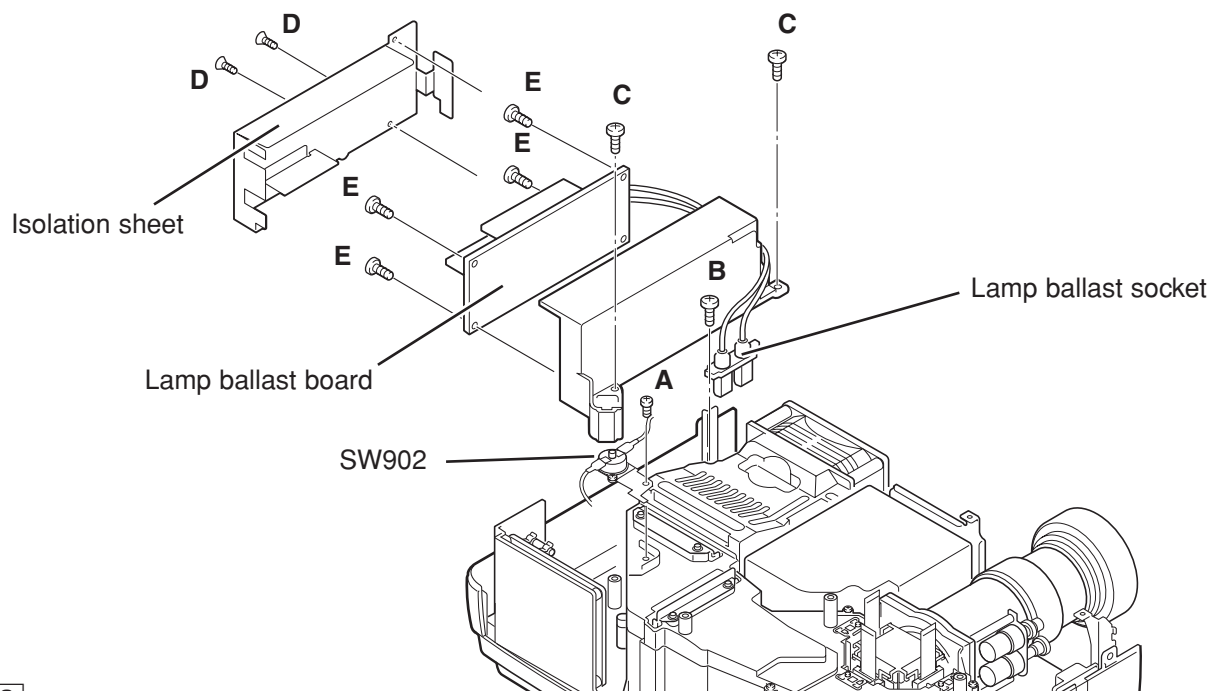


Fig.5

6 Filter Board removal

- 1 Remove 3 screws **A** (M3x6) and pull the Filter Board ass'y upward.
- 2 Remove 1 screw **B** (M4x8) to take the grounding lead from the cabinet bottom.
- 3 Remove 4 screws **C** (T3x8) to take the Filter Board off.

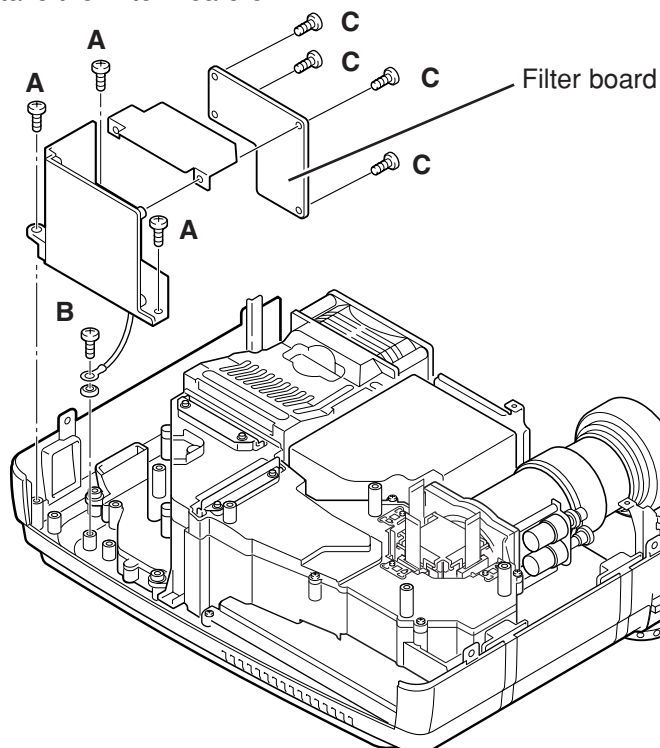


Fig.6

7 Power Box Cover and Fans(FN901, FN906) removal

- 1 Remove 4 screws **A** (M3x12) to take the Fan(FN901) off.
- 2 Remove 4 screws **B** (M3x8) to take the Fan(FN906) off.
- 3 Remove 3 screws **C** (M3x6) to take the Power Box Cover upward off.

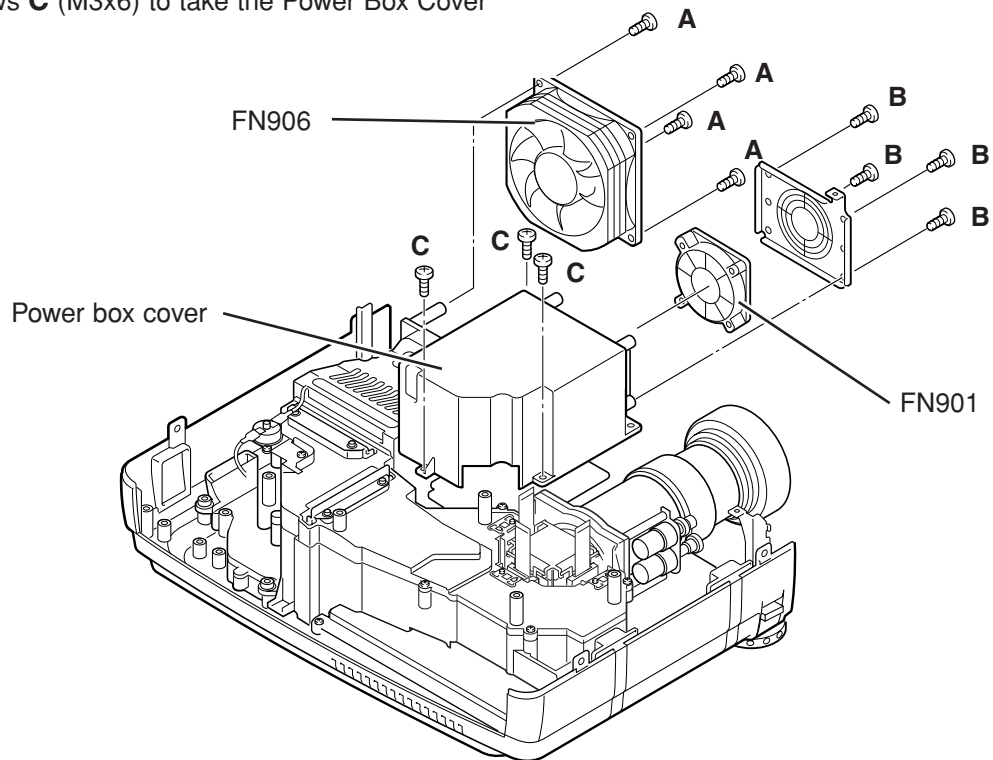


Fig.7

8 Optical Unit removal (1)

- 1 Remove 1 screw **A** (M3x6) to take the Lamp Cover off.
- 2 Loosen 3 screws **B** to take the Lamp assembly by pulling the handle. Step to next procedure.

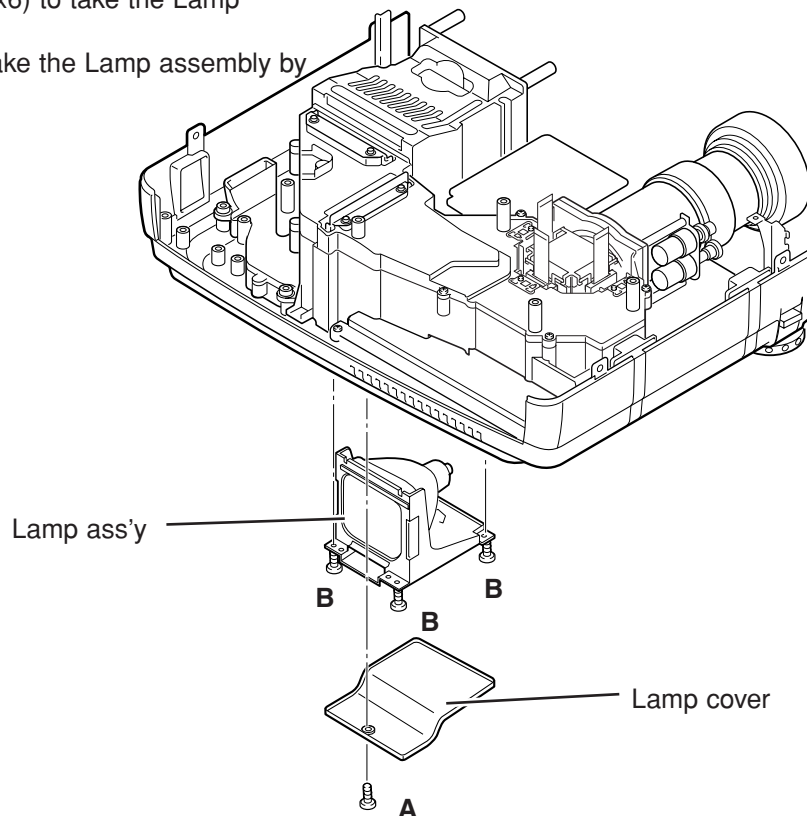


Fig.8-1

8 Optical Unit removal (2)

Step from previous procedure.

3 Remove 6 screws **C** (M3x8) to take the Optical Unit upward upward off.
To mount optical unit, mount optical unit first then mount the Lamp assembly and Lamp Cover.

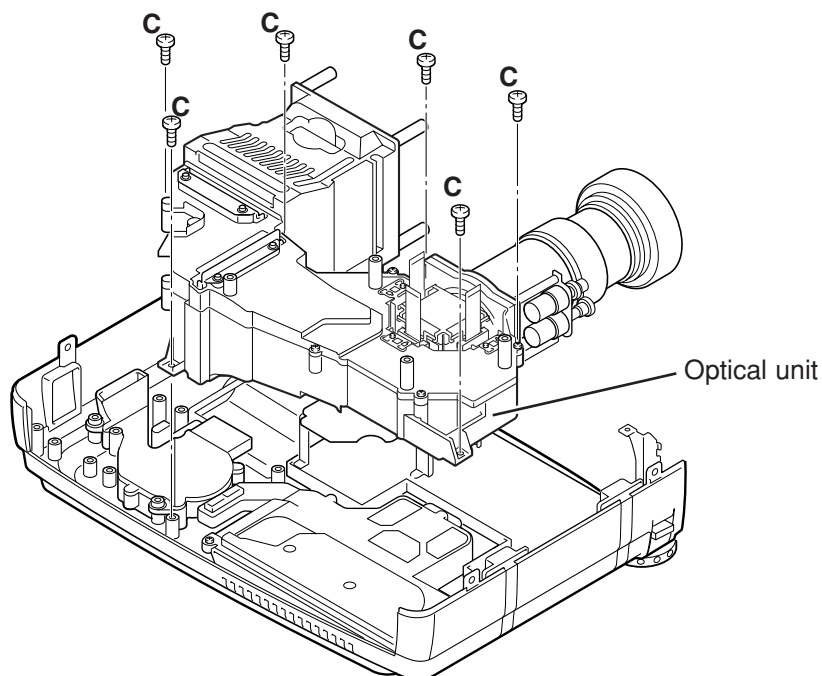


Fig.8-2

9 Power and P.F. Board removal

- 1** Remove 4 screws **A** (T3x6), 4 screws **B** (T3x8) to take the Power Board ass'y upward off.
- 2** Remove 4 screws **C** (M3x6) to take the P. F. Board from the Power Board.
- 3** Remove 3 screws **D** (M3x6) to take the Power Board holder from the Cabinet Bottom.

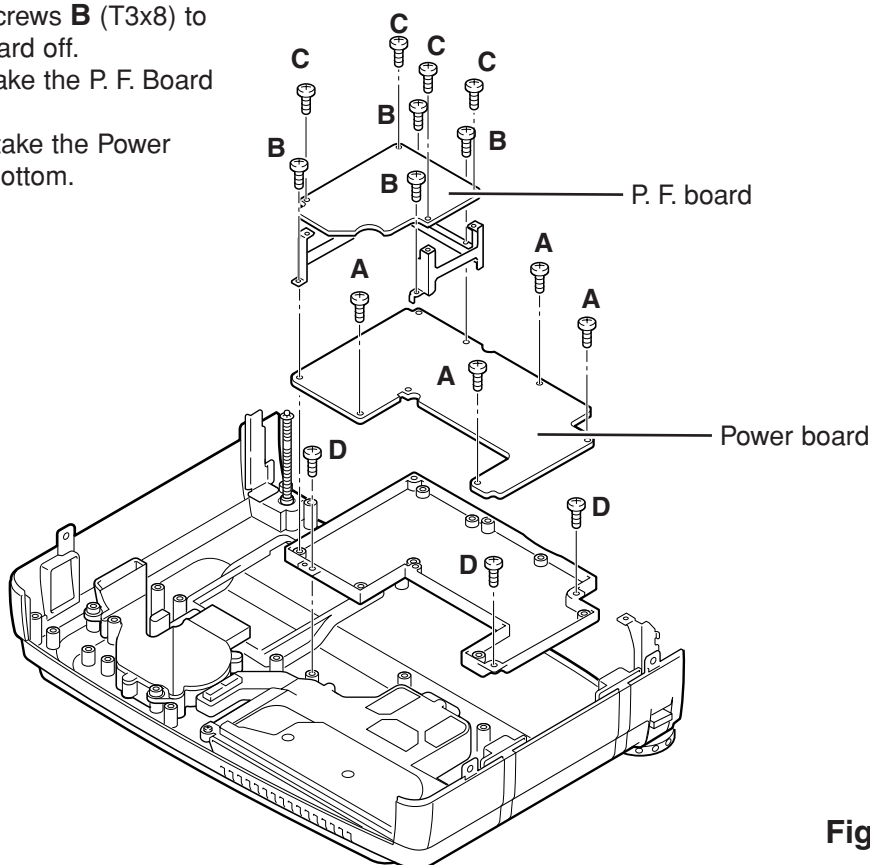


Fig.9

10 Fan (FN905) removal

- 1 Remove 1 screw **A** (M3x6) and take a Washer, Spring and Interlock Switch lever.
- 2 Pull the Fan and duct ass'y upward, then remove the 2 screws **B** (M3x6) to take the Fan (FN905) off.

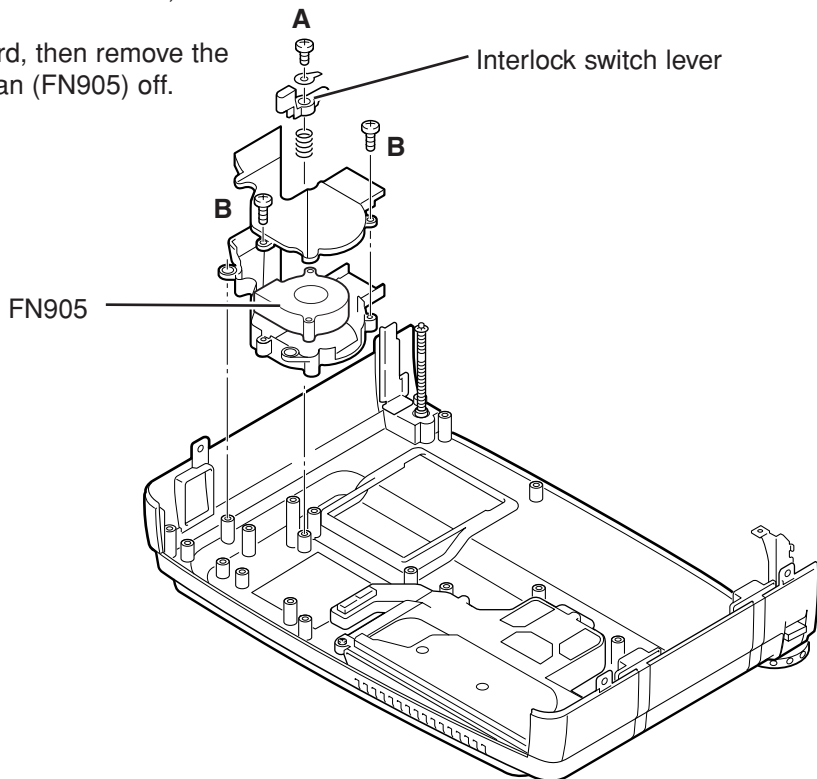


Fig.10

11 Fans (FN902, FN903, FN904) removal

- 1 Remove 8 screws **A** (T3x8) and to take the Fan Duct Top off and remove the Fans (FN902, FN903, FN904).
- 2 Remove 4 screws **B** (M3x6) to take the Fan Duct Bottom off from the Cabinet Bottom.

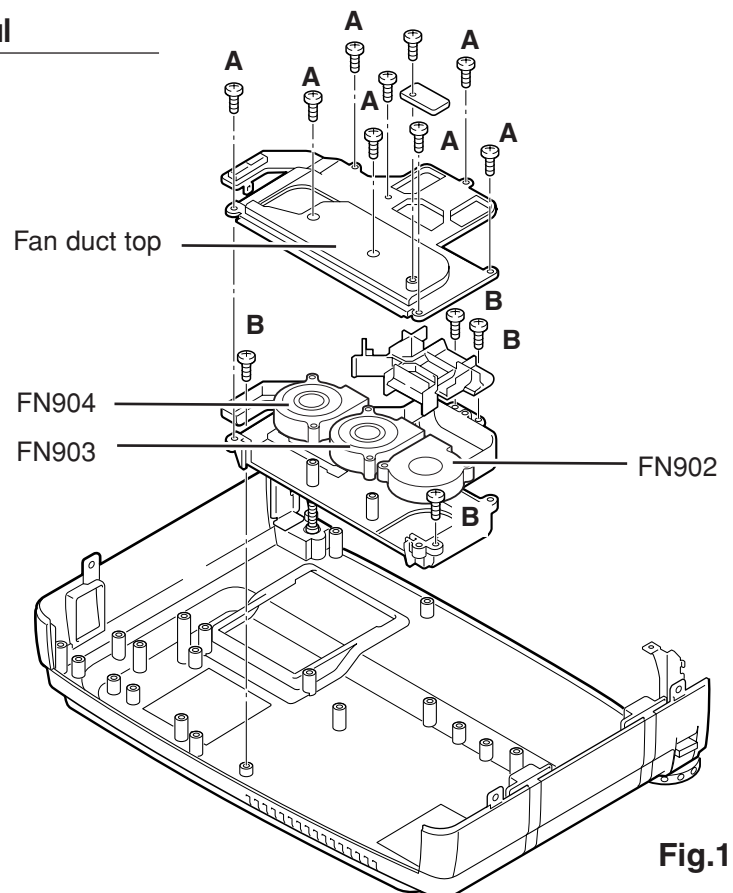


Fig.11

■ Optical Parts Disassemblies

Before taking this procedure, remove Cabinet Top and Main Board following to the “Mechanical Disassemblies”. Disassembly requires a 2.0mm hex wrench.

1 Projection Lens removal

- 1 Remove the Front Panel following to “Front Panel Removal” on “Mechanical Disassemblies”.
- 2 Remove 4 screws (M3x10) to take the Projection Lens ass'y off.

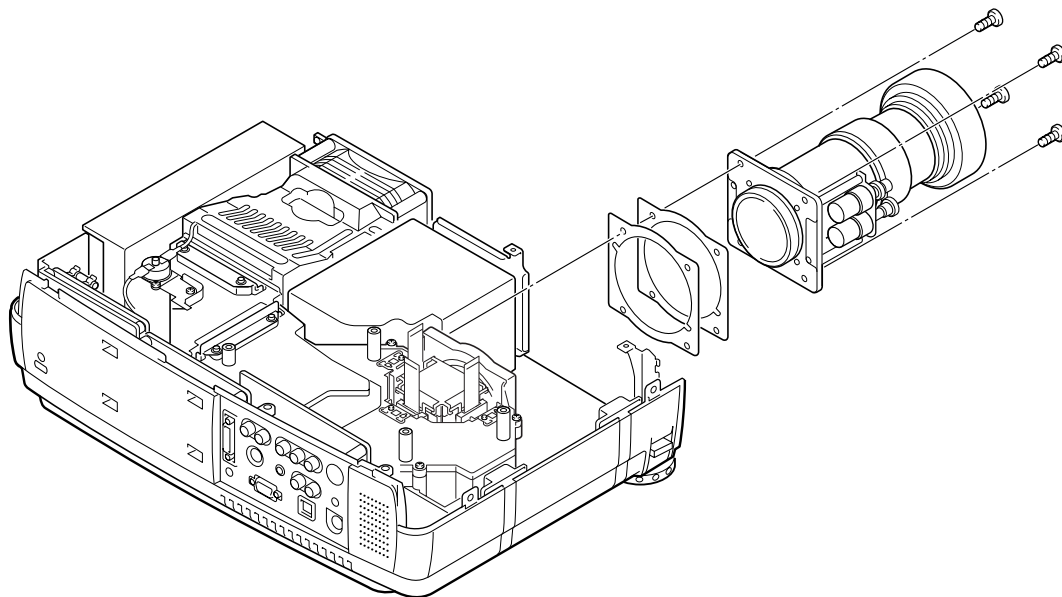


Fig.1

2 Integrator Lens-In disassembly

- 1 Remove 2 screws **A** (M2.5x6) and pull the Integrator Lens-In ass'y upward.
- 2 Remove 1 stoppers **B** and then take the Lens off from the holder.

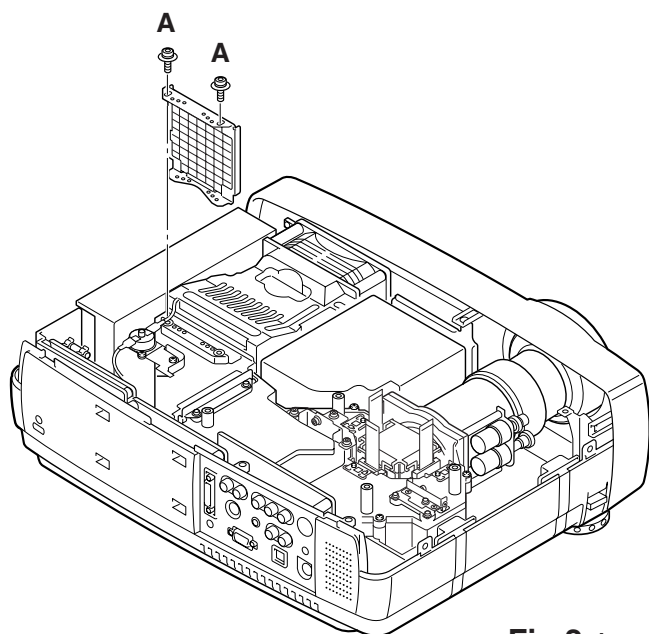
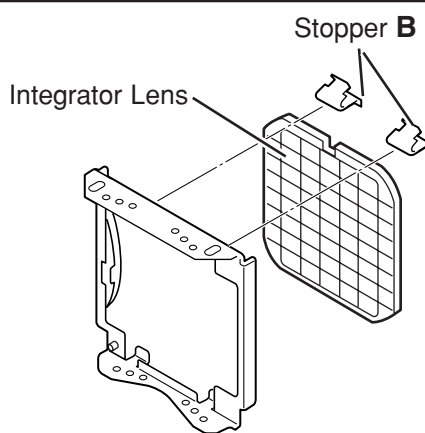


Fig.2-1



* Lens should be placed as the rugged surface side comes to the holder side.

Fig.2-2

3 Condenser lens disassembly

- 1 Remove 2 screws **A** (M2.5x6) and pull the Condenser Lens ass'y upward.
- 2 Remove 4 screws **B** (M2x4) to take the Lens off from the holder.

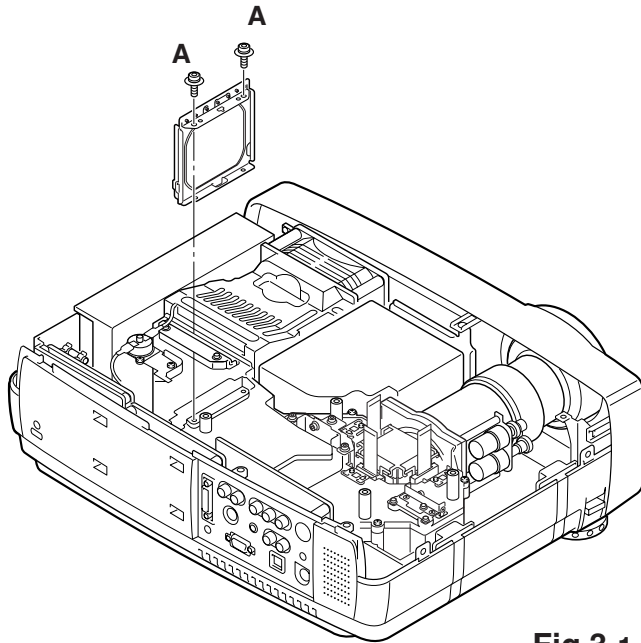


Fig.3-1

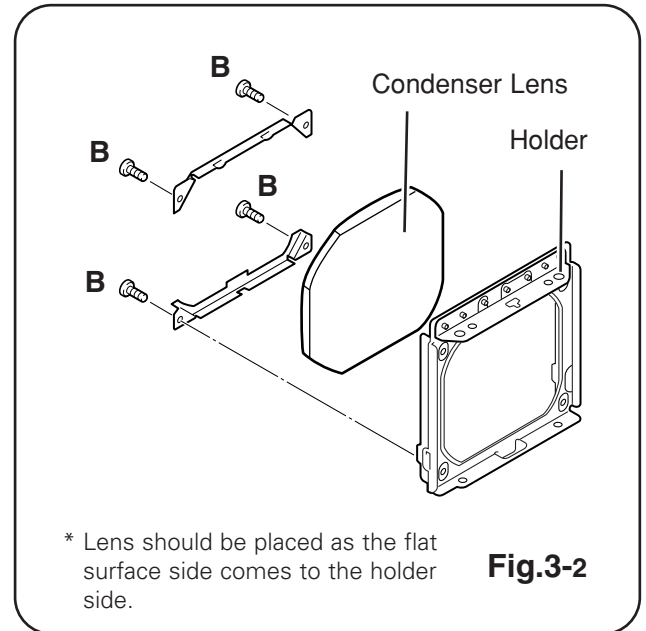


Fig.3-2

4 Condenser Lens-Out disassembly

- 1 Remove 2 screws **A** (M2.5x6) and pull the Condenser Lens-Out ass'y upward.
 - 2 Remove 2 screws **B** (M2x4) to take the Lens off from the holder.
- Note:
Should be place the lens as shown in the figure.

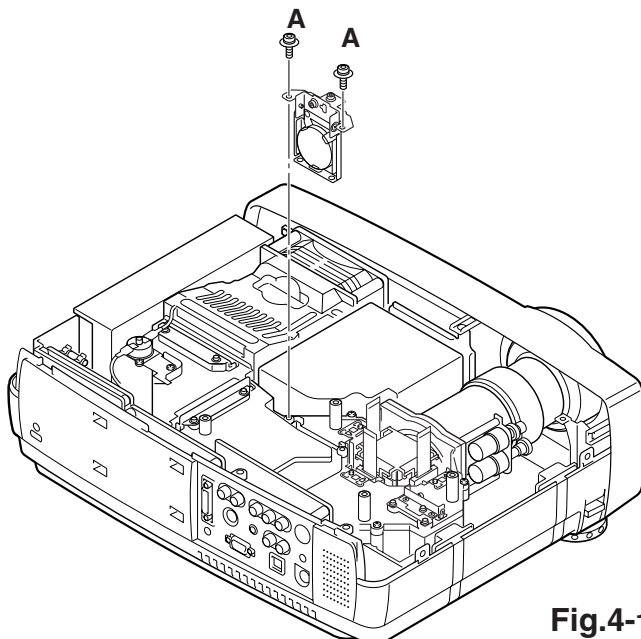


Fig.4-1

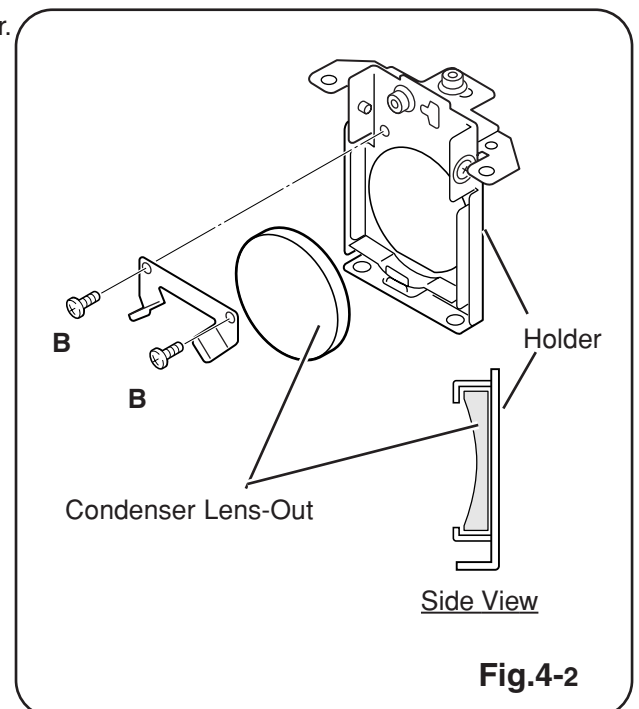


Fig.4-2

5 Relay Lens-Out disassembly

- 1 Remove 2 screws **A** (M2.5x6) and pull the Relay Lens-Out ass'y upward.
- 2 Remove 2 screws **B** (M2x4) to take the Lens off from the holder.

Note:

There is no mounting direction of the lens.

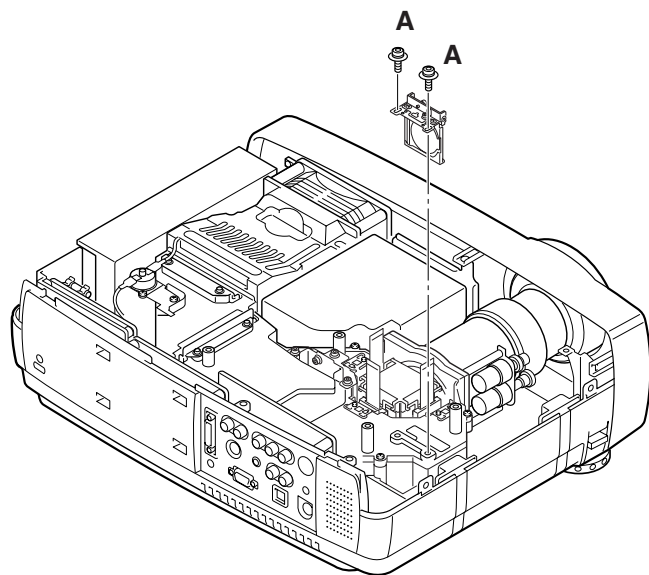


Fig.5-1

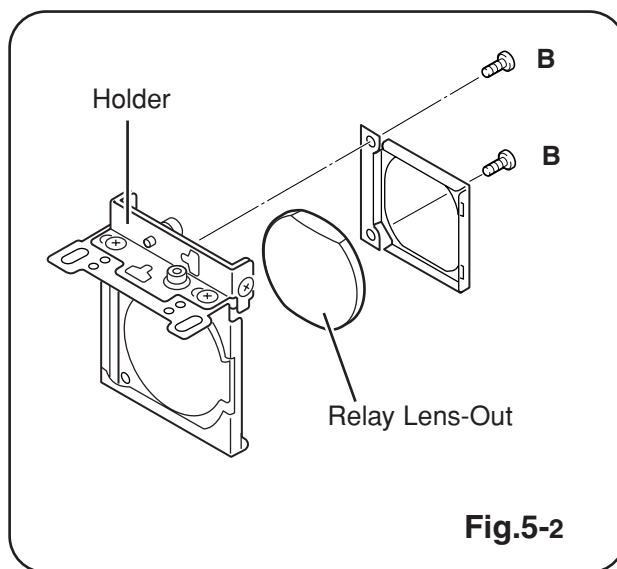


Fig.5-2

6 Polarized Glass-In removal

- 1 Remove each screw (M2.5x6) and pull the Polarized Glass-In ass'y upward.
- 2 Unhook the stoppers and take the glass off upward.

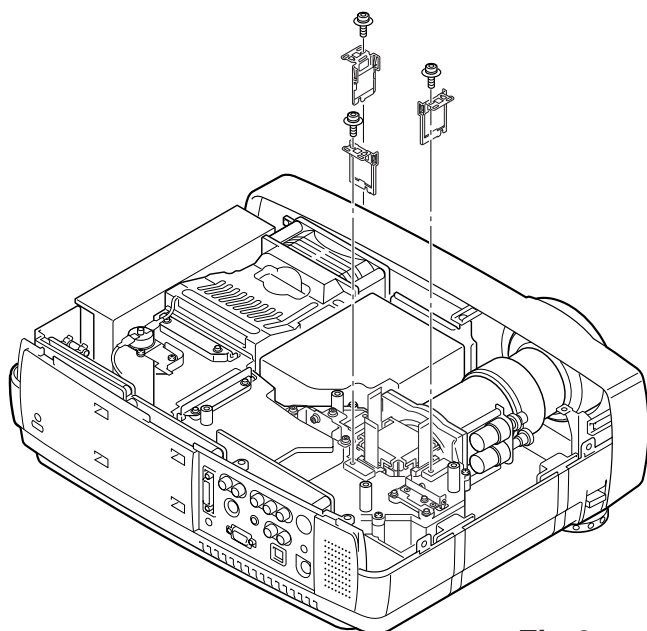


Fig.6-1

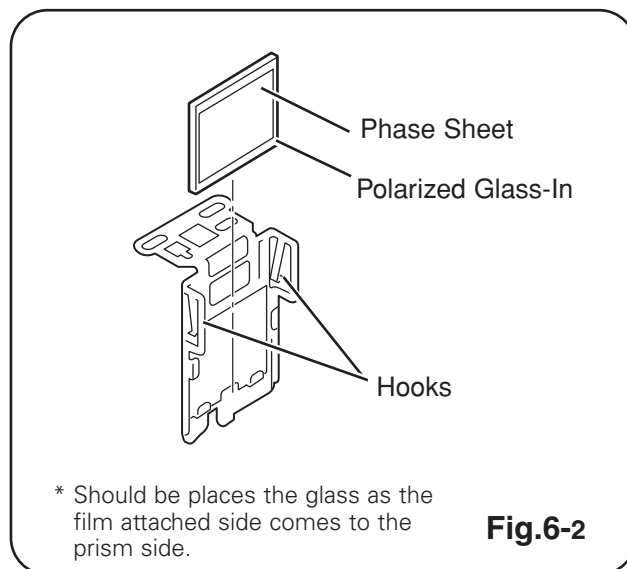


Fig.6-2

7 Polarized Glass-Out/Pre-Polarized Glass removal

1 Remove 4 screws **A** (M2.5x4) and take the LCD/Prism ass'y off upward from the optical unit.

2 Remove each screw **B** and take the glass off upward.

Note: The G-LCD panel has a pre-polarized glass is mounted between the polarized glass-out (G) and LCD panel as Fig.7-2.

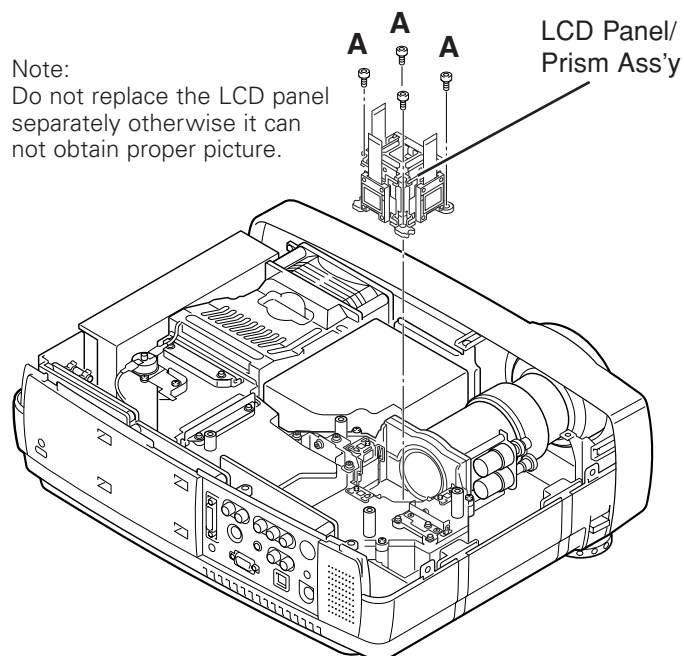


Fig.7-1

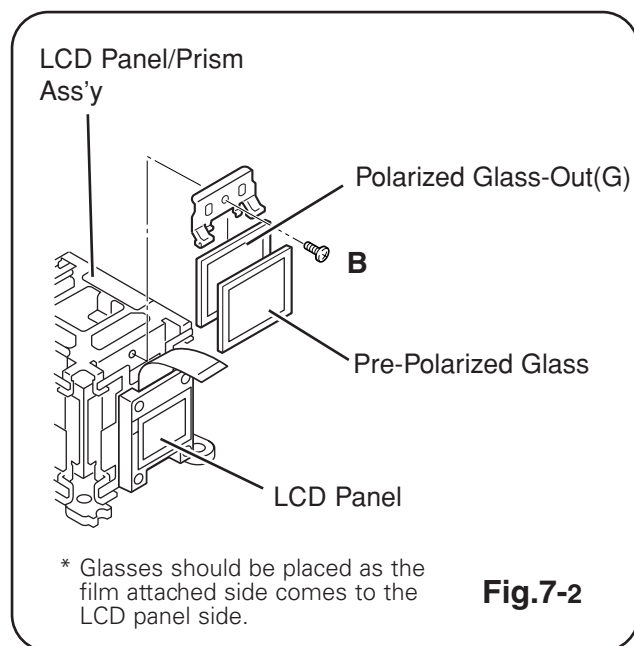


Fig.7-2

8 Optical Unit Top removal

1 Remove 9 screws (M3x10) to take the Optical Unit Top off upward.

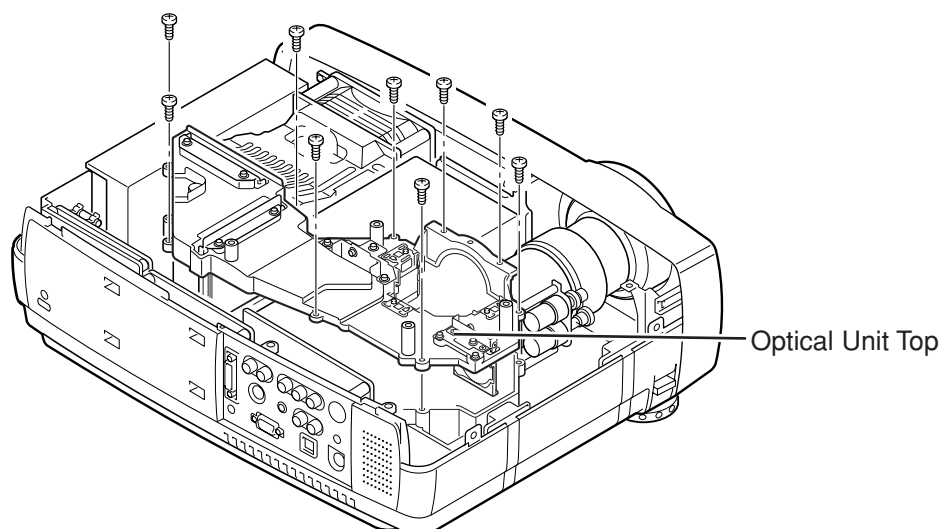


Fig.8

9 Locations and Directions

When the optical parts in the optical unit mounting or assembling, the parts must be mounted in the specified location and direction as shown in figure below.

Key No.	Description
1	Mirror (W)
2	Integrator lens (OUT)
3	Prism beam splitter (PBS)
4	Dichroic mirror (B)
5	Condenser lens (OUT)
6	Dichroic mirror (G)
7	Relay lens (IN)
8	Mirror (R)
9	Condenser lens (R)
10	Condenser lens
11	Condenser lens (B)
12	Optical filter (UV cut)
13	Mirror (B)

Note: The arrows in the figure are indicated that there are the direction of part placement. Place each part as the printed marker on the part comes to each arrow direction.

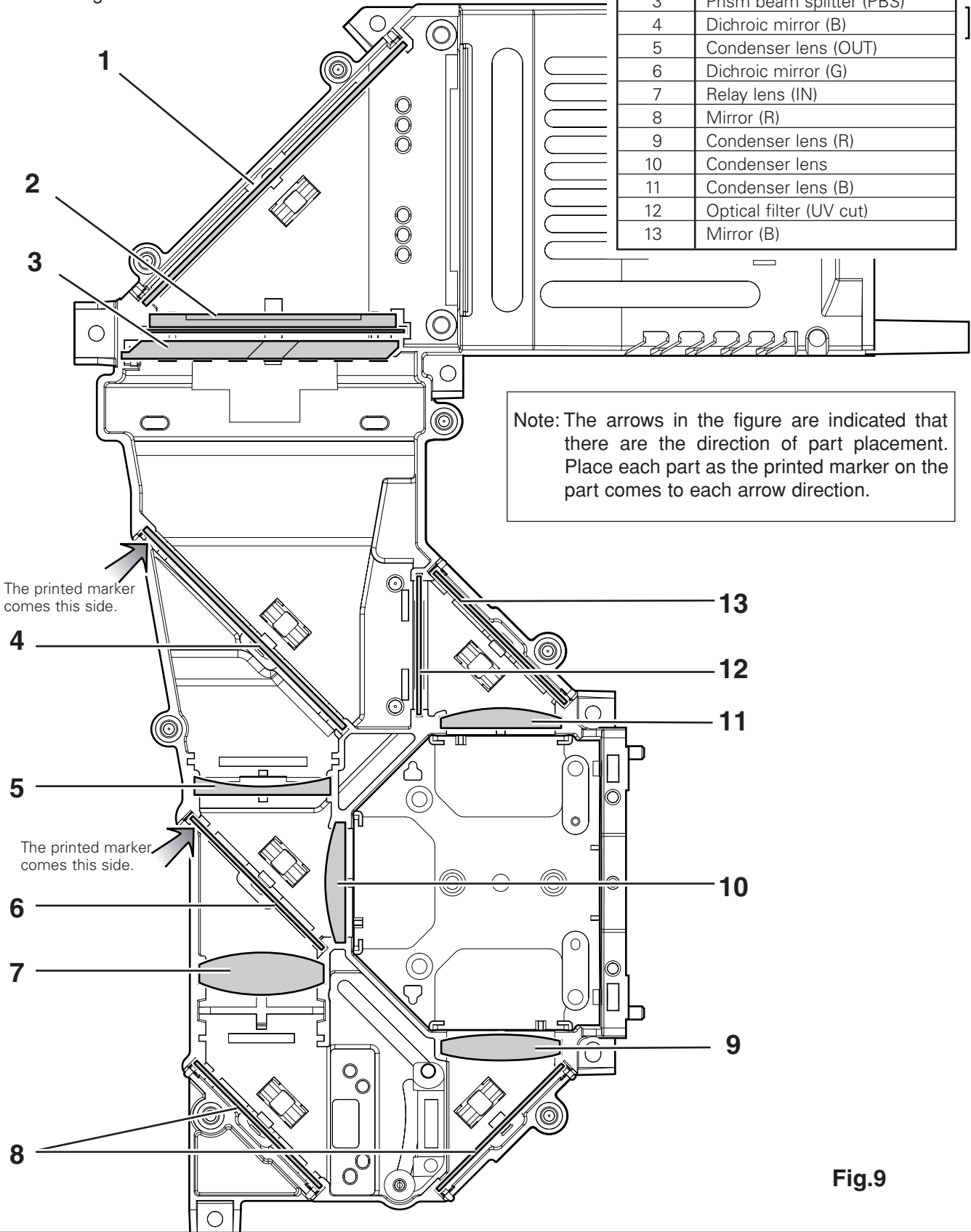


Fig.9

■ LCD Panel/Prism Ass'y Replacement

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
 - Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
 - Check the white uniformity on the screen.
- If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Color Shading Correction". The software will be supplied separately and can be ordered as follows;

COLOR SHADING CORRECTION Ver. 3.0

Service Parts No. 645 056 6288

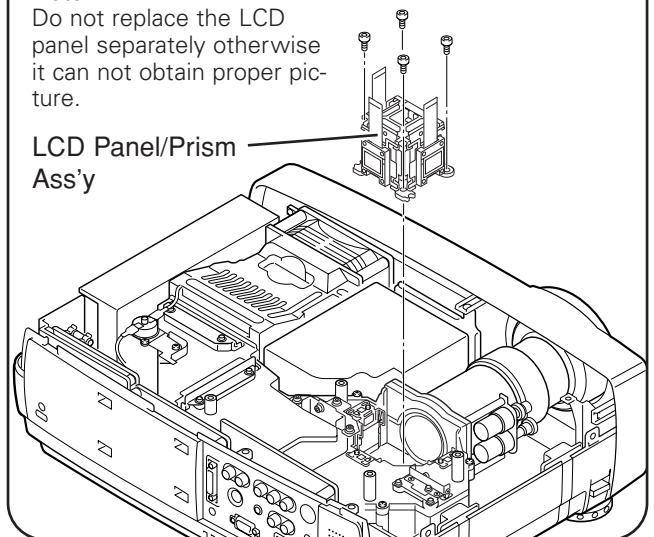
LCD Panel/Prism Ass'y removal

- 1 Remove the cabinet top and main board following to "Mechanical Disassemblies".
- 2 Remove 4 screws by using the 2.0 mm hex driver and take the LCD Panel/Prism ass'y off upward from the optical unit.

Note:

Do not replace the LCD panel separately otherwise it can not obtain proper picture.

LCD Panel/Prism Ass'y



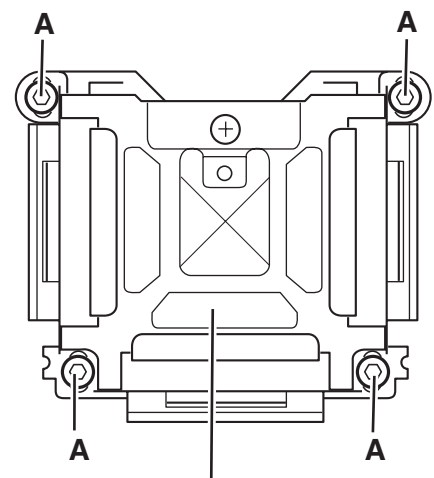
Note on LCD Panel/Prism Ass'y Mounting

After replacing or installing the LCD Panel/Prism ass'y, please make sure to obtain the best focus in both TELE and WIDE zoom. If the focus adjustment is required, please adjust the positioning of LCD Panel/Prism Ass'y by following below procedure.

Mounting Procedure:

- 1 Loosen 4 screws **A** on the LCD Panel/Prism ass'y with 2.0 mm hex driver.
- 2 Turn the projector on and project the image with WIDE zoom, and adjust the FOCUS control to obtain the best focus.
- 3 Turn the ZOOM control to the TELE position.
- 4 Move the LCD Panel/Prism Ass'y backward or forward (about 0mm ~ 0.8mm) to obtain the proper focus. Confirm the focus at TELE and WIDE zoom.
- 5 Tighten 4 screws **A** to fix the LCD Panel/Prism ass'y.

Top View



LCD Panel/Prism Ass'y

■ Lamp Replacement

WARNING:

- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

Procedure

- 1 Turn off the projector and disconnect the AC cord. Allow the projector to cool for at least 45 minutes.
- 2 Loosen 1 screws with a screwdriver and open the lamp cover.
- 3 Loosen 2 screws and pull out the lamp assembly by grasping the handle.
- 4 Replace the lamp assembly securely and tighten 2 screws.
- 5 Close the lamp cover and tighten 1 screw.
- 6 Connect the AC cord to the projector and turn on.

7 Reset the Lamp Replace Counter, see below explanation.

Note:

- Do not reset the Lamp Replace Counter, except after lamp is replaced.
- The projector can not be turned-on with lamp cover removed, because when the lamp cover is removed, the interlock switch is also released to switch off the mains power for safety.

How to reset Lamp Replace Counter

- 1 Turn the projector on, and press the **MENU** button and the on-screen menu will appear. Press the ◀ or ▶ button to move a red frame pointer to SETTING menu icon.
- 2 Press the ▲ button to move a red frame pointer to “Lamp counter reset” and then press the **SELECT** button. The message “Lamp replace counter reset?” is displayed. Move the pointer to [Yes] and then press the **SELECT** button.
- 3 Another confirmation dialog box appears and select [Yes] to reset Lamp Replace Counter .

Please refer to the owners manual for further information.

How to check Lamp used time

The LAMP REPLACEMENT indicator will illuminate when the total lamp used time reaches 2000 hours. The total lamp used time is calculated by using the below expression,

Total lamp used time = $T_{eco} + T_{normal} (1+1/3)$

T_{eco} : used time in the Eco mode

T_{normal} : used time in the Normal mode

This is to indicate that lamp replacement is required.

You can check the lamp used time following to the below procedure.

- 1 Press and hold the ▲ button on the projector for more than 20 seconds.

- 2 The lamp used time in each normal mode and eco mode and total used time are displayed on the bottom right corner of the screen briefly.

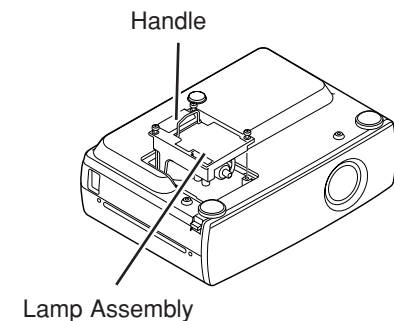
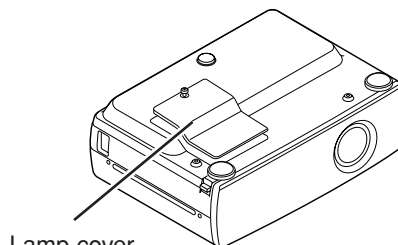
💡 Lamp Age	
Normal :	0100 HOURS
Eco:	0025 HOURS
	0158 HOURS

Total lamp used time

ORDER REPLACEMENT LAMP

Type No. _____ Service Parts No. _____

POA-LMP53 610 303 5826



Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.

Refer to “Air Filter Cleaning”.

■ Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top and Main Board following to the “Mechanical Disassemblies”

Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Condenser lens, Condenser lens-out or Relay lens adjustment, you need to disconnect some connectors and FPC cables of LCD panels on the main board.

Note: Do not disconnect connectors K8N, K8P and K8H on the main board, because the projector can not turn on due to operate the power failure protection.

Contrast adjustment

[Before Adjustment]

- Input a 100% of black raster signal.

