

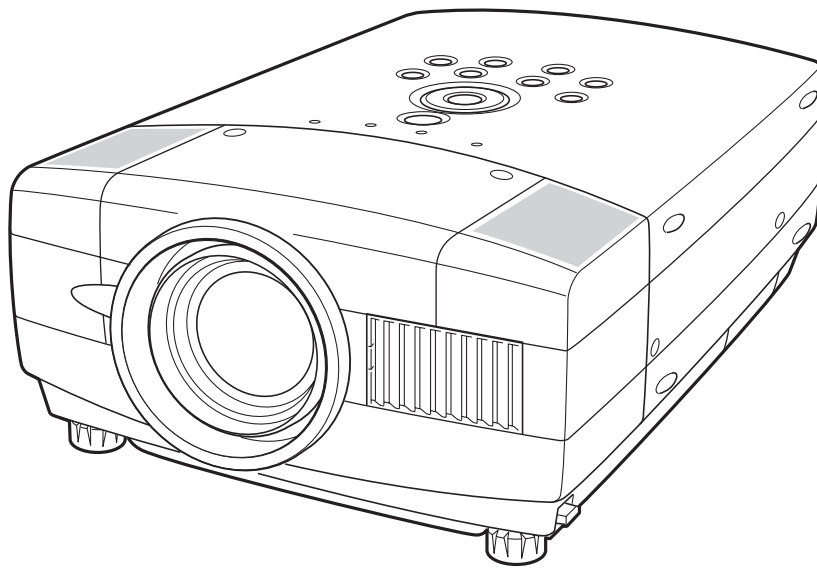
FILE NO.

SERVICE MANUAL Multimedia Projector

Model No. PLC-XT10

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

Original Version



Chassis No. MD3-XT1000

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

1 122 163 00 (MD3A)

1 122 164 00 (PD3A)

1 122 164 02 (PD3C)

REFERENCE NO. SM5110412

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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. | DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED. |
| 2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis. | 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. |
| 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. | 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)	11.9" x 6.4" x 16.6" (302mm x 162mm x 422mm) (not including Adjustable Feet)
Net Weight	17.2 lbs (7.8 kg)
LCD Panel System	0.99" TFT Active Matrix type, 3 panels
Panel Resolution	1024 x 768 dots
Number of Pixels	2,359,296 (1024 x 768 x 3 panels)
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 ~ 100kHz, V-sync. 50 ~ 100Hz
Projection Image Size (diagonal)	Adjustable from 31" to 300"
Horizontal Resolution	800 TV lines (HDTV)
Projection Lens	F 1.7 ~ 2.1 lens with f 34 mm ~ 44 mm with motor zoom and focus
Throw Distance	4.3' ~ 32.8' (1.3 m ~ 10.0 m)
Motorized Lens Shift	Up and Down
Projection Lamp	250 W
Computer 1 Input Terminal	(VGA) HDB 15-pin Terminal x 1
Computer 2 Input Terminal	DVI-I Terminal (Digital/Analog)
Computer Audio input jacks	Mini Jack (stereo) x 2 (Computer 1 and Computer 2)
Video Input Jacks	RCA Type x 1 (Video), RCA Type x 3 (Y, Pb/Cb, Pr/Cr), Mini DIN 4 pin x 1 (S-Video) and RCA x 2 (Audio R and L)
Monitor Output Terminals	(VGA) HDB 15-pin Terminal x 1
Audio Output Jacks	Mini Jack (stereo) x 1
Control Port Connector	Mini DIN 8 pin x 1
USB Connector	USB Series B receptacle x 1
Built-in Speakers	INT. SP. Stereo (R and L), 2 watt RMS (T.H.D. 10%)
Feet Adjustment	0° to 10°
Voltage and Power Consumption	AC 100 ~ 120V (4.6A Max. Ampere), 50/60Hz (The U.S.A and Canada) AC 200 ~ 240V (2.3A 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	Power Source : AA, UM3 or R06 Type x 2 Operating Range : 16.4' (5m) / ±30° Dimensions : 2.0" x 1.4" x 7.6" (50mm x 36mm x 193mm) Net Weight : 0.35 lbs (160 g) (including batteries) Laser Pointer : Class II Laser (Max. Output : 1mW / Wave length : 650±20nm)

● 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	Relay Lens	Mirror	Polarized glass			Power DC Board	Main Board
						R	G	B		
Optical Adjustments	Condenser lens adjustment	○	●							
	Relay lens adjustment	○		●						
	Mirror adjustment				●					
	Contrast Adjustment									
	R-Contrast adjustment					●				
	G-Contrast adjustment						●			
	B-Contrast adjustment							●		
Electrical Adjustments	Fan voltage adjustment								●	
	Video center adjustment									●
	NRS adjustment									●
	Pedestal adjustment [PC]									●
	Video gain adjustment [PC]									●
	Black level adjustment [PC]									●
	Luminance adjustment [PC]									●
	A/D ref. voltage adjustment [Video]									●
	A/D input adjustment [Video]									●
	Pedestal adjustment [Video]									●
	Video gain adjustment [Video]									●
	A/D input adjustment [Component]									●
	Pedestal adjustment [Component]									●
	Video gain adjustment [Component]									●
	Luminance adjustment [Video]									●
	Common center adjustment	●								●
	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

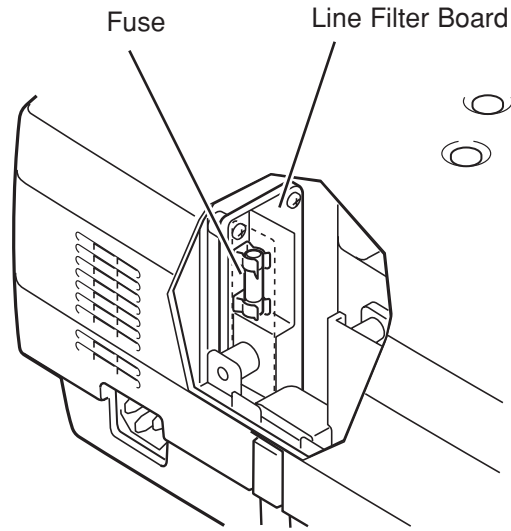
The fuse is located inside of the projector. When either the LAMP indicator or the READY indicator is not illuminated, fuse may be opened. Check the fuse as following steps.