[R/G/B-CONTRAST ADJUSTMENT]

- 1 Loosen a screw **A** (Fig.1-1/1-2) on the polarized glass mounting base which you intend to adjust.
- 2 Turn the polarized glass mounting base as shown in Fig.1-1 to obtain the darkest brightness on the screen.
- 3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

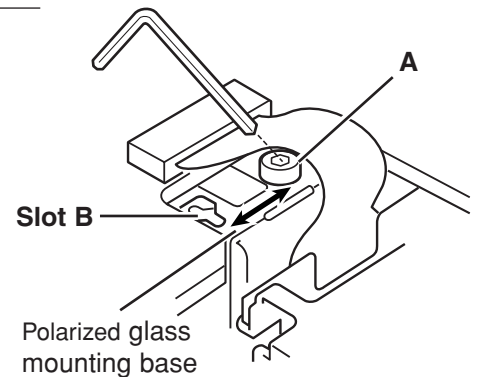


Fig.1-1

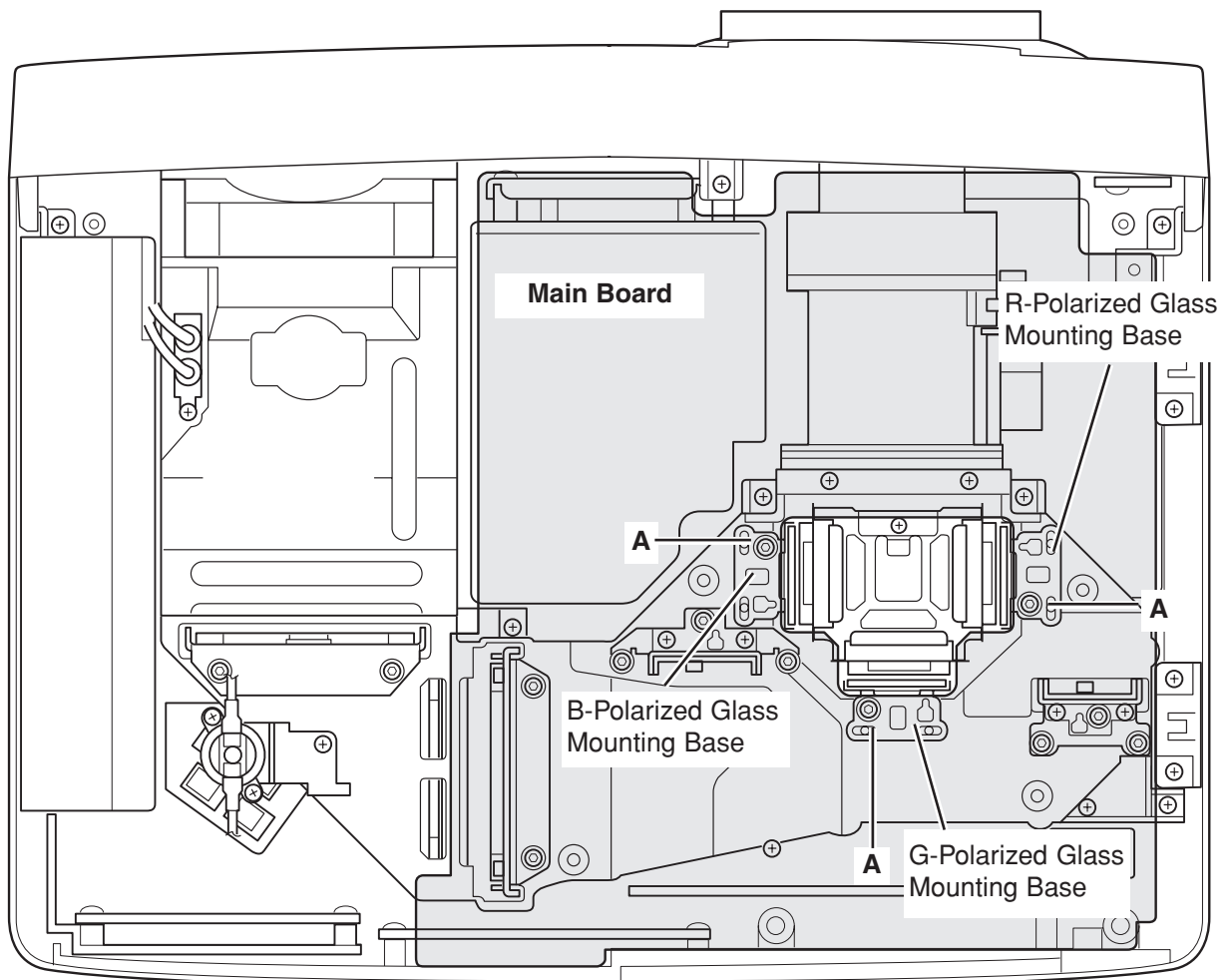


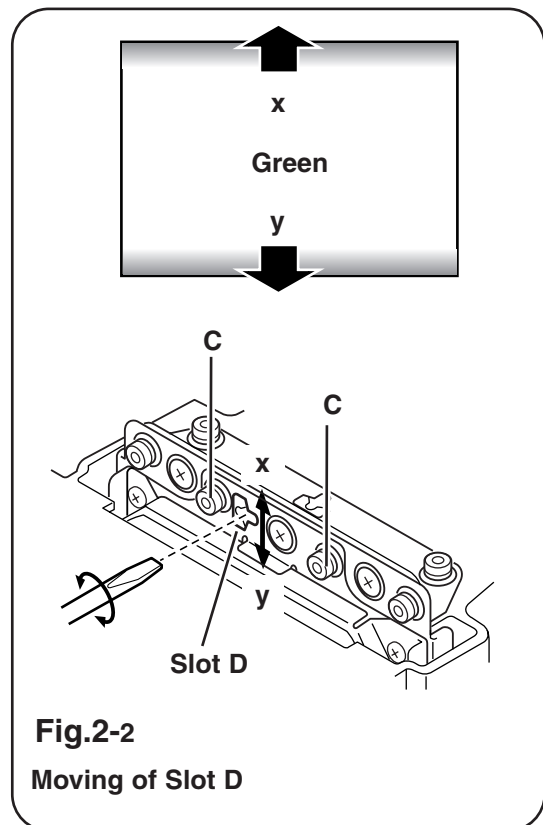
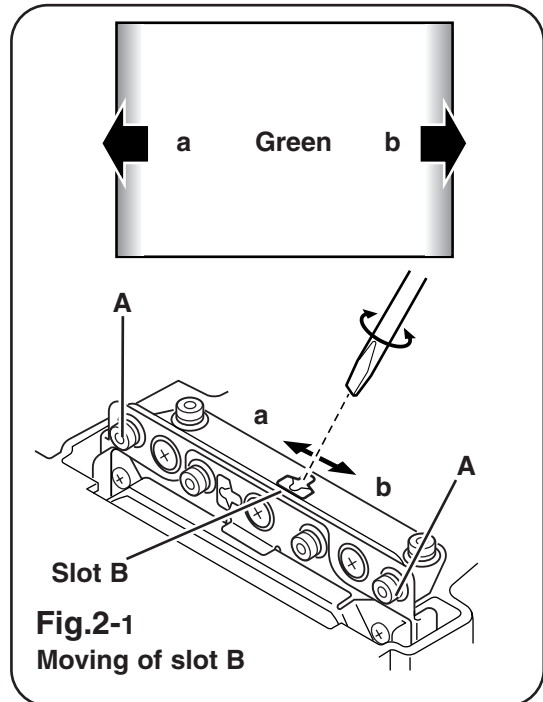
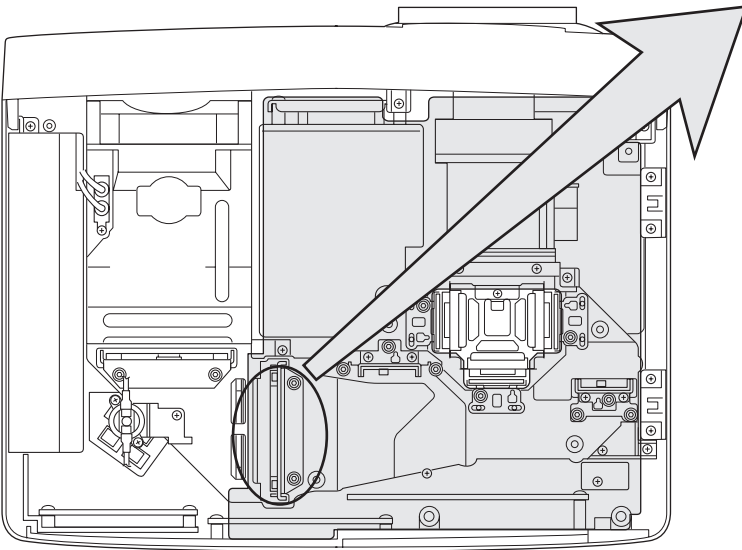
Fig.1-2

Condenser Lens adjustment

- 1 Turn the projector on by a state of without FPC cables.
- 2 Project only green light on the screen.
- 3 Adjust the adjustment base of condenser lens assy to make color uniformity in green.
 - 1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 2 screws **A** with the 2.0mm hex driver, and adjust the slot **B** to make color uniformity in green by using a slot screwdriver.
 - 2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C** with the 2.0mm hex driver, and adjust the slot **D** to make color uniformity in green by using a slot screwdriver.
- 4 Tighten screws **A** and **C** to fix the Condenser lens unit.

Note:

The relay lens adjustment must be carried out after completing this adjustment.



Condenser Lens-Out adjustment

- 1 Turn the projector on by a state of without FPC cables.
- 2 Project green and blue lights on the screen.
- 3 Adjust the adjustment base of condenser lens-out assy to make color uniformity in cyan.
 - 1) If the shading appears on the left or right of the screen as shown in **Fig.3-1**, loosen 1 screw **A** with the 2.0mm hex driver, and adjust the slot **B** to make color uniformity in cyan by using a slot screwdriver.
 - 2) If the shading appears on the top or bottom of the screen as shown in **Fig.3-2**, loosen 1 screw **C** with the 2.0mm hex driver, and adjust the slot **D** to make color uniformity in cyan by using a slot screw driver.
- 4 Tighten the screw **A** and **C** to fix the relay lens unit.

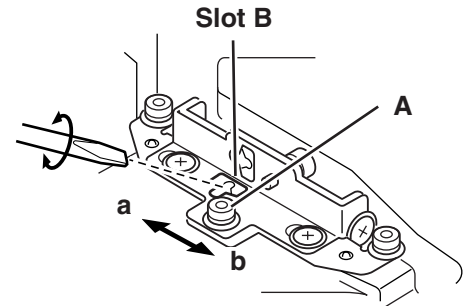
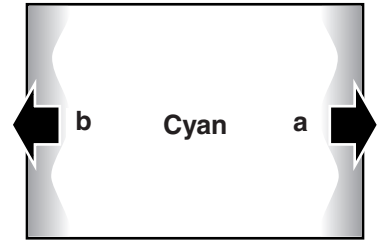


Fig.3-1
Moving of slot B

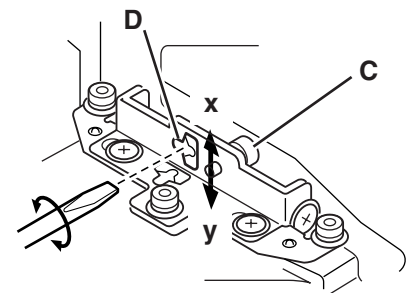
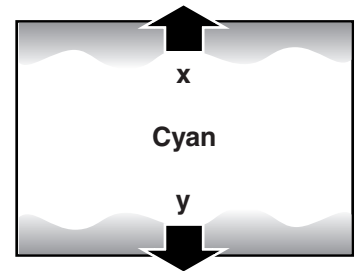
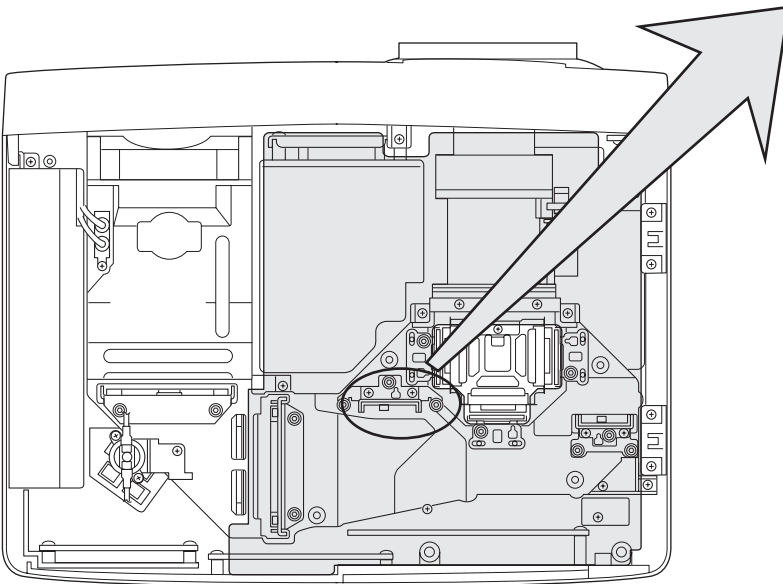


Fig.3-2
Moving of slot D

Relay lens-Out adjustment

- 1 Turn the projector on by a state of without FPC cables.
- 2 Project all of lights on the screen.
- 3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
 - 1) If the shading appears on the left or right of the screen as shown in **Fig.4-1**, loosen 1 screw **A** with the 2.0mm hex driver, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
 - 2) If the shading appears on the top or bottom of the screen as shown in **Fig.4-2**, loosen 1 screw **C** with the 2.0mm hex driver, and adjust the slot **D** to make color uniformity in white by using a slot screwdriver.
- 4 Tighten the screws **A** and **C** to fix the relay lens unit.

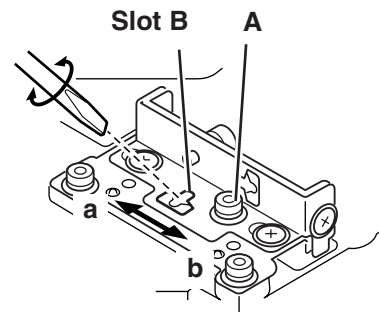
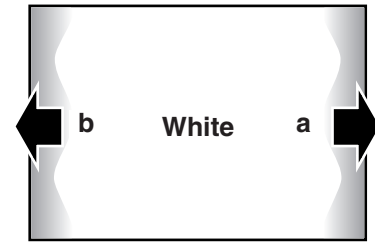
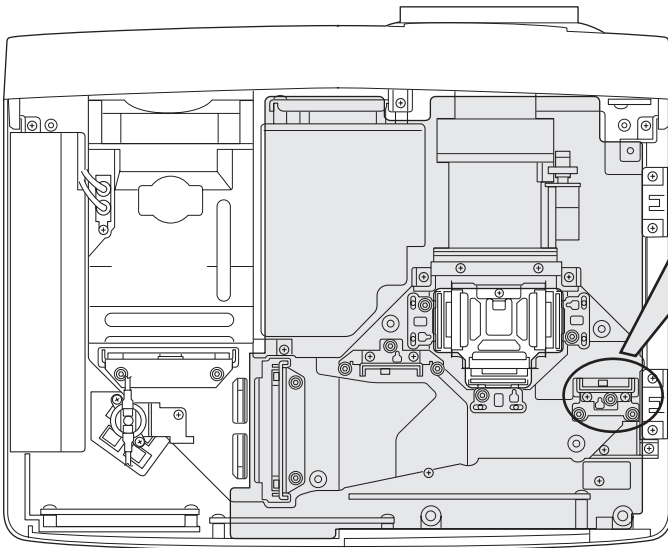


Fig.4-1
Moving of slot B

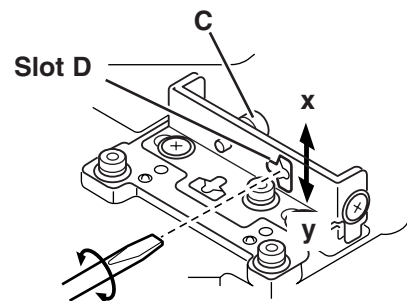
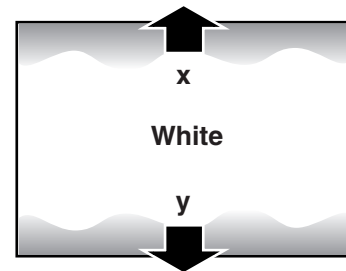


Fig.4-2
Moving of slot D

■ Electrical Adjustments

● Service Adjustment Menu Operation

To enter the service mode

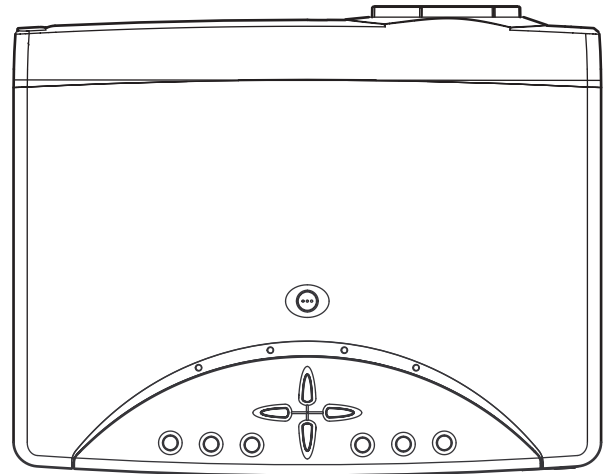
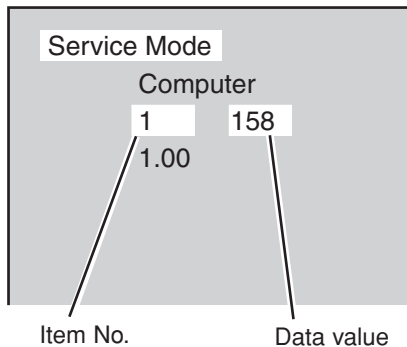
To enter the "Service Mode", press and hold the **MENU** and **IMAGE** button on the projector at the same time for more than 3 seconds. The service menu appears on the screen as follows.

To adjust service data

Select the adjustment item no. by pressing the **▲** or **▼** button, and change the data value by pressing the **◀** or **▶** button. Refer to the "Service Adjustment Data Table" for further description of adjustment item no. and data value.

To exit the service mode

To exit the service mode, press the **POWER ON-OFF** button on the projector or remote control unit.



● Memory IC Replacement

IC351 on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.

If replaced, the re-adjustments are required following to the "Electrical Adjustments".

The data of lamp replacement counter is stored in the IC351.

Please note that the lamp replace counter will be reset when the memory IC (IC351) is replaced.

(Lamp replace counter can not be set to the previous value.)

● Caution to memory IC replacement

When IC351 is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the

re-adjustments following to the "Electrical Adjustments". Please note that in this case the lamp replace counter will be reset.

● Caution of Main Board replacement (in the case IC351 is not defective)

When the main board is replaced, IC351 should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the "Electrical Adjustments". In this case, the lamp replace counter can be kept the value as before.

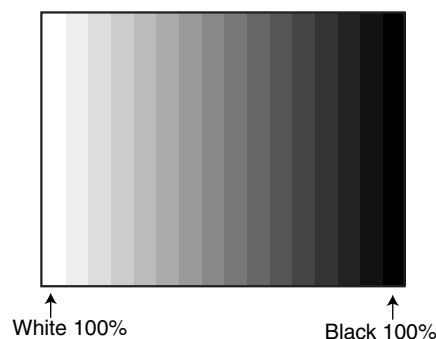
● Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

[Adjustment Condition]

- Input signal
 - Video signal 1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)
 - Computer signal 0.7Vp-p/75Ω terminated, 16 steps gray scale pattern (SVGA)
 - Component Video signal 0.7Vp-p/75Ω terminated, 16 steps gray scale (Component video signal with 480p or 1080i format)
- Picture control mode "STANDARD" mode unless otherwise noted.

16 steps gray scale pattern



Note:

* Please refer to "Service Adjustment Menu Operation" for entering the service mode and adjusting the service data.

Output Voltage adjustment

After replacing the Power Board, P.F.C. Board, readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pins 1 (+) and 3 (-) of **K6D**.
2. Adjust the voltage by using **VR611** as following.

<u>AC Input</u>	<u>Reading</u>
230V	370V ±2V

Caution:

Be sure to connect the lamp when taking this adjustment.

* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1 Fan Voltage adjustment

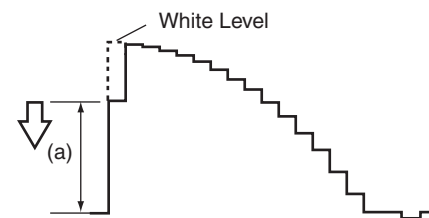
1. Set the lamp mode to "ECO" with the menu function.
2. Enter the service mode and select item no. "74". Set data value to "1".
3. Connect a digital voltmeter to test point "TP12V1" (+) and chassis ground (-). Select item no. "75" and adjust the voltage to be **8.0 ±0.1Vdc** by changing the Data value.
4. Connect a digital voltmeter to test point "TP12V2" (+) and chassis ground (-). Select item no. "76" and adjust the voltage to be **9.0 ±0.1Vdc** by changing the Data value.
5. Select item no. "74" and set data value to "3".
6. Connect a digital voltmeter to test point "TP12V1" (+) and chassis ground (-). Select item no. "77" and adjust the voltage to be **13.5 ±0.1Vdc** by changing the Data value.
7. Connect a digital voltmeter to test point "TP12V2" (+) and chassis ground (-). Select item no. "78" and adjust the voltage to be **13.5 ±0.1Vdc** by changing the Data value.
8. Select item no. "74" and set Data value to "0", and set the lamp mode to "Normal" with the menu function.

2 Signal Center adjustment

1. Receive the 16-step gray scale computer signal with **Computer [Analog RGB]** mode.
2. Enter the service mode.
3. Connect a digital voltmeter to test point "TP505R" (+) and chassis ground (-).
4. Select item no. "1" and adjust the voltage to be **7.50 ± 0.1 Vdc** by changing the Data value.
5. Connect a digital voltmeter to test point "TP503G" (+) and chassis ground (-).
6. Select item no. "2" and adjust the voltage to be **7.50 ± 0.1 Vdc** by changing the Data value.
7. Connect a digital voltmeter to test point "TP501B" (+) and chassis ground (-).
8. Select item no. "3" and adjust the voltage to be **7.50 ± 0.1 Vdc** by changing the Data value.

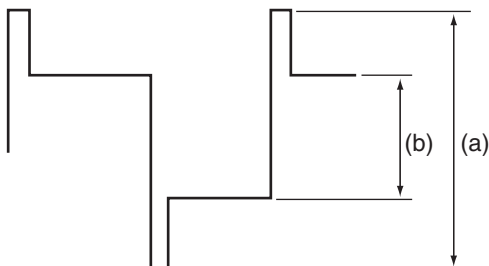
4 Gain adjustment (PC)

1. Receive the 16-step gray scale computer signal with **Computer [Analog RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP505R" (+) and chassis ground (-).
4. Select item no. "4" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TP503G" (+) and chassis ground (-).
6. Select item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TP501B" (+) and chassis ground (-).
8. Select item no. "6" and adjust the amplitude "a" to be minimum by changing the Data value.



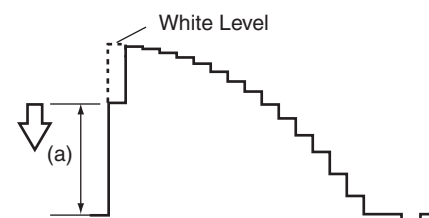
3 PSIG adjustment

1. Receive the 16-step gray scale computer signal with **Computer [Analog RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP3501" (+) and chassis ground (-).
4. Select item no. "22" and adjust the amplitude "a" to be **10.0 ± 0.1 V** by changing the Data value.
5. Select item no. "23" and adjust the amplitude "b" to be **3.8 ± 0.1 V** by changing the Data value.



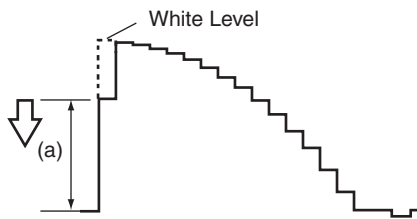
5 Gain adjustment (Video)

1. Receive the 16-step gray scale composite video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP505R" (+) and chassis ground (-).
4. Select item no. "4" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TP503G" (+) and chassis ground (-).
6. Select item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TP501B" (+) and chassis ground (-).
8. Select item no. "6" and adjust the amplitude "a" to be minimum by changing the Data value.



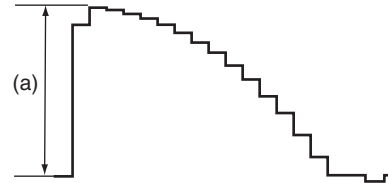
6 Gain adjustment (Component)

1. Receive the 16-step gray scale component video signal [480i] with **Video [Y,Cr,Cb]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP505R" (+) and chassis ground (-).
4. Select item no. "4" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TP503G" (+) and chassis ground (-).
6. Select item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TP501B" (+) and chassis ground (-).
8. Select item no. "6" and adjust the amplitude "a" to be minimum by changing the Data value.



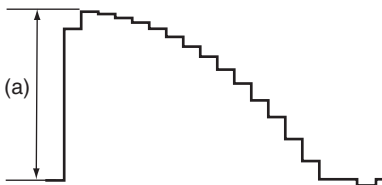
8 Gamma Gain adjustment (AV)

1. Receive the 16-step gray scale composite video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP505R" (+) and chassis ground (-).
4. Select item no. "13" and adjust the amplitude "a" to be $4.0 \pm 0.1V$ by changing the Data value.
5. Connect an oscilloscope to test point "TP503G" (+) and chassis ground (-).
6. Select item no. "14" and adjust the amplitude "a" to be $4.0 \pm 0.1V$ by changing the Data value.
7. Connect an oscilloscope to test point "TP501B" (+) and chassis ground (-).
8. Select item no. "15" and adjust the amplitude "a" to be $4.0 \pm 0.1V$ by changing the Data value.



7 Gamma Gain adjustment (PC)

1. Receive the 16-step gray scale computer signal with **Computer [Analog RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP505R" (+) and chassis ground (-).
4. Select item no. "13" and adjust the amplitude "a" to be $4.0 \pm 0.1V$ by changing the Data value.
5. Connect an oscilloscope to test point "TP503G" (+) and chassis ground (-).
6. Select item no. "14" and adjust the amplitude "a" to be $4.0 \pm 0.1V$ by changing the Data value.
7. Connect an oscilloscope to test point "TP501B" (+) and chassis ground (-).
8. Select item no. "15" and adjust the amplitude "a" to be $4.0 \pm 0.1V$ by changing the Data value.

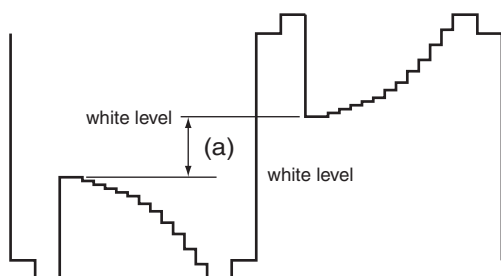


9 Common Center adjustment

1. Receive the 1 dot black & white pattern computer signal with **Computer [Analog RGB]** mode.
2. Enter the service mode.
3. Project only red light component to the screen.
4. Select item no. "19" and change data value to obtain the minimum flicker on the screen.
6. Project only green light component to the screen.
7. Select item no. "20" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no. "21" and change data value to obtain the minimum flicker on the screen.

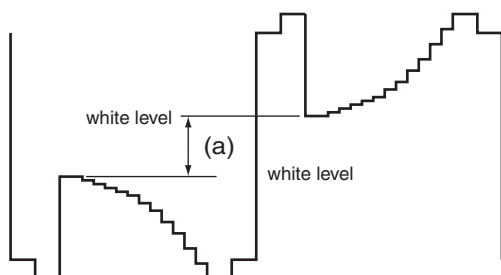
10 Signal Offset adjustment (PC)

1. Receive the 16-step gray scale computer signal with **Computer [Analog RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP503G" (+) and chassis ground (-).
4. Select item no. "10" and adjust the amplitude "a" to be $2.4 \pm 0.1V$ by changing the Data value.



11 Signal Offset adjustment (AV)

1. Receive the 16-step gray scale composite video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP503G" (+) and chassis ground (-).
4. Select item no. "10" and adjust the amplitude "a" to be $2.4 \pm 0.1V$ by changing the Data value.



12 White Balance adjustment

[PC WHITE BALANCE ADJUSTMENT]

1. Receive the 16-step gray scale computer signal with **Computer [Analog RGB]** mode.
2. Enter the service mode, select item no. "11" (Red) or "12" (Blue), and change Data values respectively to make a proper white balance.

[AV WHITE BALANCE ADJUSTMENT]

3. Receive the 16-step gray scale composite video signal with **Video [Video]** mode.
4. Enter the service mode, select item no. "11" (Red) or "12" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

NOTE ON WHITE UNIFORMITY ADJUSTMENT

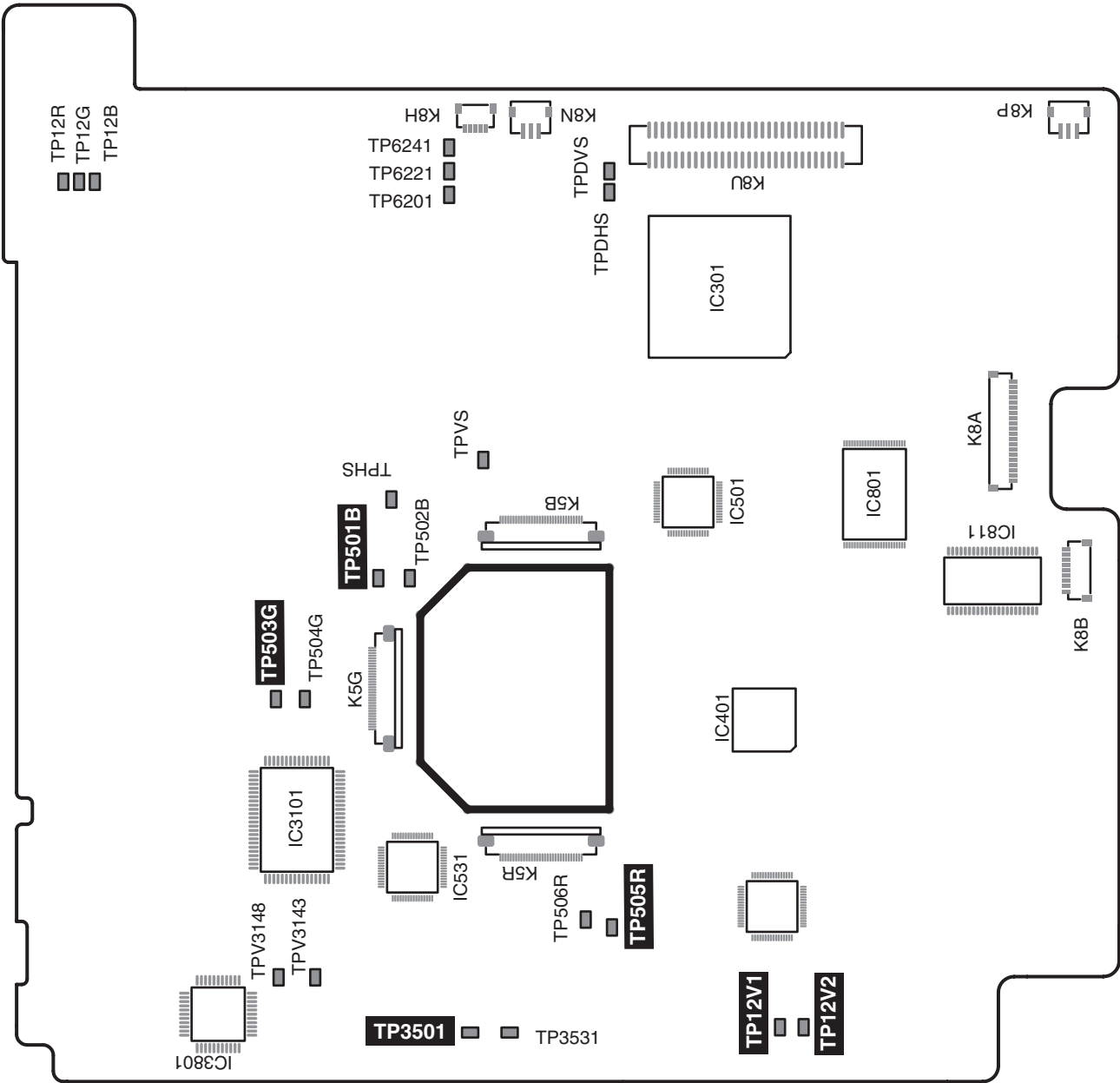
If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately. The software can be ordered as follows;

COLOR SHADING CORRECTION ver.. 3.0

Service Parts No. 645 056 6288

Test Points and Locations

● MAIN BOARD



● Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with “*” are required to readjust following to the “Electrical adjustments”. Other items should be used with the initial data value.

Item No.	Name	Device	Initial				Detail
			PC	YCbCr	Video		
					NTSC	PAL	
1	R-VIDEOCNT	M62392P/FP	150	150	150		✳ Video Center Adjustment
2	G-VIDEOCNT	M62392P/FP	150	150	150		
3	B-VIDEOCNT	M62392P/FP	150	150	150		
4	R-SubGain	CXD3526GG	124	124	124		✳ Gain Adjustment
5	G-SubGain	CXD3526GG	124	124	124		
6	B-SubGain	CXD3526GG	124	124	124		
7	R-SubBright	CXD3526GG	0	0	0		
8	G-SubBright	CXD3526GG	0	0	0		
9	B-SubBright	CXD3526GG	0	0	0		
10	G SIG-OFST	M62392P/FP	120	120	120		✳ Signal Offset Adjustment
11	B SIG-OFST	M62392P/FP	120	120	120		✳ White Balance Adjustment
12	R SIG-OFST	M62392P/FP	120	120	120		✳ White Balance Adjustment
13	R-GammaGain	CXD3526GG	128	128	128		✳ Gamma Gain Adjustment
14	G-GammaGain	CXD3526GG	128	128	128		
15	B-GammaGain	CXD3526GG	128	128	128		
16							
17							
18							
19	RVCOM	M62392P/FP		60			✳ Common Center Adjustment
20	GVCOM	M62392P/FP		60			
21	BVCOM	M62392P/FP		60			
22	SID1	M62392P/FP		60			✳ PSIG Adjustment
23	SID0	M62392P/FP		140			
24	SubBright	Matrix	63	62	62	62	
25	SubColor	Matrix	0	9	9	9	
26	SubTint	Matrix	32	32	32	32	
27	SubSharpness	Matrix	15	0	0	0	
28	SubBright(Video)	Micronas	N/A		16	14	
29	SubCont(Video)	Micronas	N/A		59	61	
30	SubColor(Video)	Micronas	N/A		2070	2070	
31	SubTint(Video)	Micronas	N/A		0	0	
32	YC Delay	Micronas	N/A		62	62	
33	SubSharpness	PW164	N/A		1	1	
34	V-Line Color Shading Correction Setting (R_OFFSET 1)	CXD3526GG	0			R-Vertical Line Color Shading Correction	
35	V-Line Color Shading Correction Setting (R_OFFSET 2)	CXD3526GG	0				
36	V-Line Color Shading Correction Setting (R_OFFSET 3)	CXD3526GG	0				
37	V-Line Color Shading Correction Setting (R_OFFSET 4)	CXD3526GG	0				
38	V-Line Color Shading Correction Setting (R_OFFSET 5)	CXD3526GG	0				
39	V-Line Color Shading Correction Setting (R_OFFSET 6)	CXD3526GG	0				
40	V-Line Color Shading Correction Setting (R_OFFSET 7)	CXD3526GG	0				
41	V-Line Color Shading Correction Setting (R_OFFSET 8)	CXD3526GG	0				
42	V-Line Color Shading Correction Setting (R_OFFSET 9)	CXD3526GG	0				
43	V-Line Color Shading Correction Setting (R_OFFSET 10)	CXD3526GG	0				
44	V-Line Color Shading Correction Setting (R_OFFSET 11)	CXD3526GG	0				
45	V-Line Color Shading Correction Setting (R_OFFSET 12)	CXD3526GG	0				
46	V-Line Color Shading Correction Setting (G_OFFSET 1)	CXD3526GG	0			G-Vertical Line Color Shading Correction	
47	V-Line Color Shading Correction Setting (G_OFFSET 2)	CXD3526GG	0				
48	V-Line Color Shading Correction Setting (G_OFFSET 3)	CXD3526GG	0				
49	V-Line Color Shading Correction Setting (G_OFFSET 4)	CXD3526GG	0				
50	V-Line Color Shading Correction Setting (G_OFFSET 5)	CXD3526GG	0				
51	V-Line Color Shading Correction Setting (G_OFFSET 6)	CXD3526GG	0				
52	V-Line Color Shading Correction Setting (G_OFFSET 7)	CXD3526GG	0				
53	V-Line Color Shading Correction Setting (G_OFFSET 8)	CXD3526GG	0				
54	V-Line Color Shading Correction Setting (G_OFFSET 9)	CXD3526GG	0				
55	V-Line Color Shading Correction Setting (G_OFFSET 10)	CXD3526GG	0				
56	V-Line Color Shading Correction Setting (G_OFFSET 11)	CXD3526GG	0				
57	V-Line Color Shading Correction Setting (G_OFFSET 12)	CXD3526GG	0				
58	V-Line Color Shading Correction Setting (B_OFFSET 1)	CXD3526GG	0			B-Vertical Line Color Shading Correction	
59	V-Line Color Shading Correction Setting (B_OFFSET 2)	CXD3526GG	0				
60	V-Line Color Shading Correction Setting (B_OFFSET 3)	CXD3526GG	0				

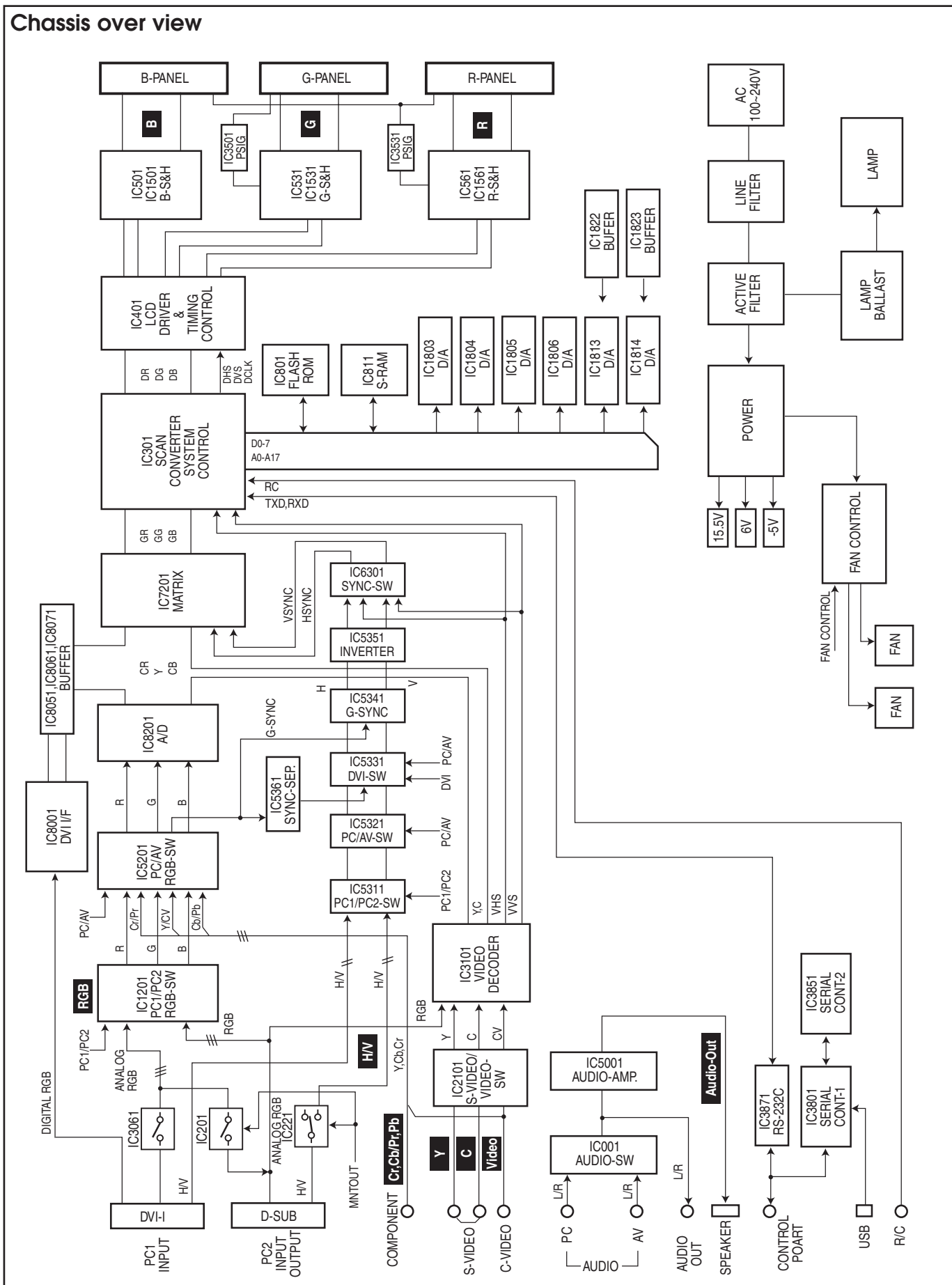
Electrical Adjustments

Item No.	Name	Device	Initial				Detail	
			PC	YCbCr	Video			
					NTSC	PAL		
61	V-Line Color Shading Correction Setting (B_OFFSET 4)	CXD3526GG	0					
62	V-Line Color Shading Correction Setting (B_OFFSET 5)	CXD3526GG	0					
63	V-Line Color Shading Correction Setting (B_OFFSET 6)	CXD3526GG	0					
64	V-Line Color Shading Correction Setting (B_OFFSET 7)	CXD3526GG	0					
65	V-Line Color Shading Correction Setting (B_OFFSET 8)	CXD3526GG	0					
66	V-Line Color Shading Correction Setting (B_OFFSET 9)	CXD3526GG	0					
67	V-Line Color Shading Correction Setting (B_OFFSET 10)	CXD3526GG	0					
68	V-Line Color Shading Correction Setting (B_OFFSET 11)	CXD3526GG	0					
69	V-Line Color Shading Correction Setting (B_OFFSET 12)	CXD3526GG	0					
70	Color Shading Correction ONA^OFF	CXD3526GG	1					
71	LampLifeTime						Read Only	
72	BaudRate		1				0:9600/ 1:19200/ 2:38400	
73	ShootOutMode		0				0:Normal/ 1:Shoot out1/ 2:Shoot out2	
	FAN CONTROL						Range	※ Fan Voltage Adjustment [No. 74- No.78]
74	Fan Speed Mode	TempNode	0				0-3	0:Auto Fan Control 1:Min 2:Mid 3:Max
75	Fan1 Min Data	TempNode	50				0-127	
76	Fan2 Min Data	TempNode	75				0-127	
77	Fan1 Max Data	TempNode	224				128-255	
78	Fan2 Max Data	TempNode	224				128-255	
79	Temp Low	TempNode	37				10-80	
80	Temp High	TempNode	45				30-80	
81	Fan1 Temp Error	TempNode	52				30-80	
82	Fan2 Temp Error	TempNode	47				30-80	
83	OverTempCount	TempNode	5				1-9	
84	SensorErrorCount	TempNode	5				1-9	
85	TempDeltaErrorCount	TempNode	5				1-9	
86	TempDeltaEnableRange	TempNode	80				48-160	48: 3°C - 160: 10°C 0.0625°C/step
87	Sampling	TempNode	4				3-9	3:1.5sec - 9:4.5sec 0.5sec/step
88	Cooling Time	TempNode	3				0-6	n x 30 sec.
89	InitialLevel	TempNode	170				80-255	
90	InitialTime	TempNode	1				1-30	
91	IgnoreTempFail	TempNode	3				1-5	
92	Highland Mode	TempNode	0				0-1	
93								
	KEY CONTROL						Range	
95	KeyControlPermitation		0				0.2	0: No key prohibition, 1: RC key prohibition 2: Projector key prohibition
	VPC3230		PC	YCbCr	NTSC	PAL		
96	Notch Filter Select	VPC3230	N/A		3	3		
97	diagonal dot reduction	VPC3230	N/A		1	1		
98	horizontal differential gain	VPC3230	N/A		3	3		
99	vertical differential gain	VPC3230	N/A		2	2		
100	vertical peaking gain	VPC3230	N/A		7	7		
101	AFC other1	VPC3230	N/A		540	540		
102	AFC other2	VPC3230	N/A		536	536		
103	Horizontal PeakingFilter	VPC3230	N/A		1	1		
104	Peaking Gain	VPC3230	N/A		2	2		
105	peaking filter coring enable	VPC3230	N/A		0	0		
	AGC On/Off							
106	Horizontal Lowpass Filter	VPC3230	N/A		1	1		
107	Horizontal Lowpass Filter Chroma	VPC3230	N/A		0	0		
108	DOR	VPC3230	N/A		0	0		
109	COR	VPC3230	N/A		0	0		
110	SGAIN	VPC3230	N/A		14	14		
	SHIPMENT							
112	Shipment setting		0				Restore the user control data to the initial value when this value changes 0 to 1.	
	VPC3230 for SCART							
120	Brightness of the RGB/YUV	VPC3230	N/A		68	68		
121	Contrast of the RGB/YUV	VPC3230	N/A		23	23		

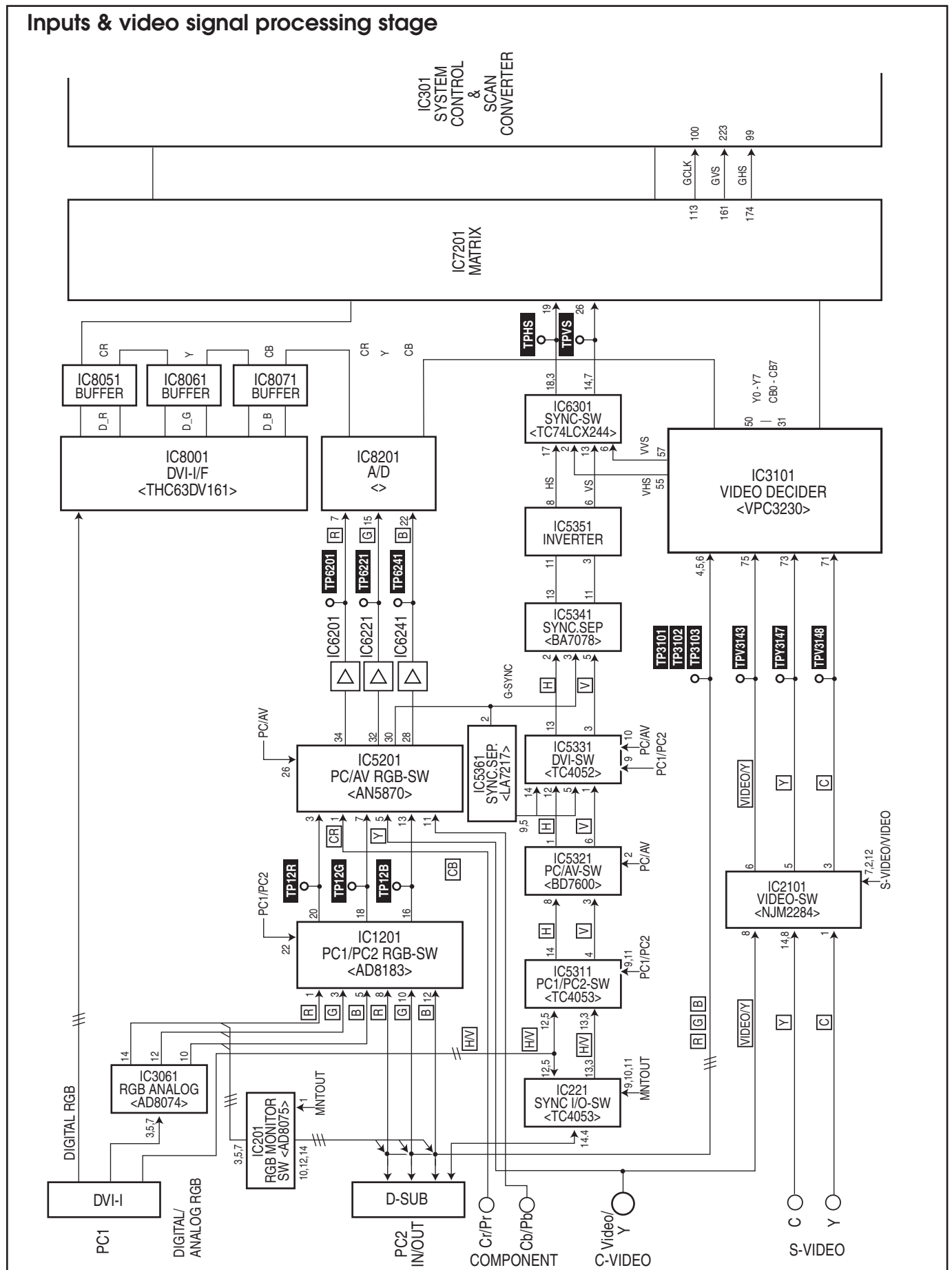
Item No.	Name	Device	Initial				Detail	
			PC	YCbCr	Video			
					NTSC	PAL		
	ADC							
272	REDGAIN	AD9884	180	212	N/A			
273	GRNGAIN	AD9884	180	212	N/A			
274	BLUGAIN	AD9884	180	212	N/A			
275	REDOFST	AD9884	32		N/A			
276	GRNOFST	AD9884	32		N/A			
277	BLUOFST	AD9884	32		N/A			
278	CLDUR	AD9884	56	28	N/A			
279	CLPLACE	AD9884	5	5	N/A			
	OverScan							
297	Expand Ratio (Vertical) 60Hz	PIXEL	N/A		13	N/A	Video and S-Video mode only.	
298	Expand Ratio (Horizontal) 60Hz	PIXEL	N/A		18	N/A		
299	Position (Horizontal) 60Hz	PIXEL	N/A		494	N/A		
300	Position (Vertical) 60Hz	PIXEL	N/A		393	N/A		
301	Expand Ratio (Vertical) 50Hz	PIXEL	N/A				18	
302	Expand Ratio (Horizontal) 50Hz	PIXEL	N/A				27	
303	Position (Horizontal) 50Hz	PIXEL	N/A				502	
304	Position (Vertical) 50Hz	PIXEL	N/A				396	
305	Expand Ratio (Vertical) 480i	PIXEL	14		N/A		For Component mode	
306	Expand Ratio (Horizontal) 480i	PIXEL	18		N/A			
307	Position (Horizontal) 480i	PIXEL	521		N/A			
308	Position (Vertical) 480i	PIXEL	393		N/A			
309	Expand Ratio (Vertical) 575i	PIXEL	20		N/A		For Component mode	
310	Expand Ratio (Horizontal) 575i	PIXEL	25		N/A			
311	Position (Horizontal) 575i	PIXEL	515		N/A			
312	Position (Vertical) 575i	PIXEL	398		N/A			
313	Expand Ratio (Vertical) 480p	PIXEL	N/A	11	N/A		For Component mode	
314	Expand Ratio (Horizontal) 480p	PIXEL	N/A	13	N/A			
315	Position (Horizontal) 480p	PIXEL	N/A	523	N/A			
316	Position (Vertical) 480p	PIXEL	N/A	386	N/A			
317	Expand Ratio (Vertical) 575p	PIXEL	N/A	22	N/A		For Component mode	
318	Expand Ratio (Horizontal) 575p	PIXEL	N/A	29	N/A			
319	Position (Horizontal) 575p	PIXEL	N/A	520	N/A			
320	Position (Vertical) 575p	PIXEL	N/A	388	N/A			
321	Expand Ratio (Vertical) 720p	PIXEL	N/A	11	N/A		For Component mode	
322	Expand Ratio (Horizontal) 720p	PIXEL	N/A	16	N/A			
323	Position (Horizontal) 720p	PIXEL	N/A	523	N/A			
324	Position (Vertical) 720p	PIXEL	N/A	384	N/A			
325	Expand Ratio (Vertical) 1035i	PIXEL	36		N/A		For Component mode and RGB HDTV 1035i	
326	Expand Ratio (Horizontal) 1035i	PIXEL	14		N/A			
327	Position (Horizontal) 1035i	PIXEL	512		N/A			
328	Position (Vertical) 1035i	PIXEL	393		N/A			
329	Expand Ratio (Vertical) 1080i	PIXEL	15		N/A		For Component mode and RGB HDTV 1080i	
330	Expand Ratio (Horizontal) 1080i	PIXEL	14		N/A			
331	Position (Horizontal) 1080i	PIXEL	512		N/A			
332	Position (Vertical) 1080i	PIXEL	392		N/A			
333	Expand Ratio (Vertical) 60Hz	PIXEL	13	N/A			RGB NTSC	
334	Expand Ratio (Horizontal) 60Hz	PIXEL	18	N/A				
335	Position (Horizontal) 60Hz	PIXEL	511	N/A				
336	Position (Vertical) 60Hz	PIXEL	391	N/A				
337	Expand Ratio (Vertical) 50Hz	PIXEL	18	N/A			RGB PAL	
338	Expand Ratio (Horizontal) 50Hz	PIXEL	27	N/A				
339	Position (Horizontal) 50Hz	PIXEL	512	N/A				
340	Position (Vertical) 50Hz	PIXEL	394	N/A				
341	Expand Ratio (Vertical) 50Hz	PIXEL	13		N/A		1080i_50Hz	
342	Expand Ratio (Horizontal) 50Hz	PIXEL	13		N/A			
343	Position (Horizontal) 50Hz	PIXEL	508		N/A			
344	Position (Vertical) 50Hz	PIXEL	387		N/A			
	M62393							
350	Light Adjustment System	M62393P/FP	255					
351	R_VREF	M62393P/FP	255					
352	G_VREF	M62393P/FP	255					
353	B_VREF	M62393P/FP	255					
	POWER MANAGEMENT							
354	Power management test Mode		0				0: Normal, 1: Test Mode	

Chassis Block Diagrams

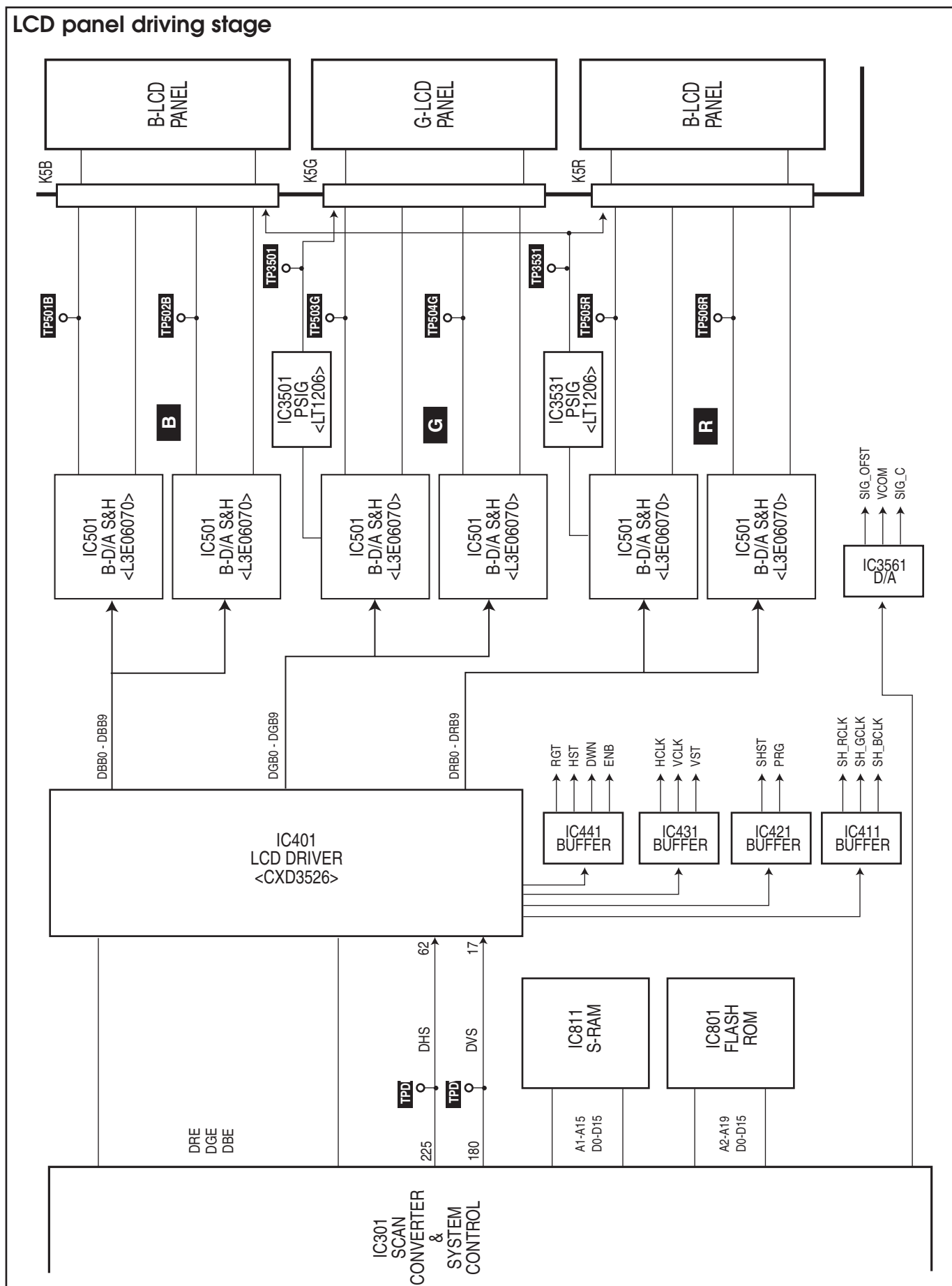
Chassis over view



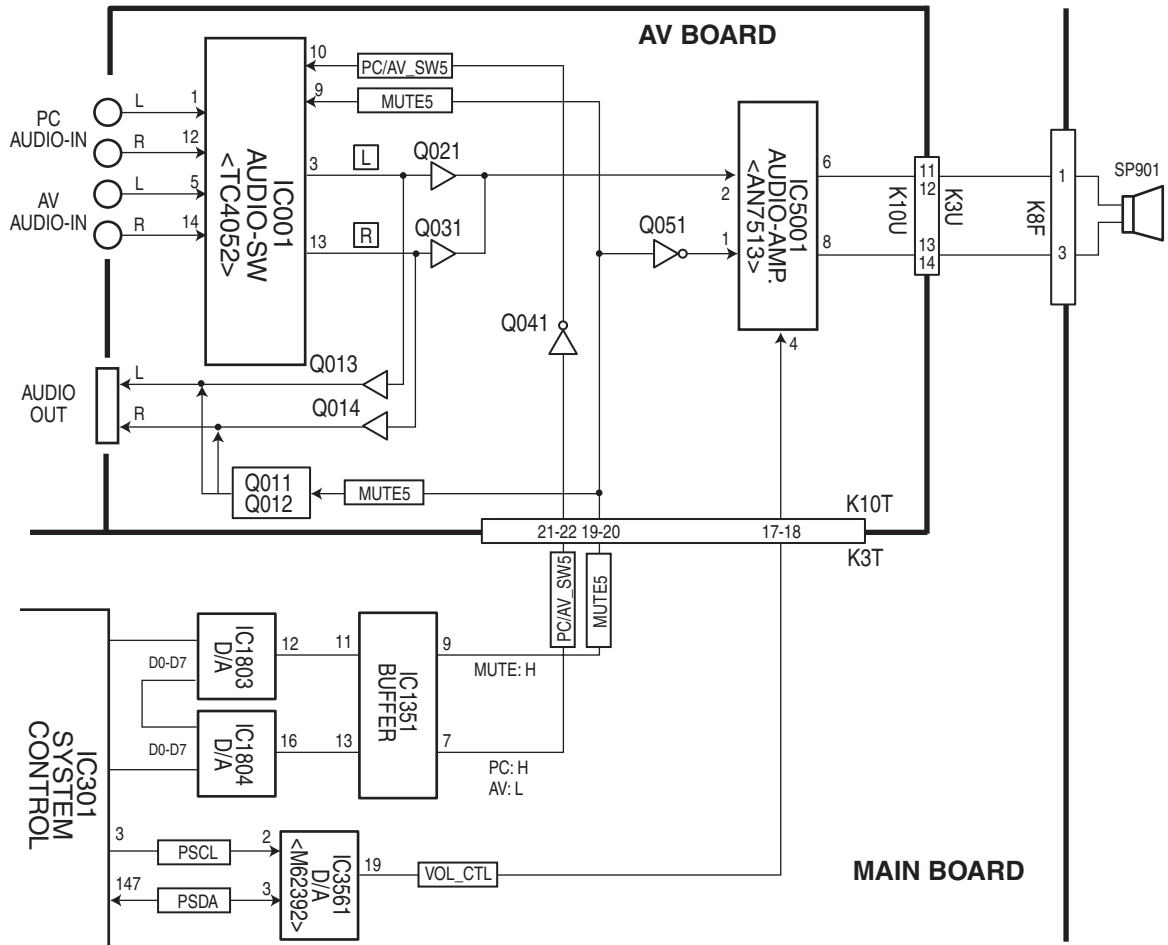
Inputs & video signal processing stage



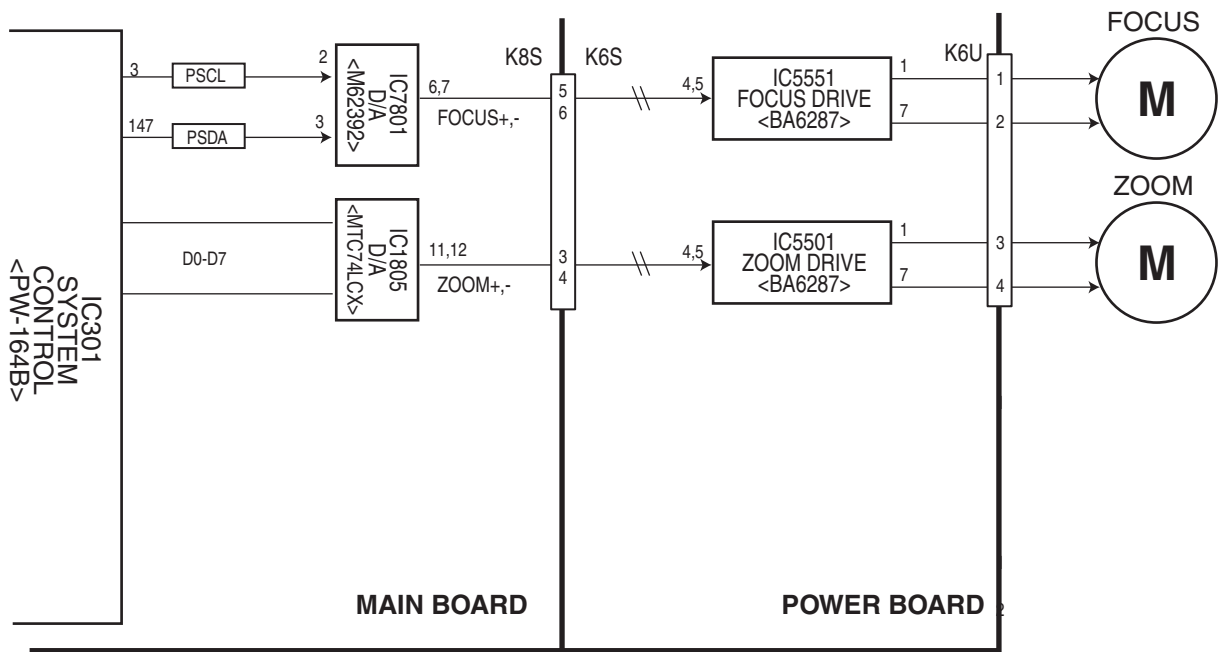
LCD panel driving stage



Audio signal processing circuit



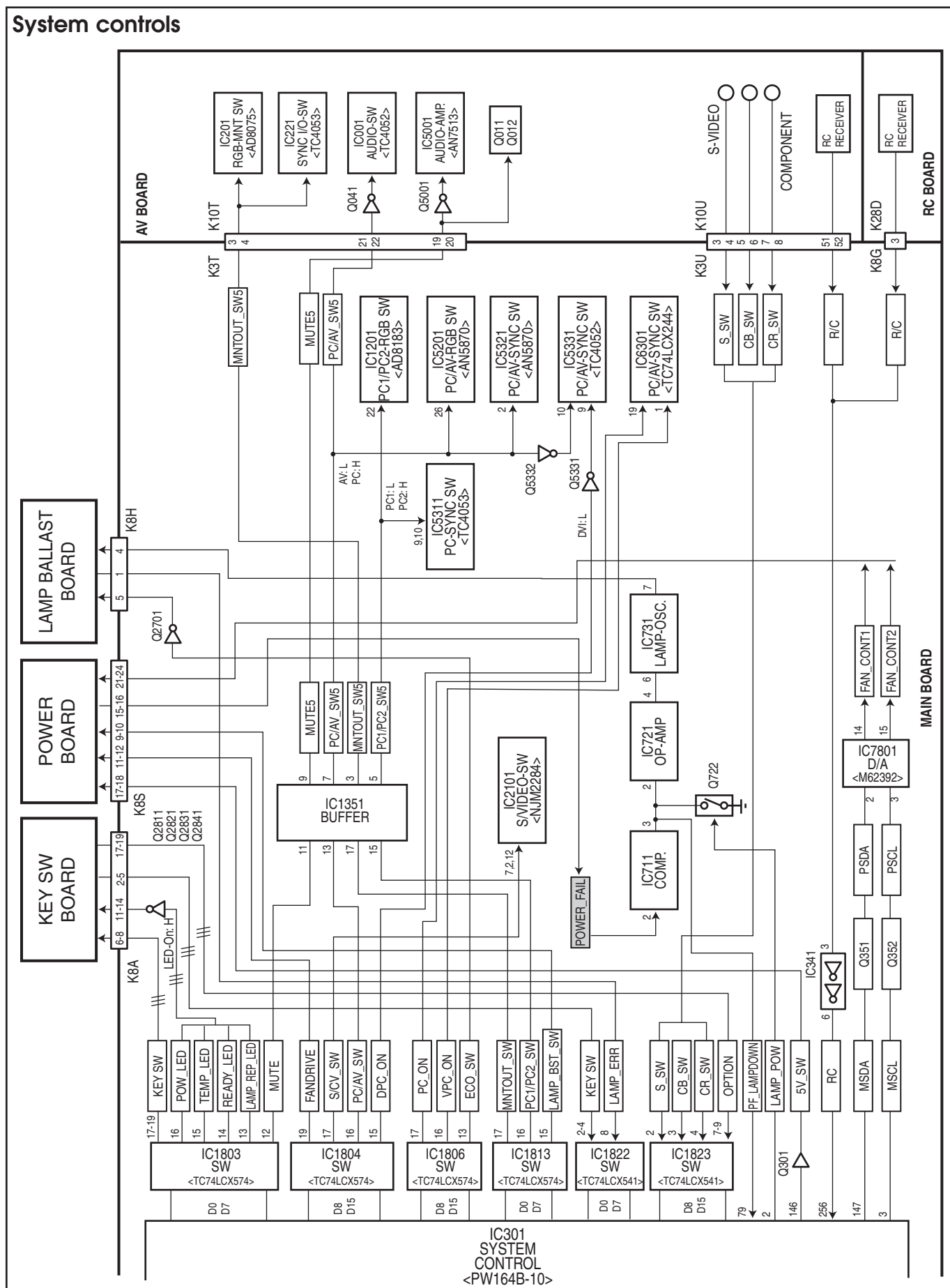
Motor driving circuit



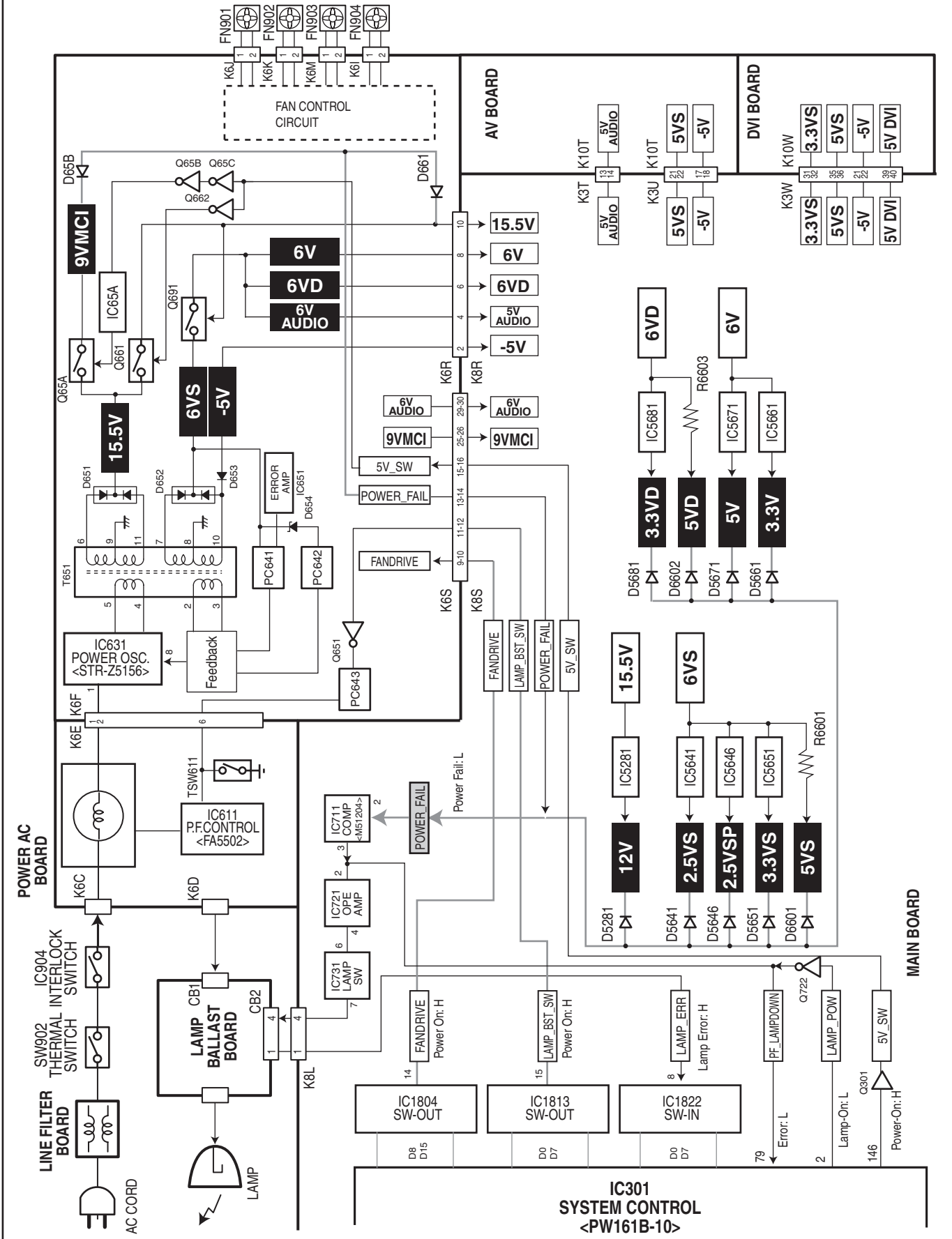
Logic Table of Drive ICs (IC5501,IC5551)

Input		Output		Operation
4	5	7	1	
H	L	L	H	Forward drive
L	H	H	L	Reverse drive
H	H	L	L	Braking Mode
L	L	Open	Open	Standby Mode

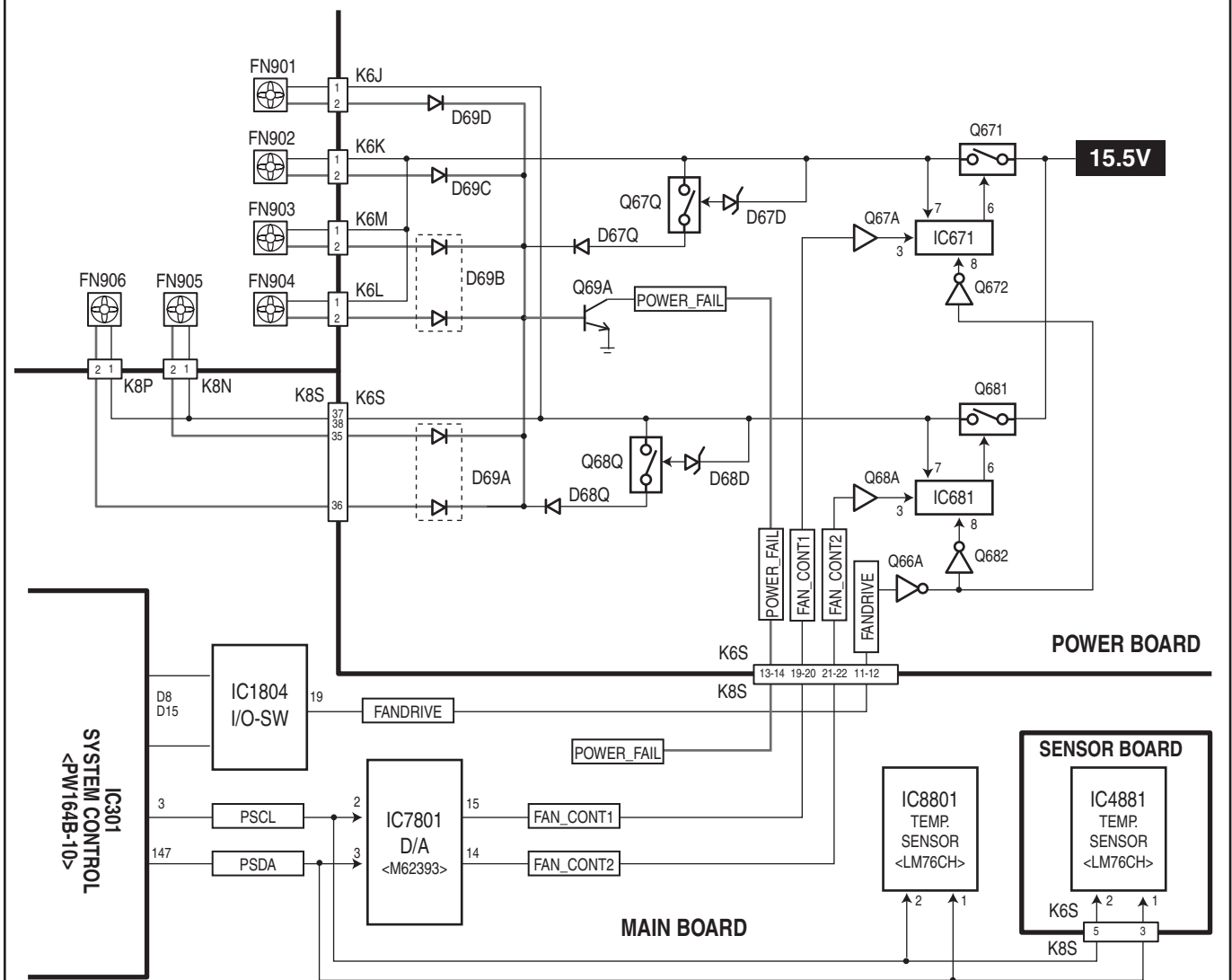
System controls



Power supply & protection circuit



Fan control circuit



■ Troubleshooting

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs on the control panel. Connect the AC cord and press the Power button once and then check the LED indication.

- **When all the LED indicators are not lighting**, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;

- AC cord
- F601 (Fuse)
- Line filter board
- SW902 (Thermal sw.)short in normal
SW902 opens when the surrounding temperature of the switch exceeds 100°C.
- SW904 (Interlock sw.)short in normal
Check the lamp cover is fixed firmly. The projector cannot turn on with lamp cover removal.

- **When the WARNING TEMP indicator (red) is flashing**, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the WARNING TEMP indicator flashing stops, and then try to turn on the projector.

The internal temperature is monitored by sensor ICs, IC4801 on the Temp board and IC8801 on the Main board.

- **When both of the TEMP WARNING (red) and READY (green) indicators are flashing at the same time**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.

An abnormality occurs on the secondary power supply;

Check power supplies 15.5V, 6VS, 5VS, -5V. PF_LAMPDOWN signal (Error: L) is sent to pin 79 of IC301 when the power error occurs. PF_LAMPDOWN signal is output from pin 3 of IC711 driven by POWER_FAIL (Error: L) signal on pin 2. When IC301, system control, detect s“L” on pin 79, IC301 sets the projector into the standby mode and indicates error mode with the LEDs flashing.

An abnormality occurs on the fans operation;

Check FN901, FN902, FN903, FN904, FN905, FN906.

An abnormality occurs on the power failure detection circuit;

Check Q69A, Q68P, Q87P, D68P, D67P on the power board, IC711, and Q722 on the Main board.

An abnormality occurs on the drive signals;

5V_SW signal (Power-on: H) is output from pin 146 of IC301 to Q661, IC65A through Q301 on the Main board and Q662, Q65B and Q65C on the Power board.

FANDRIVE signal (Power-on: H) is output from pin 14 of IC1804 to IC671 and IC681 through Q672 and Q682 on the Power board.

LAMP-BST-SW signal (Power-on: H) is output from pin 15 of IC1813 to IC611 on the P.F. board through Q651 and PC643 on the Power board.

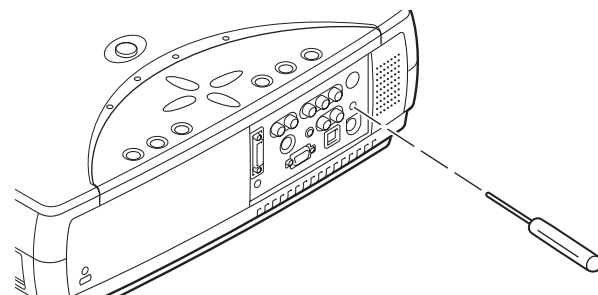
LAMP_POW signal (Power-on: L) is output from pin 2 of IC301 to lamp ballast board through the lamp switch circuit, IC711, IC721 and IC731.

- **When the POWER indicator (red) is lighting**, the symptom indicates that the projector detected an abnormality in the circuit but is not specified error. Check the following;

Lamp cannot turn on, check following signals;
LAMP_ERR signal (Error: H) is sent from the lamp ballast board and input to pin 8 of IC1822.
LAMP_POW signal (Power-on: L) is output from pin 2 of IC301 to lamp ballast board through the lamp switch circuit, IC711, IC721 and IC731.

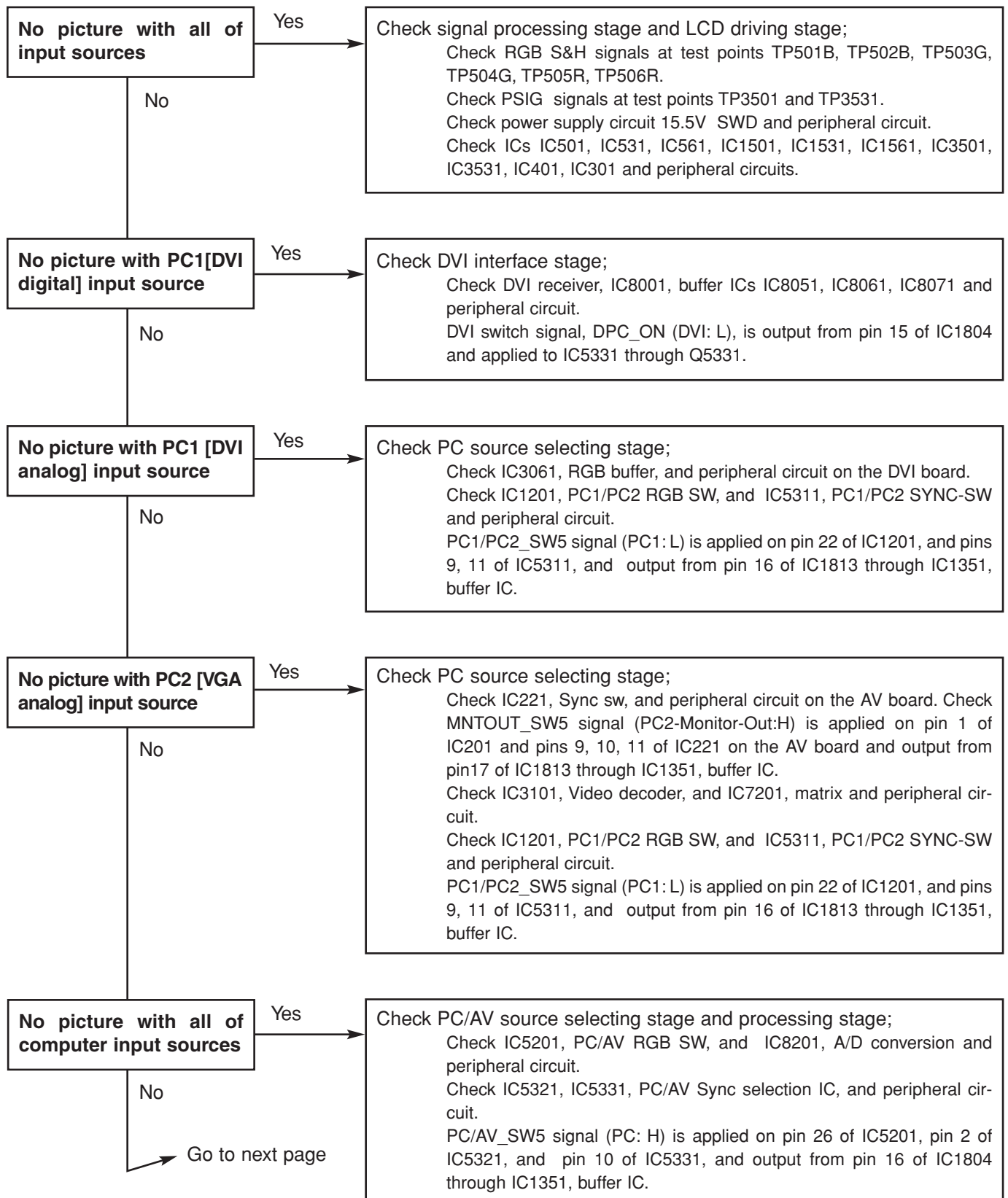
Reset switch

The microprocessor inside the projector may occasionally malfunction and does not allow any controls. In this case, press the reset switch on the rear panel with a sharp tool to restart the projector.

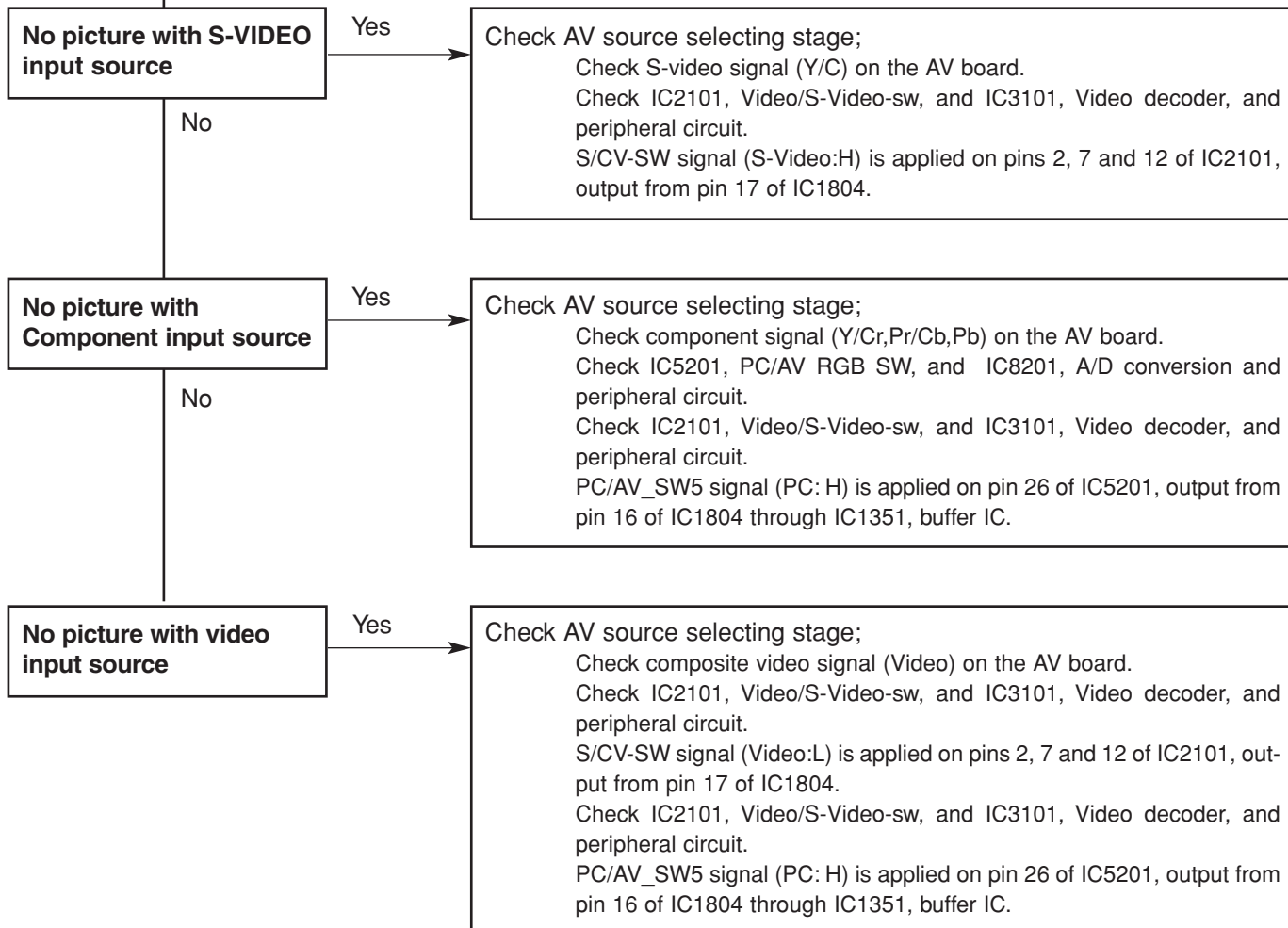


No Picture

Check following steps.

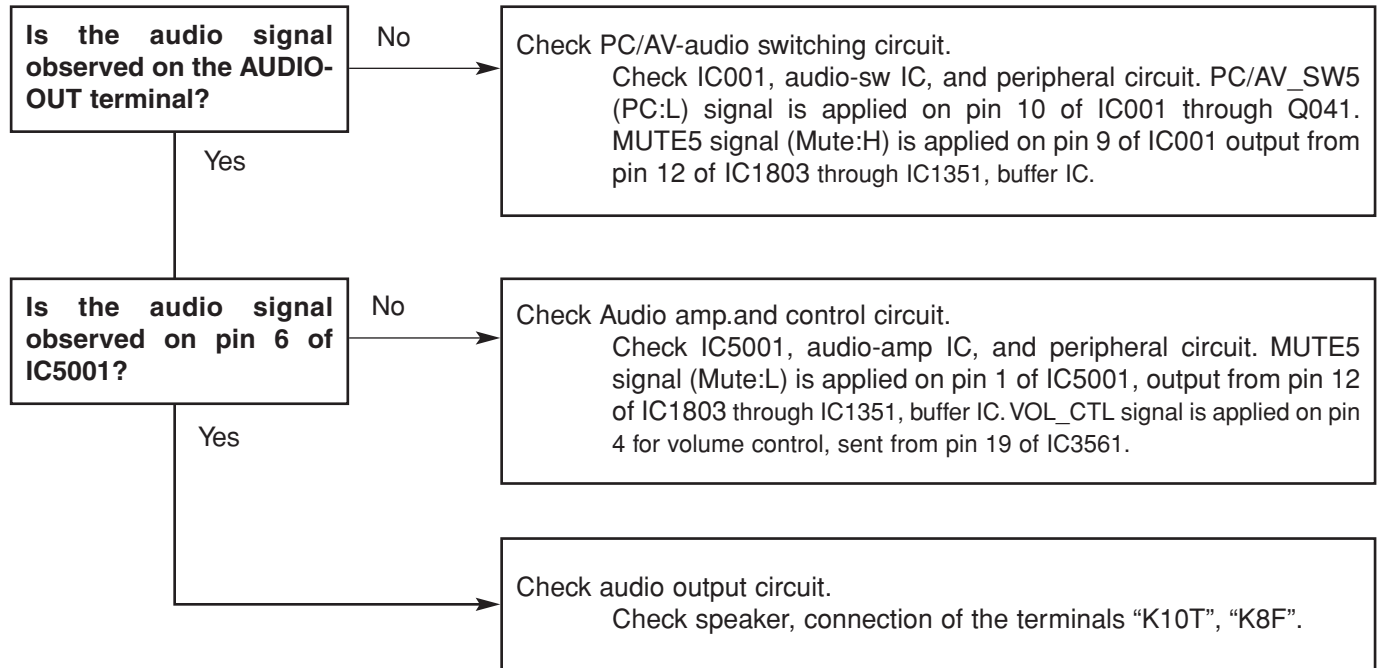


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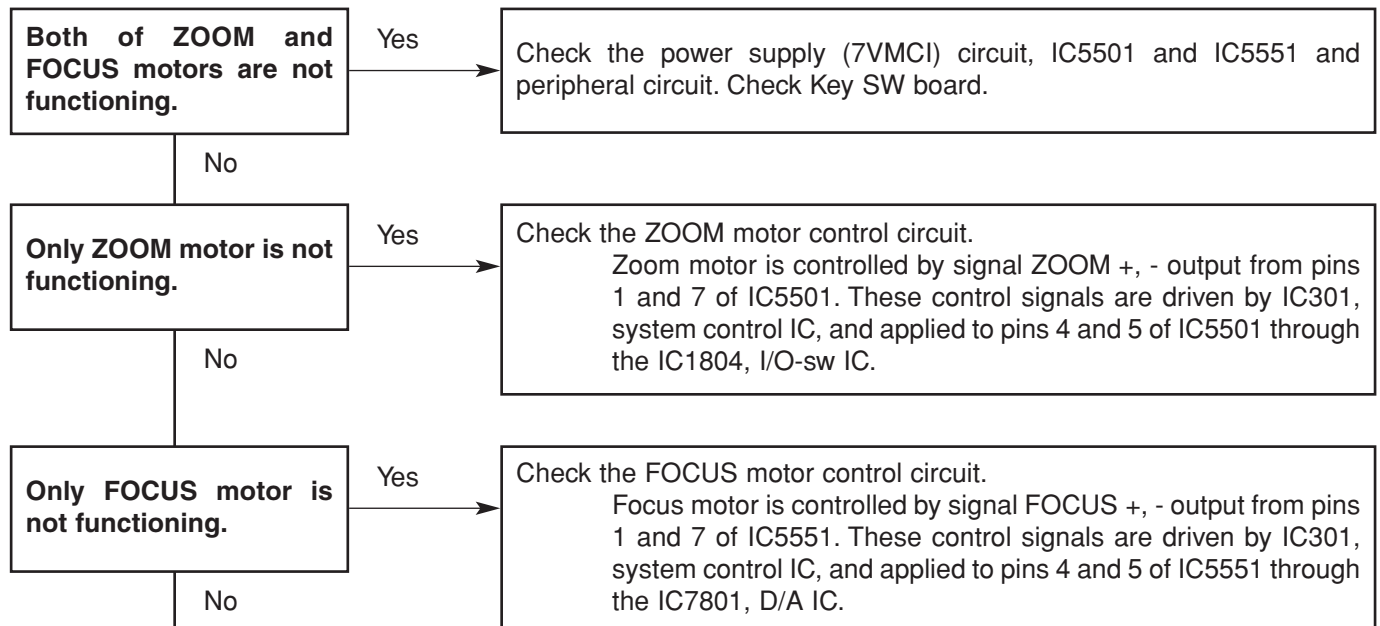
No Sound

Check following steps.



Lens Motor Problems

Check following steps.



Logic Table of IC5501/IC5551				
Input		Output		Operation
4	5	7	1	
H	L	L	H	Forward drive
L	H	H	L	Reverse drive
H	H	L	L	Braking
L	L	-	-	Stand by

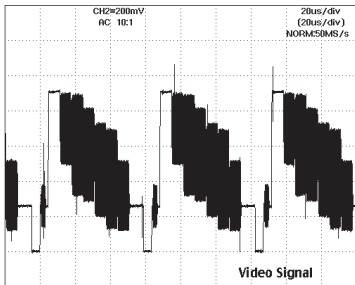
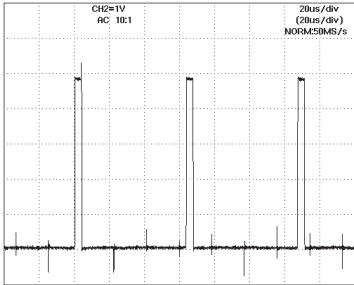
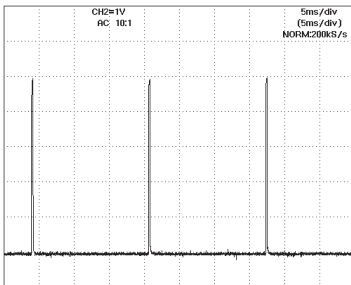
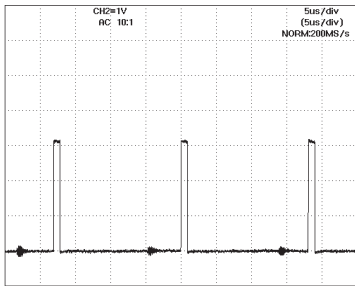
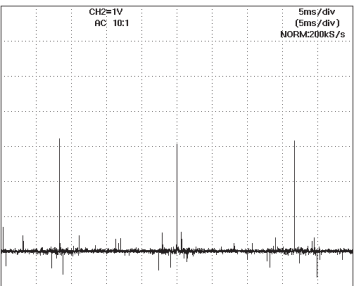
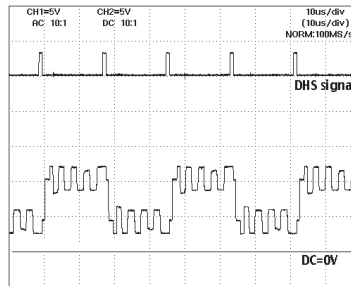
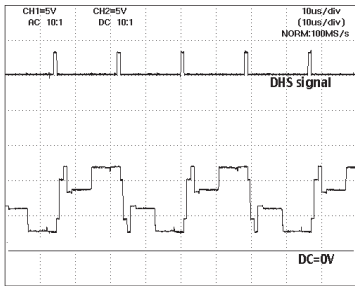
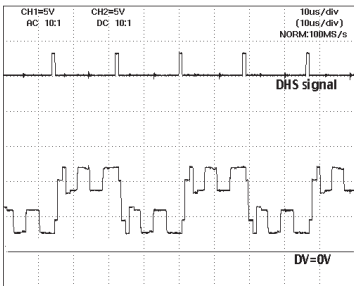
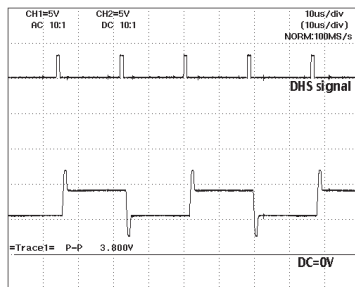
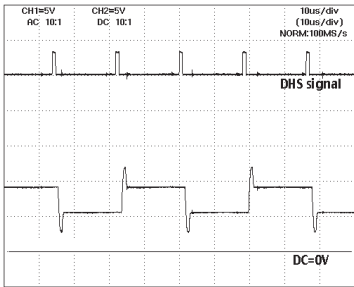
Check logic table of motor drive ICs, IC5501, IC5551.

■ Control Port Functions

● System Control & I/O Port Table

IC Ref. No	Pin/Name	I/O	Signal Name	Function	Note
IC301	PortA0	I/O	ROMWEL	For ICE	
	PortA1	I/O	ROMWEH	For ICE	
	PortA2	I/O	BOOTWE	For ICE	
	PortA3	I/O	DDC_CK	NVRAM I2C CLK for DDC	
	PortA4	O	5V_SW	Power ON/OFF	MainPower-ON:High
	PortA5	I	MT_DAT	Judge 15KHz system	15KHz:High
	PortA6	O	IO_Reset	Initialize I/O	Fixed Low
	PortA7	O	LAMP_POW	Lamp-ON	
	PortB0	I/O	M_SCL	IIC CLK	
	PortB1	I/O	M_SDA	IIC DATA	
	PortB2	I/O	VIEWER_ON	Not used	
	PortB3	I	PF_LAMPDOWN	PowerFail Monitor	
	PortB4	I/O	DDC_DT	NVRAM I2C DATA for DDC	
	PortB5	I/O	CARD_IN	Not used	
	PortB6	I/O	SCDT	Not used	
	PortB7	I/O	W_LAN_IN	Not used	
IC1803	12	O	Mute	Mute ON/OFF	ON:High
	13	O	LAMP_REP_LED	Lamp Replace LED Drive	
	14	O	READY_LED	Ready LED Drive	
	15	O	TEMP_LED	Temp Warning LED Drive	
	16	O	POW_LED	Power LED Drive	
	17	O	KO3	Main Key Switch	
	18	O	KO2	Main Key Switch	
	19	O	KO1	Main Key Switch	
IC1804	12	O	CG_Filter	Not used	
	13	O	VHDREN	Micronas chip Enable	Enable:High
	14	O	VFIELD_SW	Vfield PC/AV Selection	AV:High
	15	O	DPC_ON	DVI/PC Selection	DVI:Low
	16	O	PC/AV_SW	PC/AV Selection	PC:High
	17	O	S/CV_SW	Video/S-Video Selection	Video:Low
	18	O	MCLK_SW	Master CLK ON/OFF	ON:High
	19	O	FanDrive_SW	Fan Drive ON/OFF	ON:High
IC1805	12	O	ZOOM-	Zoom-	ON:Low
	13	O	ZOOM+	Zoom+	ON:Low
	14	O	MOUSE/CPU_SW	Mouse Enable ON/OFF	Enable:Low
	15	O	PCLK_ON	AD9884 CLK ON/OFF	ON:Low
	16	O	VCLK_ON	Micronas CLK ON/OFF	ON:Low
	17	O	MT_RESET	Matrix Enable ON/OFF	Enable:High
	18	O	MOUSE/RESET	Mouse Reset	Reset:Low
	19	O	DCLK_ON	DVI/PC Selection	DVI:Low
IC1806	12	O	ADPW	AD9884 ON/OFF	ON:High
	13	O	ECO_SW	Normal/Eco Selection	Eco:High
	14	O	DCLK_SW	CXD3526 CLK ON/OFF	ON:High
	15	O	USB_EN	Not used	
	16	O	VPC_ON	Sync select ON/OFF for Micronas	ON:Low
	17	O	PC_ON	Sync select ON/OFF for AD9884	ON:Low
	18	O	AC_FILT	Filter ON/OFF for PS2	15KHz:High
	19	O	USB_RST	Not used	
IC1813	12	O	RCID_SW3	Remote Control ID1	
	13	O	RCID_SW2	Remote Control ID2	
	14	O	RCID_SW1	Remote Control ID3	
	15	O	LAMP_BST_SW	Boost ON/OFF	ON:High
	16	O	PC1/PC2_SW	PC1(RGB)/PC2(RGB) Selection	PC1(RGB):Low
	17	O	MNTOUT_SW	Monitor Out Selection	Monitor Out:Low
	18	O	CXD_WP	NVRAM Write Protect for CXD3526	Protect:High
	19	O	EDIDEN	DDC Projector/PC Selection	Projector:Low
IC1814	12	O			
	13	O			
	14	O			
	15	O	S/PRESET	Not used	

[illegible]

VIDEO-IN <TPV3143> 	HS signal <TPHS> 	VS signal <TPVS> 
DHS signal <TPDHS> 	DVS signal <TPDVS> 	S&H-B <TP501B/TP502B> 
S&H-G <TP503G/TP504G> 	S&H-R <TP505R/TP506R> 	
PSIG <TP3501> 	PSIG <TP3551> 	

■ Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:

Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be very careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerably dirty and cannot be sufficiently cleaned by air spraying alone.

Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

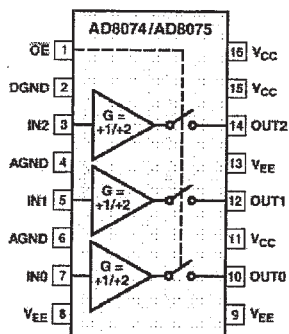
Caution:

The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.

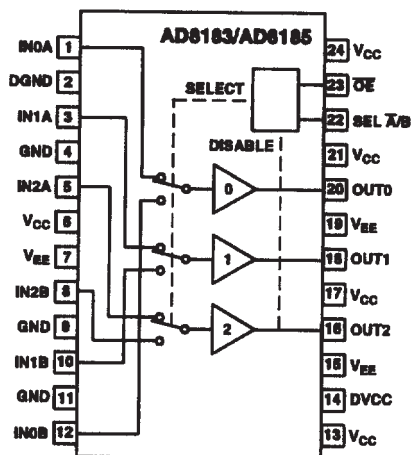
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