It should be used the specified fuse as follows;

FUSE PART NO. : 645 058 8181
TYPE 8A 250V FUSE
SKYGATE CO. LTD. TYPE SG-5013 008

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

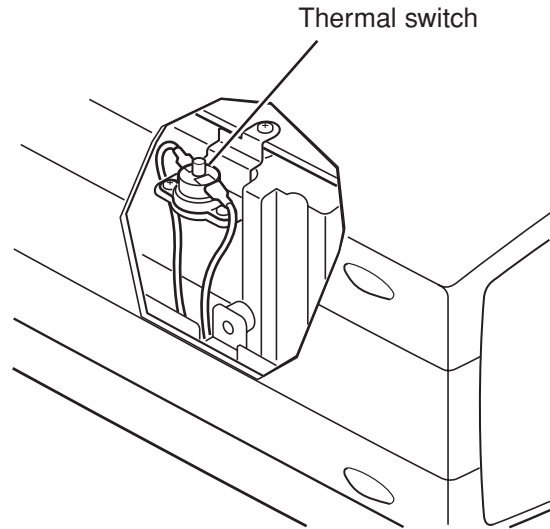
There is the thermal switch (SW905) inside of the projector to prevent the internal temperature rising abnormally. When the internal temperature reaches near 90°C, turn off the AC main power supply automatically.

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.

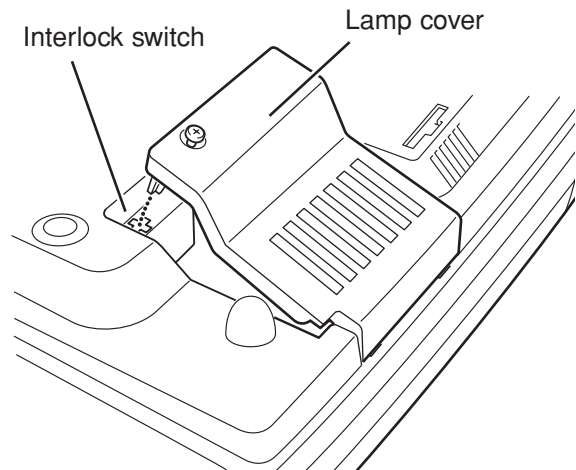


CAUTION:

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

● Interlock switch

The interlock switch (SW902) 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 stops, 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 filters prevent 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.

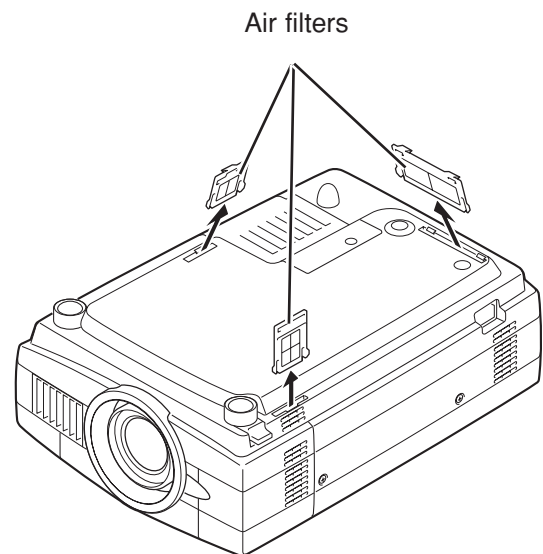
To clean up the air filters, follow the cleaning procedure below:

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 filters by pulling the latches of them upward.
3. Clean the air filters with brush or wash out the dust and particles.
4. Replace each air filter properly. Make sure that the air filters are 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 removal

- 1 Turn the Lens Front Cover counter-clockwise and take it off by pulling forward as shown in **Fig.1-1**.
- 2 Remove 2 screws **A** (M4x10) to take the Cabinet Front-Top off.
- 3 Remove 5 screws **B** (M4x10) and then take the Cabinet Top upward off.