■ IC Block Diagrams

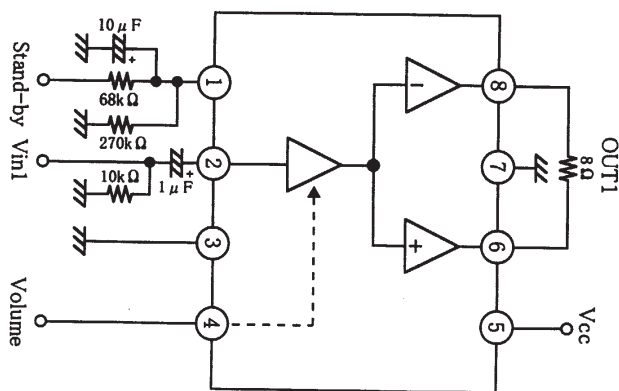
● AD8075 <Selector, IC201>



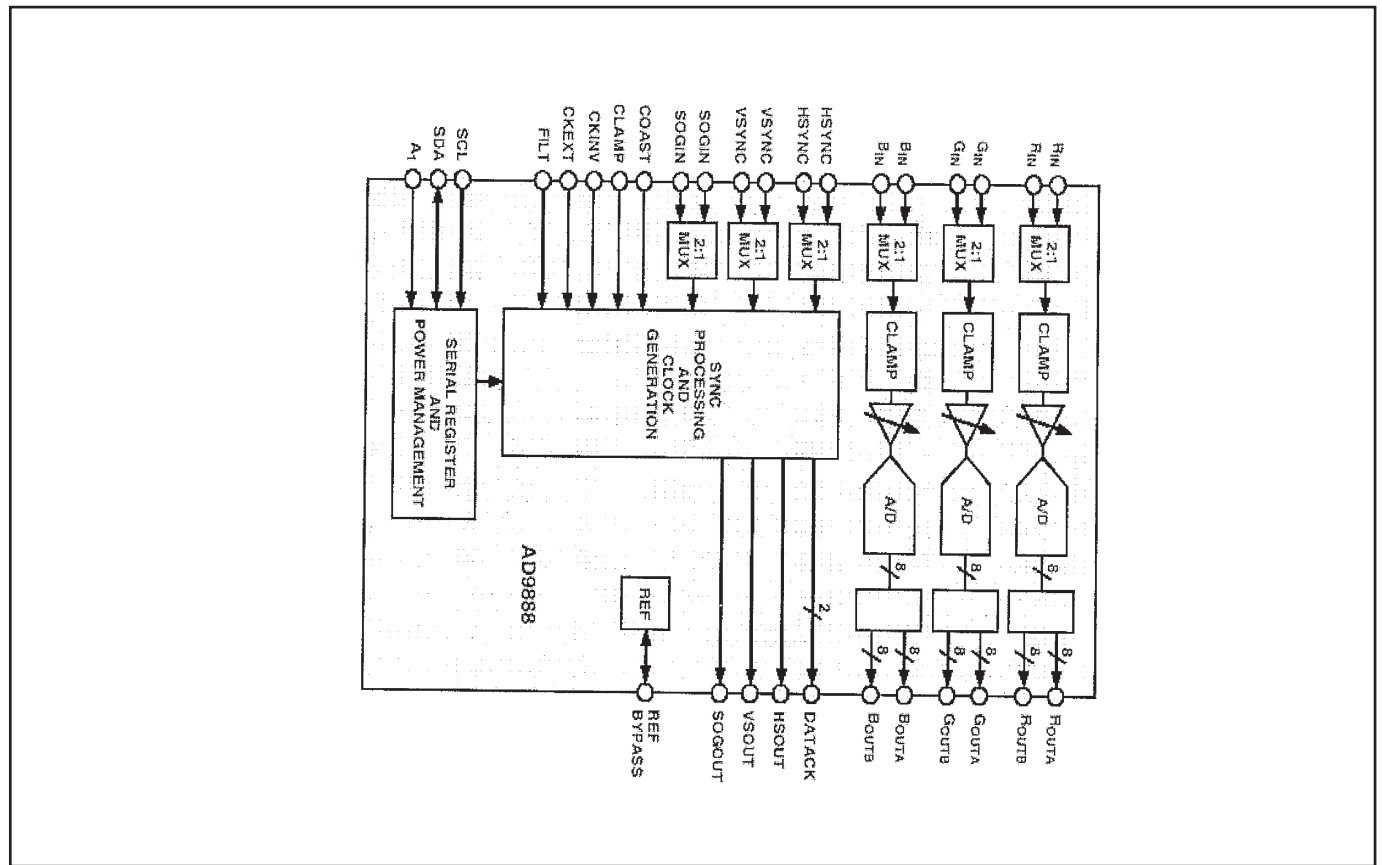
● AD8183ARU <Selector, IC1201>



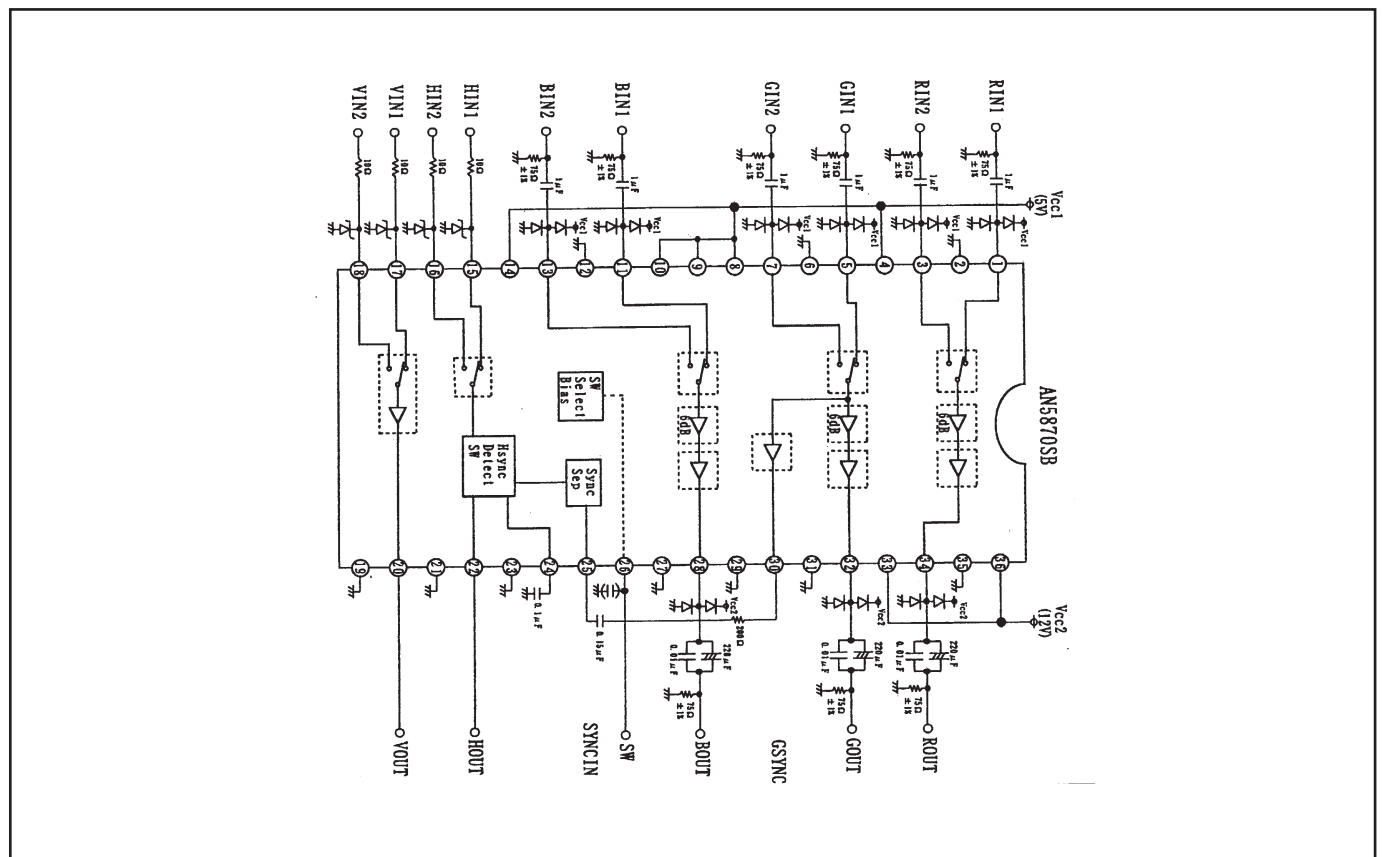
● AN7513 <Audio-Amp, IC5001>



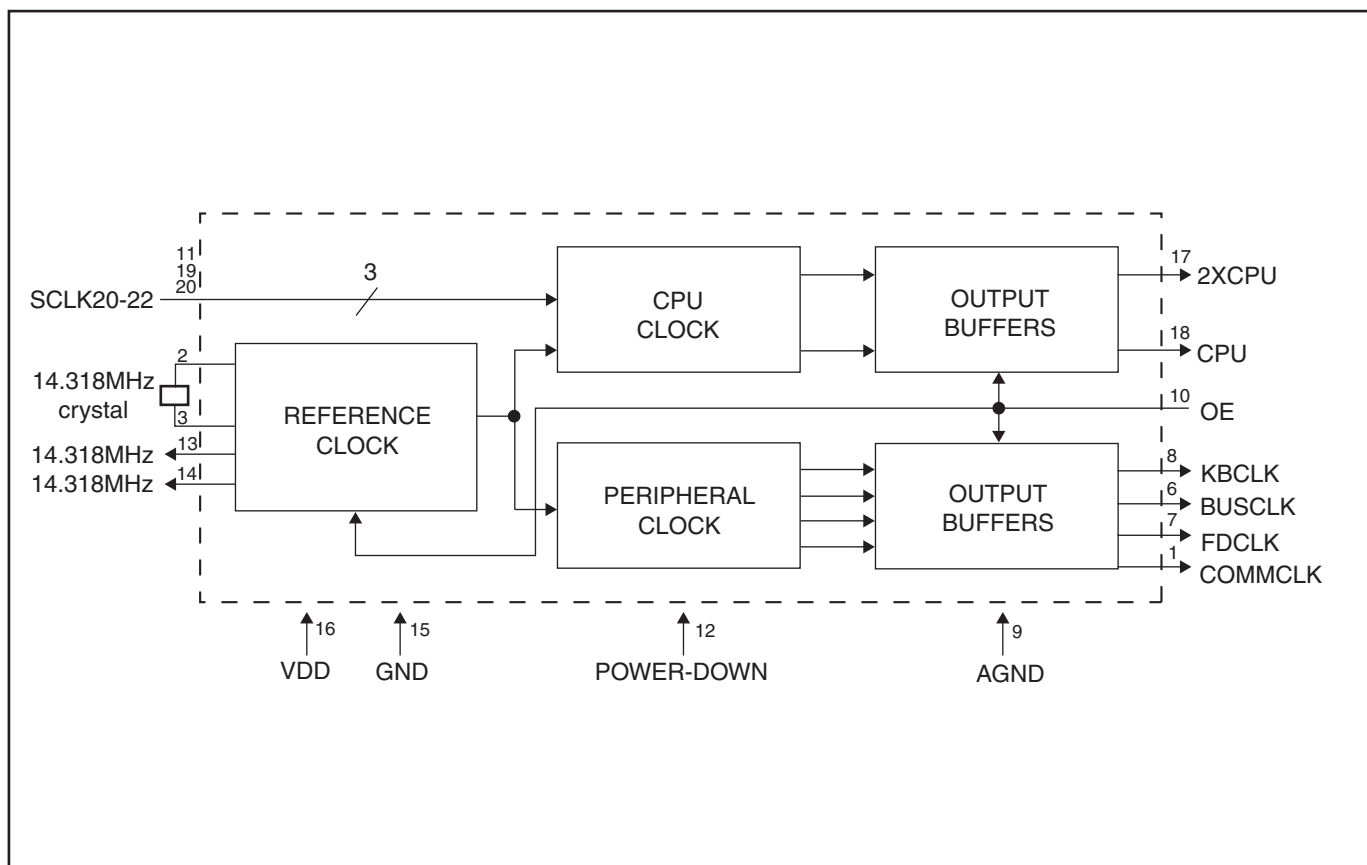
● AD9884AKS <A/D, IC8201>



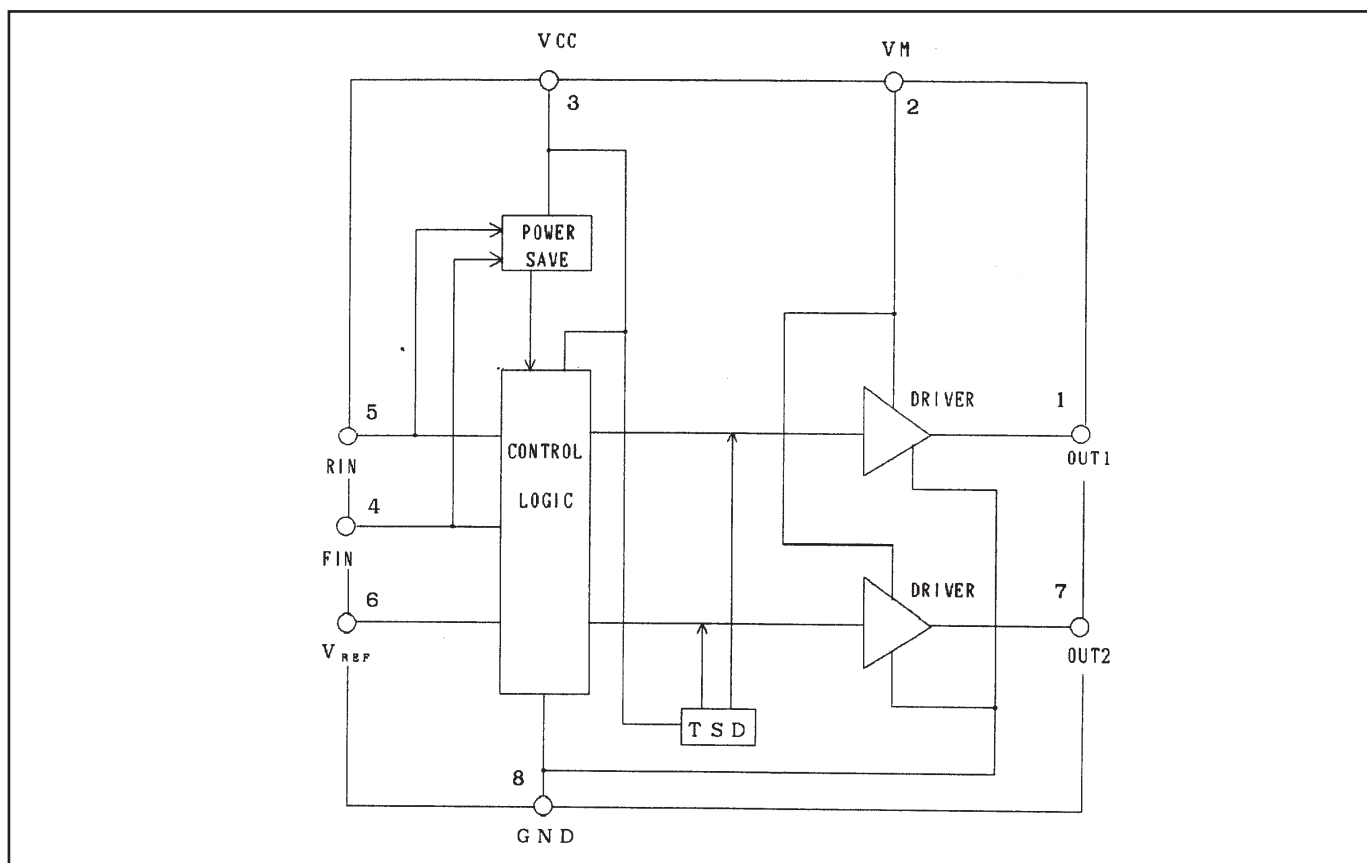
● AN5870SB <RGB-SW, IC5201>



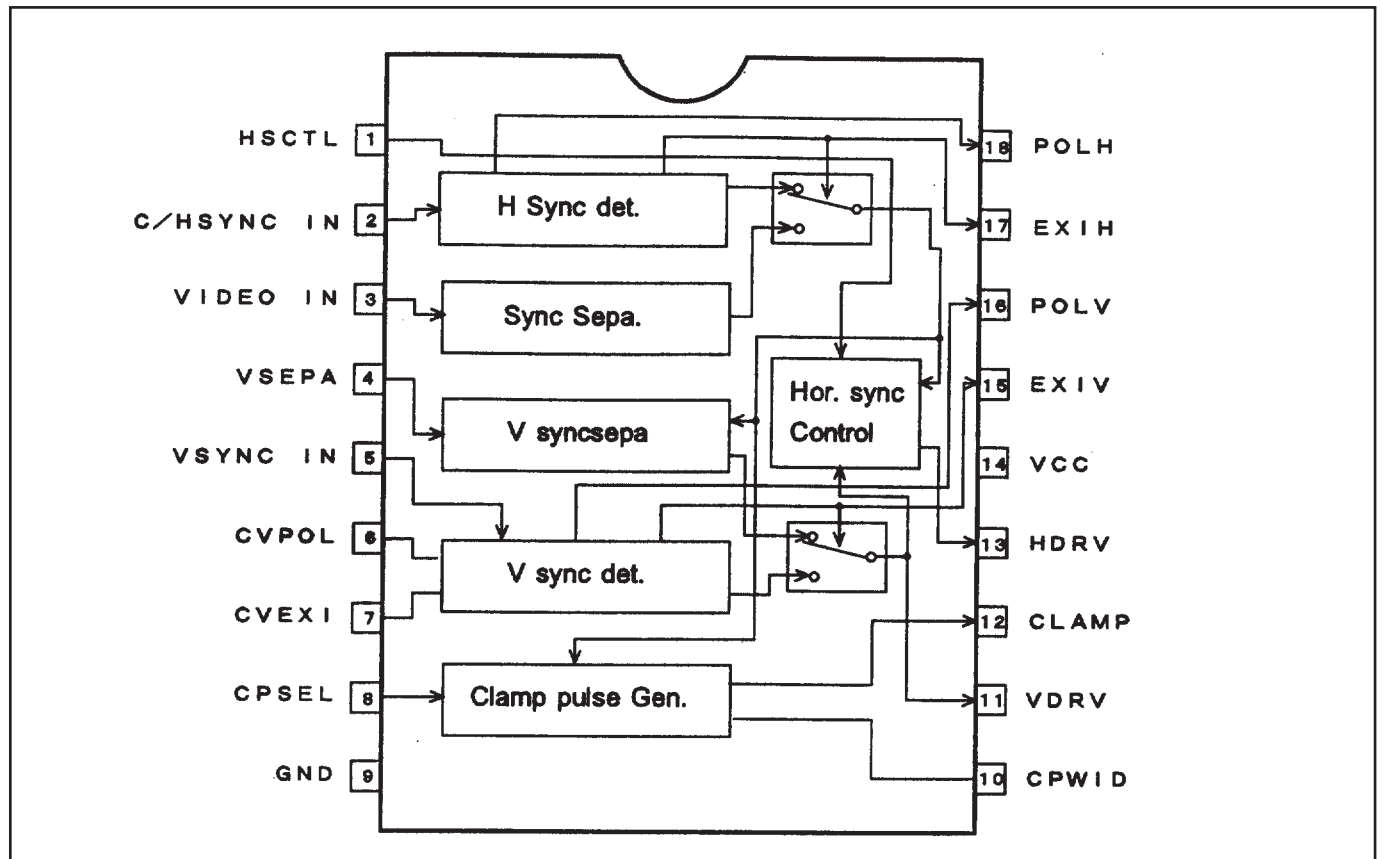
● AV9155C <Clock Driver, IC1301>



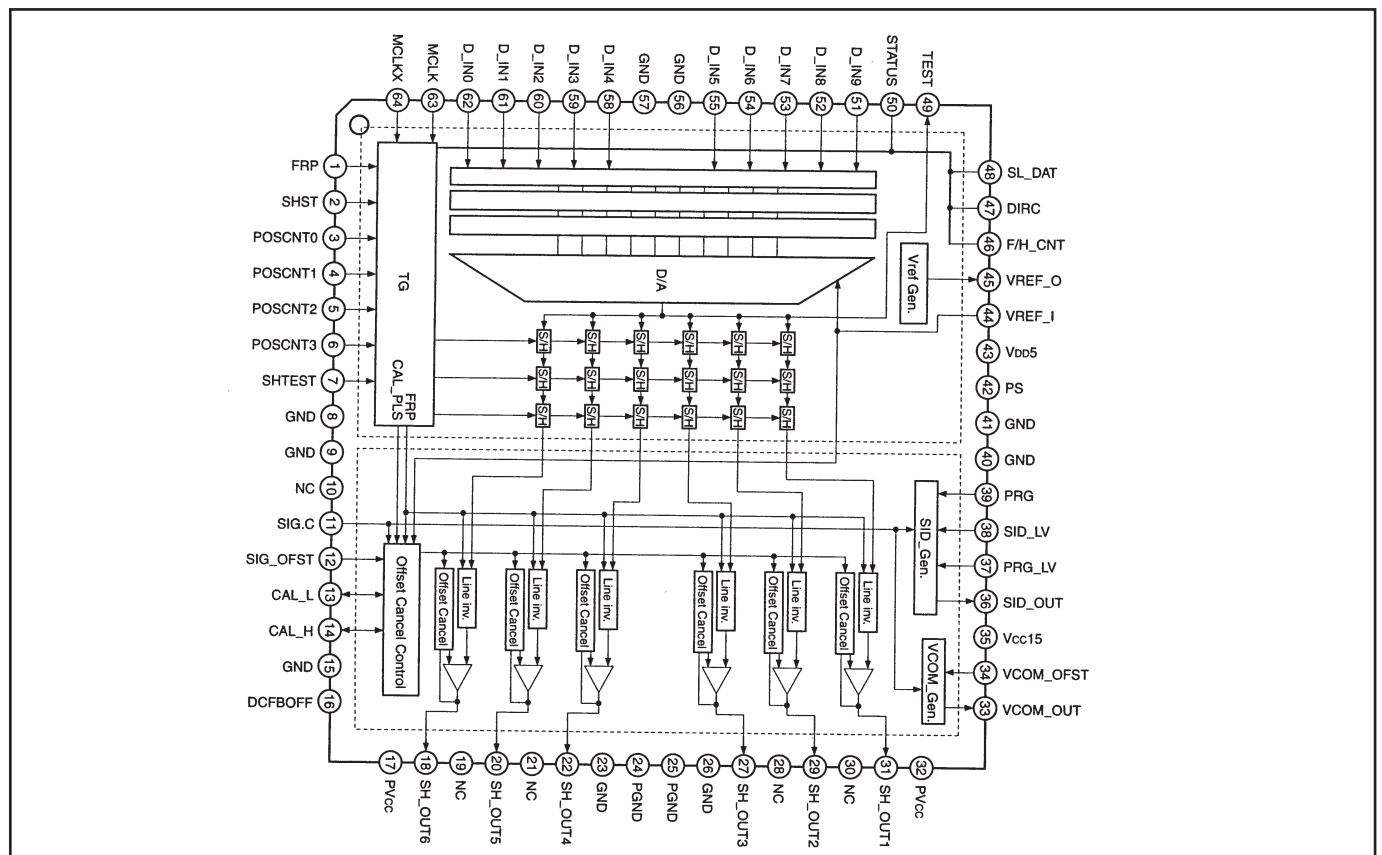
● BA6287 <Motor Drive, IC5501, IC5551, IC5561>



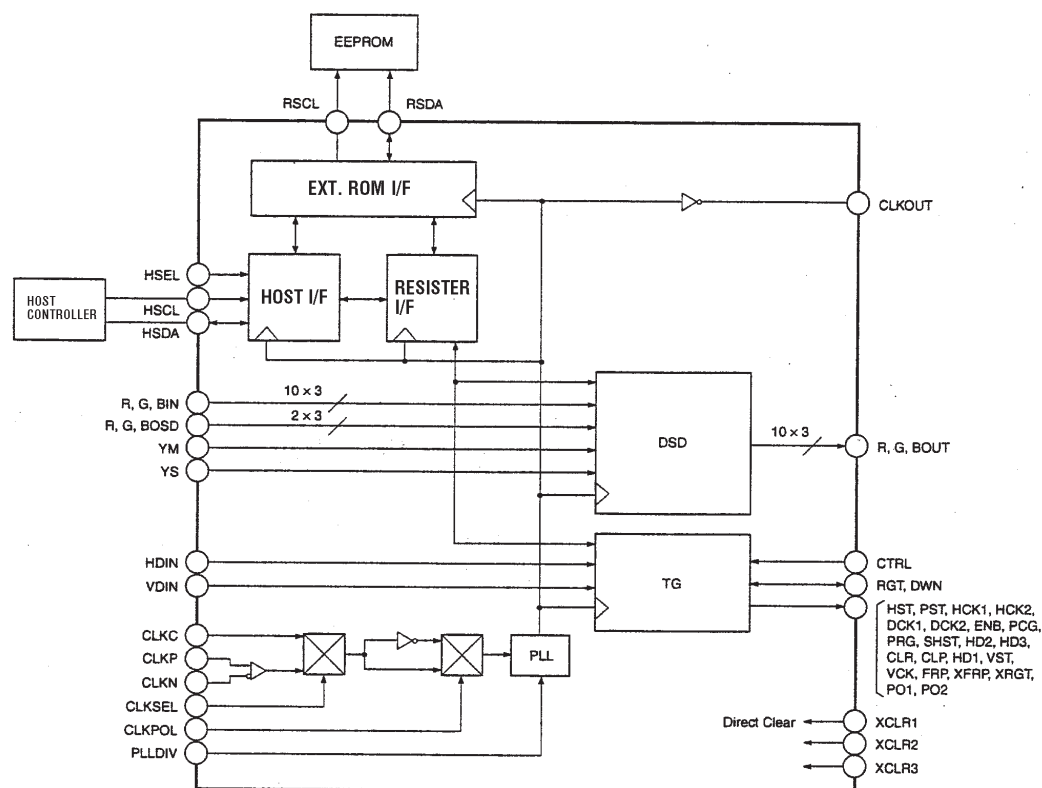
● BA7078 <Sync Separator, IC5341>



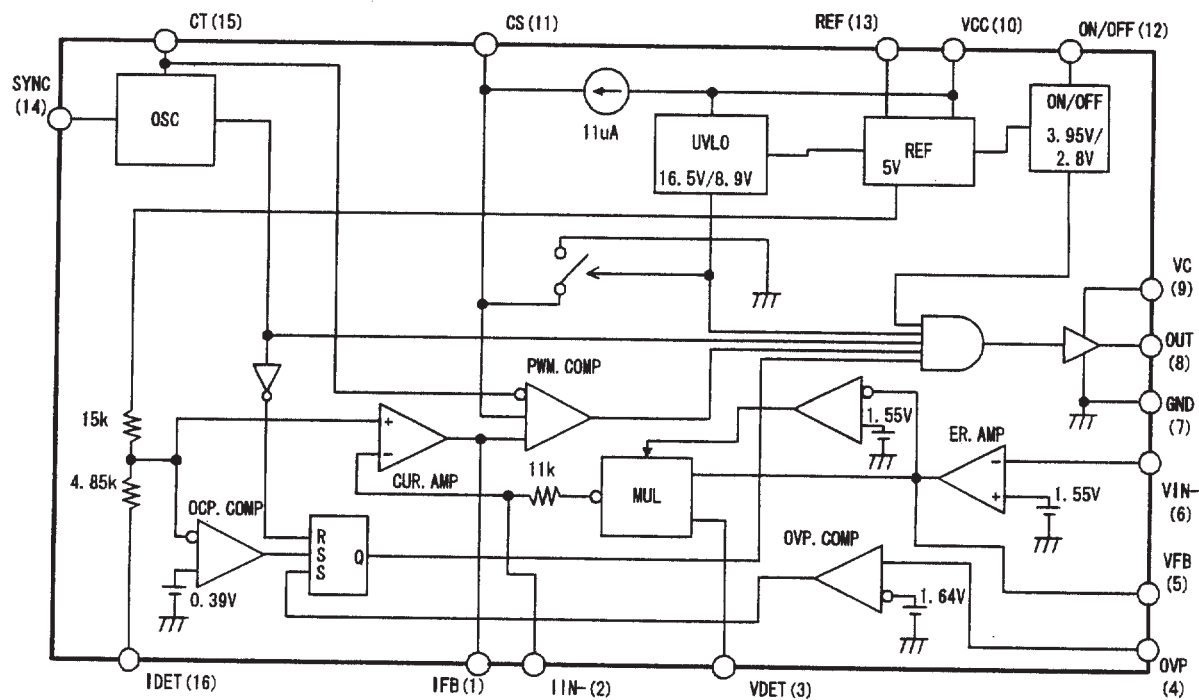
● CXA7000R <D/A, S/H-LCD Driver, IC501, IC1501, IC530, IC1531, IC561, IC1561>



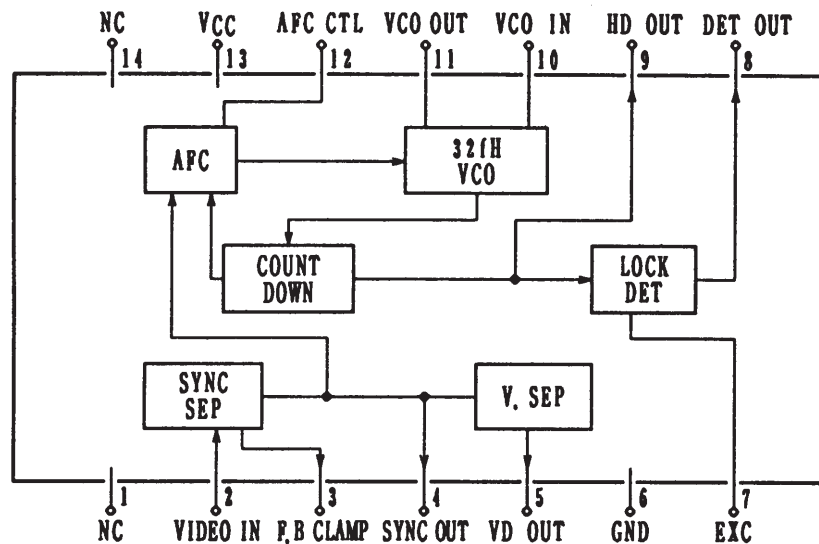
● CXD3526GG <LCD Driver, Timing Generator, IC401>



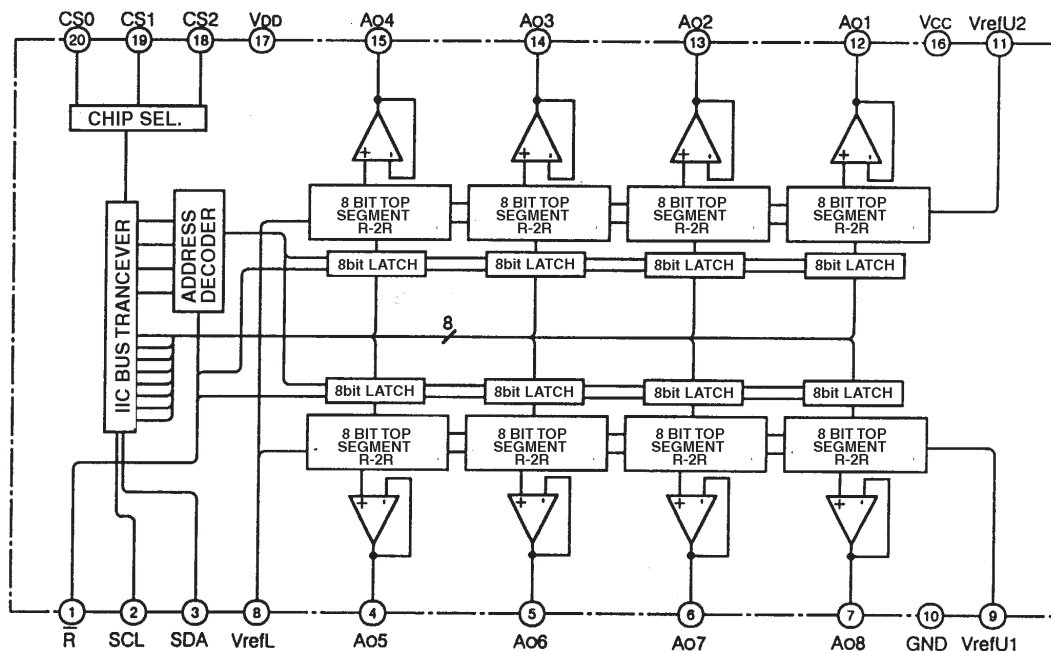
● FA5502 <P.F. Control, IC611>



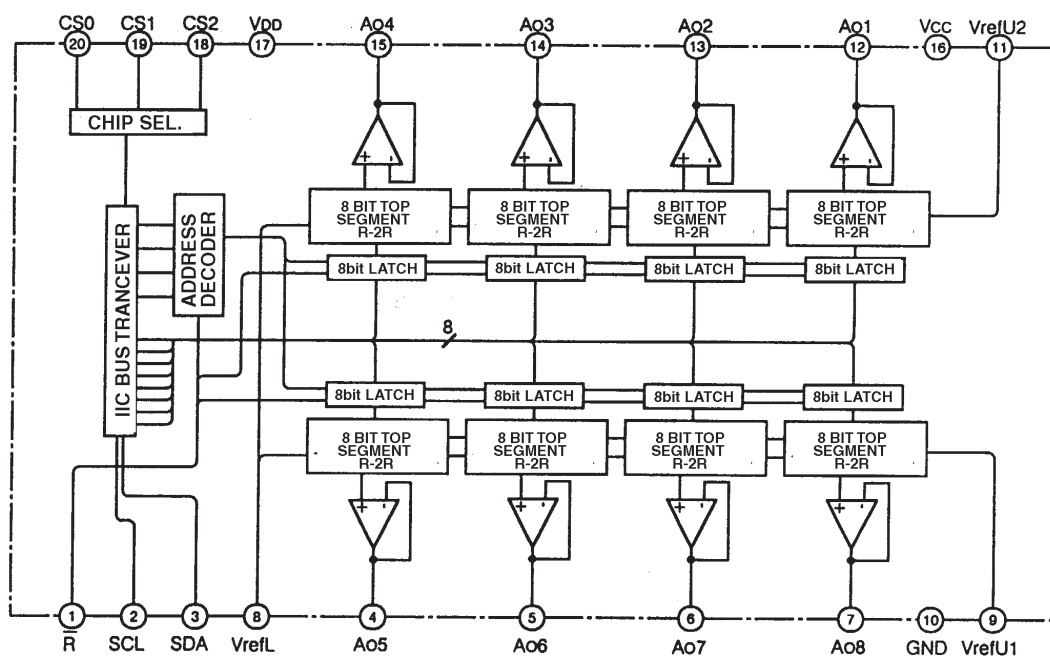
● LA7217 <Sync Separator, IC5361>



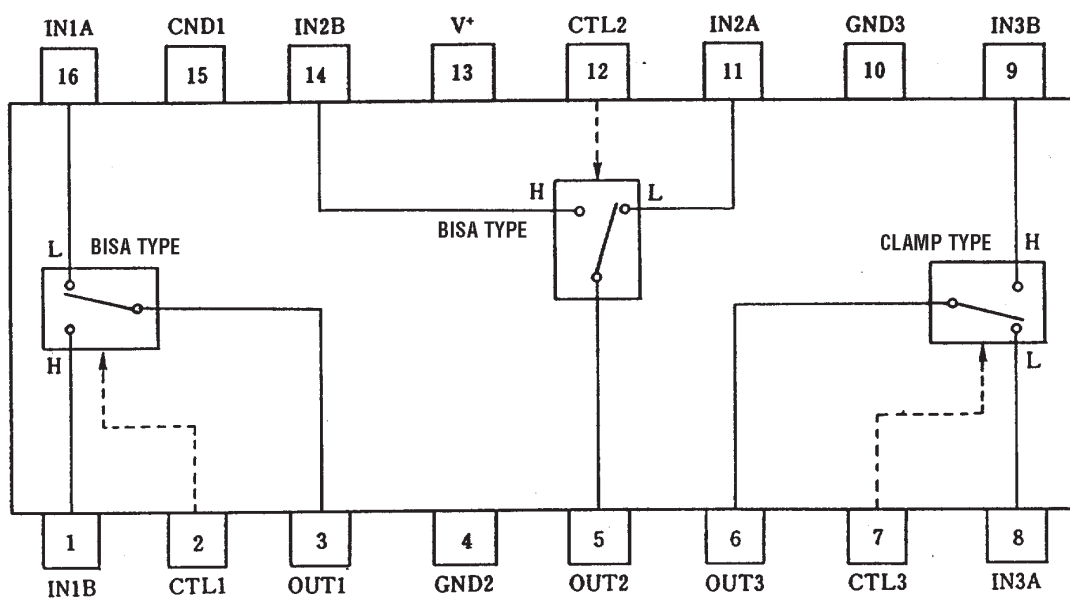
● M62392 <D/A, IC3561>



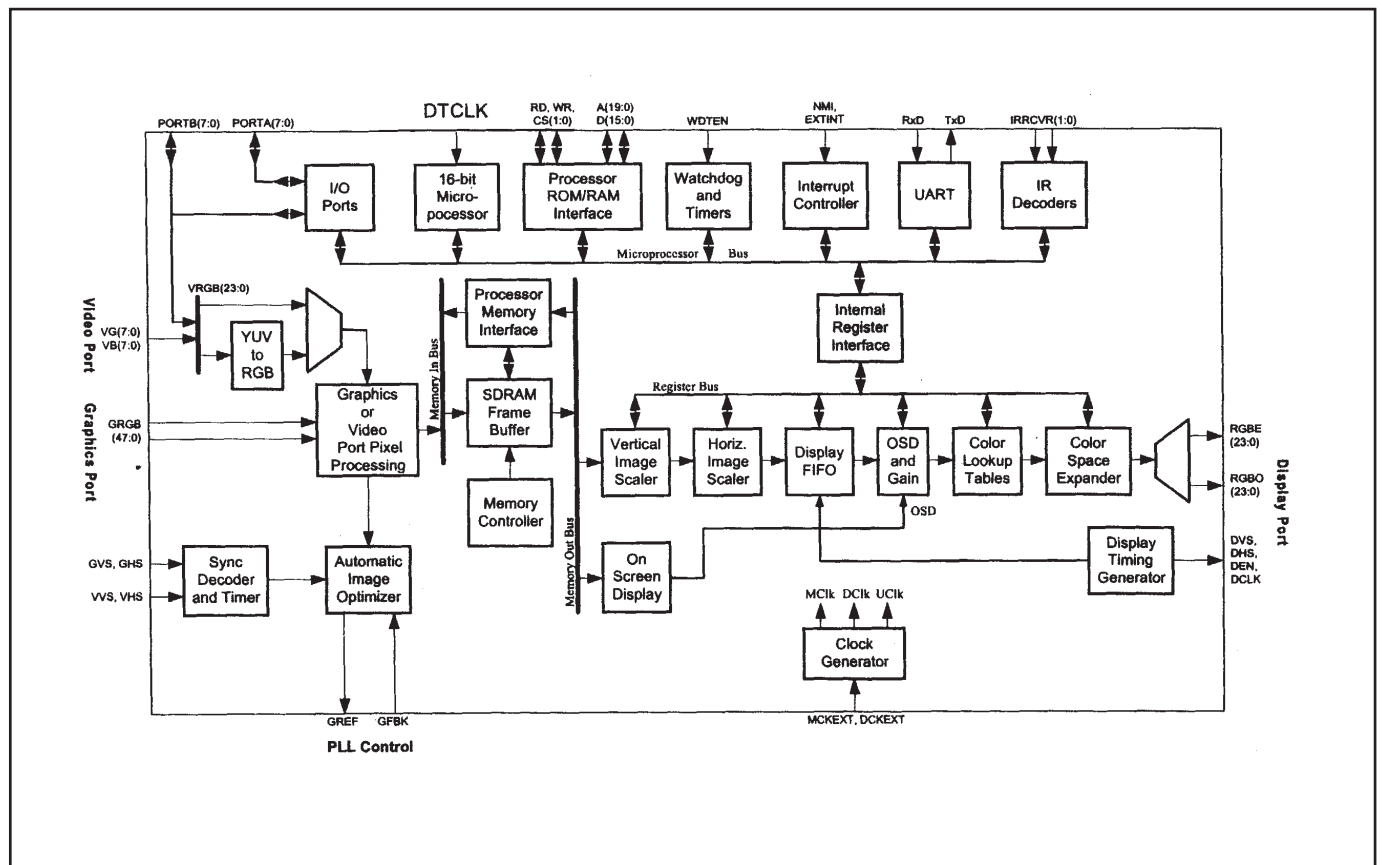
● M62393 <D/A, IC281, IC7801>



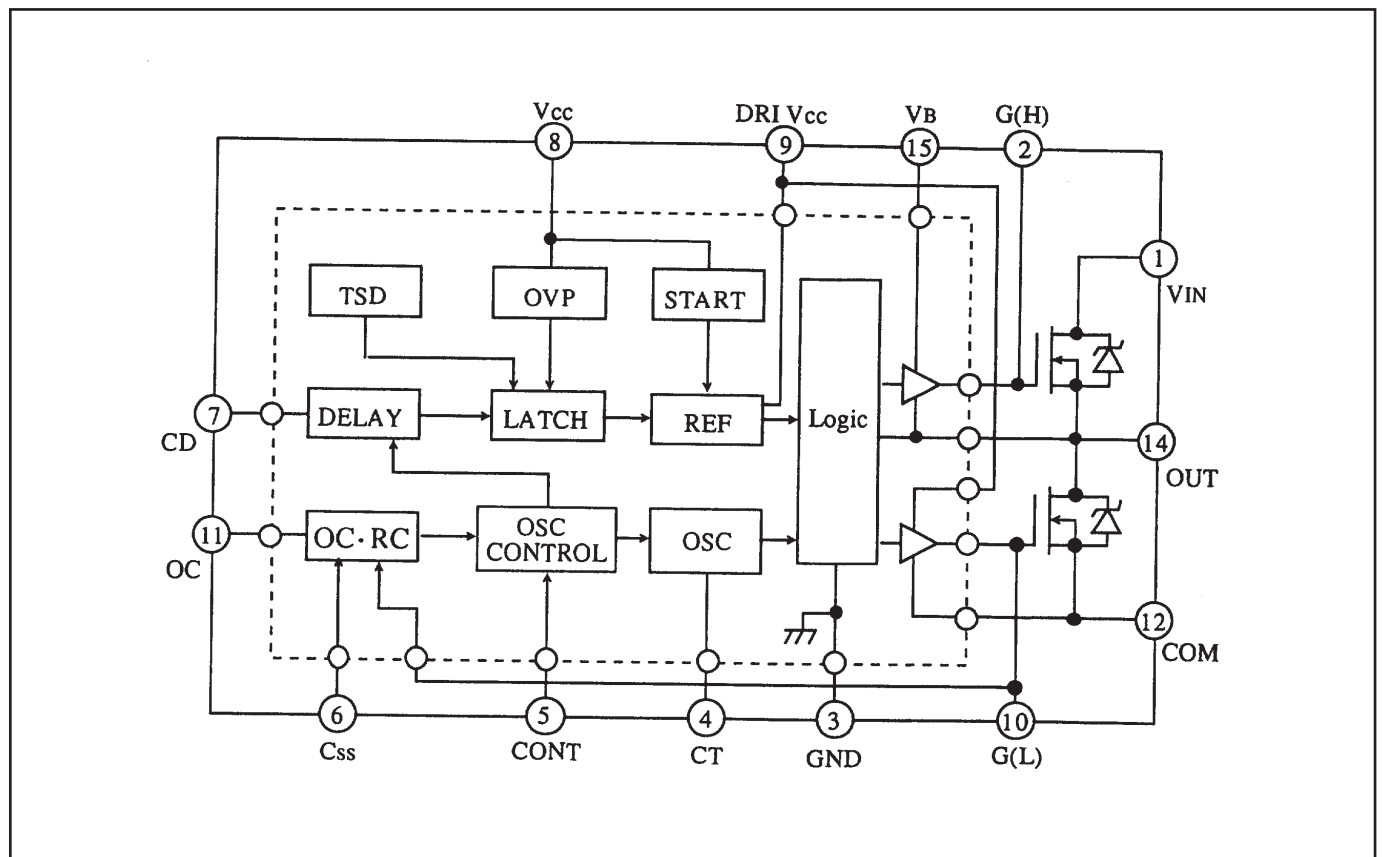
● NJM2284M <Switch, IC2101>



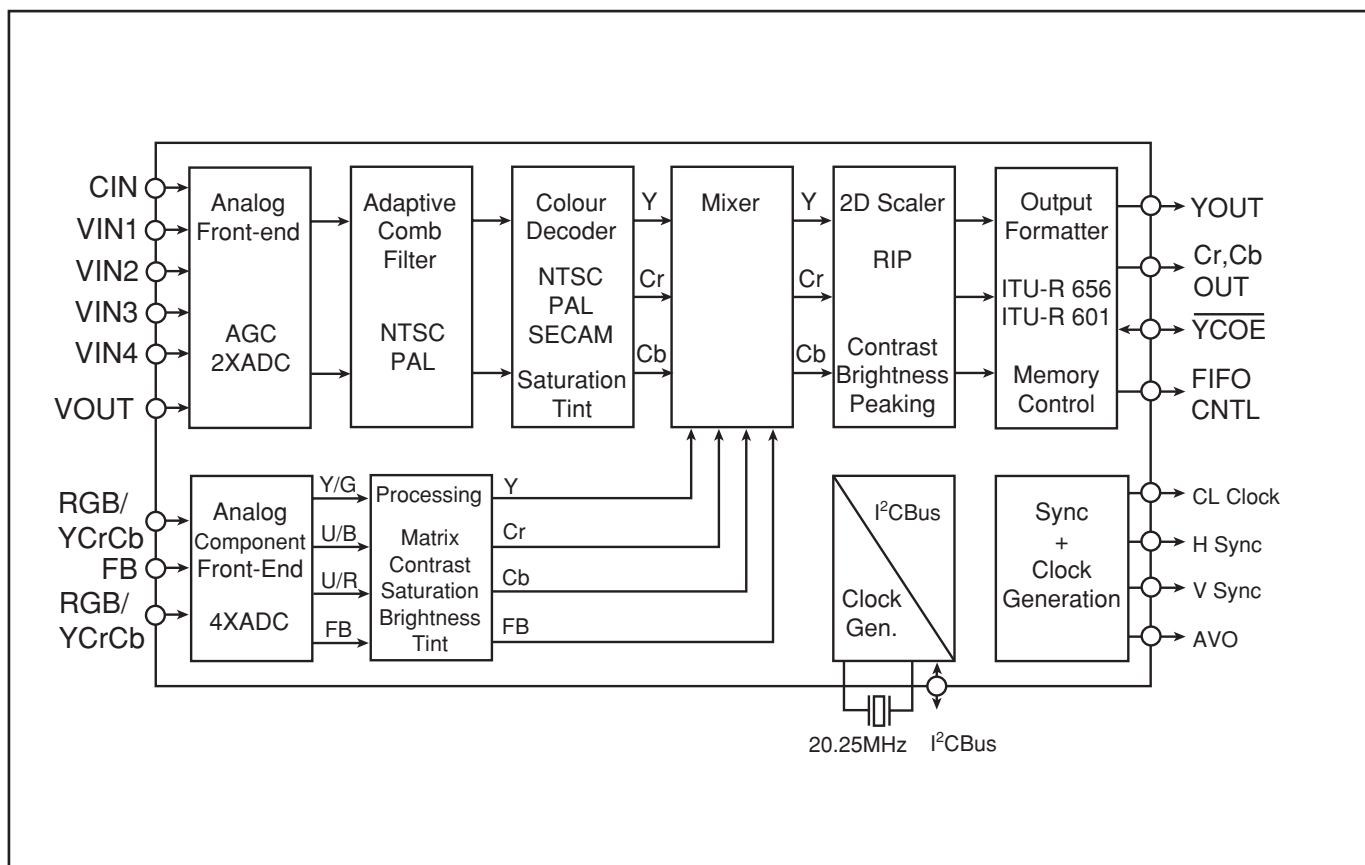
● PW164B-10 <System Control & Scan Converter, IC301>



● STR-Z2156 <Power Switching Control, IC631>



● VPC3230D <Video Decoder, IC3101>



■ Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.
 Components indicated by a Δ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR	CERAMIC	100P	K	50V
				Rated Voltage
				Tolerance Symbols:
				Less than 10pF
				A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$
				D : $\pm 0.5\text{pF}$ E : $+0 -1\text{pF}$ F : $\pm 1\text{PF}$
				G : $\pm 2\text{pF}$ H : $+0.1 -0\text{pF}$ L : $+0 -0.1\text{pF}$
				R : $\pm 0.25 -0\text{pF}$ S : $+0 -0.25\text{pF}$
				More than 10pF
				A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$
				D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$
				H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$
				L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$
				P : $+100 -0\%$ Q : $+30 -10\%$ T : $+50 -10\%$
				U : $+75 -10\%$ V : $+20 -10\%$ W : $+100 -10\%$
				X : $+40 -20\%$ Y : $+150 -10\%$ Z : $+80 -20\%$
				Rated value: P=pico farad, U=micro farad

Material:

CERAMIC..... Ceramic
 MT-PAPER..... Metallized Paper
 POLYESTER..... Polyester
 MT-POLYEST.....Metallized Polyester
 POLYPRO..... Polypropylene
 MT-POLYPRO.....Metallized Polypropylene
 COMPO FILM..... Composite film
 MT-COMPO.....Metallized Composite
 STYRENE..... Styrene
 TA-SOLID..... Tantalum Oxide Solid Electrolytic
 AL-SOLID..... Aluminium Solid Electrolytic
 ELECT..... Aluminum Foil Electrolytic
 NP-ELECT..... Non-polarised Electrolytic
 OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic
 POS-SOLID..... Polymerized Organic Semiconductive
 DL-ELECT..... Double Layered Electrolytic
 PPS-FILM.....Polyphenylene Sulfide Film
 MT-PPS-FILM.....Metalized Polyphenylene Sulfide Film
 MT-PEN-FILM.....Metalized Polyethylenenaphthalate Film
 CAPACITOR.....Other

RESISTOR	CARBON	4.7K	J	A	1/4W
					Rated Wattage
					Performance Symbols:
					A: General B: Non flammable Z: Low noise
					Other: Temperature coefficient
					T: $\pm 10\text{ppm}/^\circ\text{C}$ U: $\pm 25\text{ppm}/^\circ\text{C}$ C: $\pm 50\text{ppm}/^\circ\text{C}$
					D: $\pm 100\text{ppm}/^\circ\text{C}$ E: $\pm 200\text{ppm}/^\circ\text{C}$ F: $\pm 250\text{ppm}/^\circ\text{C}$
					G: $\pm 350\text{ppm}/^\circ\text{C}$ H: $\pm 1000\text{ppm}/^\circ\text{C}\pm 10\%$ W: $\pm 1200\text{ppm}/^\circ\text{C}\pm 10\%$
					Y: $\pm 1400\text{ppm}/^\circ\text{C}\pm 10\%$ J: $\pm 2000\text{ppm}/^\circ\text{C}\pm 10\%$ K: $\pm 2400\text{ppm}/^\circ\text{C}\pm 10\%$
					L: $\pm 2700\text{ppm}/^\circ\text{C}\pm 10\%$ M: $\pm 3000\text{ppm}/^\circ\text{C}\pm 10\%$ N: $\pm 3300\text{ppm}/^\circ\text{C}\pm 10\%$
					P: $\pm 3600\text{ppm}/^\circ\text{C}\pm 10\%$ Q: $\pm 3900\text{ppm}/^\circ\text{C}\pm 10\%$ R: $\pm 4200\text{ppm}/^\circ\text{C}\pm 10\%$
					S: $\pm 4300\text{ppm}/^\circ\text{C}\pm 10\%$ V: $\pm 4500\text{ppm}/^\circ\text{C}\pm 10\%$ X: $\pm 8000\text{ppm}/^\circ\text{C}\pm 10\%$
					Tolerance Symbols:
					A: $\pm 0.05\%$ B: $\pm 0.1\%$ C: $\pm 0.25\%$ D: $\pm 0.5\%$
					F: $\pm 1\%$ G: $\pm 2\%$ J: $\pm 5\%$ K: $\pm 10\%$
					M: $\pm 20\%$ P: $+5 -15\%$ Z: 0 ohm
					Rated value, ohms:
					K: 1,000, M: 1,000,000

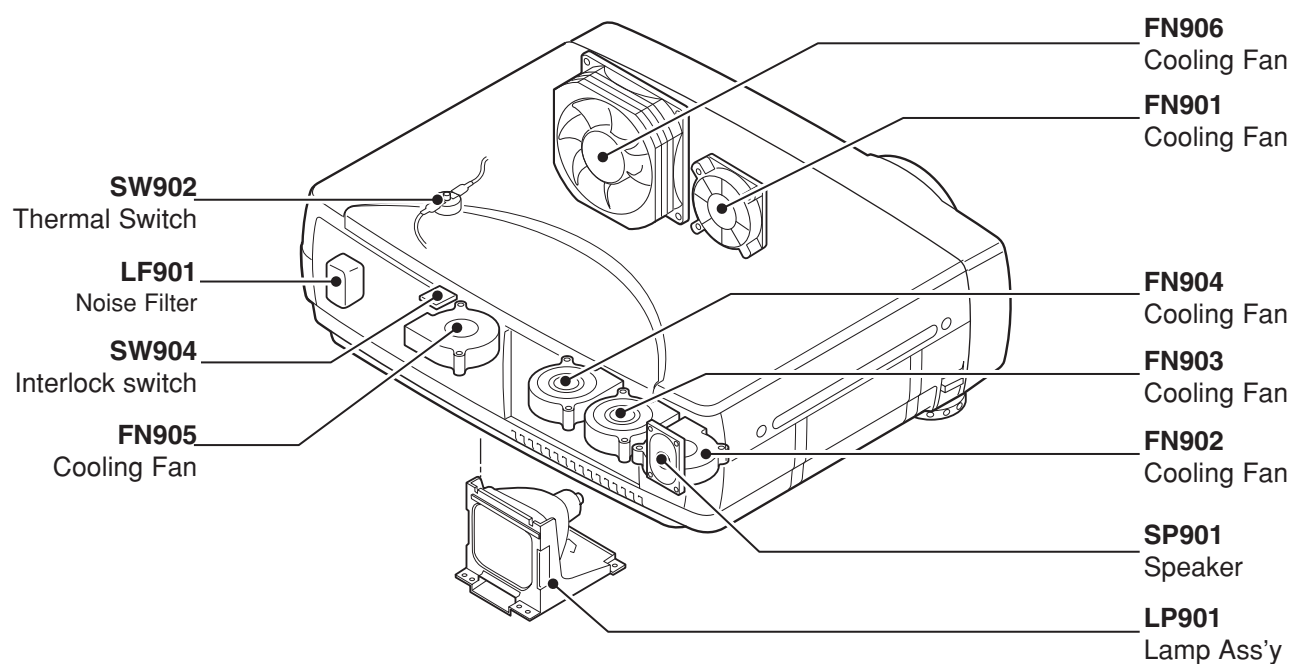
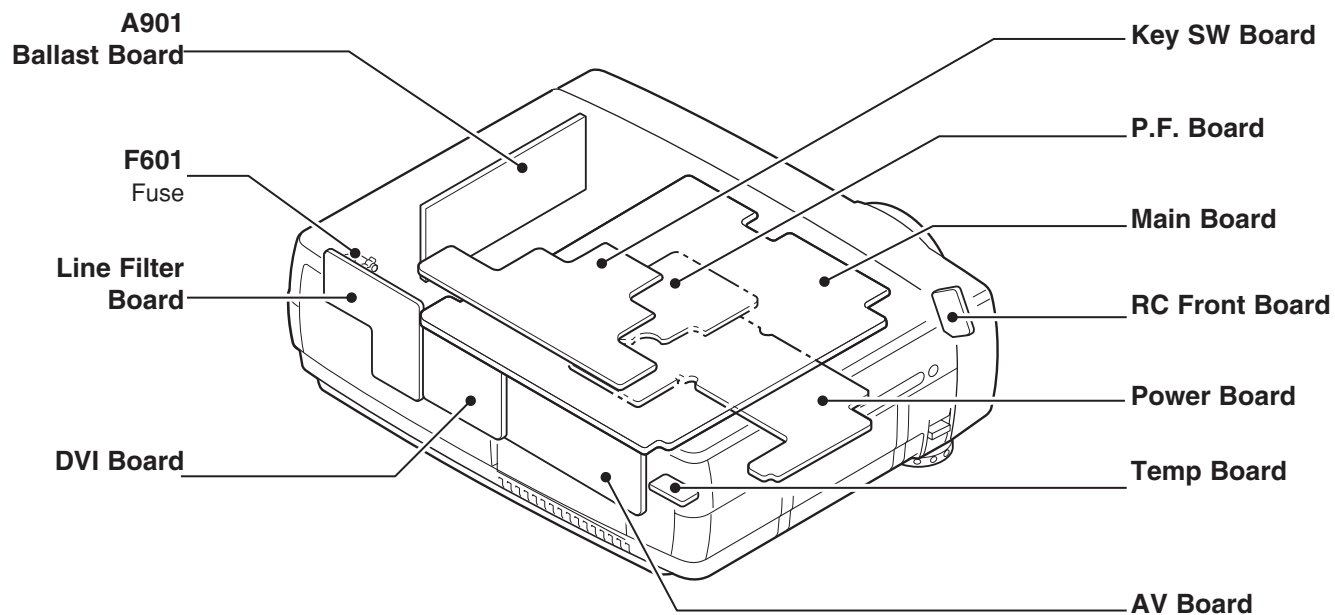
Material:

CARBON..... Carbon
 MT-FILM..... Metal Film
 OXIDE-MT..... Oxide Metal Film
 SOLID..... Composition
 MT-GLAZE..... Metal Glaze
 WIRE WOUND...Wire Wound
 CERAMIC RES.. Ceramic
 FUSIBLE RES....Fusible
 RESISTOROther

Electrical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

● OUT OF CIRCUIT BOARD



Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
ASSEMBLED BOARDS					
△ 610 301 3954	ASSY,PWB,AV MA3A			405 014 4608	TR 2SC2412K T146 S
△ 610 301 3961	ASSY,PWB,DVI MA3A			405 015 8704	TR 2SC2812-L6-TB
△ 610 302 7593	ASSY,PWB,KEY SW MA3A			405 015 8902	TR 2SC2812-L7-TB
△ 610 303 8919	ASSY,PWB,MAIN MB3A			405 163 1602	TR 2SC2812N-L6-TB0
△ 610 303 8926	ASSY,PWB,TEMP MB3A			405 163 1701	TR 2SC2812N-L7-TB0
△ 610 304 1629	ASSY,PWB,POWER MA3A		Q031	405 014 4509	TR 2SC2412K T146 R
△ 610 304 1636	ASSY,PWB,P.F. MA3A			405 014 4608	TR 2SC2412K T146 S
△ 610 304 1643	ASSY,PWB,LINE FILTER MA3A			405 015 8704	TR 2SC2812-L6-TB
△ 610 304 1650	ASSY,PWB,R/C MA3A			405 015 8902	TR 2SC2812-L7-TB
OUT OF CIRCUIT BOARDS				405 163 1602	TR 2SC2812N-L6-TB0
△ LF901	645 056 9630	UNIT,NOISE FILTER		405 163 1701	TR 2SC2812N-L7-TB0
△ LP900	610 303 5826	COMPL,OPTICAL LAMP-MA3A	Q041	405 014 4509	TR 2SC2412K T146 R
L901	645 044 6207	CORE,FERRITE		405 014 4608	TR 2SC2412K T146 S
L902	645 044 6207	CORE,FERRITE		405 015 8704	TR 2SC2812-L6-TB
L903	645 003 3834	CORE,FERRITE		405 015 8902	TR 2SC2812-L7-TB
△ A901	645 055 3691	UNIT,BALLAST		405 163 1602	TR 2SC2812N-L6-TB0
△ FN901	645 047 6211	MOTOR,FAN DC 1.5W		405 163 1701	TR 2SC2812N-L7-TB0
△ FN902	645 057 5860	MOTOR,FAN DC 1.8W	Q1001	405 134 5905	TR 2SA1037AK-T146-R
△ FN903	645 057 5877	MOTOR,FAN DC 1.8W		405 147 2205	TR 2SA1037AK-S-T146
△ FN904	645 057 5877	MOTOR,FAN DC 1.8W		405 002 0308	TR 2SA1037K T146 R
△ FN905	645 057 5891	MOTOR,FAN DC 1.8W		405 002 0407	TR 2SA1037K T146 S
△ FN906	645 052 0754	MOTOR,FAN DC 3.0W		405 002 6706	TR 2SA1179-M6-TB
SP901	645 030 6150	SPEAKER, 8		405 002 6904	TR 2SA1179-M7-TB
△ SW902	645 026 5457	SWITCH,THERMAL		405 163 1503	TR 2SA1179N-M6-TB
	645 048 3158	SWITCH,THERMAL		405 163 2708	TR 2SA1179N-M7-TB
△ SW904	645 024 8986	SWITCH,PUSH 2P-2TX2	Q1002	405 134 5905	TR 2SA1037AK-T146-R
AV BOARD				405 147 2205	TR 2SA1037AK-S-T146
610 301 3954 ASSY,PWB,AV MA3A				405 002 0308	TR 2SA1037K T146 R
TRANSISTOR				405 002 0407	TR 2SA1037K T146 S
Q011	405 014 4509	TR 2SC2412K T146 R		405 002 6706	TR 2SA1179-M6-TB
	405 014 4608	TR 2SC2412K T146 S		405 002 6904	TR 2SA1179-M7-TB
	405 015 8704	TR 2SC2812-L6-TB		405 163 1503	TR 2SA1179N-M6-TB
	405 015 8902	TR 2SC2812-L7-TB		405 163 2708	TR 2SA1179N-M7-TB
	405 163 1602	TR 2SC2812N-L6-TB0	Q201	405 014 4509	TR 2SC2412K T146 R
	405 163 1701	TR 2SC2812N-L7-TB0		405 014 4608	TR 2SC2412K T146 S
Q012	405 014 4509	TR 2SC2412K T146 R		405 015 8704	TR 2SC2812-L6-TB
	405 014 4608	TR 2SC2412K T146 S		405 015 8902	TR 2SC2812-L7-TB
	405 015 8704	TR 2SC2812-L6-TB		405 163 1602	TR 2SC2812N-L6-TB0
	405 015 8902	TR 2SC2812-L7-TB		405 163 1701	TR 2SC2812N-L7-TB0
	405 163 1602	TR 2SC2812N-L6-TB0	Q202	405 014 4509	TR 2SC2412K T146 R
	405 163 1701	TR 2SC2812N-L7-TB0		405 014 4608	TR 2SC2412K T146 S
Q013	405 014 4509	TR 2SC2412K T146 R		405 015 8704	TR 2SC2812-L6-TB
	405 014 4608	TR 2SC2412K T146 S		405 015 8902	TR 2SC2812-L7-TB
	405 015 8704	TR 2SC2812-L6-TB		405 163 1602	TR 2SC2812N-L6-TB0
	405 015 8902	TR 2SC2812-L7-TB		405 163 1701	TR 2SC2812N-L7-TB0
	405 163 1602	TR 2SC2812N-L6-TB0	Q203	405 014 4509	TR 2SC2412K T146 R
	405 163 1701	TR 2SC2812N-L7-TB0		405 014 4608	TR 2SC2412K T146 S
Q014	405 014 4509	TR 2SC2412K T146 R		405 015 8704	TR 2SC2812-L6-TB
	405 014 4608	TR 2SC2412K T146 S		405 015 8902	TR 2SC2812-L7-TB
	405 015 8704	TR 2SC2812-L6-TB		405 163 1602	TR 2SC2812N-L6-TB0
	405 015 8902	TR 2SC2812-L7-TB		405 163 1701	TR 2SC2812N-L7-TB0
	405 163 1602	TR 2SC2812N-L6-TB0	Q221	405 134 5905	TR 2SA1037AK-T146-R
	405 163 1701	TR 2SC2812N-L7-TB0		405 147 2205	TR 2SA1037AK-S-T146
Q021	405 014 4509	TR 2SC2412K T146 R		405 002 0308	TR 2SA1037K T146 R
				405 002 0407	TR 2SA1037K T146 S
				405 002 6706	TR 2SA1179-M6-TB
				405 002 6904	TR 2SA1179-M7-TB
				405 163 1503	TR 2SA1179N-M6-TB
				405 163 2708	TR 2SA1179N-M7-TB

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q222	405 014 4509	TR 2SC2412K T146 R	INTEGRATED CIRCUIT		
	405 014 4608	TR 2SC2412K T146 S	IC001	409 438 5500	IC TC4052BFT
	405 015 8704	TR 2SC2812-L6-TB	IC201	409 536 5600	IC AD8075ARU
	405 015 8902	TR 2SC2812-L7-TB	IC221	409 434 8109	IC TC4053BFT-(EL)
	405 163 1602	TR 2SC2812N-L6-TB0	IC5001	409 506 5609	IC AN7513
	405 163 1701	TR 2SC2812N-L7-TB0	CAPACITOR		
Q223	405 014 4509	TR 2SC2412K T146 R	C001	403 323 8805	CERAMIC 2.2U Z 16V
	405 014 4608	TR 2SC2412K T146 S	C002	403 323 8805	CERAMIC 2.2U Z 16V
	405 015 8704	TR 2SC2812-L6-TB	C003	403 323 8805	CERAMIC 2.2U Z 16V
	405 015 8902	TR 2SC2812-L7-TB	C004	403 323 8805	CERAMIC 2.2U Z 16V
	405 163 1602	TR 2SC2812N-L6-TB0	C006	403 323 8805	CERAMIC 2.2U Z 16V
	405 163 1701	TR 2SC2812N-L7-TB0	C007	403 164 0204	CERAMIC 0.1U Z 25V
Q5001	405 014 4509	TR 2SC2412K T146 R	C008	403 323 8805	CERAMIC 2.2U Z 16V
	405 014 4608	TR 2SC2412K T146 S	C011	403 175 4802	NP-ELECT 10U M 10V
	405 015 8704	TR 2SC2812-L6-TB	C012	403 175 4802	NP-ELECT 10U M 10V
	405 015 8902	TR 2SC2812-L7-TB	C021	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1602	TR 2SC2812N-L6-TB0	C031	403 283 6309	CERAMIC 1U Z 10V
	405 163 1701	TR 2SC2812N-L7-TB0	C1004	403 164 0204	CERAMIC 0.1U Z 25V
Q5111	405 014 4509	TR 2SC2412K T146 R	C1041	403 157 3601	CERAMIC 100P J 50V
	405 014 4608	TR 2SC2412K T146 S	C1042	403 157 3601	CERAMIC 100P J 50V
	405 015 8704	TR 2SC2812-L6-TB	C1061	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8902	TR 2SC2812-L7-TB	C201	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1602	TR 2SC2812N-L6-TB0	C202	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1701	TR 2SC2812N-L7-TB0	C2023	403 164 0204	CERAMIC 0.1U Z 25V
Q5112	405 014 4509	TR 2SC2412K T146 R	C203TM	403 232 9702	ELECT 220U M 6.3V
	405 014 4608	TR 2SC2412K T146 S	C204	403 283 6309	CERAMIC 1U Z 10V
	405 015 8704	TR 2SC2812-L6-TB	C207	403 283 6309	CERAMIC 1U Z 10V
	405 015 8902	TR 2SC2812-L7-TB	C208	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1602	TR 2SC2812N-L6-TB0	C221	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1701	TR 2SC2812N-L7-TB0	C222	403 164 0204	CERAMIC 0.1U Z 25V
Q5121	405 014 4509	TR 2SC2412K T146 R	C223	403 164 0204	CERAMIC 0.1U Z 25V
	405 014 4608	TR 2SC2412K T146 S	C224	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8704	TR 2SC2812-L6-TB	C2811	403 304 1801	ELECT 100U M 6.3V
	405 015 8902	TR 2SC2812-L7-TB		403 373 7704	ELECT 100U M 6.3V
	405 163 1602	TR 2SC2812N-L6-TB0	C2812	403 283 6309	CERAMIC 1U Z 10V
	405 163 1701	TR 2SC2812N-L7-TB0	C2813	403 157 6602	CERAMIC 470P K 50V
Q5131	405 014 4509	TR 2SC2412K T146 R	C5001	403 323 8805	CERAMIC 2.2U Z 16V
	405 014 4608	TR 2SC2412K T146 S	C5002	403 207 0307	CERAMIC 1U Z 16V
	405 015 8704	TR 2SC2812-L6-TB	C5003	403 283 6309	CERAMIC 1U Z 10V
	405 015 8902	TR 2SC2812-L7-TB	C5004	403 304 2105	ELECT 47U M 6.3V
	405 163 1602	TR 2SC2812N-L6-TB0	C5006	403 283 6309	CERAMIC 1U Z 10V
	405 163 1701	TR 2SC2812N-L7-TB0	C5101	403 283 6309	CERAMIC 1U Z 10V
Q5141	405 014 4509	TR 2SC2412K T146 R	C5102	403 283 6309	CERAMIC 1U Z 10V
	405 014 4608	TR 2SC2412K T146 S	C5103	403 283 6309	CERAMIC 1U Z 10V
	405 015 8704	TR 2SC2812-L6-TB	C5104	403 283 6309	CERAMIC 1U Z 10V
	405 015 8902	TR 2SC2812-L7-TB	C5111	403 139 7306	CERAMIC 18P J 50V
	405 163 1602	TR 2SC2812N-L6-TB0	C5141	403 139 7306	CERAMIC 18P J 50V
	405 163 1701	TR 2SC2812N-L7-TB0	C5151	403 139 7306	CERAMIC 18P J 50V
Q5142	405 014 4509	TR 2SC2412K T146 R	RESISTOR		
	405 014 4608	TR 2SC2412K T146 S	RC2811	645 034 5029	UNIT, REMOCON RECEIVER
	405 015 8704	TR 2SC2812-L6-TB	R001	401 105 0306	MT-GLAZE 10 JA 1/16W
	405 015 8902	TR 2SC2812-L7-TB	R002	401 113 6406	MT-GLAZE 5.1K JA 1/16W
	405 163 1602	TR 2SC2812N-L6-TB0	R003	401 105 6605	MT-GLAZE 6.8K JA 1/16W
	405 163 1701	TR 2SC2812N-L7-TB0	R004	401 113 6406	MT-GLAZE 5.1K JA 1/16W
Q5151	405 014 4509	TR 2SC2412K T146 R	R006	401 105 6605	MT-GLAZE 6.8K JA 1/16W
	405 014 4608	TR 2SC2412K T146 S	R007	401 105 0702	MT-GLAZE 100K JA 1/16W
	405 015 8704	TR 2SC2812-L6-TB	R008	401 105 0702	MT-GLAZE 100K JA 1/16W
	405 015 8902	TR 2SC2812-L7-TB	R009	401 105 0702	MT-GLAZE 100K JA 1/16W
	405 163 1602	TR 2SC2812N-L6-TB0	R010	401 105 0702	MT-GLAZE 100K JA 1/16W
	405 163 1701	TR 2SC2812N-L7-TB0	R011	401 105 2805	MT-GLAZE 2.2K JA 1/16W
Q5152	405 014 4509	TR 2SC2412K T146 R	R012	401 105 2805	MT-GLAZE 2.2K JA 1/16W
	405 014 4608	TR 2SC2412K T146 S	R013	401 105 2805	MT-GLAZE 2.2K JA 1/16W
	405 015 8704	TR 2SC2812-L6-TB	R014	401 105 2805	MT-GLAZE 2.2K JA 1/16W
	405 015 8902	TR 2SC2812-L7-TB	R016	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	405 163 1602	TR 2SC2812N-L6-TB0	R017	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	405 163 1701	TR 2SC2812N-L7-TB0	R018	401 105 0504	MT-GLAZE 1K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
L1057	645 045 6183	FILTER,EMI 25MHZ	DVI BOARD		
L2004	645 044 8836	FILTER,EMI 100MHZ	610 301 3961 ASSY,PWB,DVI MA3A		
L2005	645 044 8836	FILTER,EMI 100MHZ	TRANSISTOR		
L2006	645 044 8836	FILTER,EMI 100MHZ	Q3071	405 134 5905	TR 2SA1037AK-T146-R
L2023	645 044 8836	FILTER,EMI 100MHZ		405 147 2205	TR 2SA1037AK-S-T146
L2024	645 044 8836	FILTER,EMI 100MHZ		405 002 0308	TR 2SA1037K T146 R
L2041	645 045 6183	FILTER,EMI 25MHZ		405 002 0407	TR 2SA1037K T146 S
L2042	645 045 6183	FILTER,EMI 25MHZ		405 002 6706	TR 2SA1179-M6-TB
L2051	645 045 6183	FILTER,EMI 25MHZ		405 002 6904	TR 2SA1179-M7-TB
L2052	645 045 6183	FILTER,EMI 25MHZ		405 163 1503	TR 2SA1179N-M6-TB
DIODE				405 163 2708	TR 2SA1179N-M7-TB
D011	407 149 0807	DIODE 1SS355-TE-17	Q3072	405 134 5905	TR 2SA1037AK-T146-R
D012	407 149 0807	DIODE 1SS355-TE-17		405 147 2205	TR 2SA1037AK-S-T146
D1001	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 002 0308	TR 2SA1037K T146 R
D1002	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 002 0407	TR 2SA1037K T146 S
D1003	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 002 6706	TR 2SA1179-M6-TB
D1020	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 002 6904	TR 2SA1179-M7-TB
D1021	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 163 1503	TR 2SA1179N-M6-TB
D1022	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 163 2708	TR 2SA1179N-M7-TB
D1031	407 187 8209	ZENER DIODE UDZ12B-TE-17	INTEGRATED CIRCUIT		
D1032	407 187 8209	ZENER DIODE UDZ12B-TE-17	IC3061	409 536 5501	IC AD8074ARU
D1041	407 187 8209	ZENER DIODE UDZ12B-TE-17	CAPACITOR		
D1042	407 187 8209	ZENER DIODE UDZ12B-TE-17	C1086	403 164 0204	CERAMIC 0.1U Z 25V
D1043	407 187 8209	ZENER DIODE UDZ12B-TE-17	C3061	403 304 2105	ELECT 47U M 6.3V
D1044	407 187 8209	ZENER DIODE UDZ12B-TE-17	C3062	403 164 0204	CERAMIC 0.1U Z 25V
D1051	645 045 7449	SURGE-ABSORBER	C3063	403 304 2105	ELECT 47U M 6.3V
D1053	407 187 8605	ZENER DIODE UDZ20B-TE-17	C3064	403 164 0204	CERAMIC 0.1U Z 25V
D1054	407 187 8605	ZENER DIODE UDZ20B-TE-17	C3066	403 164 0204	CERAMIC 0.1U Z 25V
D1055	407 187 8605	ZENER DIODE UDZ20B-TE-17	C3071	403 164 0204	CERAMIC 0.1U Z 25V
D1056	645 045 7449	SURGE-ABSORBER	C3072	403 164 0204	CERAMIC 0.1U Z 25V
D1058	407 187 8605	ZENER DIODE UDZ20B-TE-17	RESISTOR		
D1059	407 187 8605	ZENER DIODE UDZ20B-TE-17	R1091	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
D1061	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	R1093	401 105 2805	MT-GLAZE 2.2K JA 1/16W
D1065	645 045 7449	SURGE-ABSORBER	R3051	401 113 4402	MT-GLAZE 75 JA 1/16W
D1066	645 045 7449	SURGE-ABSORBER	R3052	401 113 4402	MT-GLAZE 75 JA 1/16W
D1067TM	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	R3053	401 113 4402	MT-GLAZE 75 JA 1/16W
D2001	645 045 7449	SURGE-ABSORBER	R3054	401 113 4402	MT-GLAZE 75 JA 1/16W
D2002	645 045 7449	SURGE-ABSORBER	R3055	401 113 4402	MT-GLAZE 75 JA 1/16W
D2003	645 045 7449	SURGE-ABSORBER	R3056	401 113 4402	MT-GLAZE 75 JA 1/16W
D2021	645 045 7449	SURGE-ABSORBER	R3057	401 113 4402	MT-GLAZE 75 JA 1/16W
D2022	645 045 7449	SURGE-ABSORBER	R3058	401 113 4402	MT-GLAZE 75 JA 1/16W
D2025	407 187 8209	ZENER DIODE UDZ12B-TE-17	R3059	401 113 4402	MT-GLAZE 75 JA 1/16W
D2041	407 187 8209	ZENER DIODE UDZ12B-TE-17	R3060	401 113 4402	MT-GLAZE 75 JA 1/16W
D2042	407 187 8209	ZENER DIODE UDZ12B-TE-17	R3061	401 113 4402	MT-GLAZE 75 JA 1/16W
D2043	407 187 8209	ZENER DIODE UDZ12B-TE-17	R3062	401 113 4402	MT-GLAZE 75 JA 1/16W
D2044	407 187 8209	ZENER DIODE UDZ12B-TE-17	R3063	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
D2051	407 187 8209	ZENER DIODE UDZ12B-TE-17	R3064	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
D2052	407 187 8209	ZENER DIODE UDZ12B-TE-17	R3065	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
D2053	407 187 8209	ZENER DIODE UDZ12B-TE-17	R3066	401 105 0405	MT-GLAZE 100 JA 1/16W
D2054	407 187 8209	ZENER DIODE UDZ12B-TE-17	R3067	401 105 0405	MT-GLAZE 100 JA 1/16W
D2811	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	R3068	401 105 0405	MT-GLAZE 100 JA 1/16W
D2812	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	R3069	401 105 3307	MT-GLAZE 2.7K JA 1/16W
MISCELLANEOUS			R3070	401 105 3307	MT-GLAZE 2.7K JA 1/16W
K10A	645 009 8093	SOCKET,D-SUB 15P	R3071	401 105 0405	MT-GLAZE 100 JA 1/16W
K10B	645 000 2571	JACK, PHONE D8.0	R3072	401 105 5400	MT-GLAZE 47K JA 1/16W
K10C	645 000 2595	SOCKET,DIN 8P	R3073	401 105 0306	MT-GLAZE 10 JA 1/16W
K10D	645 028 0382	SOCKET,USB 4P	R3074	401 105 0405	MT-GLAZE 100 JA 1/16W
K20A	645 042 2799	JACK,RCA-3	R3075	401 105 5400	MT-GLAZE 47K JA 1/16W
K20B	645 030 6297	SOCKET,DIN 4P	R3076	401 105 0306	MT-GLAZE 10 JA 1/16W
K20C	645 047 8499	JACK,RCA-2	R3077	401 105 3307	MT-GLAZE 2.7K JA 1/16W
K20D	645 047 8499	JACK,RCA-2	R3078	401 105 3307	MT-GLAZE 2.7K JA 1/16W
SW1061	645 042 8104	SWITCH,PUSH 1P-1TX1	R3079	401 105 0306	MT-GLAZE 10 JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R3081	401 105 3307	MT-GLAZE 2.7K JA 1/16W	Q2701	405 014 4509	TR 2SC2412K T146 R
R3082	401 105 3307	MT-GLAZE 2.7K JA 1/16W		405 014 4608	TR 2SC2412K T146 S
COIL				405 015 8704	TR 2SC2812-L6-TB
L3071	645 044 8843	FILTER,EMI 200MHZ		405 015 8902	TR 2SC2812-L7-TB
L3072	645 044 8843	FILTER,EMI 200MHZ		405 163 1602	TR 2SC2812N-L6-TB0
DIODE				405 163 1701	TR 2SC2812N-L7-TB0
D3051	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	Q2811	405 014 4509	TR 2SC2412K T146 R
D3052	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 014 4608	TR 2SC2412K T146 S
D3053	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 015 8704	TR 2SC2812-L6-TB
D3071	407 187 8209	ZENER DIODE UDZ12B-TE-17		405 015 8902	TR 2SC2812-L7-TB
D3072	407 187 8209	ZENER DIODE UDZ12B-TE-17		405 163 1602	TR 2SC2812N-L6-TB0
MISCELLANEOUS				405 163 1701	TR 2SC2812N-L7-TB0
K10E	645 053 7967	SOCKET,DVI 29P	Q2821	405 014 4509	TR 2SC2412K T146 R
				405 014 4608	TR 2SC2412K T146 S
				405 015 8704	TR 2SC2812-L6-TB
				405 015 8902	TR 2SC2812-L7-TB
				405 163 1602	TR 2SC2812N-L6-TB0
				405 163 1701	TR 2SC2812N-L7-TB0
KEY SW BOARD			Q2831	405 014 4509	TR 2SC2412K T146 R
610 302 7593 ASSY,PWB,KEY SW MA3A				405 014 4608	TR 2SC2412K T146 S
				405 015 8704	TR 2SC2812-L6-TB
				405 015 8902	TR 2SC2812-L7-TB
RESISTOR				405 163 1602	TR 2SC2812N-L6-TB0
R6838	401 105 7909	MT-GLAZE 0.000 ZA 1/16W		405 163 1701	TR 2SC2812N-L7-TB0
R6839	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	Q2841	405 134 5905	TR 2SA1037AK-T146-R
R6840	401 105 7909	MT-GLAZE 0.000 ZA 1/16W		405 147 2205	TR 2SA1037AK-S-T146
R6841	401 105 7909	MT-GLAZE 0.000 ZA 1/16W		405 002 0308	TR 2SA1037K T146 R
R6842	401 105 7909	MT-GLAZE 0.000 ZA 1/16W		405 002 0407	TR 2SA1037K T146 S
R6843	401 105 7909	MT-GLAZE 0.000 ZA 1/16W		405 002 6706	TR 2SA1179-M6-TB
DIODE				405 002 6904	TR 2SA1179-M7-TB
D2861	407 209 7500	LED SML-210YT T86 L		405 163 1503	TR 2SA1179N-M6-TB
D2862	407 203 7803	LED SML-210LT T86 M		405 163 2708	TR 2SA1179N-M7-TB
D2863	407 203 7902	LED SML-210MT T86 M	Q301	405 014 4509	TR 2SC2412K T146 R
D2864	407 203 7803	LED SML-210LT T86 M		405 014 4608	TR 2SC2412K T146 S
D6801	407 149 0807	DIODE 1SS355-TE-17		405 015 8704	TR 2SC2812-L6-TB
D6802	407 149 0807	DIODE 1SS355-TE-17		405 015 8902	TR 2SC2812-L7-TB
D6803	407 149 0807	DIODE 1SS355-TE-17		405 163 1602	TR 2SC2812N-L6-TB0
MISCELLANEOUS				405 163 1701	TR 2SC2812N-L7-TB0
SW6801	645 026 2791	SWITCH,PUSH 1P-1TX1	Q331	405 045 8705	TR 2SK536-TB
SW6802	645 026 2791	SWITCH,PUSH 1P-1TX1	Q351	405 045 8705	TR 2SK536-TB
SW6803	645 026 2791	SWITCH,PUSH 1P-1TX1	Q352	405 045 8705	TR 2SK536-TB
SW6804	645 026 2791	SWITCH,PUSH 1P-1TX1	Q3841	405 014 4509	TR 2SC2412K T146 R
SW6806	645 026 2791	SWITCH,PUSH 1P-1TX1		405 014 4608	TR 2SC2412K T146 S
SW6807	645 026 2791	SWITCH,PUSH 1P-1TX1		405 015 8704	TR 2SC2812-L6-TB
SW6808	645 026 2791	SWITCH,PUSH 1P-1TX1		405 015 8902	TR 2SC2812-L7-TB
SW6809	645 026 2791	SWITCH,PUSH 1P-1TX1		405 163 1602	TR 2SC2812N-L6-TB0
SW6871	645 026 2791	SWITCH,PUSH 1P-1TX1		405 163 1701	TR 2SC2812N-L7-TB0
SW6872	645 026 2791	SWITCH,PUSH 1P-1TX1	Q5201	405 014 4509	TR 2SC2412K T146 R
SW6873	645 026 2791	SWITCH,PUSH 1P-1TX1		405 014 4608	TR 2SC2412K T146 S
				405 015 8704	TR 2SC2812-L6-TB
				405 015 8902	TR 2SC2812-L7-TB
				405 163 1602	TR 2SC2812N-L6-TB0
				405 163 1701	TR 2SC2812N-L7-TB0
AV BOARD			Q5301	405 014 4509	TR 2SC2412K T146 R
610 303 8919 ASSY,PWB,MAIN MB3A				405 014 4608	TR 2SC2412K T146 S
				405 015 8704	TR 2SC2812-L6-TB
				405 015 8902	TR 2SC2812-L7-TB
				405 163 1602	TR 2SC2812N-L6-TB0
				405 163 1701	TR 2SC2812N-L7-TB0
TRANSISTOR			Q5302	405 014 4509	TR 2SC2412K T146 R
Q2601	405 002 8304	TR 2SA1203-Y-TE12L		405 014 4608	TR 2SC2412K T146 S
Q2602	405 014 4509	TR 2SC2412K T146 R		405 015 8704	TR 2SC2812-L6-TB
	405 014 4608	TR 2SC2412K T146 S		405 015 8902	TR 2SC2812-L7-TB
	405 015 8704	TR 2SC2812-L6-TB		405 163 1602	TR 2SC2812N-L6-TB0
	405 015 8902	TR 2SC2812-L7-TB		405 163 1701	TR 2SC2812N-L7-TB0
	405 163 1602	TR 2SC2812N-L6-TB0	Q5311	405 014 4509	TR 2SC2412K T146 R
	405 163 1701	TR 2SC2812N-L7-TB0		405 014 4608	TR 2SC2412K T146 S