Screws Expression (Type Diameter x Length) mm	
T type	M Type
	

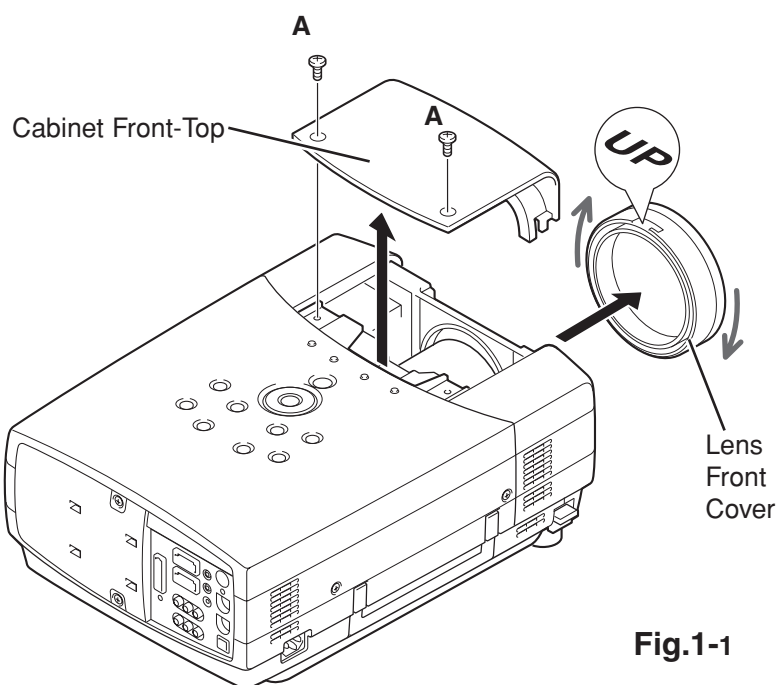


Fig.1-1

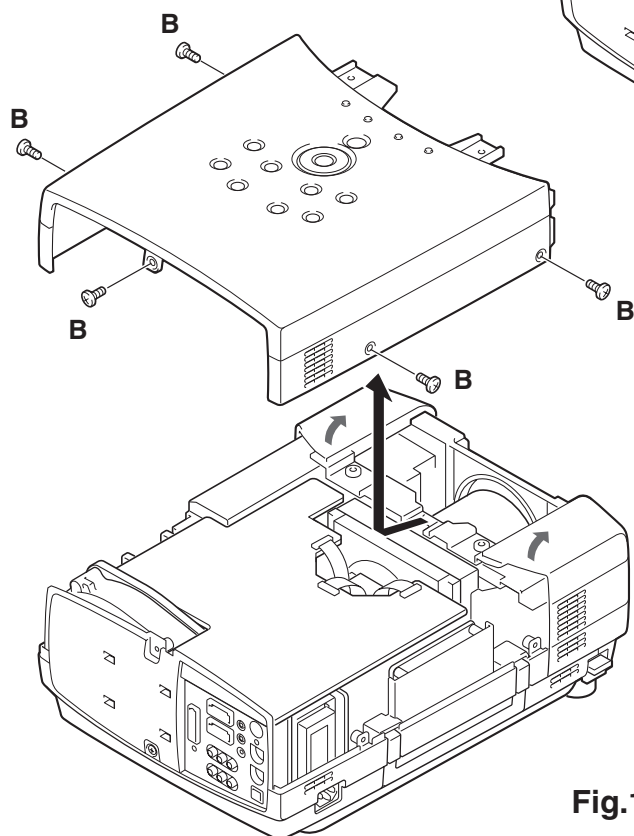
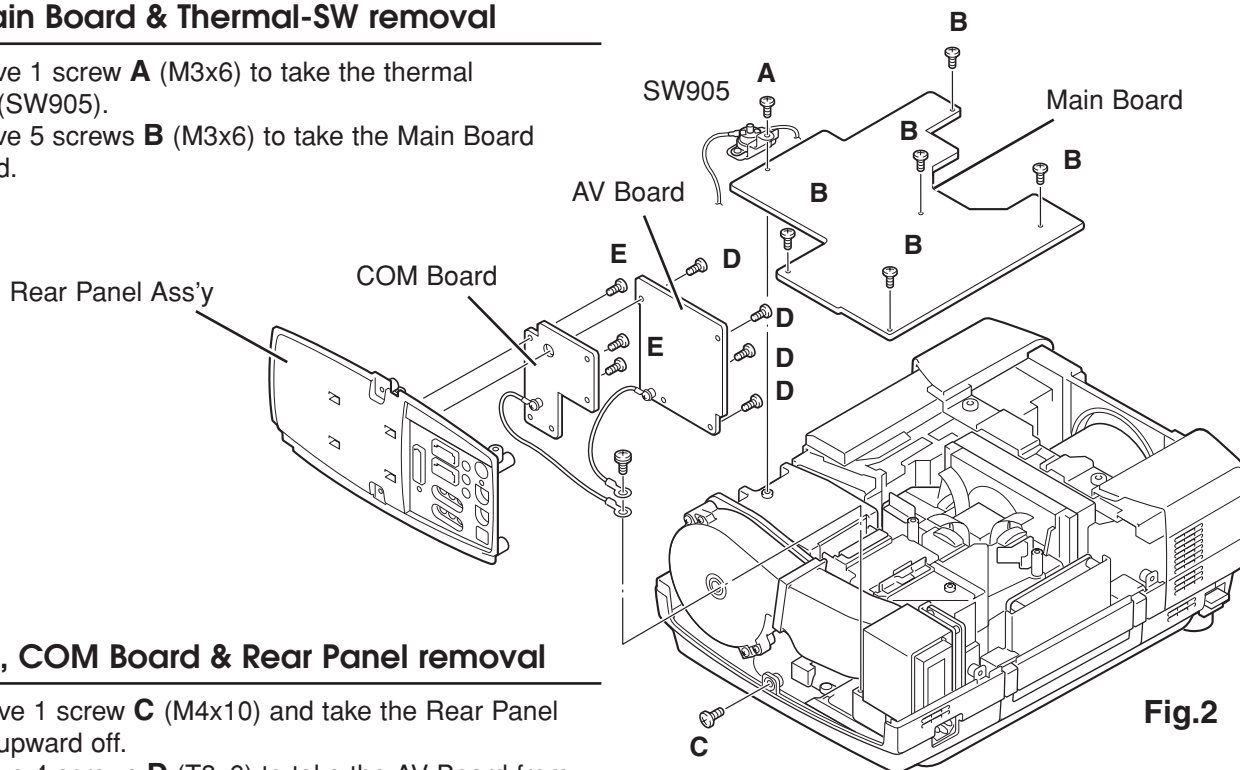


Fig.1-2

2 Main Board & Thermal-SW removal

- 1 Remove 1 screw **A** (M3x6) to take the thermal switch(SW905).
- 2 Remove 5 screws **B** (M3x6) to take the Main Board upward.

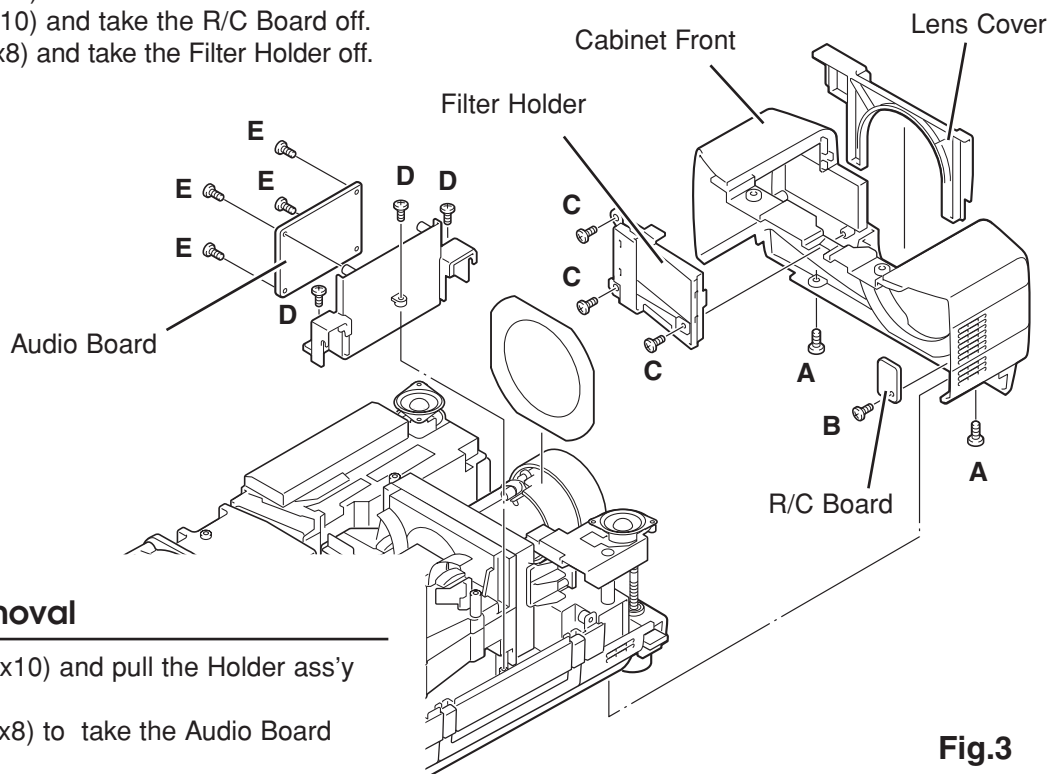


3 AV, COM Board & Rear Panel removal

- 1 Remove 1 screw **C** (M4x10) and take the Rear Panel ass'y upward off.
- 2 Remove 4 screws **D** (T3x6) to take the AV Board from the Rear Panel ass'y off.
- 3 Remove 5 screws **E** (T3x6) to take the COM Board from the Rear Panel ass'y off.

4 Cabinet Front removal

- 1 Remove the Lens Cover upward off.
- 2 Remove 2 screws **A** (M4x10) and take the Cabinet Front off.
- 3 Remove 1 screw **B** (T3x10) and take the R/C Board off.
- 4 Remove 3 screws **C** (T3x8) and take the Filter Holder off.



5 Audio Board removal

- 1 Remove 3 screws **D** (T3x10) and pull the Holder ass'y upward off.
- 2 Remove 4 screws **E** (T3x8) to take the Audio Board from the Holder.

6 Speaker base removal

- 1 Remove 4 screws **A** (T3x10) and then remove the Speaker Base.

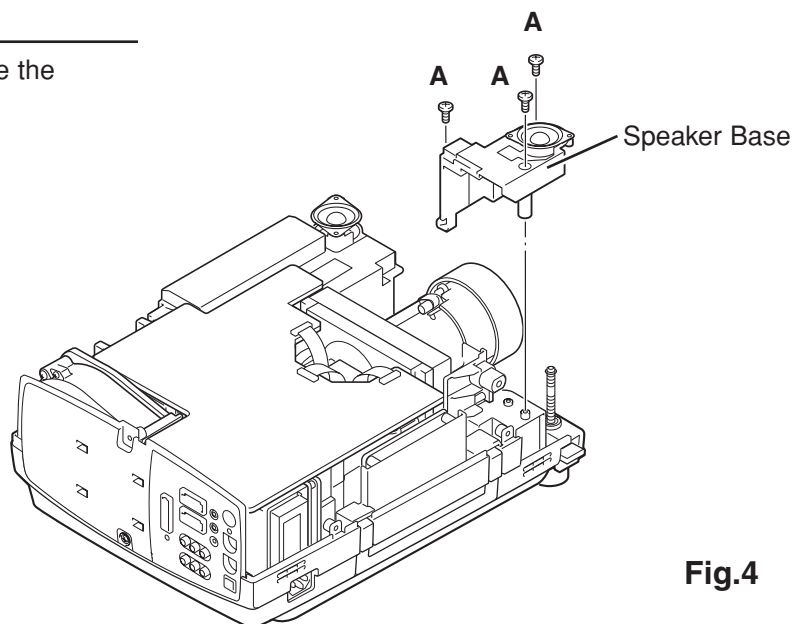


Fig.4

7 Optical Unit removal

- 1 Loosen 1 screw **A** on the lamp cover and 2 screws **B** on the lamp house and then take the Lamp House off from the cabinet bottom.
- 2 Remove 2 screws **C** (M3x8) and disconnect the lamp socket.
- 3 Remove 5 screws **D** (T4x10) on the optical unit, 1 screw **E** (T3x10) on the duct ass'y and then pull the Optical Unit upward off.