-66-

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
IC401	409 528 3409	IC CXD3526GG	C1309	403 155 1609	CERAMIC 33P J 50V
IC402	409 544 6804	IC BD4826G	C1311	403 164 0204	CERAMIC 0.1U Z 25V
IC411	410 386 1902	IC TC74VCX125FT	C1331	403 149 9208	CERAMIC 0.01U Z 50V
IC421	410 348 7409	IC TC74LCX125FT(EL)	C1332	403 283 6309	CERAMIC 1U Z 10V
IC431	410 468 5606	IC TC74ACT244FT	C1333	403 164 0204	CERAMIC 0.1U Z 25V
IC441	410 315 5506	IC HD74HCT244TV	C1351	403 164 0204	CERAMIC 0.1U Z 25V
	410 356 7507	IC SN74HCT244PWR	C1361	403 283 6309	CERAMIC 1U Z 10V
IC501	409 528 2402	IC CXA7000R	C1480	403 304 1801	ELECT 100U M 6.3V
IC5201	409 530 7204	IC AN5870SB		403 373 7704	ELECT 100U M 6.3V
IC5281	409 493 2902	IC SI-3012LU-TL	C1482	403 164 0204	CERAMIC 0.1U Z 25V
IC531	409 528 2402	IC CXA7000R	C1483	403 164 0204	CERAMIC 0.1U Z 25V
IC5311	409 434 8109	IC TC4053BFT-(EL)	C1801	403 283 6309	CERAMIC 1U Z 10V
IC5321	409 526 5306	IC BD7600FV	C1802	403 164 0204	CERAMIC 0.1U Z 25V
IC5331	409 438 5500	IC TC4052BFT	C1814	403 164 0204	CERAMIC 0.1U Z 25V
IC5341	409 484 2003	IC BA7078AF-E2	C1824	403 164 0204	CERAMIC 0.1U Z 25V
IC5351	409 431 6009	IC MC74VHC14DT	C2101	403 162 4709	ELECT 10U M 16V
	410 356 8009	IC SN74LV14APWR		403 335 0309	ELECT 10U M 16V
IC5361	409 441 8406	IC LA7217M-T-TRM	C2102	403 162 4709	ELECT 10U M 16V
IC561	409 528 2402	IC CXA7000R		403 335 0309	ELECT 10U M 16V
IC5641	409 499 1701	IC PQ025EZ01ZP	C2103	403 162 4709	ELECT 10U M 16V
IC5646	409 499 1701	IC PQ025EZ01ZP		403 335 0309	ELECT 10U M 16V
IC5651	409 539 8905	IC PQ033EZ01ZP	C2104	403 164 0204	CERAMIC 0.1U Z 25V
IC5661	409 539 8905	IC PQ033EZ01ZP	C2106	403 164 0204	CERAMIC 0.1U Z 25V
IC5671	409 416 6505	IC BA05FP-E2	C2107	403 164 0204	CERAMIC 0.1U Z 25V
IC5681	409 539 8905	IC PQ033EZ01ZP	C2505	403 175 3300	ELECT 47U M 16V
IC6201	409 461 7304	IC AD8057ART	C2506	403 164 0204	CERAMIC 0.1U Z 25V
IC6221	409 461 7304	IC AD8057ART	C2507	403 164 0204	CERAMIC 0.1U Z 25V
IC6241	409 461 7304	IC AD8057ART	C2509	403 164 0204	CERAMIC 0.1U Z 25V
IC6301	410 325 4605	IC TC74LCX244FT	C2520	403 175 3300	ELECT 47U M 16V
IC6351	410 386 1902	IC TC74VCX125FT	C2521	403 164 0204	CERAMIC 0.1U Z 25V
IC711	409 347 5400	IC M51204FP-600C	C2522	403 164 0204	CERAMIC 0.1U Z 25V
IC7201	409 528 6608	IC LC749400W	C2524	403 164 0204	CERAMIC 0.1U Z 25V
IC721	409 400 9208	IC TC7SET32FU-(TE85L)	C2540	403 175 3300	ELECT 47U M 16V
IC7251	409 462 2308	IC TC7SZ04FU-TE852	C2541	403 164 0204	CERAMIC 0.1U Z 25V
IC7256	409 320 9401	IC TC7S66FU(TE85L)	C2542	403 164 0204	CERAMIC 0.1U Z 25V
IC7281	409 400 7105	IC TC7W53FU-(TE12L)	C2544	403 164 0204	CERAMIC 0.1U Z 25V
IC731	410 378 7103	IC PIC12C508A-04/SM A	C2546	403 229 3508	ELECT 100U M 16V
IC7801	409 458 3401	IC M62393FP		403 335 0408	ELECT 100U M 16V
IC8001	409 544 4107	IC THC63DV161	C2561	403 229 3508	ELECT 100U M 16V
IC8002	409 397 3005	IC TC7SET04FU-(TE85L)		403 335 0408	ELECT 100U M 16V
IC801	410 466 9408	IC MBM29LV800TA90C146	C2562	403 164 0204	CERAMIC 0.1U Z 25V
IC8051	410 321 8300	IC TC74VCX16244FT	C2563	403 229 3508	ELECT 100U M 16V
IC8061	410 321 8300	IC TC74VCX16244FT		403 335 0408	ELECT 100U M 16V
IC8071	410 321 8300	IC TC74VCX16244FT	C2564	403 164 0204	CERAMIC 0.1U Z 25V
IC8081	410 407 4004	IC TC74VCX541FT	C2566	403 323 8805	CERAMIC 2.2U Z 16V
IC8101	409 434 8109	IC TC4053BFT-(EL)	C2601	403 283 6309	CERAMIC 1U Z 10V
IC811	410 352 8508	IC IDT71V016S15PHTR	C2791	403 304 1801	ELECT 100U M 6.3V
	410 397 0406	IC IC61LV6416-15T		403 373 7704	ELECT 100U M 6.3V
IC8111	409 417 5507	IC 24LC04BT/SN	C2792	403 164 0204	CERAMIC 0.1U Z 25V
IC8201	410 388 7001	IC AD9884AKS-100	C2806	403 164 0204	CERAMIC 0.1U Z 25V
IC8801	409 481 8602	IC LM76CHMX-5	C2807	403 157 2901	CERAMIC 47P J 50V
IC9401	410 468 5606	IC TC74ACT244FT	C302	403 164 0204	CERAMIC 0.1U Z 25V
IC9411	410 468 5507	IC TC74ACT240FT	C303	403 149 9208	CERAMIC 0.01U Z 50V
CAPACITOR			C304	403 317 4509	ELECT 100U M 6.3V
C1202	403 164 0204	CERAMIC 0.1U Z 25V	C305	403 164 0204	CERAMIC 0.1U Z 25V
C1203	403 164 0204	CERAMIC 0.1U Z 25V	C306	403 149 9208	CERAMIC 0.01U Z 50V
C1204	403 164 0204	CERAMIC 0.1U Z 25V	C3101	403 164 0204	CERAMIC 0.1U Z 25V
C1206	403 164 0204	CERAMIC 0.1U Z 25V	C3102	403 164 0204	CERAMIC 0.1U Z 25V
C1207	403 164 0204	CERAMIC 0.1U Z 25V	C3103	403 164 0204	CERAMIC 0.1U Z 25V
C1209	403 149 9208	CERAMIC 0.01U Z 50V	C3104	403 325 6304	CERAMIC 0.22U K 10V
C1301	403 164 0204	CERAMIC 0.1U Z 25V	C3106	403 157 3601	CERAMIC 100P J 50V
C1302	403 280 0508	ELECT 470U M 4V	C3107	403 325 6304	CERAMIC 0.22U K 10V
C1303	403 164 0204	CERAMIC 0.1U Z 25V	C3108	403 157 3601	CERAMIC 100P J 50V
C1304	403 157 2505	CERAMIC 27P J 50V	C3109	403 325 6304	CERAMIC 0.22U K 10V
C1305	403 157 3106	CERAMIC 56P J 50V	C311	403 164 0204	CERAMIC 0.1U Z 25V
C1306	403 149 9208	CERAMIC 0.01U Z 50V	C3111	403 157 3601	CERAMIC 100P J 50V
C1307	403 164 0204	CERAMIC 0.1U Z 25V	C3112	403 304 1801	ELECT 100U M 6.3V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
	403 373 7704	ELECT 100U M 6.3V	C372	403 164 0204	CERAMIC 0.1U Z 25V
C3113	403 164 0204	CERAMIC 0.1U Z 25V	C3801	403 164 0204	CERAMIC 0.1U Z 25V
C3114	403 281 5205	CERAMIC 0.22U Z 16V	C3802	403 304 3102	ELECT 22U M 16V
C3116	403 155 2101	CERAMIC 1500P K 50V	C3803	403 164 0204	CERAMIC 0.1U Z 25V
C3117	403 215 0900	CERAMIC 390P J 50V	C3804	403 283 6309	CERAMIC 1U Z 10V
C3118	403 155 2101	CERAMIC 1500P K 50V	C3831	403 283 6309	CERAMIC 1U Z 10V
C3119	403 205 2808	CERAMIC 0.047U K 25V	C3851	403 164 0204	CERAMIC 0.1U Z 25V
C312	403 149 9208	CERAMIC 0.01U Z 50V	C3871	403 207 0307	CERAMIC 1U Z 16V
C3121	403 307 7008	CERAMIC 0.068U K 16V	C3872	403 207 0307	CERAMIC 1U Z 16V
C3122	403 307 7008	CERAMIC 0.068U K 16V	C3873	403 207 0307	CERAMIC 1U Z 16V
C3123	403 307 7008	CERAMIC 0.068U K 16V	C3874	403 207 0307	CERAMIC 1U Z 16V
C3124	403 155 2101	CERAMIC 1500P K 50V	C3876	403 283 6309	CERAMIC 1U Z 10V
C3126	403 205 2808	CERAMIC 0.047U K 25V	C401	403 304 1801	ELECT 100U M 6.3V
C3127	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C3128	403 304 1801	ELECT 100U M 6.3V	C402	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V		403 373 7704	ELECT 100U M 6.3V
C3129	403 157 1508	CERAMIC 3P C 50V	C403	403 164 0204	CERAMIC 0.1U Z 25V
C313	403 164 0204	CERAMIC 0.1U Z 25V	C404	403 164 0204	CERAMIC 0.1U Z 25V
C3131	403 157 1508	CERAMIC 3P C 50V	C405	403 164 0204	CERAMIC 0.1U Z 25V
C3132	403 325 6304	CERAMIC 0.22U K 10V	C406	403 164 0204	CERAMIC 0.1U Z 25V
C3133	403 155 2101	CERAMIC 1500P K 50V	C407	403 164 0204	CERAMIC 0.1U Z 25V
C3134	403 215 0900	CERAMIC 390P J 50V	C408	403 164 0204	CERAMIC 0.1U Z 25V
C3136	403 162 4709	ELECT 10U M 16V	C409	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0309	ELECT 10U M 16V	C410	403 164 0204	CERAMIC 0.1U Z 25V
C3137	403 205 2808	CERAMIC 0.047U K 25V	C411	403 164 0204	CERAMIC 0.1U Z 25V
C3138	403 325 6304	CERAMIC 0.22U K 10V	C412	403 164 0204	CERAMIC 0.1U Z 25V
C3139	403 155 2101	CERAMIC 1500P K 50V	C413	403 164 0204	CERAMIC 0.1U Z 25V
C314	403 149 9208	CERAMIC 0.01U Z 50V	C414	403 164 0204	CERAMIC 0.1U Z 25V
C3141	403 215 0900	CERAMIC 390P J 50V	C415	403 164 0204	CERAMIC 0.1U Z 25V
C3142	403 378 6405	CERAMIC 10U Z 16V	C416	403 164 0204	CERAMIC 0.1U Z 25V
C3143	403 205 2808	CERAMIC 0.047U K 25V	C425	403 283 6309	CERAMIC 1U Z 10V
C3144	403 325 6304	CERAMIC 0.22U K 10V	C426	403 164 0204	CERAMIC 0.1U Z 25V
C3146TM	403 024 6902	CERAMIC 390P J 50V	C427	403 164 0204	CERAMIC 0.1U Z 25V
	403 073 2900	CERAMIC 390P K 50V	C428	403 164 0204	CERAMIC 0.1U Z 25V
	403 076 2907	CERAMIC 390P K 500V	C501	403 283 6309	CERAMIC 1U Z 10V
C3147	403 325 6304	CERAMIC 0.22U K 10V	C502	403 283 6309	CERAMIC 1U Z 10V
C3148	403 155 1302	CERAMIC 150P J 50V	C503	403 323 1301	CERAMIC 0.47U Z 10V
C3151	403 325 6304	CERAMIC 0.22U K 10V	C504	403 323 1301	CERAMIC 0.47U Z 10V
C3152	403 325 6304	CERAMIC 0.22U K 10V	C505	403 164 0204	CERAMIC 0.1U Z 25V
C316	403 149 9208	CERAMIC 0.01U Z 50V	C506	403 229 3508	ELECT 100U M 16V
C317	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0408	ELECT 100U M 16V
C318	403 149 9208	CERAMIC 0.01U Z 50V	C508	403 164 0204	CERAMIC 0.1U Z 25V
C319	403 164 0204	CERAMIC 0.1U Z 25V	C509	403 149 9208	CERAMIC 0.01U Z 50V
C331	403 164 0204	CERAMIC 0.1U Z 25V	C511	403 164 0204	CERAMIC 0.1U Z 25V
C332	403 283 6309	CERAMIC 1U Z 10V	C513	403 164 0204	CERAMIC 0.1U Z 25V
C333	403 164 0204	CERAMIC 0.1U Z 25V	C515	403 283 6309	CERAMIC 1U Z 10V
C334	403 149 9208	CERAMIC 0.01U Z 50V	C516	403 280 0805	ELECT 330U M 6.3V
C335	403 149 9208	CERAMIC 0.01U Z 50V	C517	403 372 7507	CERAMIC 2.2U K 6.3V
C336	403 164 0204	CERAMIC 0.1U Z 25V	C518	403 164 0204	CERAMIC 0.1U Z 25V
C341	403 164 0204	CERAMIC 0.1U Z 25V	C5201	403 304 2105	ELECT 47U M 6.3V
C3501	403 157 3601	CERAMIC 100P J 50V	C5202	403 283 6309	CERAMIC 1U Z 10V
C3502	403 298 9609	CERAMIC 0.1U K 16V	C5204	403 164 0204	CERAMIC 0.1U Z 25V
C3503	403 164 0204	CERAMIC 0.1U Z 25V	C5206	403 355 9900	CERAMIC 2.2U K 10V
C3504	403 229 3508	ELECT 100U M 16V	C5207	403 355 9900	CERAMIC 2.2U K 10V
	403 335 0408	ELECT 100U M 16V	C5208	403 355 9900	CERAMIC 2.2U K 10V
C351	403 283 6309	CERAMIC 1U Z 10V	C5209	403 355 9900	CERAMIC 2.2U K 10V
C352	403 164 0204	CERAMIC 0.1U Z 25V	C5211	403 164 0204	CERAMIC 0.1U Z 25V
C3531	403 157 3601	CERAMIC 100P J 50V	C5212	403 355 9900	CERAMIC 2.2U K 10V
C3532	403 215 2201	CERAMIC 0.01U K 50V	C5213	403 355 9900	CERAMIC 2.2U K 10V
C3533	403 164 0204	CERAMIC 0.1U Z 25V	C5216	403 149 9208	CERAMIC 0.01U Z 50V
C3534	403 229 3508	ELECT 100U M 16V	C5217	403 280 1604	ELECT 220U M 16V
	403 335 0408	ELECT 100U M 16V	C5218	403 149 9208	CERAMIC 0.01U Z 50V
C3562	403 304 1801	ELECT 100U M 6.3V	C5219	403 280 1604	ELECT 220U M 16V
	403 373 7704	ELECT 100U M 6.3V	C5221	403 149 9208	CERAMIC 0.01U Z 50V
C3563	403 164 0204	CERAMIC 0.1U Z 25V	C5222	403 280 1604	ELECT 220U M 16V
C3564	403 164 0204	CERAMIC 0.1U Z 25V	C5223	403 149 9208	CERAMIC 0.01U Z 50V
C371	403 283 6309	CERAMIC 1U Z 10V	C5224	403 229 3508	ELECT 100U M 16V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
	403 335 0408	ELECT 100U M 16V		403 373 7704	ELECT 100U M 6.3V
C5226	403 164 0204	CERAMIC 0.1U Z 25V	C5649	403 164 0204	CERAMIC 0.1U Z 25V
C5281	403 323 8805	CERAMIC 2.2U Z 16V	C565	403 164 0204	CERAMIC 0.1U Z 25V
C5301	403 283 6309	CERAMIC 1U Z 10V	C5651	403 164 0204	CERAMIC 0.1U Z 25V
C531	403 283 6309	CERAMIC 1U Z 10V	C5652	403 280 0805	ELECT 330U M 6.3V
C5311	403 164 0204	CERAMIC 0.1U Z 25V	C5653	403 280 0508	ELECT 470U M 4V
C5312	403 164 0204	CERAMIC 0.1U Z 25V	C5654	403 164 0204	CERAMIC 0.1U Z 25V
C5314	403 169 2807	CERAMIC 330P J 50V	C566	403 229 3508	ELECT 100U M 16V
C532	403 283 6309	CERAMIC 1U Z 10V		403 335 0408	ELECT 100U M 16V
C5321	403 304 2105	ELECT 47U M 6.3V	C5661	403 164 0204	CERAMIC 0.1U Z 25V
C5322	403 162 6604	ELECT 2.2U M 50V	C5662	403 304 1801	ELECT 100U M 6.3V
C5323	403 355 9900	CERAMIC 2.2U K 10V		403 373 7704	ELECT 100U M 6.3V
C5324	403 314 5905	CERAMIC 0.47U K 16V	C5663	403 304 1801	ELECT 100U M 6.3V
C5326	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C5327	403 149 9208	CERAMIC 0.01U Z 50V	C5664	403 164 0204	CERAMIC 0.1U Z 25V
C533	403 323 1301	CERAMIC 0.47U Z 10V	C5671	403 164 0204	CERAMIC 0.1U Z 25V
C5331	403 164 0204	CERAMIC 0.1U Z 25V	C5672	403 280 0805	ELECT 330U M 6.3V
C534	403 323 1301	CERAMIC 0.47U Z 10V	C5673	403 280 0805	ELECT 330U M 6.3V
C5340	403 164 0204	CERAMIC 0.1U Z 25V	C5674	403 164 0204	CERAMIC 0.1U Z 25V
C5341	403 205 7803	TA-SOLID 2.2U M 16V	C568	403 164 0204	CERAMIC 0.1U Z 25V
C5342	403 325 6304	CERAMIC 0.22U K 10V	C5681	403 164 0204	CERAMIC 0.1U Z 25V
C5343	403 364 5801	CERAMIC 1U K 10V	C5682	403 280 0805	ELECT 330U M 6.3V
C5344	403 314 5905	CERAMIC 0.47U K 16V	C5683	403 280 0508	ELECT 470U M 4V
C5345	403 355 9900	CERAMIC 2.2U K 10V	C5684	403 164 0204	CERAMIC 0.1U Z 25V
C5346	403 364 5801	CERAMIC 1U K 10V	C569	403 149 9208	CERAMIC 0.01U Z 50V
C5347	403 164 0204	CERAMIC 0.1U Z 25V	C571	403 164 0204	CERAMIC 0.1U Z 25V
C5348	403 304 2105	ELECT 47U M 6.3V	C573	403 164 0204	CERAMIC 0.1U Z 25V
C5349	403 157 3601	CERAMIC 100P J 50V	C575	403 283 6309	CERAMIC 1U Z 10V
C535	403 164 0204	CERAMIC 0.1U Z 25V	C576	403 280 0805	ELECT 330U M 6.3V
C5351	403 164 0204	CERAMIC 0.1U Z 25V	C577	403 372 7507	CERAMIC 2.2U K 6.3V
C5352	403 155 1609	CERAMIC 33P J 50V	C578	403 164 0204	CERAMIC 0.1U Z 25V
C5353	403 157 3809	CERAMIC 120P J 50V	C580	403 283 6309	CERAMIC 1U Z 10V
C536	403 229 3508	ELECT 100U M 16V	C581	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0408	ELECT 100U M 16V	C6201	403 283 6309	CERAMIC 1U Z 10V
C5361	403 364 5801	CERAMIC 1U K 10V	C6203	403 157 1904	CERAMIC 10P D 50V
C5362	403 237 8700	CERAMIC 0.056U Z 50V	C6204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C5363	403 224 6603	CERAMIC 0.022U Z 50V	C6207	403 157 3304	CERAMIC 68P J 50V
C5364	403 157 6909	CERAMIC 820P K 50V	C6221	403 283 6309	CERAMIC 1U Z 10V
C5366	403 364 5801	CERAMIC 1U K 10V	C6223	403 157 1904	CERAMIC 10P D 50V
C5367	403 215 2201	CERAMIC 0.01U K 50V	C6224	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C5368	403 164 0204	CERAMIC 0.1U Z 25V	C6227	403 157 3304	CERAMIC 68P J 50V
C538	403 164 0204	CERAMIC 0.1U Z 25V	C6241	403 283 6309	CERAMIC 1U Z 10V
C5386	403 157 2901	CERAMIC 47P J 50V	C6243	403 157 1904	CERAMIC 10P D 50V
C539	403 149 9208	CERAMIC 0.01U Z 50V	C6244	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C5397	403 162 5300	ELECT 4.7U M 25V	C6247	403 157 3304	CERAMIC 68P J 50V
C5398	403 149 9208	CERAMIC 0.01U Z 50V	C6261	403 164 0204	CERAMIC 0.1U Z 25V
C541	403 164 0204	CERAMIC 0.1U Z 25V	C6262	403 280 0805	ELECT 330U M 6.3V
C543	403 164 0204	CERAMIC 0.1U Z 25V	C6263	403 280 0805	ELECT 330U M 6.3V
C545	403 283 6309	CERAMIC 1U Z 10V	C6264	403 164 0204	CERAMIC 0.1U Z 25V
C546	403 280 0805	ELECT 330U M 6.3V	C6301	403 164 0204	CERAMIC 0.1U Z 25V
C547	403 372 7507	CERAMIC 2.2U K 6.3V	C6351	403 164 0204	CERAMIC 0.1U Z 25V
C548	403 164 0204	CERAMIC 0.1U Z 25V	C6601	403 164 0204	CERAMIC 0.1U Z 25V
C550	403 283 6309	CERAMIC 1U Z 10V	C6602	403 164 0204	CERAMIC 0.1U Z 25V
C551	403 164 0204	CERAMIC 0.1U Z 25V	C6603	403 164 0204	CERAMIC 0.1U Z 25V
C561	403 283 6309	CERAMIC 1U Z 10V	C6604	403 164 0204	CERAMIC 0.1U Z 25V
C562	403 283 6309	CERAMIC 1U Z 10V	C711	403 283 6309	CERAMIC 1U Z 10V
C563	403 323 1301	CERAMIC 0.47U Z 10V	C712	403 283 6309	CERAMIC 1U Z 10V
C564	403 323 1301	CERAMIC 0.47U Z 10V	C713	403 283 6309	CERAMIC 1U Z 10V
C5641	403 280 0805	ELECT 330U M 6.3V	C7201	403 164 0204	CERAMIC 0.1U Z 25V
C5642	403 164 0204	CERAMIC 0.1U Z 25V	C7202	403 283 6309	CERAMIC 1U Z 10V
C5643	403 164 0204	CERAMIC 0.1U Z 25V	C7203	403 164 0204	CERAMIC 0.1U Z 25V
C5644	403 304 1801	ELECT 100U M 6.3V	C7204	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C7206	403 164 0204	CERAMIC 0.1U Z 25V
C5646	403 304 1801	ELECT 100U M 6.3V	C7207	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C7208	403 164 0204	CERAMIC 0.1U Z 25V
C5647	403 164 0204	CERAMIC 0.1U Z 25V	C7209	403 164 0204	CERAMIC 0.1U Z 25V
C5648	403 304 1801	ELECT 100U M 6.3V	C7211	403 164 0204	CERAMIC 0.1U Z 25V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C7212	403 283 6309	CERAMIC 1U Z 10V		403 373 7704	ELECT 100U M 6.3V
C7213	403 164 0204	CERAMIC 0.1U Z 25V	C8217	403 164 0204	CERAMIC 0.1U Z 25V
C7214	403 164 0204	CERAMIC 0.1U Z 25V	C8218	403 164 0204	CERAMIC 0.1U Z 25V
C7216	403 164 0204	CERAMIC 0.1U Z 25V	C8219	403 164 0204	CERAMIC 0.1U Z 25V
C7217	403 164 0204	CERAMIC 0.1U Z 25V	C8801	403 155 1609	CERAMIC 33P J 50V
C7252	403 283 6309	CERAMIC 1U Z 10V	C8802	403 155 1609	CERAMIC 33P J 50V
C7253	403 164 0204	CERAMIC 0.1U Z 25V	C8803	403 164 0204	CERAMIC 0.1U Z 25V
C7281	403 164 0204	CERAMIC 0.1U Z 25V	C9401	403 164 0204	CERAMIC 0.1U Z 25V
C731	403 139 7108	CERAMIC 12P J 50V	C9411	403 164 0204	CERAMIC 0.1U Z 25V
C732	403 139 7108	CERAMIC 12P J 50V	C9791	403 280 0805	ELECT 330U M 6.3V
C733	403 283 6309	CERAMIC 1U Z 10V	C9801	403 164 0204	CERAMIC 0.1U Z 25V
C7601	403 280 0805	ELECT 330U M 6.3V	C9821	403 283 6309	CERAMIC 1U Z 10V
C7602	403 280 0805	ELECT 330U M 6.3V			
C7603	403 149 9208	CERAMIC 0.01U Z 50V	RESISTOR		
C7801	403 164 0204	CERAMIC 0.1U Z 25V	RB1822	645 020 7822	R-NETWORK 10KX4 0.063W
C7802	403 283 6309	CERAMIC 1U Z 10V		645 025 5380	R-NETWORK 10KX4 1/16W
C7803	403 283 6309	CERAMIC 1U Z 10V	RB3101	645 036 0985	R-NETWORK 47X4 1/32W
C8001	403 304 1801	ELECT 100U M 6.3V		645 037 0830	R-NETWORK 47X4 1/32W
	403 373 7704	ELECT 100U M 6.3V	RB3102	645 036 0985	R-NETWORK 47X4 1/32W
C8002	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0830	R-NETWORK 47X4 1/32W
C8004	403 164 0204	CERAMIC 0.1U Z 25V	RB3103	645 036 0985	R-NETWORK 47X4 1/32W
C8005	403 304 1801	ELECT 100U M 6.3V		645 037 0830	R-NETWORK 47X4 1/32W
	403 373 7704	ELECT 100U M 6.3V	RB3104	645 036 0985	R-NETWORK 47X4 1/32W
C8006	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0830	R-NETWORK 47X4 1/32W
C8011	403 164 0204	CERAMIC 0.1U Z 25V	RB401	645 036 0985	R-NETWORK 47X4 1/32W
C8012	403 155 1500	CERAMIC 180P J 50V		645 037 0830	R-NETWORK 47X4 1/32W
C8013	403 169 2807	CERAMIC 330P J 50V	RB402	645 036 0985	R-NETWORK 47X4 1/32W
C8014	403 169 2807	CERAMIC 330P J 50V		645 037 0830	R-NETWORK 47X4 1/32W
C8016	403 155 1500	CERAMIC 180P J 50V	RB403	645 036 0985	R-NETWORK 47X4 1/32W
C8017	403 169 2807	CERAMIC 330P J 50V		645 037 0830	R-NETWORK 47X4 1/32W
C8018	403 164 0204	CERAMIC 0.1U Z 25V	RB404	645 036 0985	R-NETWORK 47X4 1/32W
C8019	403 169 2807	CERAMIC 330P J 50V		645 037 0830	R-NETWORK 47X4 1/32W
C8021	403 155 1500	CERAMIC 180P J 50V	RB405	645 036 0985	R-NETWORK 47X4 1/32W
C8022	403 169 2807	CERAMIC 330P J 50V		645 037 0830	R-NETWORK 47X4 1/32W
C8023	403 157 3601	CERAMIC 100P J 50V	RB406	645 036 0985	R-NETWORK 47X4 1/32W
C8024	403 157 3601	CERAMIC 100P J 50V		645 037 0830	R-NETWORK 47X4 1/32W
C8026	403 157 3601	CERAMIC 100P J 50V	RB511	645 034 5050	R-NETWORK 22X4 1/32W
C8027	403 157 3601	CERAMIC 100P J 50V		645 037 0823	R-NETWORK 22X4 1/32W
C8028	403 157 3601	CERAMIC 100P J 50V	RB512	645 034 5050	R-NETWORK 22X4 1/32W
C8029	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0823	R-NETWORK 22X4 1/32W
C8031	403 283 6309	CERAMIC 1U Z 10V	RB541	645 034 5050	R-NETWORK 22X4 1/32W
C8051	403 304 1801	ELECT 100U M 6.3V		645 037 0823	R-NETWORK 22X4 1/32W
	403 373 7704	ELECT 100U M 6.3V	RB542	645 034 5050	R-NETWORK 22X4 1/32W
C8052	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0823	R-NETWORK 22X4 1/32W
C8053	403 164 0204	CERAMIC 0.1U Z 25V	RB571	645 034 5050	R-NETWORK 22X4 1/32W
C806	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0823	R-NETWORK 22X4 1/32W
C8062	403 164 0204	CERAMIC 0.1U Z 25V	RB572	645 034 5050	R-NETWORK 22X4 1/32W
C8063	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0823	R-NETWORK 22X4 1/32W
C807	403 283 6309	CERAMIC 1U Z 10V	RB7281	645 036 0985	R-NETWORK 47X4 1/32W
C8072	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0830	R-NETWORK 47X4 1/32W
C8073	403 164 0204	CERAMIC 0.1U Z 25V	RB7282	645 036 0985	R-NETWORK 47X4 1/32W
C8082	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0830	R-NETWORK 47X4 1/32W
C8101	403 304 2105	ELECT 47U M 6.3V	RB7283	645 036 0985	R-NETWORK 47X4 1/32W
C8102	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0830	R-NETWORK 47X4 1/32W
C811	403 164 0204	CERAMIC 0.1U Z 25V	RB7284	645 036 0985	R-NETWORK 47X4 1/32W
C812	403 283 6309	CERAMIC 1U Z 10V		645 037 0830	R-NETWORK 47X4 1/32W
C8202	403 164 0204	CERAMIC 0.1U Z 25V	RB7291	645 036 0985	R-NETWORK 47X4 1/32W
C8203	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0830	R-NETWORK 47X4 1/32W
C8204	403 280 0508	ELECT 470U M 4V	RB7292	645 036 0985	R-NETWORK 47X4 1/32W
C8206	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0830	R-NETWORK 47X4 1/32W
C8207	403 157 3809	CERAMIC 120P J 50V	RB7293	645 036 0985	R-NETWORK 47X4 1/32W
C8208	403 215 2201	CERAMIC 0.01U K 50V		645 037 0830	R-NETWORK 47X4 1/32W
C8211	403 298 9609	CERAMIC 0.1U K 16V	RB7294	645 036 0985	R-NETWORK 47X4 1/32W
C8212	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0830	R-NETWORK 47X4 1/32W
C8213	403 164 0204	CERAMIC 0.1U Z 25V	RB7296	645 036 0985	R-NETWORK 47X4 1/32W
C8214	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0830	R-NETWORK 47X4 1/32W
C8216	403 304 1801	ELECT 100U M 6.3V	RB7297	645 036 0985	R-NETWORK 47X4 1/32W
				645 037 0830	R-NETWORK 47X4 1/32W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
RB7298	645 036 0985	R-NETWORK 47X4 1/32W	R1213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1301	401 105 7404	MT-GLAZE 8.2K JA 1/16W
RB7299	645 036 0985	R-NETWORK 47X4 1/32W	R1302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1303	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB8001	645 036 0985	R-NETWORK 47X4 1/32W	R1304	401 105 0603	MT-GLAZE 10K JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1307	401 105 0603	MT-GLAZE 10K JA 1/16W
RB8002	645 036 0985	R-NETWORK 47X4 1/32W	R1309	401 105 0603	MT-GLAZE 10K JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1312	401 105 0306	MT-GLAZE 10 JA 1/16W
RB8003	645 036 0985	R-NETWORK 47X4 1/32W	R1313	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1315	401 105 5103	MT-GLAZE 47 JA 1/16W
RB8004	645 036 0985	R-NETWORK 47X4 1/32W	R1331	401 105 0405	MT-GLAZE 100 JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1337	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB8005	645 036 0985	R-NETWORK 47X4 1/32W	R1338	401 105 0603	MT-GLAZE 10K JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1339	401 105 0306	MT-GLAZE 10 JA 1/16W
RB8006	645 036 0985	R-NETWORK 47X4 1/32W	R1341	401 105 0603	MT-GLAZE 10K JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1344	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB8007	645 036 0985	R-NETWORK 47X4 1/32W	R1345	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1351	401 105 5301	MT-GLAZE 4.7K JA 1/16W
RB8008	645 036 0985	R-NETWORK 47X4 1/32W	R1361	401 105 0504	MT-GLAZE 1K JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1482	401 105 4106	MT-GLAZE 3.3K JA 1/16W
RB8011	645 036 0985	R-NETWORK 47X4 1/32W	R1484	401 105 4106	MT-GLAZE 3.3K JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1486	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB8012	645 036 0985	R-NETWORK 47X4 1/32W	R1487	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1488	401 105 0306	MT-GLAZE 10 JA 1/16W
RB8013	645 036 0985	R-NETWORK 47X4 1/32W	R1489	401 105 0405	MT-GLAZE 100 JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1802	401 105 4106	MT-GLAZE 3.3K JA 1/16W
RB8014	645 036 0985	R-NETWORK 47X4 1/32W	R1804	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1821	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB8251	645 036 0985	R-NETWORK 47X4 1/32W	R1822	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1828	401 105 0603	MT-GLAZE 10K JA 1/16W
RB8252	645 036 0985	R-NETWORK 47X4 1/32W	R1833	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1834	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB8253	645 036 0985	R-NETWORK 47X4 1/32W	R1835	401 105 0603	MT-GLAZE 10K JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1836	401 105 0603	MT-GLAZE 10K JA 1/16W
RB8254	645 036 0985	R-NETWORK 47X4 1/32W	R1837	401 105 0603	MT-GLAZE 10K JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1838	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB8256	645 036 0985	R-NETWORK 47X4 1/32W	R1839	403 164 0204	CERAMIC 0.1U Z 25V
	645 037 0830	R-NETWORK 47X4 1/32W	R1840	403 164 0204	CERAMIC 0.1U Z 25V
RB8257	645 036 0985	R-NETWORK 47X4 1/32W	R1841	403 164 0204	CERAMIC 0.1U Z 25V
	645 037 0830	R-NETWORK 47X4 1/32W	R1843	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB8258	645 036 0985	R-NETWORK 47X4 1/32W	R1845	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1846	401 105 0603	MT-GLAZE 10K JA 1/16W
RB8259	645 036 0985	R-NETWORK 47X4 1/32W	R1847	401 105 0603	MT-GLAZE 10K JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1848	401 105 0603	MT-GLAZE 10K JA 1/16W
RB8261	645 036 0985	R-NETWORK 47X4 1/32W	R1849	401 105 2904	MT-GLAZE 22K JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R1849A	401 105 2904	MT-GLAZE 22K JA 1/16W
RB8262	645 036 0985	R-NETWORK 47X4 1/32W	R2101	401 105 5103	MT-GLAZE 47 JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R2102	401 105 8005	MT-GLAZE 1M JA 1/16W
RB8263	645 036 0985	R-NETWORK 47X4 1/32W	R2103	401 105 8005	MT-GLAZE 1M JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R2104	401 105 0504	MT-GLAZE 1K JA 1/16W
RB8264	645 036 0985	R-NETWORK 47X4 1/32W	R2508	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 037 0830	R-NETWORK 47X4 1/32W	R2509	401 105 0306	MT-GLAZE 10 JA 1/16W
RB9301	645 036 3528	R-NETWORK 0X4 1/32W	R2510	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 037 0816	R-NETWORK 0X4 1/32W	R2511	401 105 0306	MT-GLAZE 10 JA 1/16W
RB9331	645 036 3528	R-NETWORK 0X4 1/32W	R2522	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 037 0816	R-NETWORK 0X4 1/32W	R2523	401 105 0306	MT-GLAZE 10 JA 1/16W
RB9361	645 036 3528	R-NETWORK 0X4 1/32W	R2524	401 105 0306	MT-GLAZE 10 JA 1/16W
	645 037 0816	R-NETWORK 0X4 1/32W	R2525	401 105 0306	MT-GLAZE 10 JA 1/16W
R1201	401 105 0504	MT-GLAZE 1K JA 1/16W	R2542	401 105 0306	MT-GLAZE 10 JA 1/16W
R1202	401 105 0504	MT-GLAZE 1K JA 1/16W	R2543	401 105 0306	MT-GLAZE 10 JA 1/16W
R1203	401 105 0504	MT-GLAZE 1K JA 1/16W	R2544	401 105 0306	MT-GLAZE 10 JA 1/16W
R1204	401 105 0504	MT-GLAZE 1K JA 1/16W	R2545	401 105 0306	MT-GLAZE 10 JA 1/16W
R1206	401 105 0504	MT-GLAZE 1K JA 1/16W	R2561	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1207	401 105 0504	MT-GLAZE 1K JA 1/16W	R2562	401 105 2706	MT-GLAZE 220 JA 1/16W
R1208	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2563	401 105 2706	MT-GLAZE 220 JA 1/16W
R1211	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2564	401 105 2706	MT-GLAZE 220 JA 1/16W
R1212	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2601	401 105 0603	MT-GLAZE 10K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R2602	401 105 6506	MT-GLAZE 680 JA 1/16W	R341	401 105 0306	MT-GLAZE 10 JA 1/16W
R2603	401 105 4205	MT-GLAZE 33K JA 1/16W	R343	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2606	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R346	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2609	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R347	401 105 0405	MT-GLAZE 100 JA 1/16W
R2613	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R348	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2730	401 105 0504	MT-GLAZE 1K JA 1/16W	R3501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2791	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3502	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3503	401 105 0504	MT-GLAZE 1K JA 1/16W
R2807	401 105 0405	MT-GLAZE 100 JA 1/16W	R3504	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2812	401 105 0504	MT-GLAZE 1K JA 1/16W	R3506	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2813	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R3508	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2821	401 105 0504	MT-GLAZE 1K JA 1/16W	R351	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2822	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R3512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2831	401 105 4502	MT-GLAZE 390 JA 1/16W	R352	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2832	401 105 4502	MT-GLAZE 390 JA 1/16W	R353	401 105 0306	MT-GLAZE 10 JA 1/16W
R2833	401 105 6506	MT-GLAZE 680 JA 1/16W	R3531	401 105 0504	MT-GLAZE 1K JA 1/16W
R2834	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R3532	401 105 5905	MT-GLAZE 560 JA 1/16W
R2841	401 105 0504	MT-GLAZE 1K JA 1/16W	R3533	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2842	401 105 0504	MT-GLAZE 1K JA 1/16W	R354	401 105 0306	MT-GLAZE 10 JA 1/16W
R2843	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R355	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2844	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R356	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R301	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3563	401 105 0504	MT-GLAZE 1K JA 1/16W
R302	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3564	401 105 0504	MT-GLAZE 1K JA 1/16W
R303	401 105 2904	MT-GLAZE 22K JA 1/16W	R3565	401 105 0603	MT-GLAZE 10K JA 1/16W
R306	401 105 0504	MT-GLAZE 1K JA 1/16W	R3566	401 105 0603	MT-GLAZE 10K JA 1/16W
R307	401 105 0306	MT-GLAZE 10 JA 1/16W	R3567	401 105 0603	MT-GLAZE 10K JA 1/16W
R309	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R3568	401 105 0405	MT-GLAZE 100 JA 1/16W
R3101	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R3569	401 105 0405	MT-GLAZE 100 JA 1/16W
R3102	401 105 5202	MT-GLAZE 470 JA 1/16W	R3571	401 105 1105	MT-GLAZE 12K JA 1/16W
R3103	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R3572	401 105 1105	MT-GLAZE 12K JA 1/16W
R3104	401 105 5202	MT-GLAZE 470 JA 1/16W	R3573	401 105 1105	MT-GLAZE 12K JA 1/16W
R3105	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R3574	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3106	401 105 5202	MT-GLAZE 470 JA 1/16W	R3575	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3107	401 105 0405	MT-GLAZE 100 JA 1/16W	R3576	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3108	401 105 0405	MT-GLAZE 100 JA 1/16W	R3581	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3109	401 105 0405	MT-GLAZE 100 JA 1/16W	R3582	401 105 2904	MT-GLAZE 22K JA 1/16W
R3110	401 105 0603	MT-GLAZE 10K JA 1/16W	R3583	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3113	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3584	401 105 2904	MT-GLAZE 22K JA 1/16W
R3114	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3585	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3115	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3586	401 105 2904	MT-GLAZE 22K JA 1/16W
R3116	401 105 5103	MT-GLAZE 47 JA 1/16W	R361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3117	401 105 5103	MT-GLAZE 47 JA 1/16W	R3611	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3118	401 105 5103	MT-GLAZE 47 JA 1/16W	R3613	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3120	401 105 5103	MT-GLAZE 47 JA 1/16W	R3615	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3121	401 105 5103	MT-GLAZE 47 JA 1/16W	R3617	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3122	401 105 5103	MT-GLAZE 47 JA 1/16W	R3618	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3124	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3619	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3127	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R314	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R363	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3141	401 105 5202	MT-GLAZE 470 JA 1/16W	R364	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3143	401 105 0306	MT-GLAZE 10 JA 1/16W	R367	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3147	401 105 0306	MT-GLAZE 10 JA 1/16W	R3801	401 105 2904	MT-GLAZE 22K JA 1/16W
R3148	401 105 0306	MT-GLAZE 10 JA 1/16W	R3802	401 105 2904	MT-GLAZE 22K JA 1/16W
R315	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3803	401 105 2904	MT-GLAZE 22K JA 1/16W
R316	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3804	401 105 2904	MT-GLAZE 22K JA 1/16W
R317	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3806	401 105 0405	MT-GLAZE 100 JA 1/16W
R320	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3807	401 105 0405	MT-GLAZE 100 JA 1/16W
R323	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3808	401 105 0405	MT-GLAZE 100 JA 1/16W
R324	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3809	401 105 0405	MT-GLAZE 100 JA 1/16W
R325	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3811	401 105 0603	MT-GLAZE 10K JA 1/16W
R329	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3812	401 105 0603	MT-GLAZE 10K JA 1/16W
R331	401 105 0306	MT-GLAZE 10 JA 1/16W	R3813	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R332	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3814	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R333	401 105 0504	MT-GLAZE 1K JA 1/16W	R3815	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R335	401 105 0306	MT-GLAZE 10 JA 1/16W	R3816	401 105 0306	MT-GLAZE 10 JA 1/16W
R336	401 105 5905	MT-GLAZE 560 JA 1/16W	R3817	401 105 0306	MT-GLAZE 10 JA 1/16W
R337	401 113 5904	MT-GLAZE 1.3K JA 1/16W	R3818	401 105 1501	MT-GLAZE 1.5K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R3819TM	401 026 1604	CARBON 270K JA 1/16W	R487	401 105 0306	MT-GLAZE 10 JA 1/16W
R3841	401 105 5400	MT-GLAZE 47K JA 1/16W	R488	401 105 0306	MT-GLAZE 10 JA 1/16W
R3842	401 105 0603	MT-GLAZE 10K JA 1/16W	R489	401 105 0306	MT-GLAZE 10 JA 1/16W
R3843	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R491	401 105 0306	MT-GLAZE 10 JA 1/16W
R3846	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R492	401 105 0306	MT-GLAZE 10 JA 1/16W
R3847	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R493	401 105 0306	MT-GLAZE 10 JA 1/16W
R3851	401 105 0405	MT-GLAZE 100 JA 1/16W	R494	401 105 0306	MT-GLAZE 10 JA 1/16W
R3852	401 105 0405	MT-GLAZE 100 JA 1/16W	R496	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3853	401 105 0405	MT-GLAZE 100 JA 1/16W	R497	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3854	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3855	401 105 2904	MT-GLAZE 22K JA 1/16W	R502	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3856	401 105 2904	MT-GLAZE 22K JA 1/16W	R505	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3857	401 105 2904	MT-GLAZE 22K JA 1/16W	R509	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3858	401 105 0603	MT-GLAZE 10K JA 1/16W	R511	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3859	401 105 0603	MT-GLAZE 10K JA 1/16W	R512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R386	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R514	401 105 0603	MT-GLAZE 10K JA 1/16W
R3861	401 105 0603	MT-GLAZE 10K JA 1/16W	R515	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3862	401 105 0603	MT-GLAZE 10K JA 1/16W	R516	401 105 2607	MT-GLAZE 22 JA 1/16W
R3866	401 105 0603	MT-GLAZE 10K JA 1/16W	R517	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R387	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R518	401 105 2607	MT-GLAZE 22 JA 1/16W
R3871	401 105 4007	MT-GLAZE 330 JA 1/16W	R5201	401 105 0405	MT-GLAZE 100 JA 1/16W
R3872	401 105 6506	MT-GLAZE 680 JA 1/16W	R5202	401 105 0405	MT-GLAZE 100 JA 1/16W
R3873	401 105 0603	MT-GLAZE 10K JA 1/16W	R5203	401 105 0405	MT-GLAZE 100 JA 1/16W
R3874	401 105 0405	MT-GLAZE 100 JA 1/16W	R5204	401 105 0504	MT-GLAZE 1K JA 1/16W
R390	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5207	401 105 0504	MT-GLAZE 1K JA 1/16W
R396	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5208	401 105 1303	MT-GLAZE 15 JA 1/16W
R401	401 105 0603	MT-GLAZE 10K JA 1/16W	R5209	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R402	401 105 0603	MT-GLAZE 10K JA 1/16W	R5211	403 145 9905	CERAMIC 22P J 50V
R403	401 105 0603	MT-GLAZE 10K JA 1/16W	R5212	403 145 9905	CERAMIC 22P J 50V
R404	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5213	403 145 9905	CERAMIC 22P J 50V
R406	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5281	401 105 1303	MT-GLAZE 15 JA 1/16W
R415	401 105 0306	MT-GLAZE 10 JA 1/16W	R5282	401 105 1303	MT-GLAZE 15 JA 1/16W
R416	401 105 0306	MT-GLAZE 10 JA 1/16W	R5283	401 105 5400	MT-GLAZE 47K JA 1/16W
R417	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5284	401 105 7602	MT-GLAZE 820K JA 1/16W
R418	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5285	401 219 1602	MT-GLAZE 100K FA 1/16W
R421	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5286	401 105 4700	MT-GLAZE 39K JA 1/16W
R422	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5301	401 105 0405	MT-GLAZE 100 JA 1/16W
R424	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5302	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R426	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5303	401 105 0405	MT-GLAZE 100 JA 1/16W
R427	401 105 0306	MT-GLAZE 10 JA 1/16W	R5304	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R428	401 105 0306	MT-GLAZE 10 JA 1/16W	R5306	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R429	401 105 0306	MT-GLAZE 10 JA 1/16W	R5307	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R431	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R433	401 105 0603	MT-GLAZE 10K JA 1/16W	R5311	401 105 0306	MT-GLAZE 10 JA 1/16W
R435	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5312	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R436	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5313	401 105 0603	MT-GLAZE 10K JA 1/16W
R437	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5314	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R438	401 105 0306	MT-GLAZE 10 JA 1/16W	R5316	401 105 0504	MT-GLAZE 1K JA 1/16W
R439	401 105 0306	MT-GLAZE 10 JA 1/16W	R5317	401 105 5202	MT-GLAZE 470 JA 1/16W
R440	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5318	401 105 6506	MT-GLAZE 680 JA 1/16W
R441	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R451	401 105 0306	MT-GLAZE 10 JA 1/16W	R5321	401 105 8104	MT-GLAZE 56K JA 1/16W
R452	401 105 0306	MT-GLAZE 10 JA 1/16W	R5322	401 105 8104	MT-GLAZE 56K JA 1/16W
R453	401 105 5806	MT-GLAZE 56 JA 1/16W	R5323	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R472	401 105 0306	MT-GLAZE 10 JA 1/16W	R5324	401 105 0702	MT-GLAZE 100K JA 1/16W
R473	401 105 0306	MT-GLAZE 10 JA 1/16W	R5326	401 105 0504	MT-GLAZE 1K JA 1/16W
R474	401 105 0306	MT-GLAZE 10 JA 1/16W	R5328	401 105 0504	MT-GLAZE 1K JA 1/16W
R475	401 105 0306	MT-GLAZE 10 JA 1/16W	R5331	401 105 1402	MT-GLAZE 150 JA 1/16W
R476	401 105 0306	MT-GLAZE 10 JA 1/16W	R5332	401 105 1402	MT-GLAZE 150 JA 1/16W
R477	401 105 0306	MT-GLAZE 10 JA 1/16W	R5333	401 105 0603	MT-GLAZE 10K JA 1/16W
R478	401 105 0306	MT-GLAZE 10 JA 1/16W	R5334	401 105 0603	MT-GLAZE 10K JA 1/16W
R479	401 105 0306	MT-GLAZE 10 JA 1/16W	R5336	401 105 0603	MT-GLAZE 10K JA 1/16W
R481	401 105 0306	MT-GLAZE 10 JA 1/16W	R5337	401 105 0603	MT-GLAZE 10K JA 1/16W
R482	401 105 0306	MT-GLAZE 10 JA 1/16W	R5338	401 105 1402	MT-GLAZE 150 JA 1/16W
R483	401 105 0306	MT-GLAZE 10 JA 1/16W	R5339	401 105 1402	MT-GLAZE 150 JA 1/16W
R484	401 105 0306	MT-GLAZE 10 JA 1/16W	R5341	401 105 0405	MT-GLAZE 100 JA 1/16W
R486	401 105 0306	MT-GLAZE 10 JA 1/16W	R5342	401 105 8005	MT-GLAZE 1M JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R5343	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6213	401 105 0504	MT-GLAZE 1K JA 1/16W
R5344	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R6214	401 105 1303	MT-GLAZE 15 JA 1/16W
R5346	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6221	401 105 0405	MT-GLAZE 100 JA 1/16W
R5349	401 158 4108	MT-GLAZE 4.7 JA 1/16W	R6222	401 105 1907	MT-GLAZE 180 JA 1/16W
R535	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6223	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R5352	401 105 0405	MT-GLAZE 100 JA 1/16W	R6224	401 105 0405	MT-GLAZE 100 JA 1/16W
R5356	401 105 0306	MT-GLAZE 10 JA 1/16W	R6227	401 105 0405	MT-GLAZE 100 JA 1/16W
R5361	401 105 1709	MT-GLAZE 150K JA 1/16W	R6228	401 105 2706	MT-GLAZE 220 JA 1/16W
R5362	401 177 2109	MT-GLAZE 4.7M JA 1/16W	R6232	401 105 0504	MT-GLAZE 1K JA 1/16W
R5363	401 105 7305	MT-GLAZE 820 JA 1/16W	R6233	401 105 0504	MT-GLAZE 1K JA 1/16W
R5364	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R6234	401 105 1303	MT-GLAZE 15 JA 1/16W
R5371	401 105 0504	MT-GLAZE 1K JA 1/16W	R6241	401 105 0405	MT-GLAZE 100 JA 1/16W
R5373	401 105 0504	MT-GLAZE 1K JA 1/16W	R6242	401 105 1907	MT-GLAZE 180 JA 1/16W
R5376	401 105 0504	MT-GLAZE 1K JA 1/16W	R6243	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R5378	401 105 0504	MT-GLAZE 1K JA 1/16W	R6244	401 105 0405	MT-GLAZE 100 JA 1/16W
R5381	401 105 0504	MT-GLAZE 1K JA 1/16W	R6247	401 105 0405	MT-GLAZE 100 JA 1/16W
R5382	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R6248	401 105 2706	MT-GLAZE 220 JA 1/16W
R5383	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R6252	401 105 0504	MT-GLAZE 1K JA 1/16W
R5384	401 105 0603	MT-GLAZE 10K JA 1/16W	R6253	401 105 0504	MT-GLAZE 1K JA 1/16W
R5386	401 105 0504	MT-GLAZE 1K JA 1/16W	R6254	401 105 1303	MT-GLAZE 15 JA 1/16W
R5388	401 105 0504	MT-GLAZE 1K JA 1/16W	R6301	401 105 0405	MT-GLAZE 100 JA 1/16W
R539	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6302	401 105 0405	MT-GLAZE 100 JA 1/16W
R5391	401 105 0405	MT-GLAZE 100 JA 1/16W	R6303	401 105 0405	MT-GLAZE 100 JA 1/16W
R5393	401 105 0504	MT-GLAZE 1K JA 1/16W	R6304	401 105 0405	MT-GLAZE 100 JA 1/16W
R5394	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R6306	401 105 0405	MT-GLAZE 100 JA 1/16W
R5396	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R6307	401 105 0405	MT-GLAZE 100 JA 1/16W
R5397	401 105 3000	MT-GLAZE 220K JA 1/16W	R6308	401 105 0405	MT-GLAZE 100 JA 1/16W
R541	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6309	401 105 0405	MT-GLAZE 100 JA 1/16W
R542	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6351	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R544	401 105 0603	MT-GLAZE 10K JA 1/16W	R6352	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R545	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6353	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R546	401 105 2607	MT-GLAZE 22 JA 1/16W	R6356	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R547	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6357	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R548	401 105 2607	MT-GLAZE 22 JA 1/16W	⚠ R6601	402 085 6708	FUSIBLE RES 3.0 JH 1/4W
R561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	⚠ R6602	645 030 1056	PROTECTOR, IC 3.8A 72V
R562	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	⚠ R6603	402 085 6708	FUSIBLE RES 3.0 JH 1/4W
R5641	401 241 6200	MT-GLAZE 6.8 JA 1W	R6611	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5642	401 105 0405	MT-GLAZE 100 JA 1/16W	R6681	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5643	401 241 6200	MT-GLAZE 6.8 JA 1W	R711	401 105 1105	MT-GLAZE 12K JA 1/16W
R5646	401 234 8105	MT-GLAZE 4.7 JA 1W	R712	401 105 2508	MT-GLAZE 20K JA 1/16W
R5647	401 234 8105	MT-GLAZE 4.7 JA 1W	R713	401 105 0603	MT-GLAZE 10K JA 1/16W
R5648	401 105 0405	MT-GLAZE 100 JA 1/16W	R714	401 105 0405	MT-GLAZE 100 JA 1/16W
R565	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R716	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5651	401 218 8602	MT-GLAZE 5.6 JA 1W	R717	401 105 0504	MT-GLAZE 1K JA 1/16W
R5652	401 218 8602	MT-GLAZE 5.6 JA 1W	R7201	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5653	401 105 0405	MT-GLAZE 100 JA 1/16W	R7202	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5661	401 218 8602	MT-GLAZE 5.6 JA 1W	R7203	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5662	401 218 8602	MT-GLAZE 5.6 JA 1W	R7204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5663	401 105 0405	MT-GLAZE 100 JA 1/16W	R7206	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5681	401 218 8602	MT-GLAZE 5.6 JA 1W	R7207	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5682	401 218 8602	MT-GLAZE 5.6 JA 1W	R7208	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5683	401 105 0405	MT-GLAZE 100 JA 1/16W	R7209	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R569	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7211	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R571	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7212	401 105 3901	MT-GLAZE 33 JA 1/16W
R572	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R574	401 105 0603	MT-GLAZE 10K JA 1/16W	R7215	401 105 0405	MT-GLAZE 100 JA 1/16W
R575	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7223	401 105 0405	MT-GLAZE 100 JA 1/16W
R576	401 105 2607	MT-GLAZE 22 JA 1/16W	R7224	401 105 0405	MT-GLAZE 100 JA 1/16W
R577	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7228	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R578	401 105 2607	MT-GLAZE 22 JA 1/16W	R7229	401 105 3901	MT-GLAZE 33 JA 1/16W
R6201	401 105 0405	MT-GLAZE 100 JA 1/16W	R7231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6202	401 105 1907	MT-GLAZE 180 JA 1/16W	R7233	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6203	401 105 7404	MT-GLAZE 8.2K JA 1/16W	R7234	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6204	401 105 0405	MT-GLAZE 100 JA 1/16W	R7237	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6207	401 105 0405	MT-GLAZE 100 JA 1/16W	R7238	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6208	401 105 2706	MT-GLAZE 220 JA 1/16W	R7239	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6212	401 105 0504	MT-GLAZE 1K JA 1/16W	R7252	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R7253	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8101	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R7254	401 105 0702	MT-GLAZE 100K JA 1/16W	R8102	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R726	401 105 0504	MT-GLAZE 1K JA 1/16W	R8108	401 105 0603	MT-GLAZE 10K JA 1/16W
R7262	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8109	401 105 0603	MT-GLAZE 10K JA 1/16W
R7263	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8111	401 105 0405	MT-GLAZE 100 JA 1/16W
R7266	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8112	401 105 0405	MT-GLAZE 100 JA 1/16W
R7267	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8141	401 105 0603	MT-GLAZE 10K JA 1/16W
R727	401 105 0603	MT-GLAZE 10K JA 1/16W	R8143	401 105 0603	MT-GLAZE 10K JA 1/16W
R7273	401 105 5202	MT-GLAZE 470 JA 1/16W	R8201	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7274	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8202	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7276	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8203	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7277	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8206	401 105 0405	MT-GLAZE 100 JA 1/16W
R7278	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8207	401 105 0405	MT-GLAZE 100 JA 1/16W
R728	401 105 0504	MT-GLAZE 1K JA 1/16W	R8209	401 105 0405	MT-GLAZE 100 JA 1/16W
R7282	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8211	401 105 0603	MT-GLAZE 10K JA 1/16W
R7284	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8212	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R7287	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8213	401 105 0405	MT-GLAZE 100 JA 1/16W
R7288	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8214	401 105 0405	MT-GLAZE 100 JA 1/16W
R731	401 105 0603	MT-GLAZE 10K JA 1/16W	R8217	401 105 0603	MT-GLAZE 10K JA 1/16W
R734	401 105 0603	MT-GLAZE 10K JA 1/16W	R8218	401 105 0306	MT-GLAZE 10 JA 1/16W
R737	401 105 0306	MT-GLAZE 10 JA 1/16W	R8801	401 105 0306	MT-GLAZE 10 JA 1/16W
R739	401 105 2706	MT-GLAZE 220 JA 1/16W	R8802	401 105 0306	MT-GLAZE 10 JA 1/16W
R742	401 105 2706	MT-GLAZE 220 JA 1/16W	R8803	401 105 0603	MT-GLAZE 10K JA 1/16W
R743	401 105 2706	MT-GLAZE 220 JA 1/16W	R8807	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
⚠ R7601	402 083 5109	FUSIBLE RES 5.6 JH 1/4W	R9301	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7602	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R9302	401 105 0306	MT-GLAZE 10 JA 1/16W
R7603	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R9303	401 105 0306	MT-GLAZE 10 JA 1/16W
R7604	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R9304	401 105 0306	MT-GLAZE 10 JA 1/16W
R7801	401 105 0405	MT-GLAZE 100 JA 1/16W	R9306	401 105 0306	MT-GLAZE 10 JA 1/16W
R7802	401 105 0405	MT-GLAZE 100 JA 1/16W	R9307	401 105 0306	MT-GLAZE 10 JA 1/16W
R7803	401 105 0405	MT-GLAZE 100 JA 1/16W	R9308	401 105 0306	MT-GLAZE 10 JA 1/16W
R7804	401 105 0405	MT-GLAZE 100 JA 1/16W	R9309	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7806	401 105 0405	MT-GLAZE 100 JA 1/16W	R9312	401 105 0306	MT-GLAZE 10 JA 1/16W
R7807	401 105 0405	MT-GLAZE 100 JA 1/16W	R9313	401 105 0306	MT-GLAZE 10 JA 1/16W
R7808	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9314	401 105 0306	MT-GLAZE 10 JA 1/16W
R7811	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9316	401 105 0306	MT-GLAZE 10 JA 1/16W
R7813	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9317	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7816	401 105 0405	MT-GLAZE 100 JA 1/16W	R9318	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8001	401 105 0603	MT-GLAZE 10K JA 1/16W	R9319	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8002	401 105 0603	MT-GLAZE 10K JA 1/16W	R9321	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8006	401 105 0603	MT-GLAZE 10K JA 1/16W	R9323	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R8007	401 105 0603	MT-GLAZE 10K JA 1/16W	R9324	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R8008	401 105 0603	MT-GLAZE 10K JA 1/16W	R9331	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8011	401 105 0603	MT-GLAZE 10K JA 1/16W	R9332	401 105 0306	MT-GLAZE 10 JA 1/16W
R8012	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9333	401 105 0306	MT-GLAZE 10 JA 1/16W
R8013	401 105 0603	MT-GLAZE 10K JA 1/16W	R9334	401 105 0306	MT-GLAZE 10 JA 1/16W
R8018	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9336	401 105 0306	MT-GLAZE 10 JA 1/16W
R802	401 105 0603	MT-GLAZE 10K JA 1/16W	R9337	401 105 0306	MT-GLAZE 10 JA 1/16W
R8022	401 105 0306	MT-GLAZE 10 JA 1/16W	R9338	401 105 0306	MT-GLAZE 10 JA 1/16W
R8023	401 105 0306	MT-GLAZE 10 JA 1/16W	R9339	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8024	401 105 0306	MT-GLAZE 10 JA 1/16W	R9342	401 105 0306	MT-GLAZE 10 JA 1/16W
R8026	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9343	401 105 0306	MT-GLAZE 10 JA 1/16W
R8027	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9344	401 105 0306	MT-GLAZE 10 JA 1/16W
R8028	401 105 4007	MT-GLAZE 330 JA 1/16W	R9346	401 105 0306	MT-GLAZE 10 JA 1/16W
R8029	401 105 3109	MT-GLAZE 27 JA 1/16W	R9347	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R803	401 105 0603	MT-GLAZE 10K JA 1/16W	R9348	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9349	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8061	401 105 0306	MT-GLAZE 10 JA 1/16W	R9351	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8062	401 105 0306	MT-GLAZE 10 JA 1/16W	R9353	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R807	401 105 0603	MT-GLAZE 10K JA 1/16W	R9354	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R808	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R9361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8085	401 105 0405	MT-GLAZE 100 JA 1/16W	R9362	401 105 0306	MT-GLAZE 10 JA 1/16W
R8086	401 105 0405	MT-GLAZE 100 JA 1/16W	R9363	401 105 0306	MT-GLAZE 10 JA 1/16W
R8087	401 105 0405	MT-GLAZE 100 JA 1/16W	R9364	401 105 0306	MT-GLAZE 10 JA 1/16W
R8088	401 105 0405	MT-GLAZE 100 JA 1/16W	R9366	401 105 0306	MT-GLAZE 10 JA 1/16W
R8089	401 105 0405	MT-GLAZE 100 JA 1/16W	R9367	401 105 0306	MT-GLAZE 10 JA 1/16W
R8091	401 105 0405	MT-GLAZE 100 JA 1/16W	R9368	401 105 0306	MT-GLAZE 10 JA 1/16W

-76-

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
POWER BOARD					
610 304 1629 ASSY,PWB,POWER MA3A					
TRANSISTOR					
Q5501	405 014 4509	TR 2SC2412K T146 R	Q68A	405 163 1701	TR 2SC2812N-L7-TB0
	405 014 4608	TR 2SC2412K T146 S	Q68P	405 139 7706	TR IMZ1A-T108
	405 015 8704	TR 2SC2812-L6-TB		405 014 4509	TR 2SC2412K T146 R
	405 015 8902	TR 2SC2812-L7-TB		405 014 4608	TR 2SC2412K T146 S
	405 163 1602	TR 2SC2812N-L6-TB0		405 015 8704	TR 2SC2812-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB0		405 015 8902	TR 2SC2812-L7-TB
Q5551	405 014 4509	TR 2SC2412K T146 R		405 163 1602	TR 2SC2812N-L6-TB0
	405 014 4608	TR 2SC2412K T146 S	Q681	405 163 1701	TR 2SC2812N-L7-TB0
	405 015 8704	TR 2SC2812-L6-TB		405 047 9007	TR 2SB1204-S-TL
	405 015 8902	TR 2SC2812-L7-TB		405 047 9106	TR 2SB1204-T-TL
	405 163 1602	TR 2SC2812N-L6-TB0	Q682	405 014 4509	TR 2SC2412K T146 R
	405 163 1701	TR 2SC2812N-L7-TB0		405 014 4608	TR 2SC2412K T146 S
Q65A	405 047 9007	TR 2SB1204-S-TL		405 015 8704	TR 2SC2812-L6-TB
	405 047 9106	TR 2SB1204-T-TL		405 015 8902	TR 2SC2812-L7-TB
Q65B	405 014 4509	TR 2SC2412K T146 R		405 163 1602	TR 2SC2812N-L6-TB0
	405 014 4608	TR 2SC2412K T146 S	Q69A	405 163 1701	TR 2SC2812N-L7-TB0
	405 015 8704	TR 2SC2812-L6-TB		405 014 4509	TR 2SC2412K T146 R
	405 015 8902	TR 2SC2812-L7-TB		405 014 4608	TR 2SC2412K T146 S
	405 163 1602	TR 2SC2812N-L6-TB0		405 015 8704	TR 2SC2812-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB0		405 015 8902	TR 2SC2812-L7-TB
Q65C	405 014 4509	TR 2SC2412K T146 R		405 163 1602	TR 2SC2812N-L6-TB0
	405 014 4608	TR 2SC2412K T146 S		405 163 1701	TR 2SC2812N-L7-TB0
	405 015 8704	TR 2SC2812-L6-TB	Q691	405 154 3301	TR 2SK3280-TL
	405 015 8902	TR 2SC2812-L7-TB	INTEGRATED CIRCUIT		
	405 163 1602	TR 2SC2812N-L6-TB0	IC5501	409 362 1104	IC BA6287F
	405 163 1701	TR 2SC2812N-L7-TB0	IC5551	409 362 1104	IC BA6287F
Q651	405 014 4509	TR 2SC2412K T146 R	IC631	409 421 4701	IC STR-Z2156
	405 014 4608	TR 2SC2412K T146 S	IC65A	409 531 6206	IC FA7701V-TE1
	405 015 8704	TR 2SC2812-L6-TB	IC651	409 344 6509	IC UPC1093T-E1
	405 015 8902	TR 2SC2812-L7-TB	IC671	409 531 6206	IC FA7701V-TE1
	405 163 1602	TR 2SC2812N-L6-TB0	IC681	409 531 6206	IC FA7701V-TE1
	405 163 1701	TR 2SC2812N-L7-TB0	CAPACITOR		
Q66A	405 014 4509	TR 2SC2412K T146 R	C5503	403 149 9208	CERAMIC 0.01U Z 50V
	405 014 4608	TR 2SC2412K T146 S	C5553	403 149 9208	CERAMIC 0.01U Z 50V
	405 015 8704	TR 2SC2812-L6-TB	C630	403 323 8706	MT-POLYEST 0.047U K 450V
	405 015 8902	TR 2SC2812-L7-TB	C631	403 192 4809	TA-SOLID 2.2U M 35V
	405 163 1602	TR 2SC2812N-L6-TB0	C633	403 113 3805	CERAMIC 1000P K 50V
	405 163 1701	TR 2SC2812N-L7-TB0	C634	403 247 3306	CERAMIC 330P K 2K
Q661	405 014 4509	TR 2SC2412K T146 R	C635	403 167 8603	CERAMIC 220P K 2K
	405 014 4608	TR 2SC2412K T146 S	C636	403 070 2606	CERAMIC 0.1U Z 50V
	405 015 8704	TR 2SC2812-L6-TB	C637	403 157 6800	CERAMIC 680P K 50V
	405 015 8902	TR 2SC2812-L7-TB	C638	403 208 1402	TA-SOLID 1U M 25V
	405 163 1602	TR 2SC2812N-L6-TB0	C639	403 356 1804	ELECT 220U M 35V
	405 163 1701	TR 2SC2812N-L7-TB0	C640	403 164 0204	CERAMIC 0.1U Z 25V
Q662	405 047 9007	TR 2SB1204-S-TL	C641	403 281 5205	CERAMIC 0.22U Z 16V
	405 047 9106	TR 2SB1204-T-TL	C642	403 083 4307	POLYPRO 0.022U J 400V
	405 014 4509	TR 2SC2412K T146 R	C643	403 256 2406	CERAMIC 0.22U Z 50V
	405 014 4608	TR 2SC2412K T146 S	C65B	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8704	TR 2SC2812-L6-TB	C65D	403 155 2309	CERAMIC 4700P K 50V
	405 015 8902	TR 2SC2812-L7-TB	C65E	403 281 5205	CERAMIC 0.22U Z 16V
	405 163 1602	TR 2SC2812N-L6-TB0	C65F	403 194 4609	ELECT 470U M 16V
	405 163 1701	TR 2SC2812N-L7-TB0	C65G	403 164 0204	CERAMIC 0.1U Z 25V
Q67A	405 139 7706	TR IMZ1A-T108	C651	403 369 2409	ELECT 2700U M 25V
Q67P	405 014 4509	TR 2SC2412K T146 R	C652	403 350 5303	ELECT 3900U M 10V
	405 014 4608	TR 2SC2412K T146 S	C653	403 331 0303	ELECT 470U M 16V
	405 015 8704	TR 2SC2812-L6-TB	C654	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8902	TR 2SC2812-L7-TB	C655	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1602	TR 2SC2812N-L6-TB0	C656	403 345 9606	CERAMIC 0.47U K 10V
	405 163 1701	TR 2SC2812N-L7-TB0	C657	403 157 6404	CERAMIC 330P K 50V
Q671	405 047 9007	TR 2SB1204-S-TL	C658	403 157 6404	CERAMIC 330P K 50V
	405 047 9106	TR 2SB1204-T-TL	C659	403 218 8101	ELECT 1000U M 25V
Q672	405 014 4509	TR 2SC2412K T146 R	C661	403 218 8101	ELECT 1000U M 25V
	405 014 4608	TR 2SC2412K T146 S	C671	403 281 5205	CERAMIC 0.22U Z 16V
	405 015 8704	TR 2SC2812-L6-TB	C672	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8902	TR 2SC2812-L7-TB	C674	403 155 2309	CERAMIC 4700P K 50V
	405 163 1602	TR 2SC2812N-L6-TB0	C676	403 194 4609	ELECT 470U M 16V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C681	403 281 5205	CERAMIC 0.22U Z 16V	R67A	401 217 3806	MT-GLAZE 27K FA 1/16W
C682	403 164 0204	CERAMIC 0.1U Z 25V	R67B	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C684	403 155 2309	CERAMIC 4700P K 50V	R67C	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C686	403 194 4609	ELECT 470U M 16V	R67D	401 219 1107	MT-GLAZE 1.8K FA 1/16W
C69Z	403 164 0204	CERAMIC 0.1U Z 25V	R67E	401 105 5301	MT-GLAZE 4.7K JA 1/16W
C691	403 206 9004	ELECT 1000U M 6.3V	R67F	401 105 0603	MT-GLAZE 10K JA 1/16W
C692	403 206 9004	ELECT 1000U M 6.3V	R67G	401 105 0504	MT-GLAZE 1K JA 1/16W
C693	403 206 9004	ELECT 1000U M 6.3V	R67H	401 105 2904	MT-GLAZE 22K JA 1/16W
C694	403 206 9004	ELECT 1000U M 6.3V	R67I	401 105 0504	MT-GLAZE 1K JA 1/16W
C695	403 280 0805	ELECT 330U M 6.3V	R67K	401 105 0603	MT-GLAZE 10K JA 1/16W
RESISTOR			R67P	401 105 0504	MT-GLAZE 1K JA 1/16W
R5501	401 105 0504	MT-GLAZE 1K JA 1/16W	R67Q	401 105 0603	MT-GLAZE 10K JA 1/16W
R5502	401 105 0504	MT-GLAZE 1K JA 1/16W	R670	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5503	401 105 5202	MT-GLAZE 470 JA 1/16W	R671	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R5504	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R672	401 105 4007	MT-GLAZE 330 JA 1/16W
R5505	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R673	401 230 4705	MT-GLAZE 680 JA 1W
R5506	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R674	401 105 8005	MT-GLAZE 1M JA 1/16W
R5551	401 105 0504	MT-GLAZE 1K JA 1/16W	R675	401 113 8400	MT-GLAZE 75K JA 1/16W
R5552	401 105 0504	MT-GLAZE 1K JA 1/16W	R676	401 105 0702	MT-GLAZE 100K JA 1/16W
R5553	401 105 5202	MT-GLAZE 470 JA 1/16W	R679	401 105 0603	MT-GLAZE 10K JA 1/16W
R5554	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R68A	401 217 3806	MT-GLAZE 27K FA 1/16W
R5555	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R68B	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5556	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R68C	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R63B	401 275 2902	MT-GLAZE 68K JA 1W	R68D	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R63C	401 275 2902	MT-GLAZE 68K JA 1W	R68E	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R63D	401 275 2902	MT-GLAZE 68K JA 1W	R68F	401 105 0603	MT-GLAZE 10K JA 1/16W
R63E	401 275 2902	MT-GLAZE 68K JA 1W	R68G	401 105 0504	MT-GLAZE 1K JA 1/16W
△R633	402 079 7803	FUSIBLE RES 22 JH 1/4W	R68H	401 105 2904	MT-GLAZE 22K JA 1/16W
R634	401 238 4509	MT-GLAZE 47 JA 1/3W	R68I	401 105 0504	MT-GLAZE 1K JA 1/16W
R635	401 105 0504	MT-GLAZE 1K JA 1/16W	R68K	401 105 0603	MT-GLAZE 10K JA 1/16W
R636	401 257 7406	MT-GLAZE 120 JA 1/3W	R68P	401 105 0504	MT-GLAZE 1K JA 1/16W
R637	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R68Q	401 105 0603	MT-GLAZE 10K JA 1/16W
R638	401 105 0603	MT-GLAZE 10K JA 1/16W	R680	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R643	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R681	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R645	401 105 0603	MT-GLAZE 10K JA 1/16W	R682	401 105 4007	MT-GLAZE 330 JA 1/16W
R65A	401 276 4707	MT-GLAZE 0.000 ZA 1/3W	R683	401 230 4705	MT-GLAZE 680 JA 1W
R65B	401 105 4007	MT-GLAZE 330 JA 1/16W	R684	401 105 8005	MT-GLAZE 1M JA 1/16W
R65C	401 230 4705	MT-GLAZE 680 JA 1W	R685	401 113 8400	MT-GLAZE 75K JA 1/16W
R65E	401 113 8400	MT-GLAZE 75K JA 1/16W	R686	401 105 0702	MT-GLAZE 100K JA 1/16W
R65G	401 105 0702	MT-GLAZE 100K JA 1/16W	R689	401 105 0603	MT-GLAZE 10K JA 1/16W
R65H	401 105 4700	MT-GLAZE 39K JA 1/16W	R69A	401 105 0603	MT-GLAZE 10K JA 1/16W
R65J	401 105 2904	MT-GLAZE 22K JA 1/16W	R69B	401 105 0603	MT-GLAZE 10K JA 1/16W
R65K	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R69C	401 105 0603	MT-GLAZE 10K JA 1/16W
R65L	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R69D	401 105 0603	MT-GLAZE 10K JA 1/16W
R65P	401 105 0603	MT-GLAZE 10K JA 1/16W	R69E	401 105 0603	MT-GLAZE 10K JA 1/16W
R65Q	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R69F	401 105 0603	MT-GLAZE 10K JA 1/16W
R65V	401 105 0603	MT-GLAZE 10K JA 1/16W	R69G	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R65W	401 105 0603	MT-GLAZE 10K JA 1/16W	R69H	401 105 0504	MT-GLAZE 1K JA 1/16W
R65X	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R69R	401 258 7504	MT-GLAZE 12 JA 1/3W
R65Y	401 105 8005	MT-GLAZE 1M JA 1/16W	R69Z	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R651	401 105 0504	MT-GLAZE 1K JA 1/16W	R691	401 105 2904	MT-GLAZE 22K JA 1/16W
R652	401 105 0306	MT-GLAZE 10 JA 1/16W	R692	401 105 0702	MT-GLAZE 100K JA 1/16W
R653	401 186 0202	MT-GLAZE 10K DA 1/16W	R695	401 225 4604	MT-GLAZE 1.2 JA 1W
R654	401 185 9305	MT-GLAZE 560 DA 1/16W	TRANSFORMER		
R655	401 185 9503	MT-GLAZE 6.8K DA 1/16W	△T651	645 030 7126	TRANS, POWER, PULSE
R656	401 105 3208	MT-GLAZE 270 JA 1/16W	COIL		
R657	401 105 0504	MT-GLAZE 1K JA 1/16W	L65A	645 007 7975	INDUCTOR, 100U K
R658	401 105 0504	MT-GLAZE 1K JA 1/16W	L661	645 048 5688	INDUCTOR, 47U K
R659	401 105 0504	MT-GLAZE 1K JA 1/16W	L671	645 048 5381	INDUCTOR, 100U K
R66A	401 105 0603	MT-GLAZE 10K JA 1/16W	L681	645 048 5381	INDUCTOR, 100U K
R66B	401 105 0603	MT-GLAZE 10K JA 1/16W	L691	645 048 5664	INDUCTOR, 390U K
R66C	401 105 5301	MT-GLAZE 4.7K JA 1/16W	L692	645 007 8118	INDUCTOR, 390U K
R660	401 105 5301	MT-GLAZE 4.7K JA 1/16W	L693	645 007 7975	INDUCTOR, 100U K
R661	401 105 0603	MT-GLAZE 10K JA 1/16W	L694	645 001 4512	INDUCTOR, 10U K
R662	401 230 8000	MT-GLAZE 1K JA 1/3W	L695	645 020 1776	INDUCTOR, 3.3U M
R663	401 105 5301	MT-GLAZE 4.7K JA 1/16W			
R664	401 105 0603	MT-GLAZE 10K JA 1/16W			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
DIODE			C615	403 275 6003	MT-POLYEST 1.5U J 400V
D5501	407 209 4509	ZD UDZS-TE-176.8B	C617	404 085 9802	ELECT 180U M 450V
	407 187 7806	ZENER DIODE UDZ6.8B-TE-17	C618	403 323 8706	MT-POLYEST 0.047U K 450V
D5551	407 209 4509	ZD UDZS-TE-176.8B	C62A	403 157 3304	CERAMIC 68P J 50V
	407 187 7806	ZENER DIODE UDZ6.8B-TE-17	C62B	403 157 6602	CERAMIC 470P K 50V
D631	407 190 4106	DIODE SFPL-52V	C62C	403 325 6304	CERAMIC 0.22U K 10V
D633	407 187 8209	ZENER DIODE UDZ12B-TE-17	C62D	403 164 0204	CERAMIC 0.1U Z 25V
D636	407 226 7101	DIODE SC311-06	C62E	403 164 0204	CERAMIC 0.1U Z 25V
D65A	407 201 2701	DIODE RB051L-40-TE25	C62F	403 370 9107	CERAMIC 0.068U K 50V
D65B	407 149 0807	DIODE 1SS355-TE-17	C62I	403 149 9208	CERAMIC 0.01U Z 50V
D651	407 222 9604	DIODE FMB-2306	C62J	403 169 2807	CERAMIC 330P J 50V
D651B	411 174 4808	SCR S-TPG PAN+SWW 3X8	C62K	403 323 3602	CERAMIC 0.047U K 50V
D651H	610 293 4281	HEAT SINK D-MS6A	C62M	403 164 0204	CERAMIC 0.1U Z 25V
D652	407 222 9703	DIODE FMJ-23L	RESISTOR		
D652B	411 174 4808	SCR S-TPG PAN+SWW 3X8	R61A	401 237 0007	MT-GLAZE 47K JA 1W
D653	407 190 4106	DIODE SFPL-52V	R61B	401 237 0007	MT-GLAZE 47K JA 1W
D654	407 209 1201	ZD UDZS-TE-176.2B	R61C	401 237 0007	MT-GLAZE 47K JA 1W
D661	407 149 0807	DIODE 1SS355-TE-17	R61D	401 237 0007	MT-GLAZE 47K JA 1W
D67P	407 206 6308	ZD UDZS-TE-175.1B	R61E	401 237 0007	MT-GLAZE 47K JA 1W
	407 179 1706	ZENER DIODE UDZ5.1B-TE-17	R61F	401 237 0007	MT-GLAZE 47K JA 1W
D67Q	407 149 0807	DIODE 1SS355-TE-17	R613	402 088 0307	RESISTER 0.15 KA 2W
D671	407 201 2701	DIODE RB051L-40-TE25	R614	402 088 0307	RESISTER 0.15 KA 2W
D68P	407 206 6308	ZD UDZS-TE-175.1B	R615	401 242 3901	MT-GLAZE 240K JA 1/2W
	407 179 1706	ZENER DIODE UDZ5.1B-TE-17	R616	401 242 3901	MT-GLAZE 240K JA 1/2W
D68Q	407 149 0807	DIODE 1SS355-TE-17	R617	401 259 9002	MT-GLAZE 150K FA 1/2W
D681	407 201 2701	DIODE RB051L-40-TE25	R618	401 259 9002	MT-GLAZE 150K FA 1/2W
D69A	407 004 0706	DIODE DCB015-TB	R619	401 259 9002	MT-GLAZE 150K FA 1/2W
D69B	407 004 0706	DIODE DCB015-TB	R62A	401 105 1501	MT-GLAZE 1.5K JA 1/16W
D69C	407 149 0807	DIODE 1SS355-TE-17	R62B	401 105 0603	MT-GLAZE 10K JA 1/16W
D69D	407 149 0807	DIODE 1SS355-TE-17	R62C	401 105 5509	MT-GLAZE 470K JA 1/16W
MISCELLANEOUS			R62D	401 105 3802	MT-GLAZE 30K JA 1/16W
△PC641	407 223 7302	PC TLP421F(D4-GB-TP4)	R62E	401 113 5805	MT-GLAZE 1.1K JA 1/16W
	407 223 8309	PC TLP421F(D4-GR-TP4)	R62F	401 218 4406	MT-GLAZE 1.2K FA 1/16W
△PC642	407 223 7302	PC TLP421F(D4-GB-TP4)	R62G	401 105 0405	MT-GLAZE 100 JA 1/16W
	407 223 8309	PC TLP421F(D4-GR-TP4)	R62H	401 105 4007	MT-GLAZE 330 JA 1/16W
△PC643	407 223 7302	PC TLP421F(D4-GB-TP4)	R62I	401 159 0604	MT-GLAZE 8.2 JA 1/16W
	407 223 8309	PC TLP421F(D4-GR-TP4)	R62J	401 105 2607	MT-GLAZE 22 JA 1/16W
P.F. BOARD			R62L	401 105 5301	MT-GLAZE 4.7K JA 1/16W
610 304 1636 ASSY,PWB,P.F. MA3A			R62M	401 105 4502	MT-GLAZE 390 JA 1/16W
TRANSISTOR			R62P	401 105 5400	MT-GLAZE 47K JA 1/16W
Q611	405 140 3704	TR 2SK2698	R62Q	401 105 2607	MT-GLAZE 22 JA 1/16W
Q621	405 014 4509	TR 2SC2412K T146 R	R62R	401 177 2208	MT-GLAZE 5.6M JA 1/16W
	405 014 4608	TR 2SC2412K T146 S	R620	401 259 9002	MT-GLAZE 150K FA 1/2W
	405 015 8704	TR 2SC2812-L6-TB	R623	401 105 5301	MT-GLAZE 4.7K JA 1/16W
	405 015 8902	TR 2SC2812-L7-TB	VARIABLE RESISTOR		
	405 163 1602	TR 2SC2812N-L6-TB0	VR611	645 002 3460	VR,SEMI,1K S
	405 163 1701	TR 2SC2812N-L7-TB0	TRANSFORMER		
Q622	405 134 5905	TR 2SA1037AK-T146-R	TSW611	645 027 4145	SWITCH,THERMAL
	405 147 2205	TR 2SA1037AK-S-T146		645 031 0256	THERMOSTATS
	405 002 0308	TR 2SA1037K T146 R	COIL		
	405 002 0407	TR 2SA1037K T146 S	L611	645 048 4742	INDUCTOR, 850U
	405 002 6706	TR 2SA1179-M6-TB	DIODE		
	405 002 6904	TR 2SA1179-M7-TB	DB611	407 202 7705	DIODE D10XB60
	405 163 1503	TR 2SA1179N-M6-TB	D613	407 149 6304	DIODE SFPB-54V
	405 163 2708	TR 2SA1179N-M7-TB	D614	407 191 3900	DIODE FML-G16S
INTEGRATED CIRCUIT			D614B	411 025 5206	SCR S-TPG BIN 3X10
IC611	409 523 1400	IC FA5502M	D616	407 149 0807	DIODE 1SS355-TE-17
CAPACITOR			D617	407 149 0807	DIODE 1SS355-TE-17
C611	403 222 1303	CERAMIC 1000P K 1K	D618	407 149 0807	DIODE 1SS355-TE-17
C612	403 222 1303	CERAMIC 1000P K 1K	D619	407 149 0807	DIODE 1SS355-TE-17
			MISCELLANEOUS		
			FB611	610 229 3531	CORE
			FB612	610 229 3531	CORE
			FB613	610 229 3531	CORE