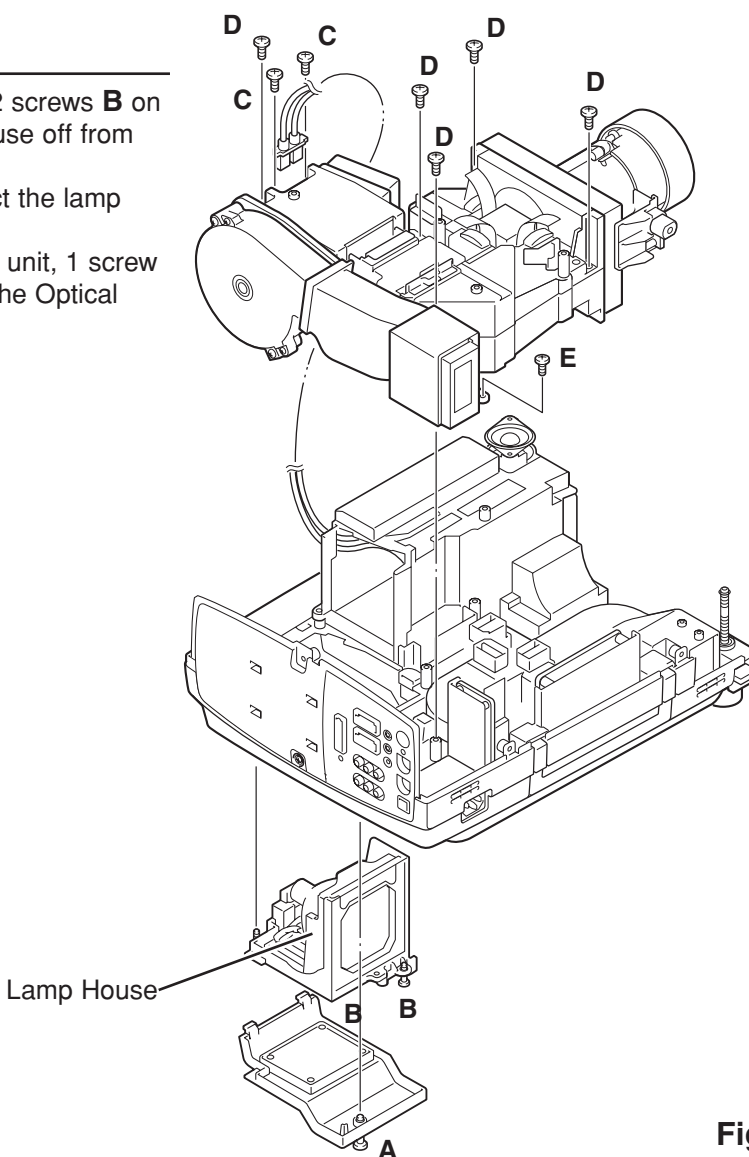


Fig.5

8 Fan & Motor removal

- 1 Remove 4 screws **A** (T3x20) to take the fan (FN904) off.
- 2 Remove 3 screws **B** (T4x25) to take the fan (FN907) off.
- 3 Remove 4 screws **C** (T3x10) to take the duct ass'y off.
- 4 Remove 2 screws **D** (T3x6) to take the Lens Shift Motor and Sensor SW Holder from the Base.

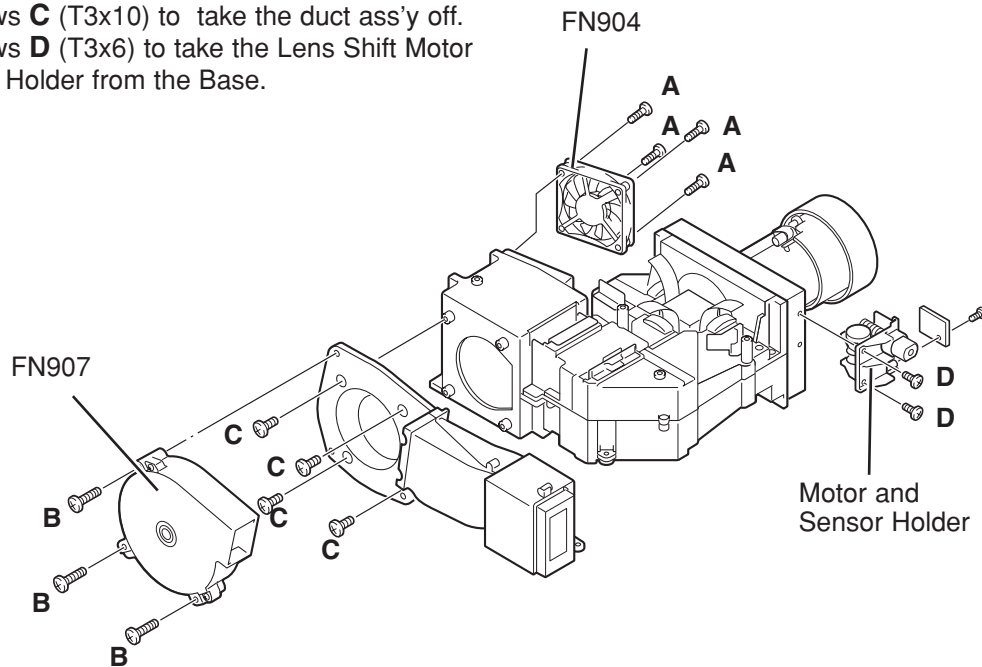


Fig.6

9 Lamp Ballast Board removal

- 1 Remove 4 screws **A** (T3x8) and then pull the Ballast Board Ass'y upward off.
- 2 Remove 3 screws **B** (T3x20) to take the Fan (FN905) off.
- 3 Unhook 4 hooks and take the Lamp Ballast Board off.
- 4 Disconnect the Power DC board from the Power AC board.