Electrical Parts List

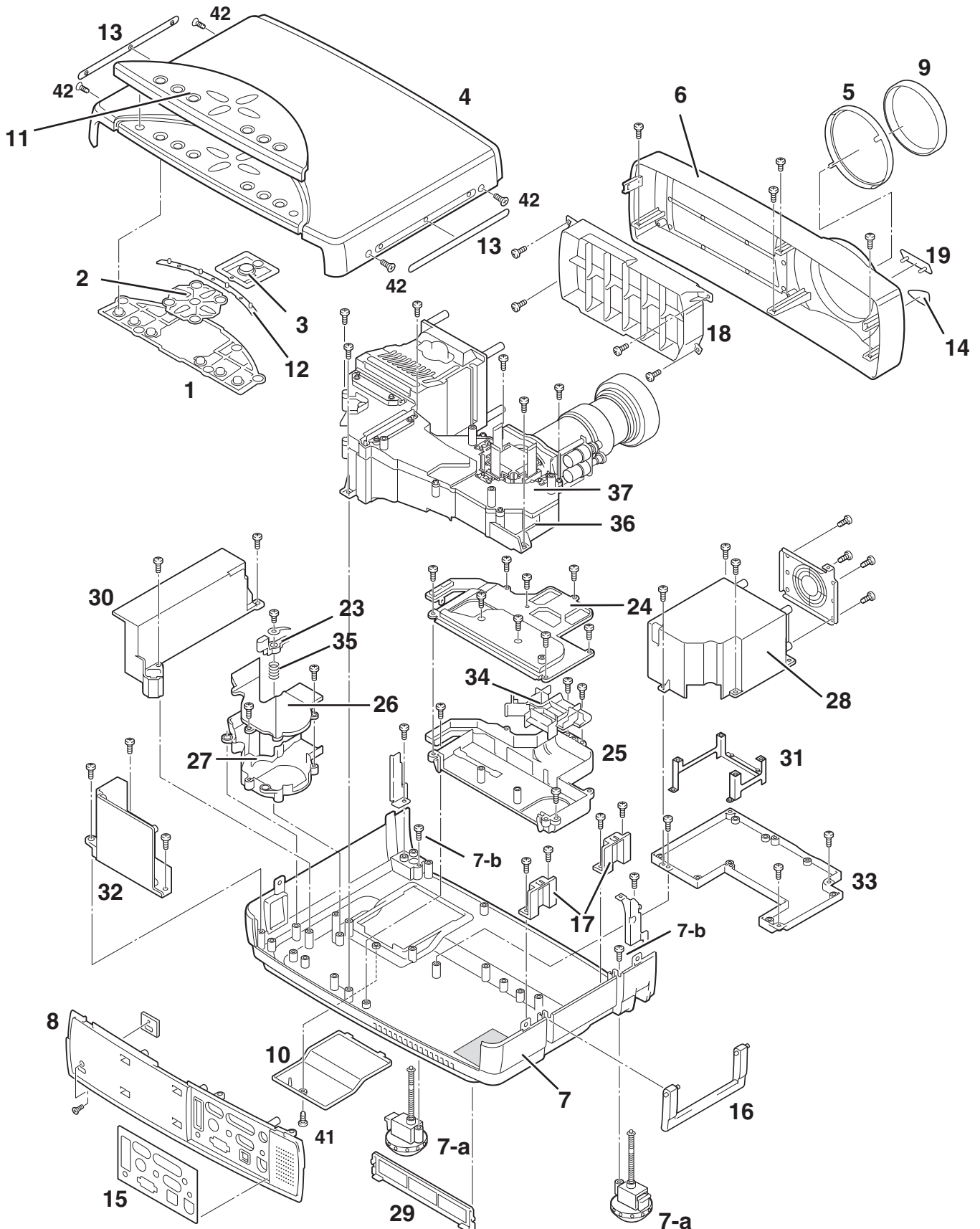
Key No.	Part No.	Description	Key No.	Part No.	Description
PTH611	408 037 4600	THERMISTOR NTH11D8R0LA	(Spanish)	610 303 2139	OWNER'S MANUAL-MB3A-E
LINE FILTER BOARD			△AC CORD		
610 304 1643 ASSY,PWB,LINE FILTER MA3A			(US)	645 054 1162	CORD, POWER-3.0MK
			(EU)	645 054 1155	CORD, POWER-3.0MK
			(UK)	645 054 1148	CORD, POWER-3.138MK
CAPACITOR					
△C601	404 081 4702	MT-POLYEST 0.22U M 275V			
△C602	404 081 4702	MT-POLYEST 0.22U M 275V			
△C603	404 081 4702	MT-POLYEST 0.22U M 275V			
△C604	404 081 4702	MT-POLYEST 0.22U M 275V			
RESISTOR					
△R601	401 287 5700	MT-GLAZE 220K JA 1W			
VARIABLE RESISTOR					
△VA601	408 018 9808	VARISTOR ENC471D-14AS			
COIL					
△L601	645 050 2231	LINE FILTER			
△L602	645 025 7810	LINE FILTER			
MISCELLANEOUS					
△F601	423 022 2102	FUSE 250V 4A			
F601A	645 000 5077	HOLDER, FUSE			
F601B	645 000 5077	HOLDER, FUSE			
R/C BOARD					
610 304 1650 ASSY,PWB,R/C MA3A					
CAPACITOR					
C2801	403 304 2402	ELECT 100U M 10V			
C2802	403 283 6309	CERAMIC 1U Z 10V			
C2803	403 157 6602	CERAMIC 470P K 50V			
RESISTOR					
RC2801	645 034 5029	UNIT, REMOCON RECEIVER			
R2801	401 105 2706	MT-GLAZE 220 JA 1/16W			
R2802	401 105 2706	MT-GLAZE 220 JA 1/16W			
R2803	401 105 0405	MT-GLAZE 100 JA 1/16W			
ACCESSORIES					
	645 054 3111	CABLE, MOUSE PS/2			
	645 054 3128	CABLE, MOUSE PS/2			
	645 039 7202	CABLE, MOUSE PS/2			
	610 303 1842	PRINTED MATTER ASSY-MB3A			
	610 298 7041	CARRY BAG-MD8A			
	645 030 6624	CABLE, INTERFACE VGA			
Remote Control					
	645 055 8603	ASSY, REMOCON CXLS			
	610 302 4196	RC-BATTERY LID-CXLZ			
OWNER'S MANUAL					
(English)	610 303 2092	OWNER'S MANUAL-MB3A			
(Germany)	610 303 2108	OWNER'S MANUAL-MB3A-D			
(French)	610 303 2115	OWNER'S MANUAL-MB3A-F			
(Italian)	610 303 2122	OWNER'S MANUAL-MB3A-I			

■ Mechanical Parts List

MB3-SU4000, MB3-SU2500

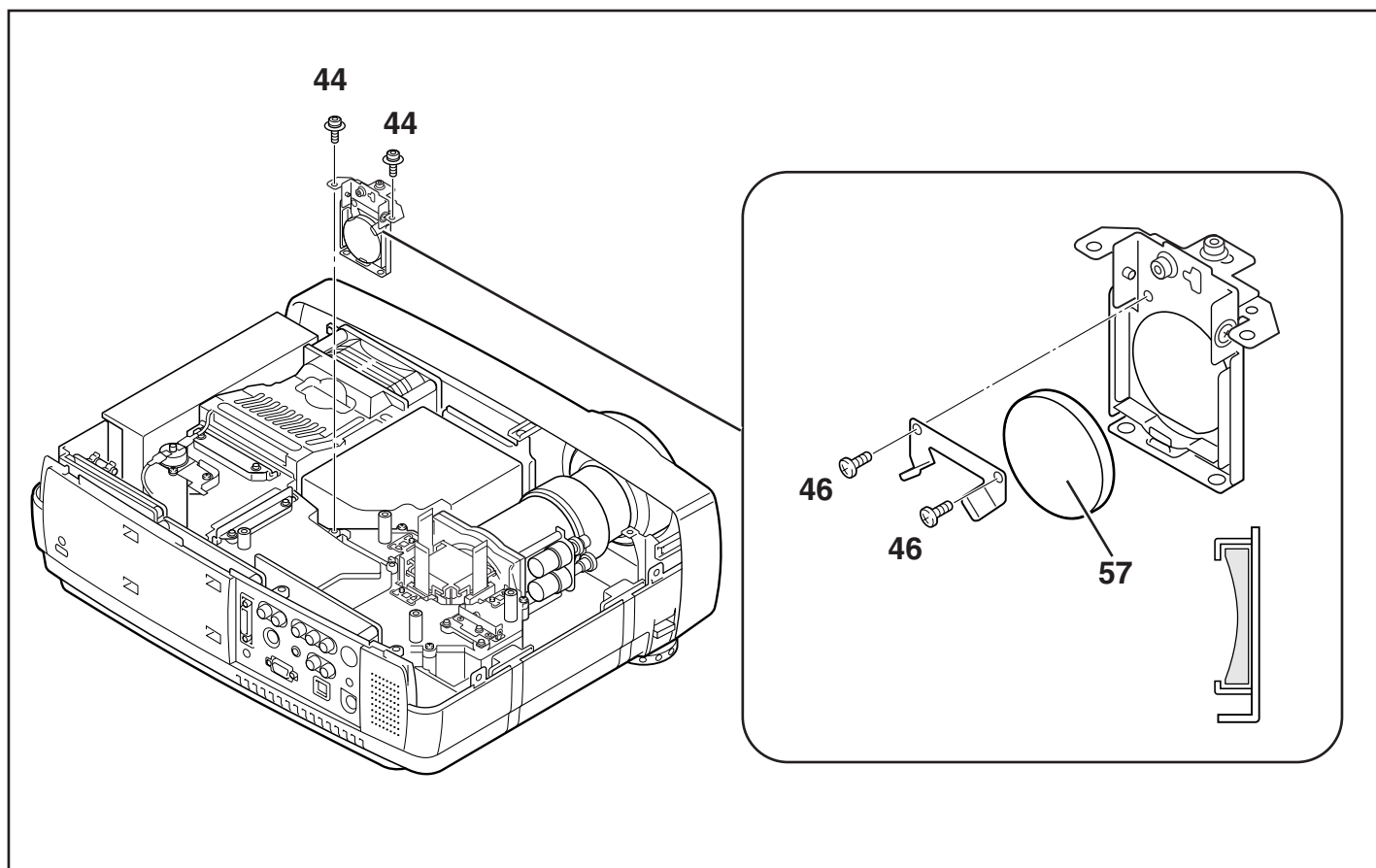
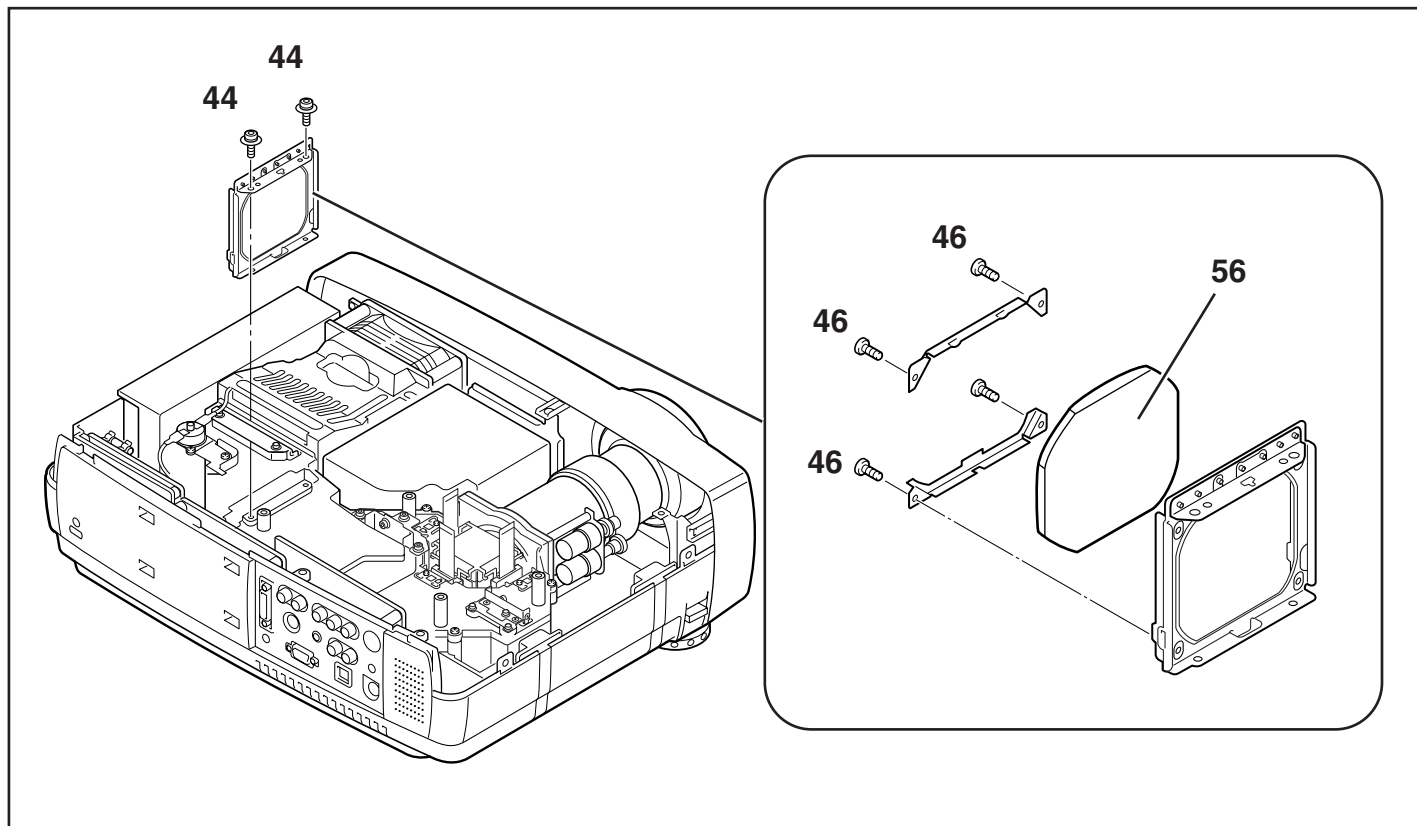
Note: Parts order must contain Chassis No., Part No., and Descriptions.

● CABINET PARTS

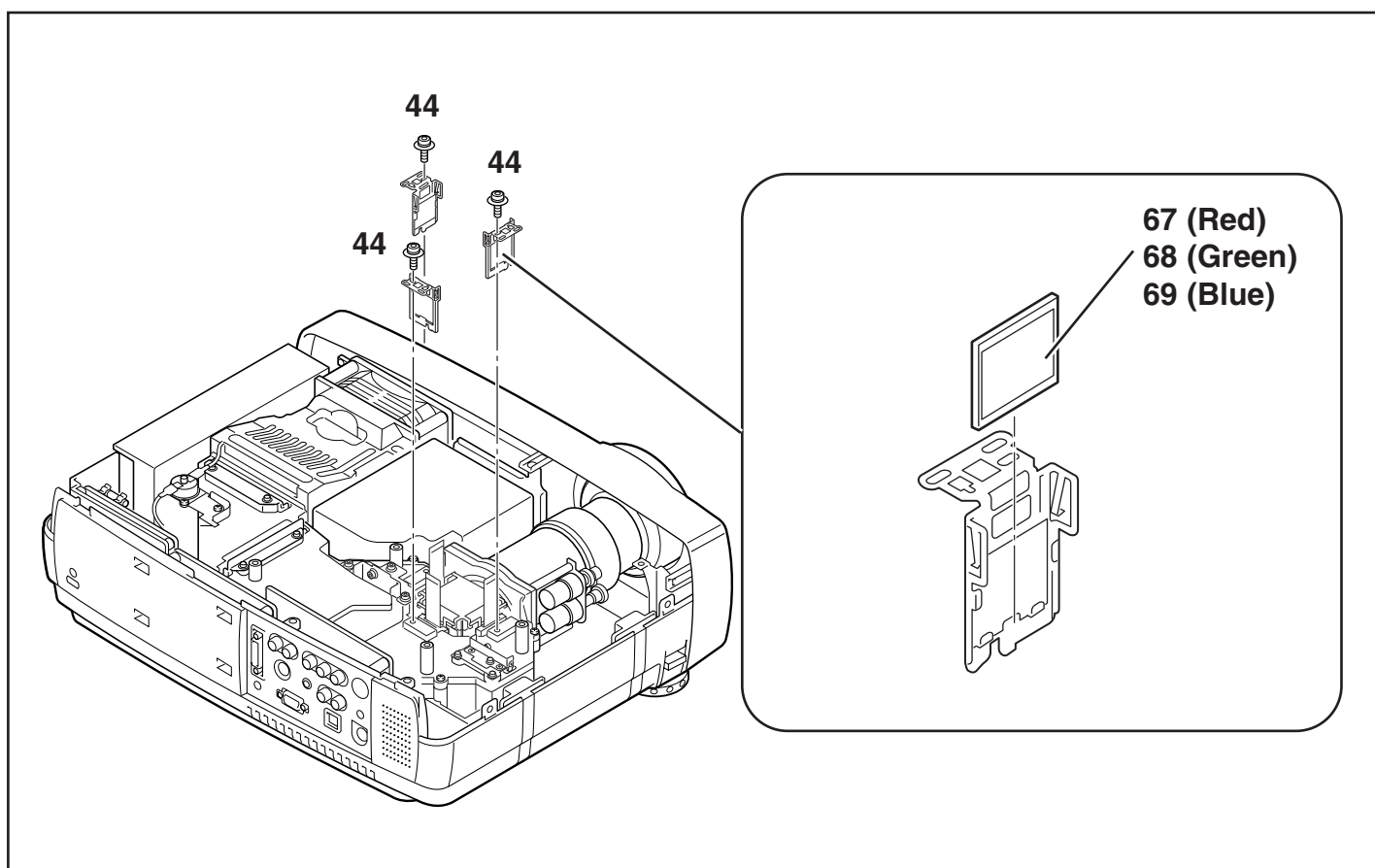
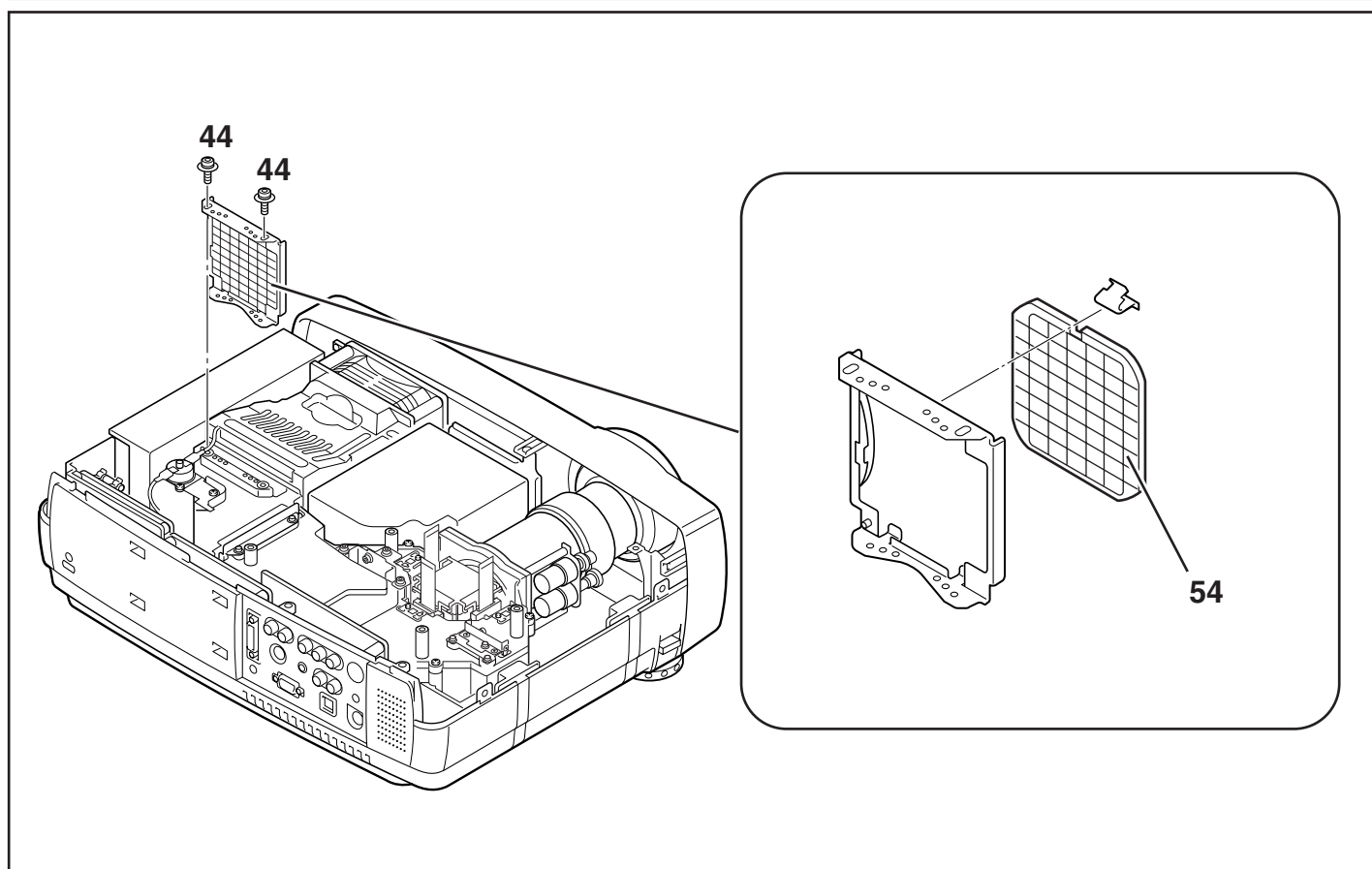


Mechanical Parts List

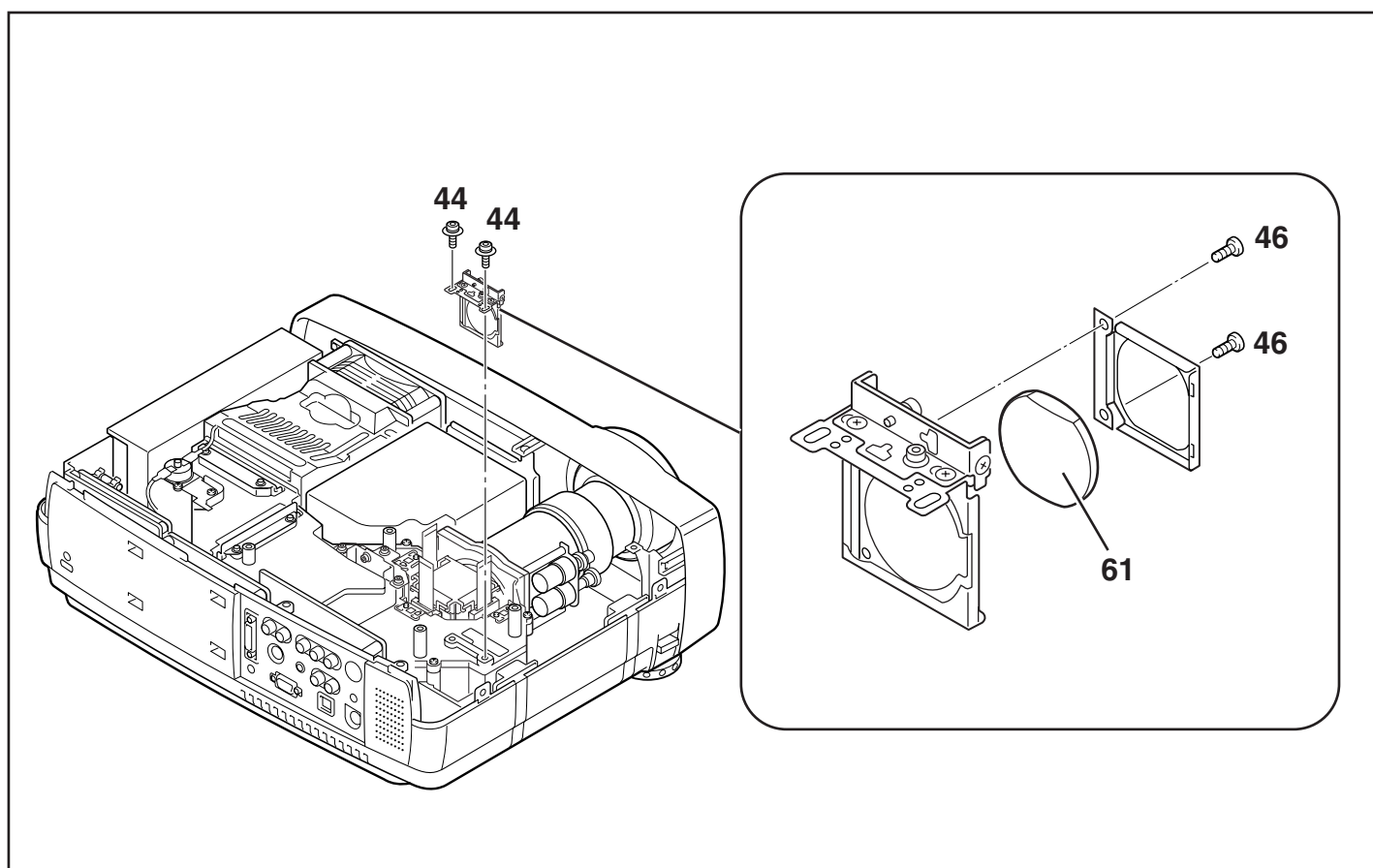
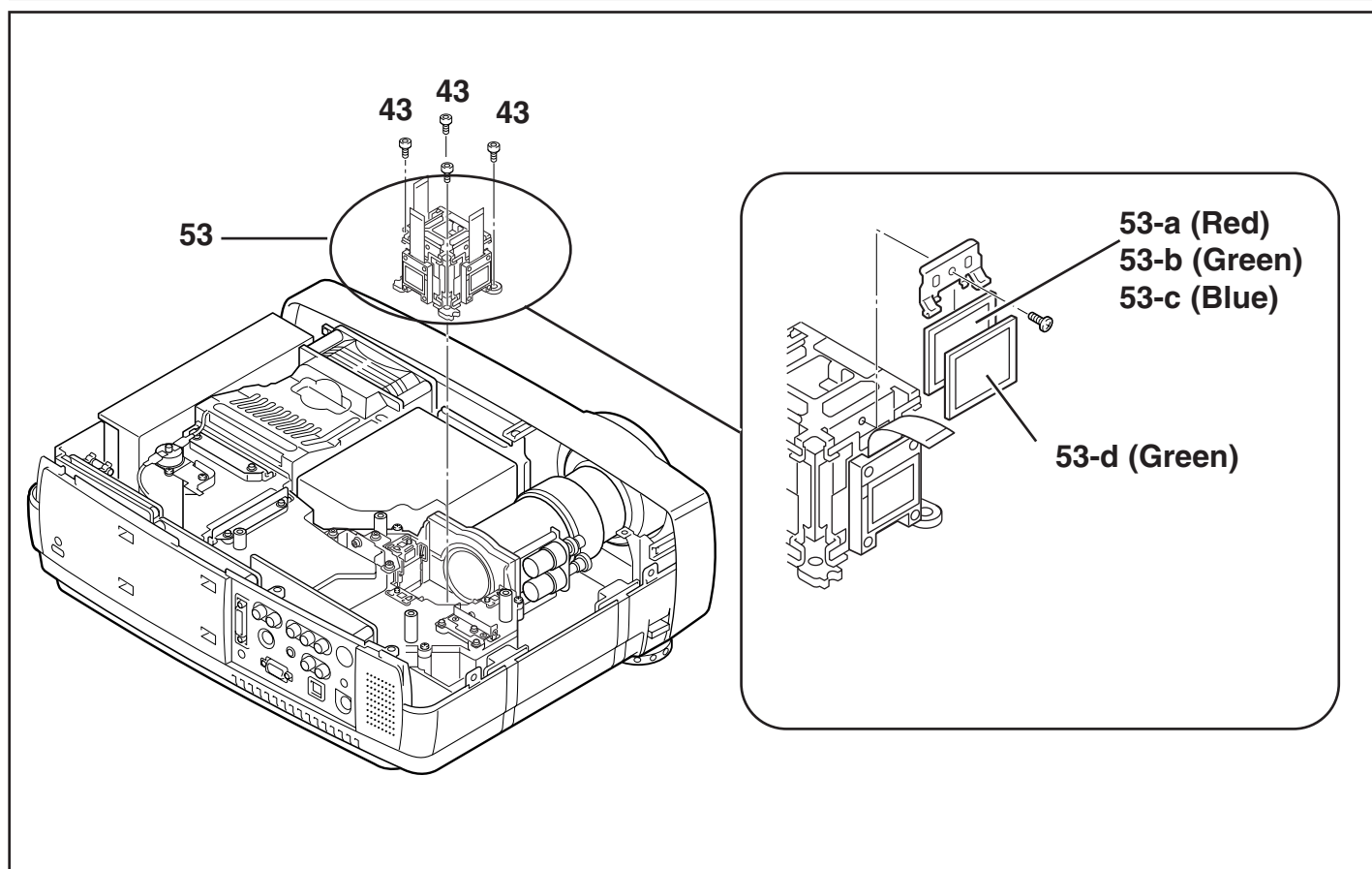
● Optical PARTS



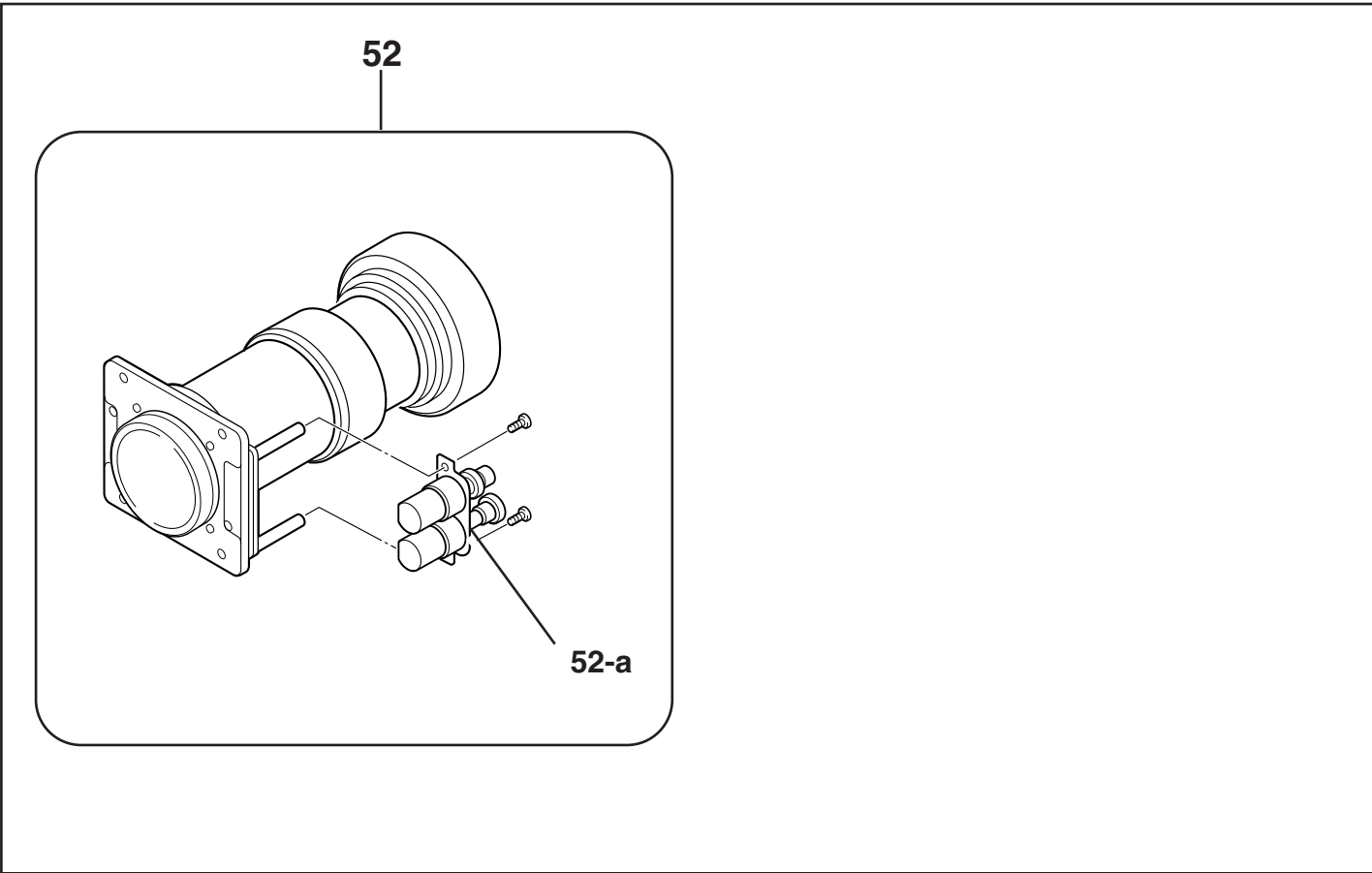
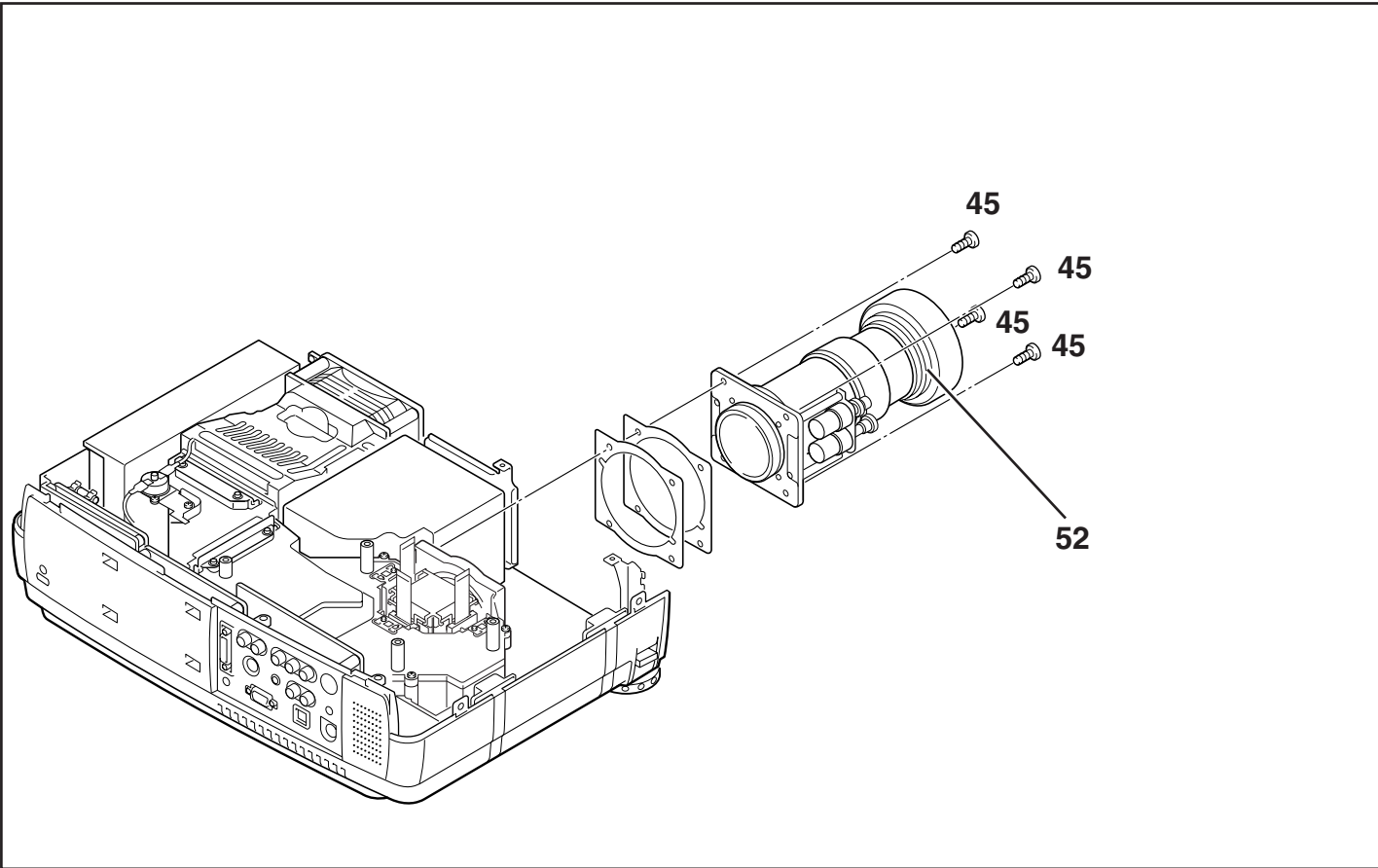
Mechanical Parts List



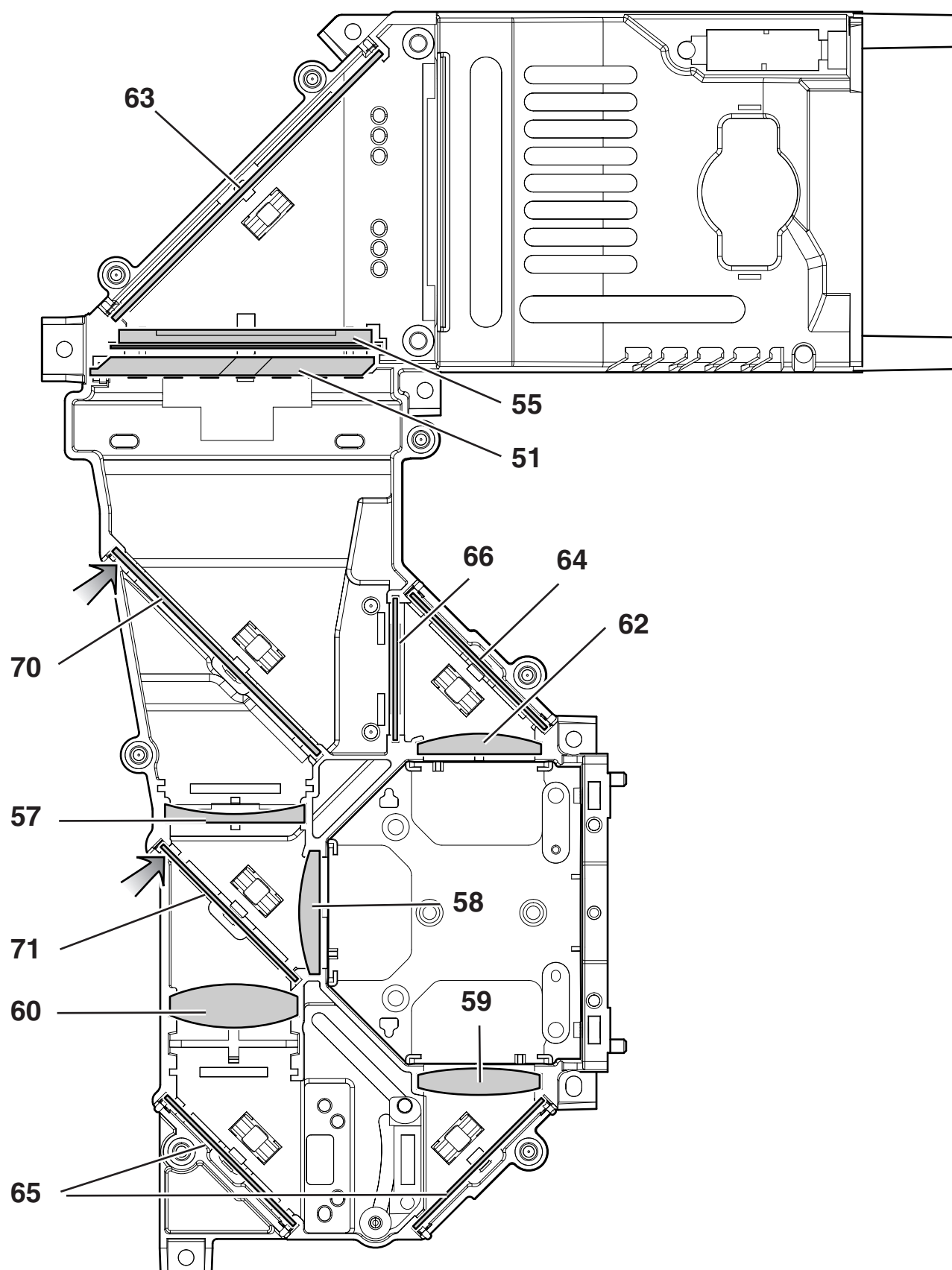
Mechanical Parts List



Mechanical Parts List



Mechanical Parts List



Mechanical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
CABINET PARTS			OPTICAL PARTS		
1	610 292 5630	BUTTON CONTROL-MS6A	51	645 046 8483	ASSY, PRISM (PBS)
2	610 292 5647	BUTTON ZOOM-MS6A	52	645 057 1466	ASSY, LENS, PROJECTION (Including Key No.52-a)
3	610 292 5654	BUTTON POWER-MS6A	52-a	645 057 1480	MOTOR, LENS
4	610 303 4027	CABINET TOP-MB3A	53	610 305 4704	ASSY, LCD PRISM-MB3A (Including Key No. 53-a, b, c and d)
5	610 297 2344	CABINET RING-MD8A	53-a	645 057 1312	POLARIZED GLASS (OUT/R)
6	610 301 3343	CABINET FRONT SERVICE-MD8 (Including Key No.5)	53-b	645 057 1329	POLARIZED GLASS (OUT/G)
7	610 295 8300	COMPL, CABINET BOTTOM-MS6A (Including Key No.7-a and b)	53-c	645 057 1336	POLARIZED GLASS (OUT/B)
7-a	610 292 5623	ASSY, STAND LEG-MS6A	53-d	645 055 2076	PREPOLARIZED GLASS (OUT/G)
7-b	411 025 6500	SCR S-TPG BIN 3X8	54	645 057 1251	LENS, INTEGRATOR (IN)
8	610 292 5692	CABINET BACK-MS6A	55	645 057 1268	LENS, INTEGRATOR (OUT)
9	610 297 2481	CAP LNS-MD8A	56	645 046 8087	LENS, CONDENSER (IN)
10	610 292 6026	COVER LMP-MS6A	57	645 046 8094	LENS, CONDENSER (OUT)
11	610 303 3556	COVER CABI TOP-MA3A	58	645 046 8100	LENS, CONDENSER
12	610 292 7306	DEC LED-MS6A	59	645 046 8117	LENS, CONDENSER (R)
13	610 294 1548	DEC SASH-MS6A	60	645 046 8124	LENS, RELAY (IN)
14	610 304 1148	DEC AV SHEET-MA3A	61	645 046 8131	LENS, RELAY (OUT)
15	610 294 9308	DEC SHEET RC-MW6A	62	645 050 2040	LENS, CONDENSER (B)
16	610 292 5739	HANDLE-MS6A	63	645 047 1797	MIRROR (W-COLD)
17	610 292 5753	HOLDER HANDLE-MS6A	64	645 047 1803	MIRROR (B)
18	610 303 3877	MOUNTING DUCT FR-MA3A	65	645 047 1810	MIRROR (R)
19	645 047 8031	BADGE, SANYO*26.2X5.7L26.0	66	645 059 4908	OPTICAL FILTER (UV CUT)
	610 289 1812	BADGE V MARK S-MK6A	67	645 057 1282	POLARIZED GLASS (IN/R) DM
CHASSIS PARTS			68	645 057 1299	POLARIZED GLASS (IN/G)
23	610 294 1760	ARM SW-MS6A	69	645 057 1305	POLARIZED GLASS (IN/B)
24	610 292 6040	COVER DUCT TOP-MS6A	70	645 047 1933	DICHROIC MIRROR (B)
25	610 292 6064	COVER DUCT BTM-MS6A	71	645 057 1350	DICHROIC MIRROR (G)
26	610 292 6088	COVER DUCT LMP PWB TOP-MS			
27	610 292 6095	COVER DUCT LMP PWB BTM-MS			
28	610 292 6101	COVER MAIN POW-MS6A			
29	610 292 6125	FILTER BASE A-MS6A			
30	610 298 4088	HOLDER LMP PWB-MD8A			
31	610 294 5249	HOLDER POWER PCB A-MS6A			
32	610 292 5760	MOUNTING SW-MS6A			
33	610 292 6408	MOUNTING MAIN POWER-MS6A			
34	610 297 3150	MOUNTING DUCT-MD8A			
35	610 294 4501	SPRING INT LOCK-MS6A			
36	610 304 7591	OPTICAL BASE BTM-A MS6A			
37	610 304 7607	OPTICAL BASE TOP-A MS6A			
SCREWS-CABINET-					
41	411 001 8801	SCR BIN 3X6			
42	411 052 9109	SCR OVL 3X6			
43	412 058 5409	SPECIAL SCREW			
44	411 174 9308	BOLT HEX-SCT+SW+W 2.5X6			
45	411 098 3604	SCR S-TPG FLT 3X10			
46	411 037 4105	SCR PAN+W 3X10			
47	411 002 4901	SCR PAN 2X4			



Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
PLC-SU40	MB3-SU4000
PLC-SU25	MB3-SU2500

These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. MB3-SU4000, MB3-SU2500 models PLC-SU40, PLC-SU25.

File with the service manual No. SM5110451.