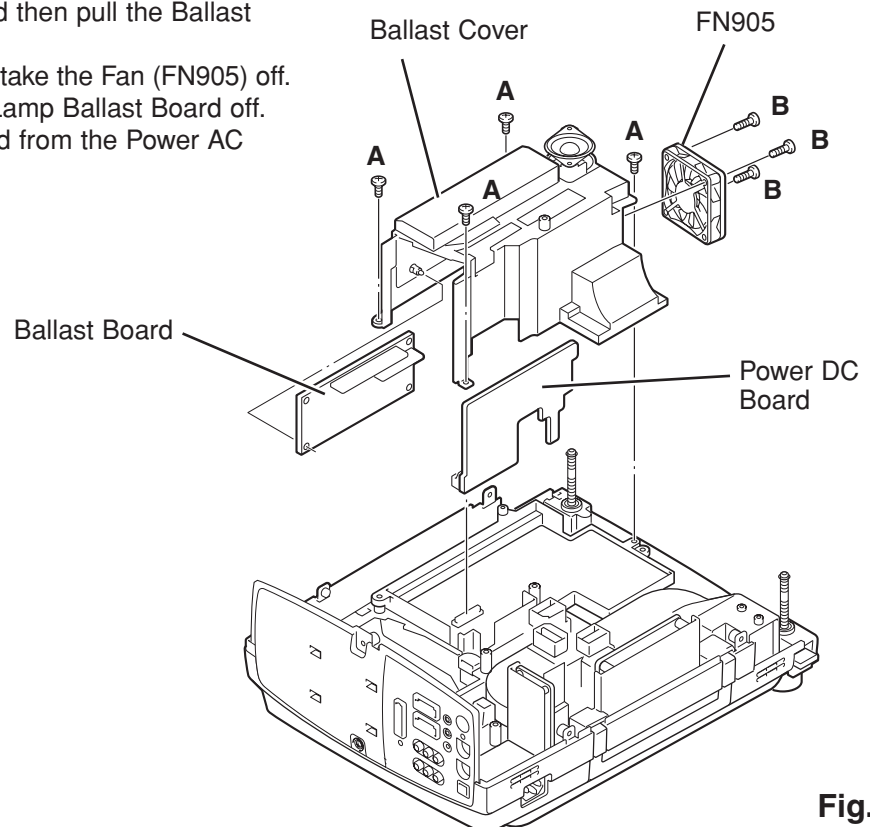


Fig.7

10 Power AC Board removal

- 1 Remove 4 screws **A** (T3x6) to take the Power Board off.
- 2 Remove 4 screws **B** (T3x10) to take the Holder from the cabinet bottom.

11 Line Filter Board & Interlock SW removal

- 1 Remove 3 screws **C** (T3x10) to take the Filter Board Ass'y upward.
- 2 Remove 3 screws **D** (T3x8) and 1 screw **E** (T3x6) to take the Filter Board from the Holder.
- 3 Remove 2 screws **F** (T3x10) to take the Interlock switch (SW902) from the cabinet bottom.

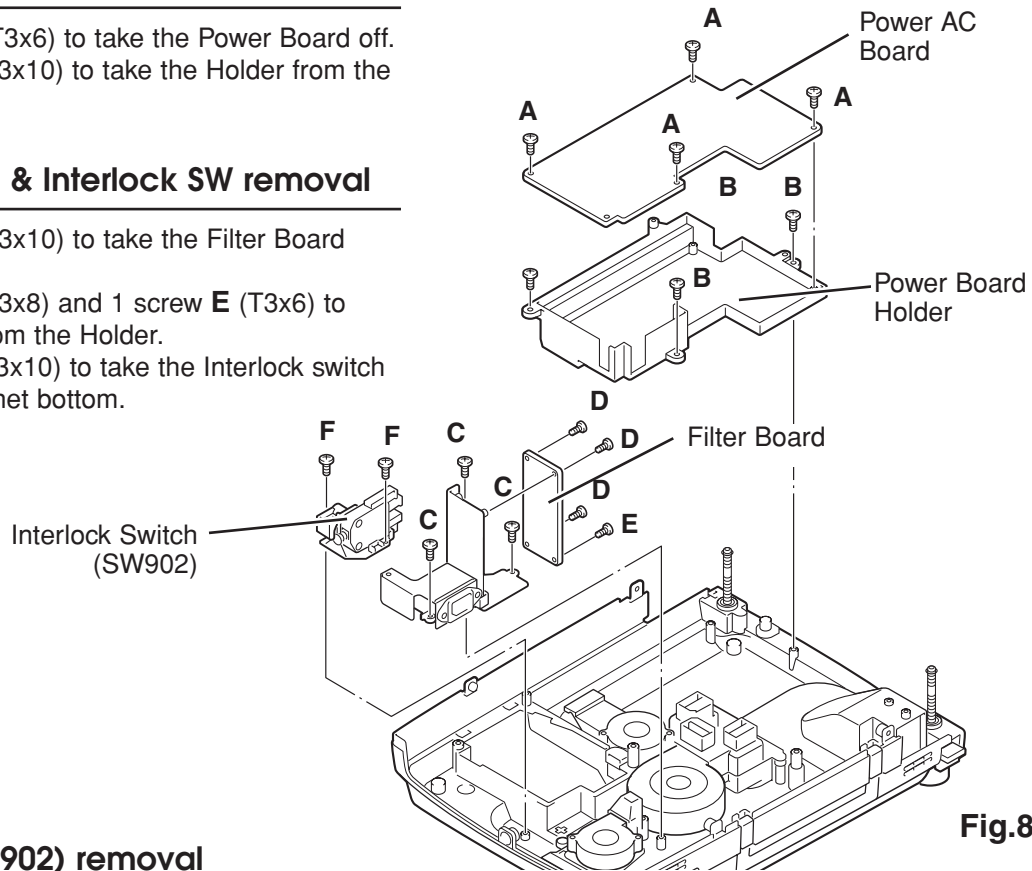


Fig.8

12 Fans (FN901, FN902) removal

- 1 Remove 1 screw **A** (T3x20) then take the Fan (FN906) off and remove 3 screws **B** (T3x10) to take the Duct-A off.
- 2 Remove 4 screws **C** (T3x10) to take the Duct-B off.
- 3 Remove 3 screws **D** (T3x10) to take the Duct-C off, remove 1 screw **E** (T3x10) and 1 screw **F** (T3x6) to take the Sensor Board off.
- 4 Remove 2 screws **G** (T4x25) to take the Fan (FN902) off. Remove 2 screws **H** (T4x25) to take the Fan (FN901) off.
- 5 Remove 2 screws **J** (T3x8) to take the Duct Cover off and remove 2 screws **K** (T4x25) to take the Fan (FN903) off.
- 6 Remove 4 screws **L** (T3x10) to take the Duct-D off.

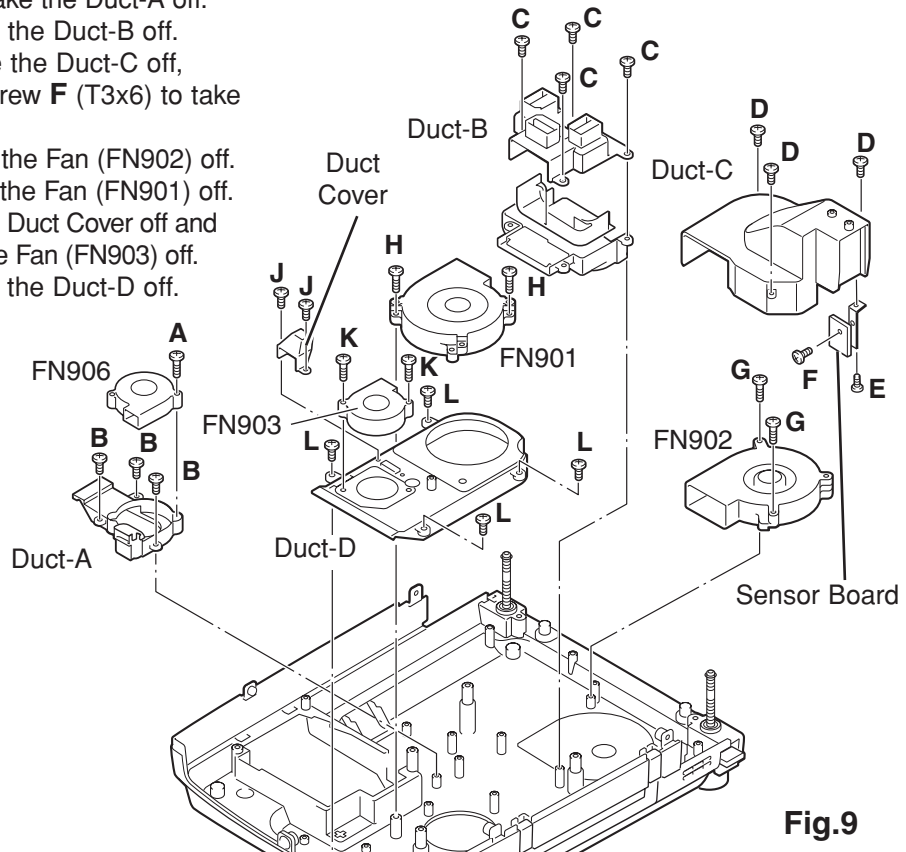


Fig.9

■ 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 Shift the projection lens to the end of top position by pressing the Lens Shift (+) button.
- 2 Remove the Cabinet Front-Top and Lens Holder following to the chapter “Mechanical Disassemblies”.
- 3 Press and hold the Fixing Lever **A** and turn the Projection Lens counter-clockwise (1/6 turn) and then take it off.

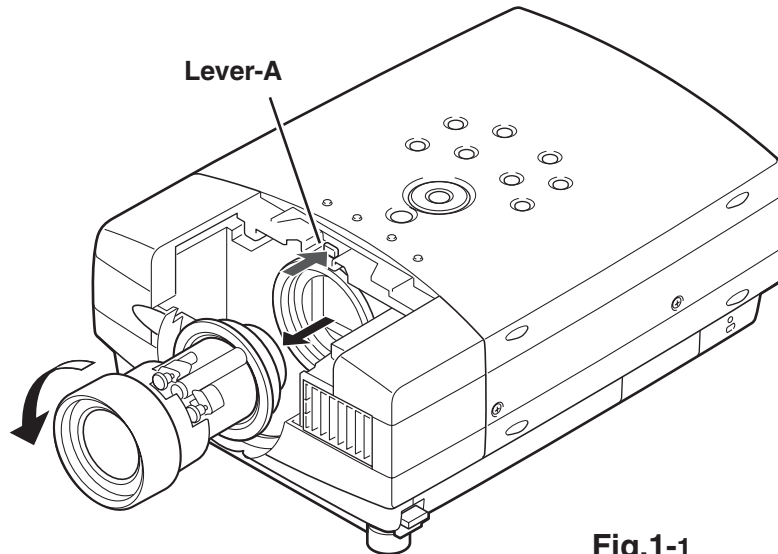


Fig.1-1

Note in the Mounting Projection Lens

Insert the Projection lens into the guide at a position where the both markers on the projection lens and the mounting base come together, and turn it clockwise until the Fixing Lever is set to the fixing position.

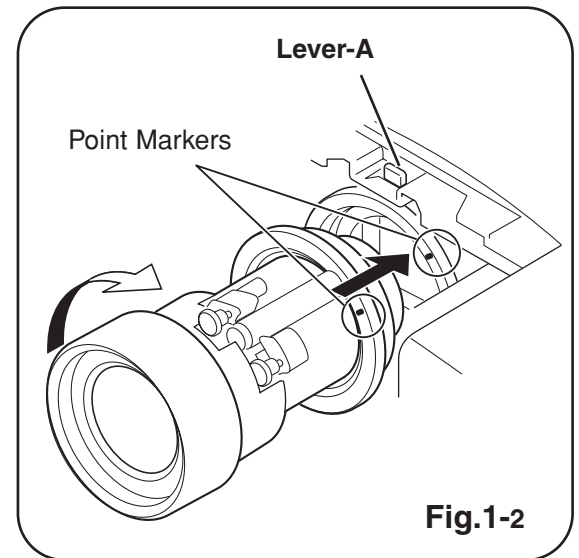


Fig.1-2

2 Polarized Glass-In removal

- 1 Remove each hex screw and pull the Polarized Glass-In ass'y upward.
- 2 Remove a stopper and take the glass off upward.