Note:

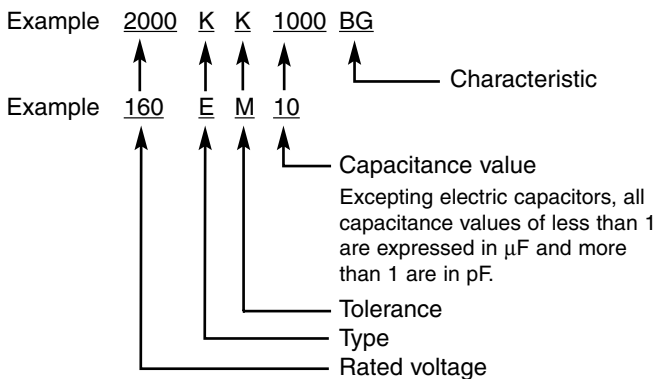
All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

MB3-SU4000, MB3-SU2500

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading



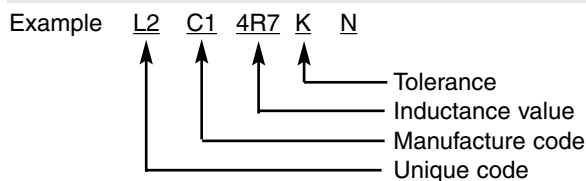
Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypropylar
B	Ceramic (semiconductor)
G	Metalized polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

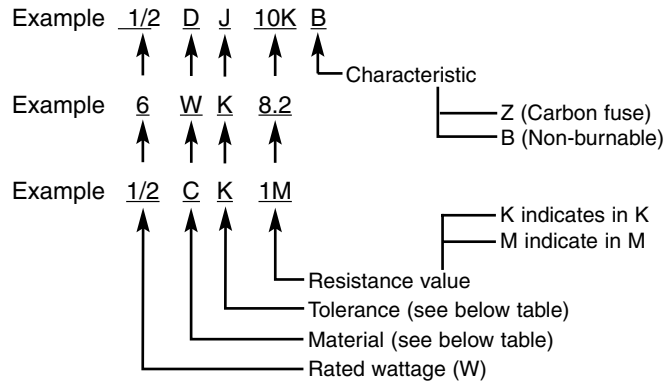
Mark	Tolerance
A	not specified
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
E	± 2.5
H	± 3
J	± 5
K	± 10
M	± 20
N	± 30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	± 0.25	G	± 2
D	± 0.5	J	± 5
S	± 0.3	K	± 10
A	± 0.2	L	± 15
		M	± 20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire winding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	± 0.05
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
J	± 5
K	± 10
M	± 20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A, 1S2473, 1N4148
AA	1S2076A, 1S2473, 1SS133, 1N4148

Transistor

(1) NPN type

Mark	Type number
--	2SC536 2SC945A 2SC1815 2SC1740S
AD	NF, NG PA, QA Y, GR Q, R, S
AE	NF, NG PA, QA, RA O, Y, GR Q, R, S

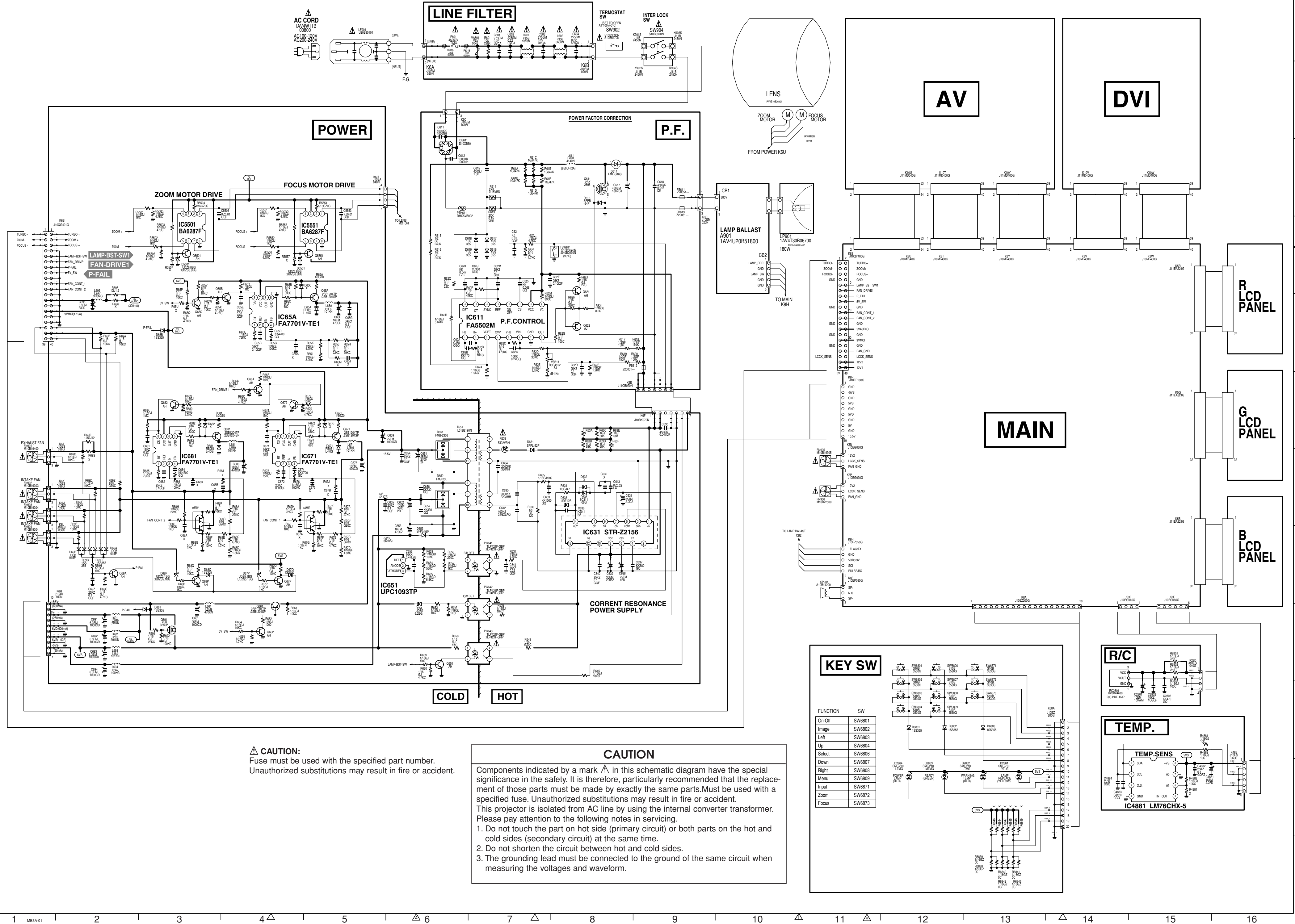
(2) PNP type

Mark	Type number
--	2SA608 2SA564A 2SA1015 2SA933S
AB	NF R Y, GR R
AC	NF Q, R O, Y, GR Q, R

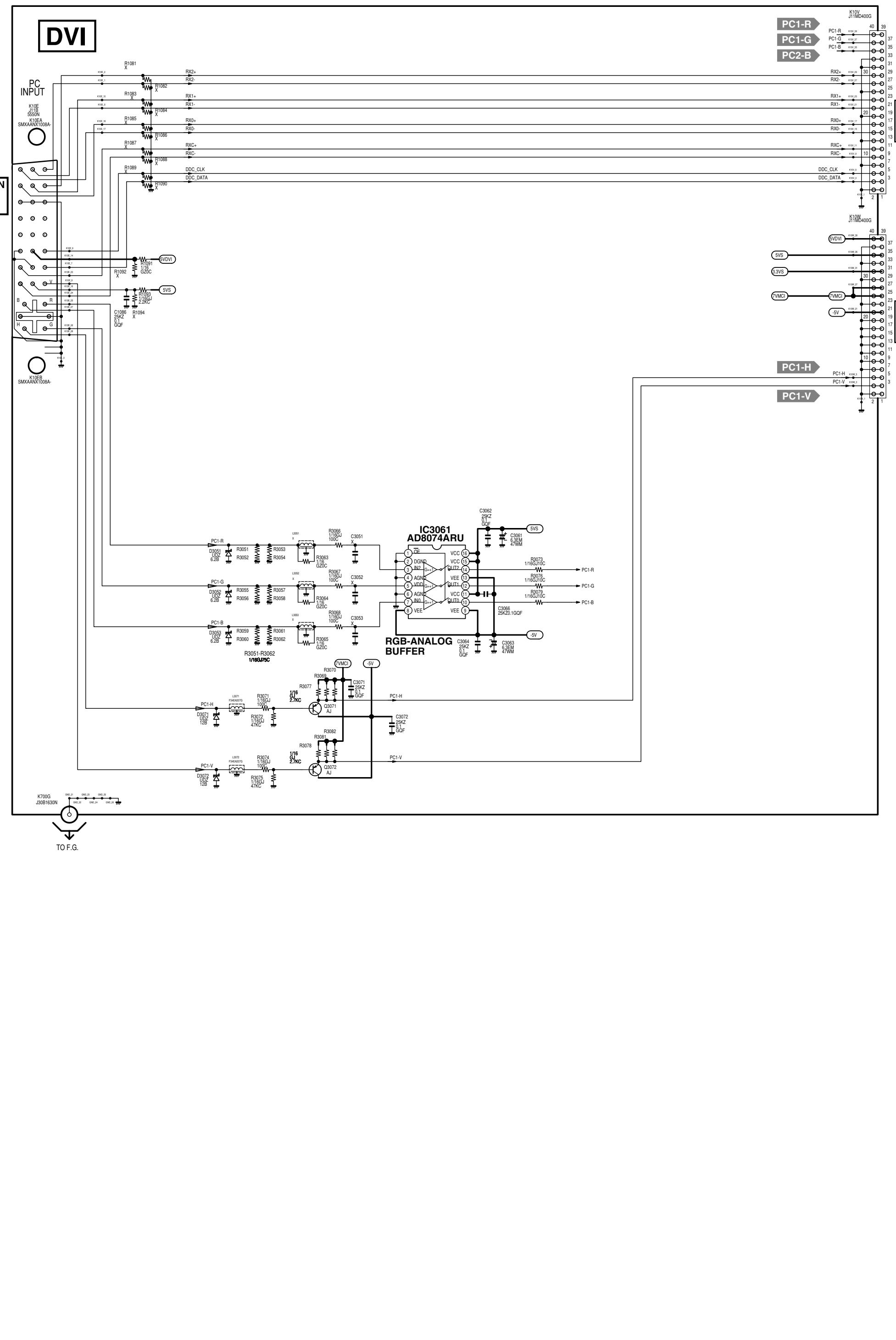
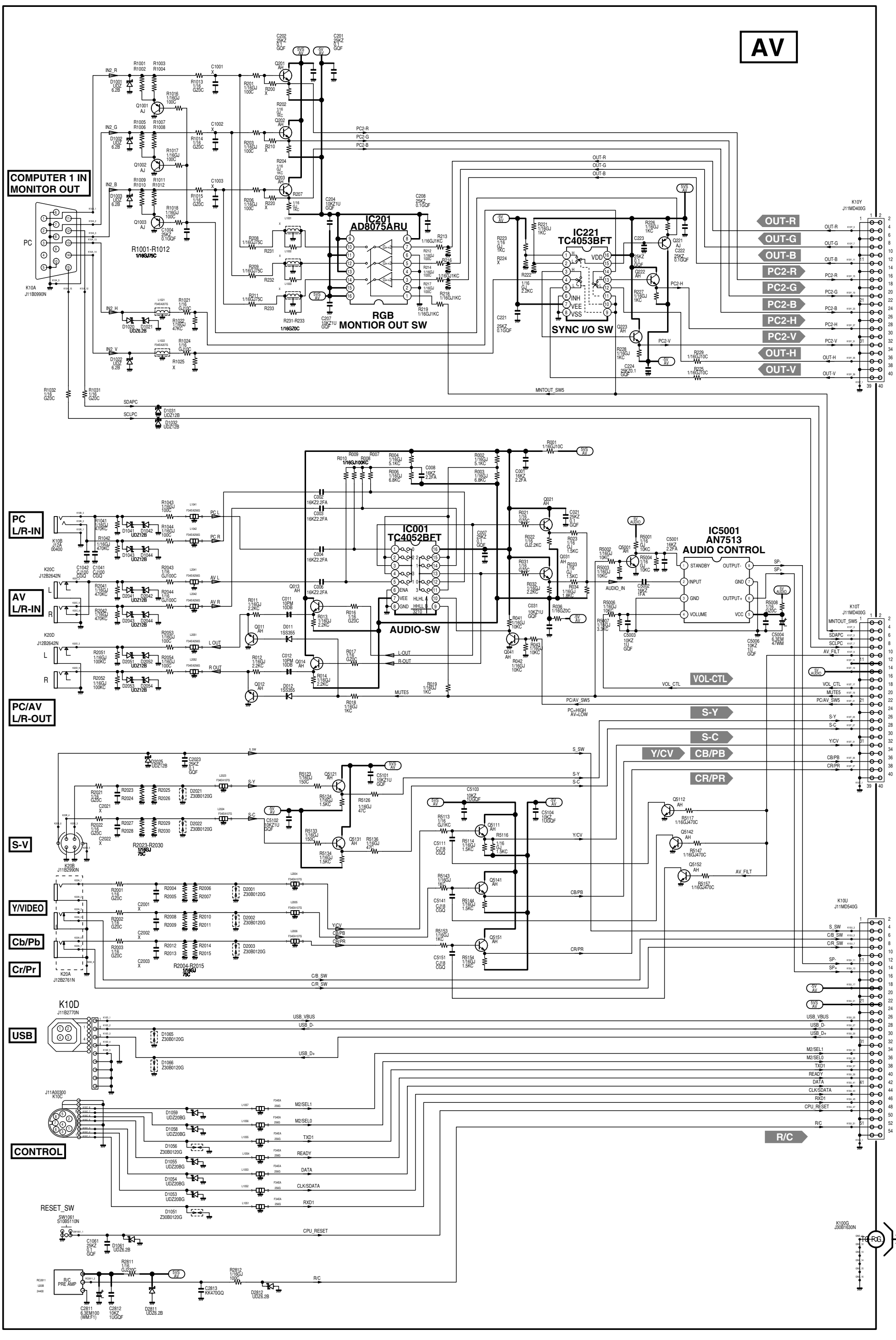
(3) Chip type

Mark	Type number
--	2SA1179/N 2SA1037K 2SA1037AK 2SC2812/N 2SC2412K
AJ	M6, M7 R, S R, S
AH	L6, L7 R, S

Schematic Diagrams



A
B
C
D
E
F
G
H
I
J
K
L

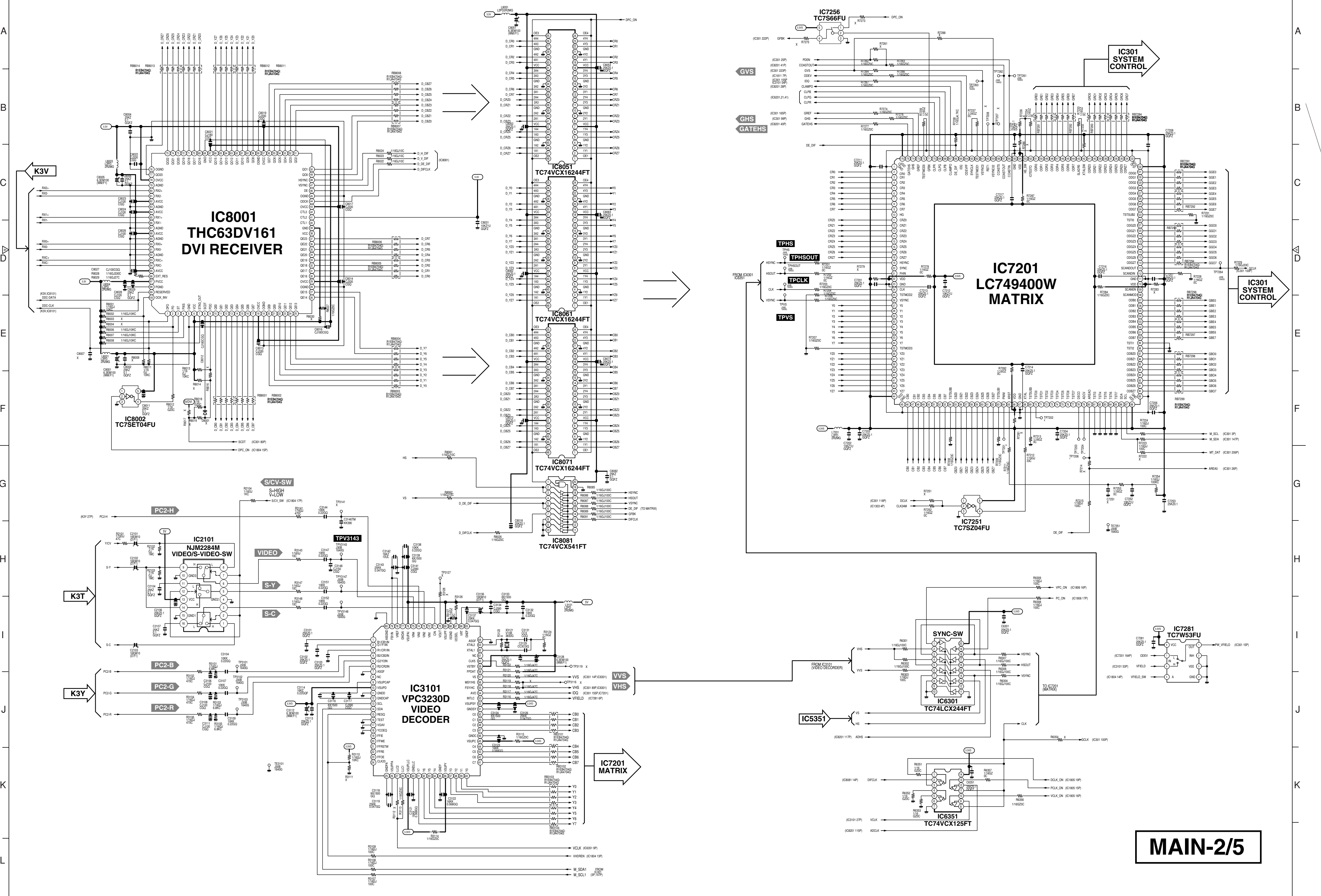


A
B
C
D
E
F
G
H
I
J
K
L



A
B
C
D
E
F
G
H
I
J
K
L

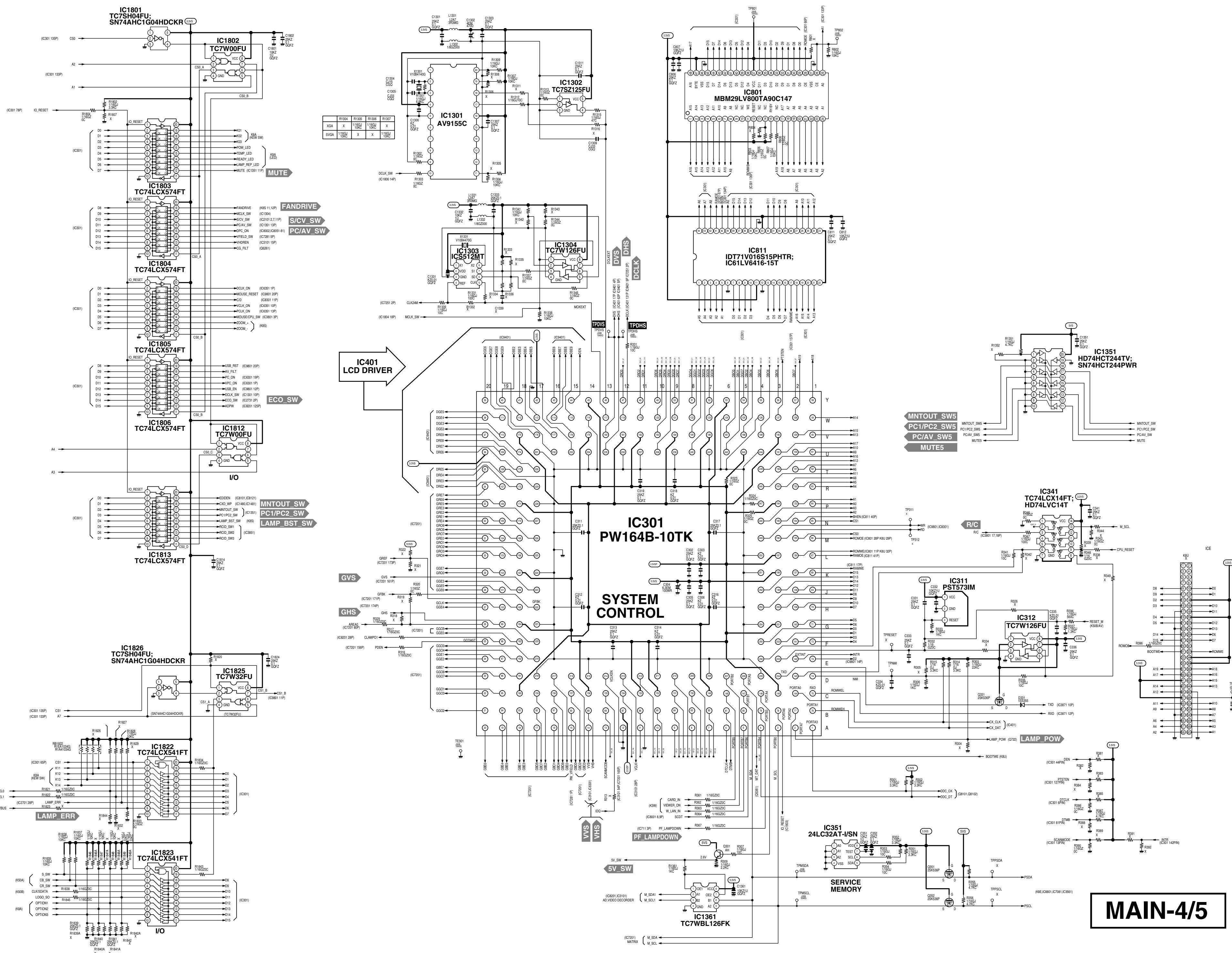
A
B
C
D
E
F
G
H
I
J
K
L



MAIN-2/5

A
B
C
D
E
F
G
H
I
J
K
L

A
B
C
D
E
F
G
H
I
J
K
L



MAIN-4/5

A

B

C

D

E

F

G

H

I

J

K

L

A

B

C

D

E

F

G

H

I

J

K

L

IC301
SYSTEM CONTROLLCD DRIVER
TIMMING
CONTROLLERDHS
DVS
DCLKIC402
BD4825GIC1481
24LC256T-I/SNIC3561
M62392FP
D/A

VOL_CTL

POWER_FAIL

5V_SW

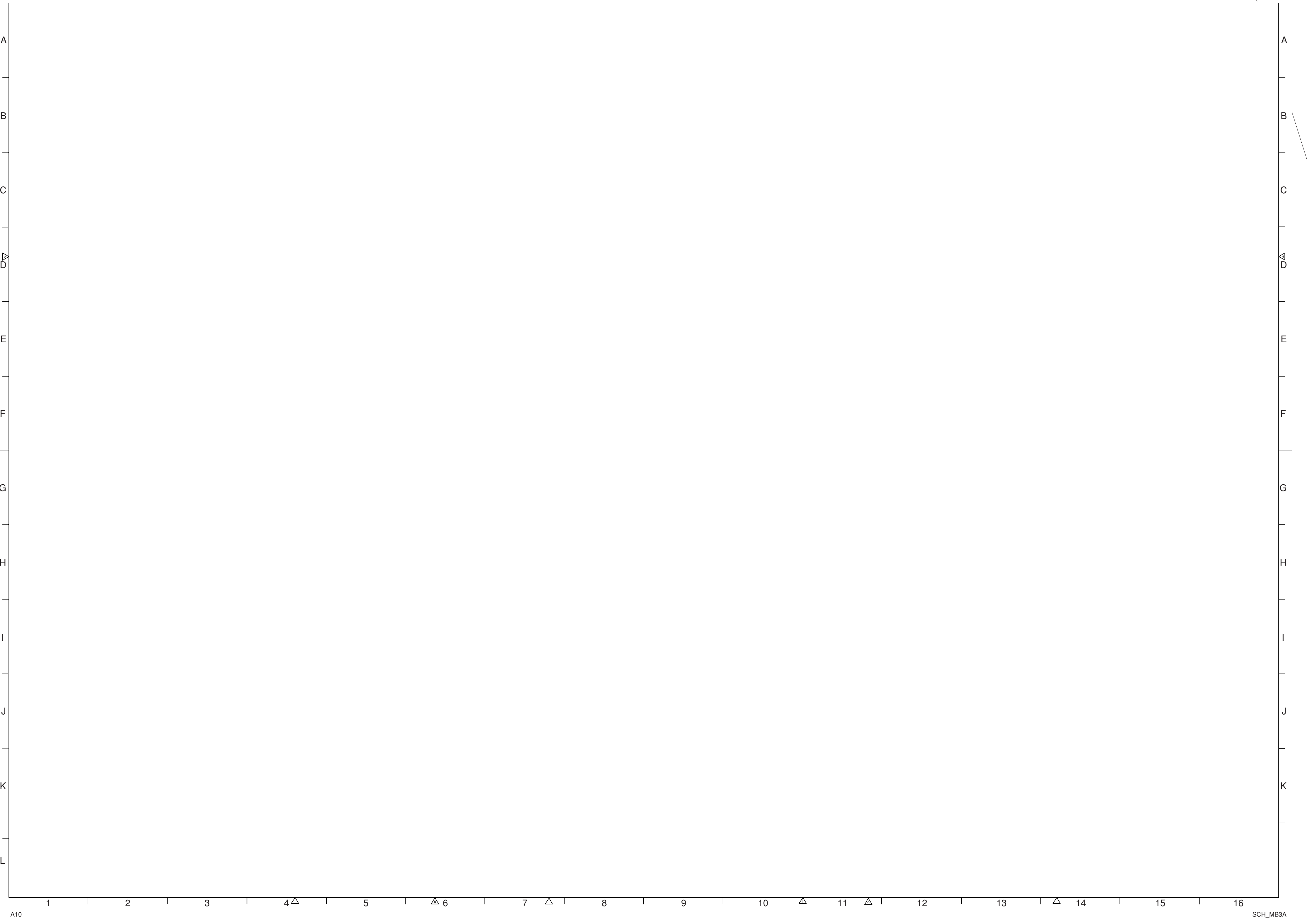
IC501
CXA7000R
B-D/A & S/HIC531
CXA7000R
G-D/A & S/HIC561
CXA7000R
R-D/A & S/HIC3501
LT1206CS8-T2
PSIG DRIVERIC3531
LT1206CS8-T2
PSIG DRIVER

B-PANEL

G-PANEL

R-PANEL

MAIN-5/5



A

B

C

D

E

F

G

H

I

J

K

L

A10

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

SCH_MB3A

A

B

C

D

E

F

G

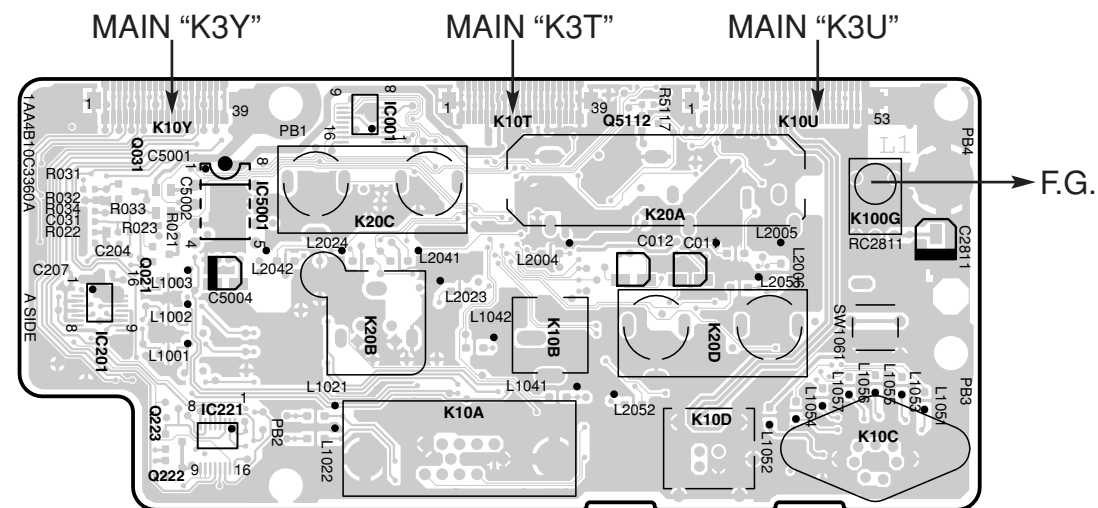
H

I

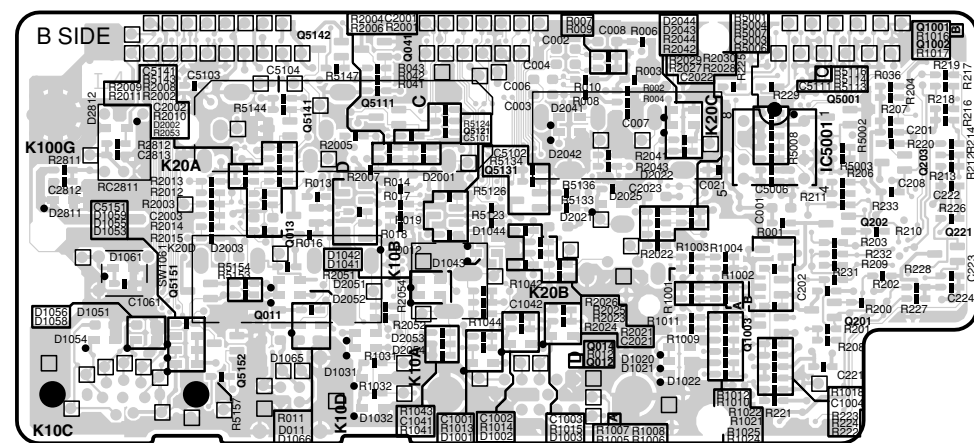
J

K

■ Printed Wiring Board Diagrams

AV (SIDE:A)

AV (SIDE:B)

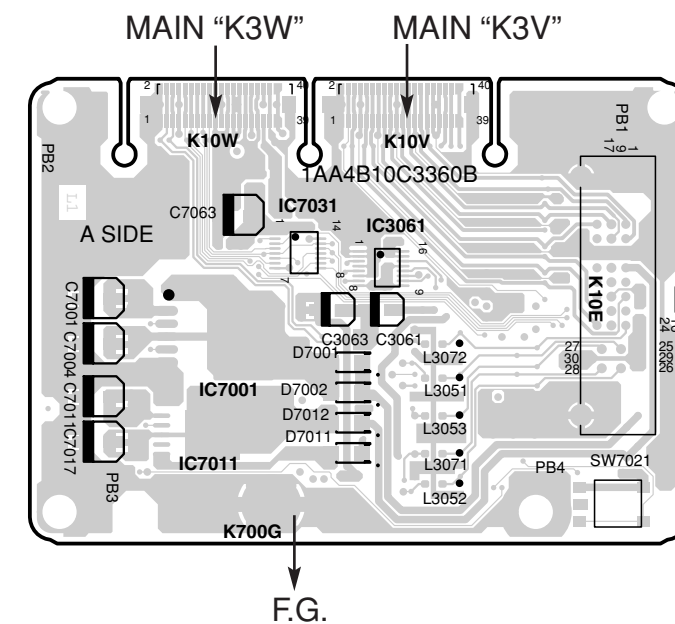


⚠ CAUTION

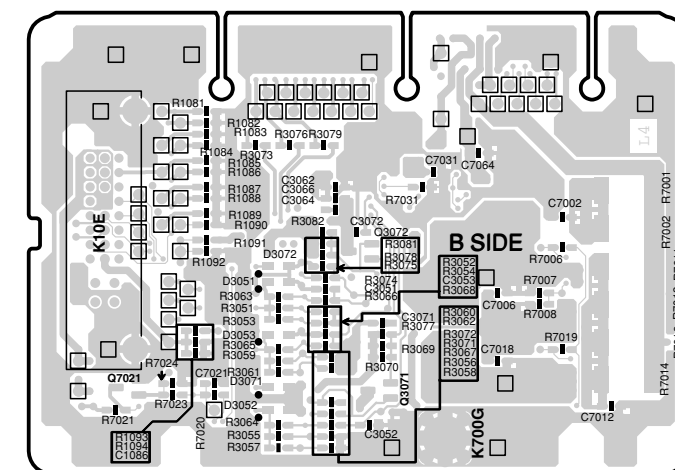
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing

1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

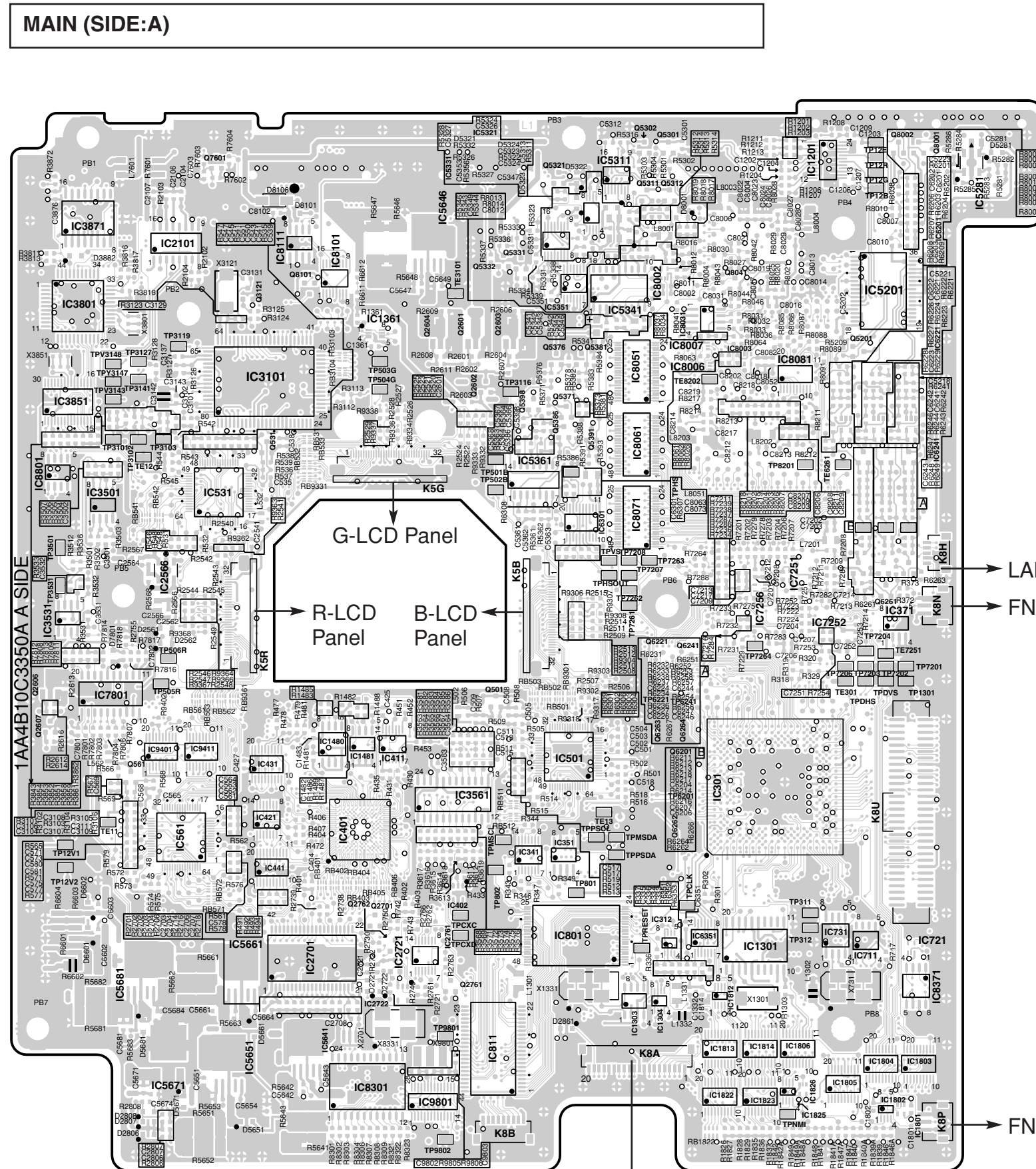
DVI (SIDE:A)



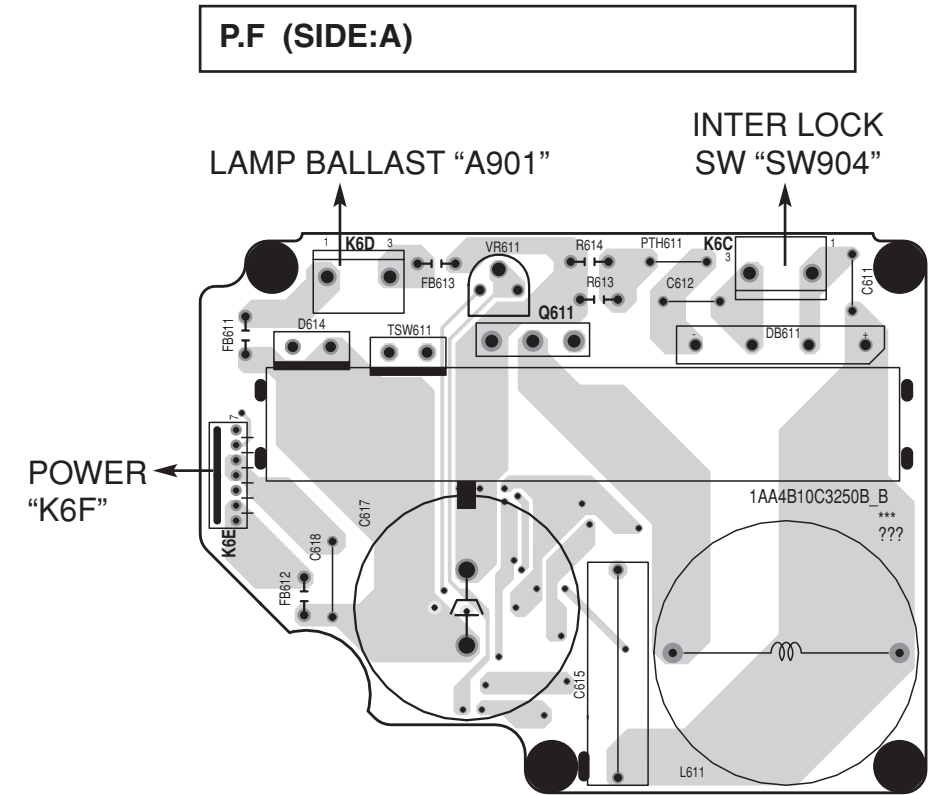
DVI (SIDE:B)



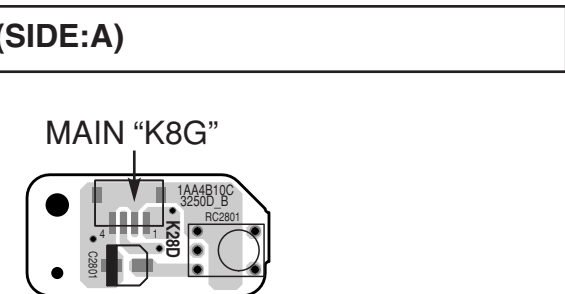
MAIN (SIDE:A)



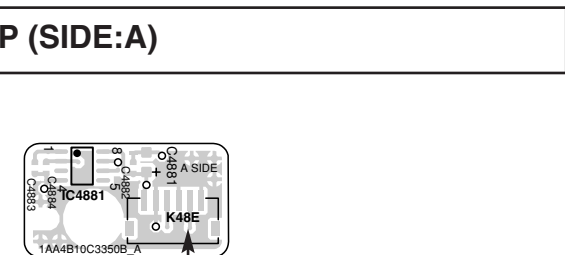
P.F (SIDE:A)



R/C (SIDE:A)

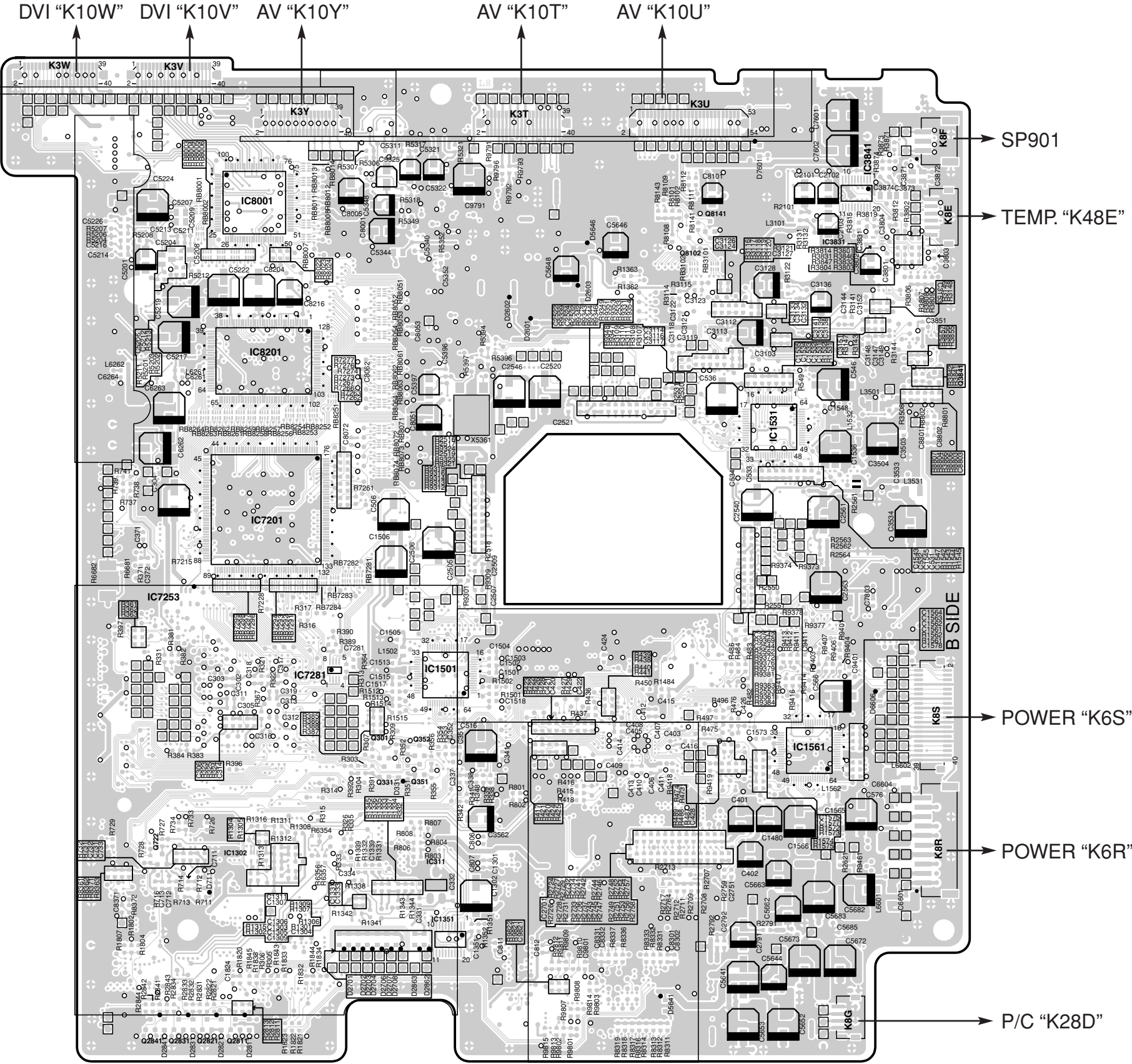


TEMP (SIDE:A)

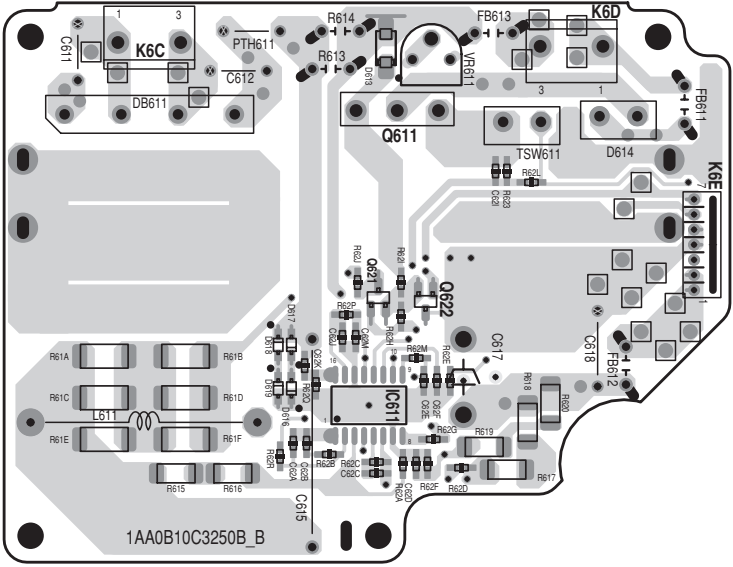


MAIN "K8E"

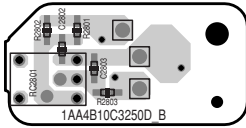
MAIN (SIDE:B)



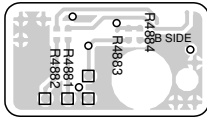
P.F (SIDE:B)



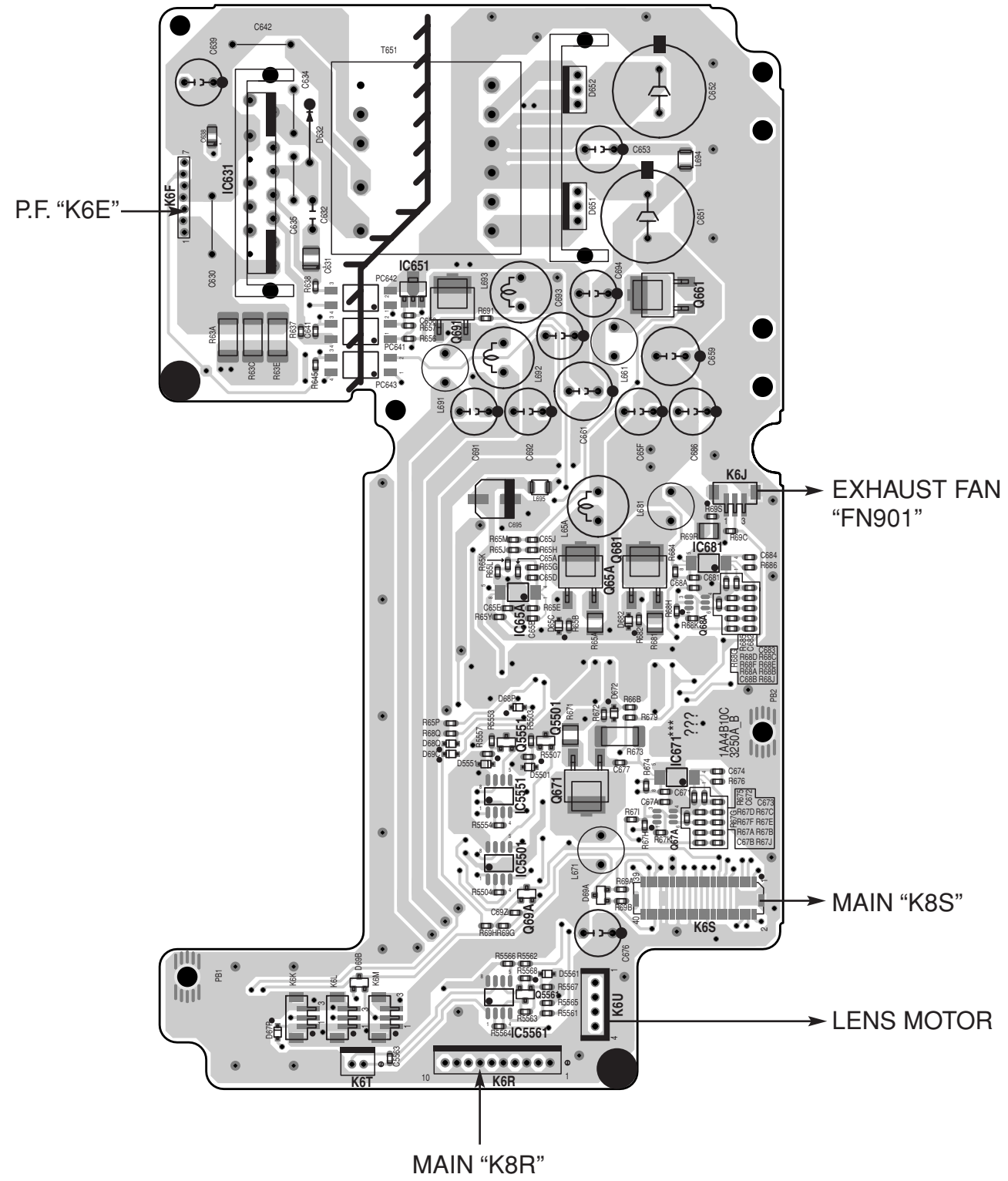
R/C (SIDE:B)



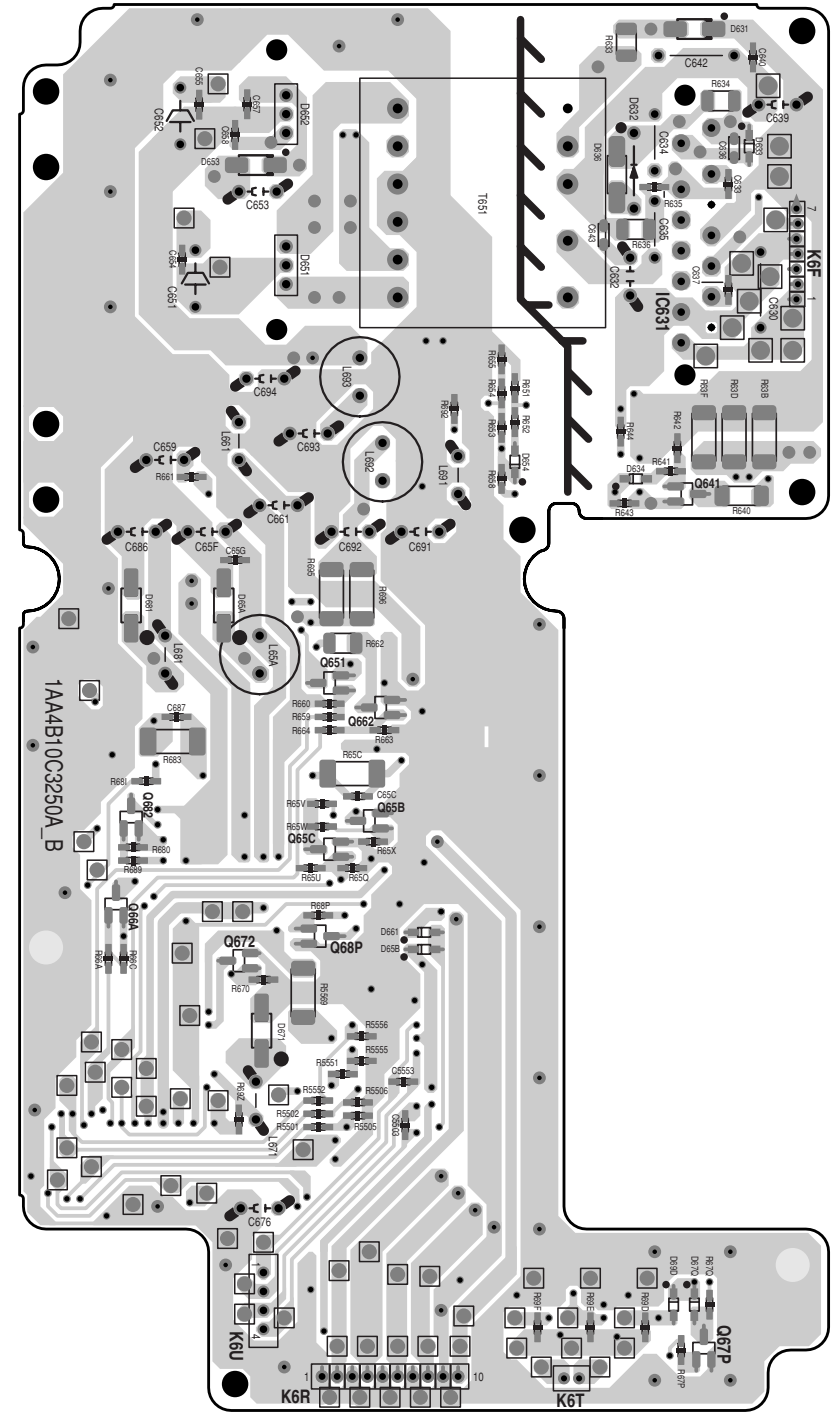
TEMP (SIDE:B)



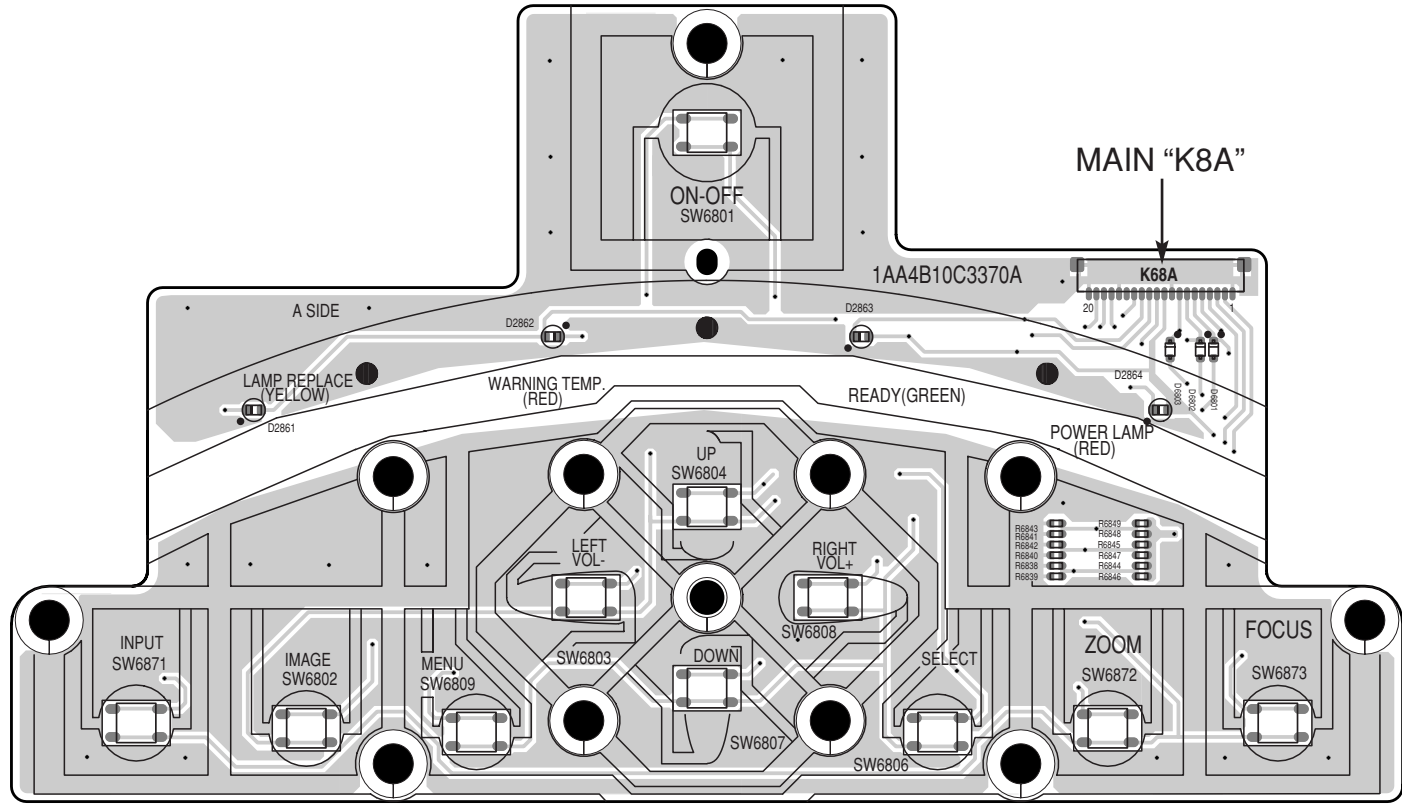
POWER (SIDE:A)



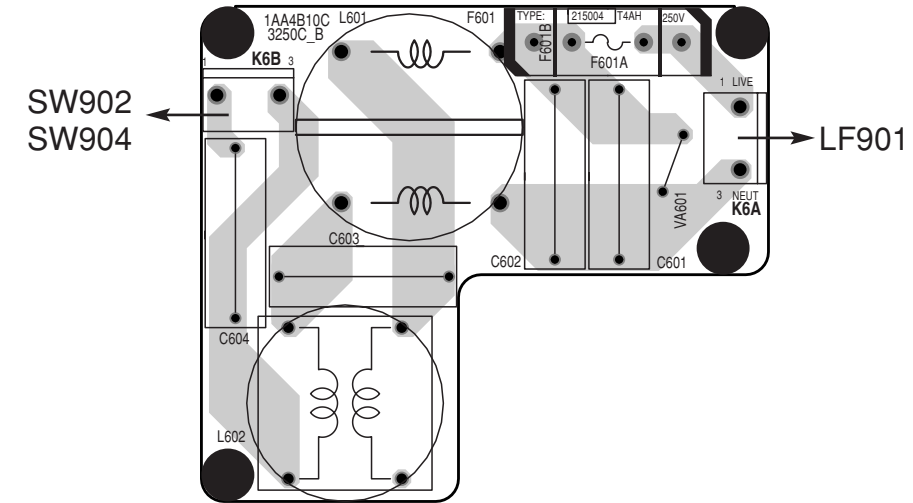
POWER (SIDE:B)



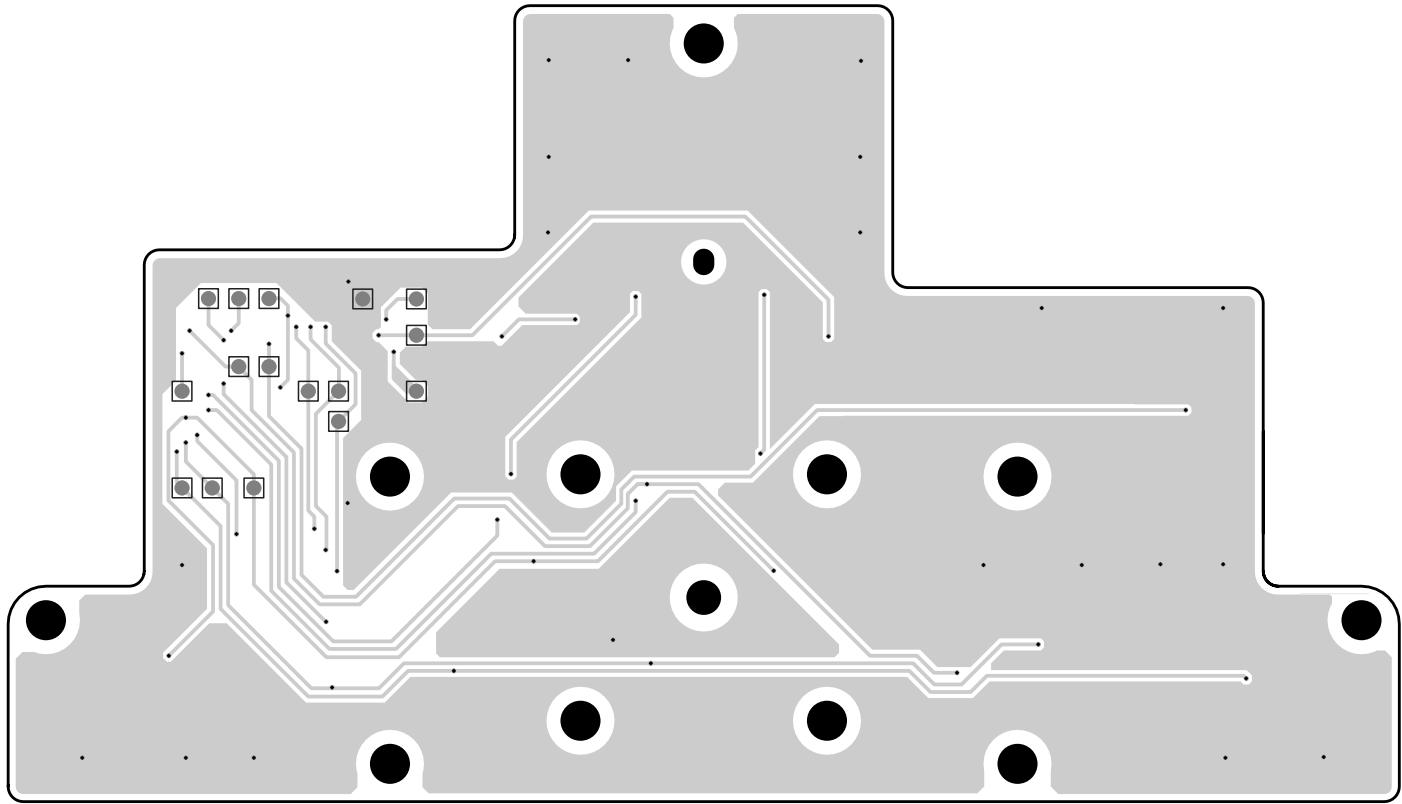
KEY SW (SIDE:A)



LINE FILTER (SIDE:A)



KEY SW (SIDE:B)



LINE FILTER (SIDE:B)