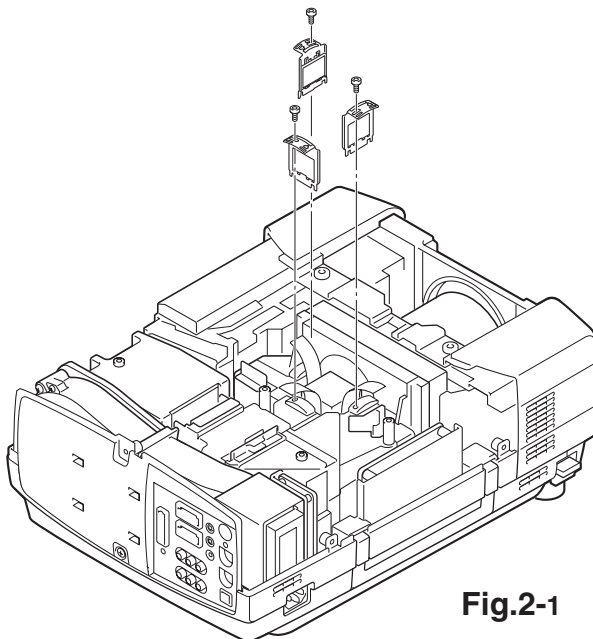
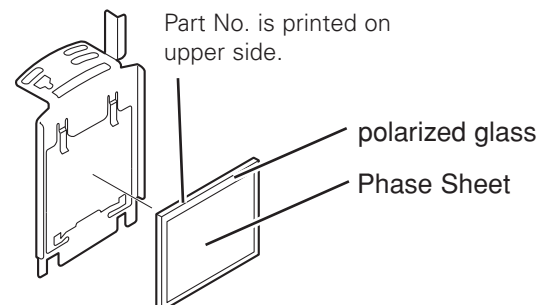


Fig.2-1



* Glass should be placed as the printed marker comes to the upper left corner.

Fig.2-2

3-1 Prism ass'y removal and disassembly

- 1 Remove 4 hex screws **A** and take the LCD/Prism ass'y off upward.
- 2 Remove each 1 screw **B** and take the Glass Holder, and then pull the Optical filter, Polarized Glass-Out upwards off. These glasses are mounted for R, G and B LCD panels respectively.

Note:

To avoid the CG and focus alignments slipping off, please be careful to handle the LCD/Prism ass'y.

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

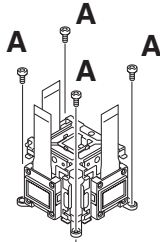


Fig.3-1

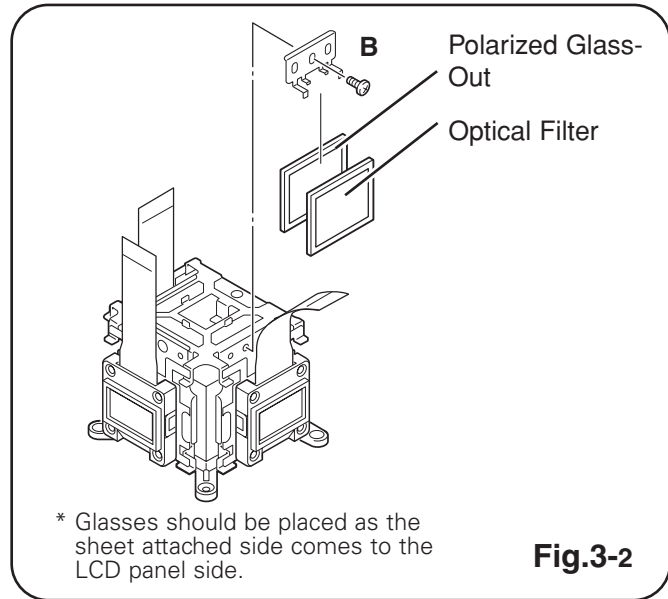
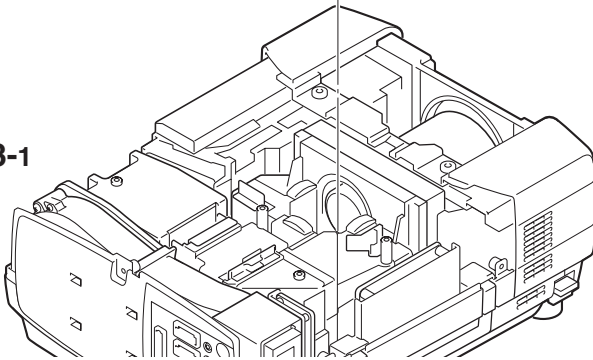


Fig.3-2

3-2 Polarized glass and optical filter mounting direction

The polarized glasses and optical filters in the prism assembly are installed as figure below. Please be careful for the mounting.

The polarized glasses are placed as the film attached face comes outside. The optical filters are placed as the face on which the part no. is printed comes to the arrow direction as shown in the figure. The optical filters for B and G panel have films on the both of the faces.

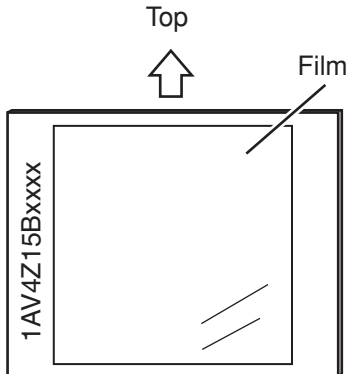


Fig.3-4

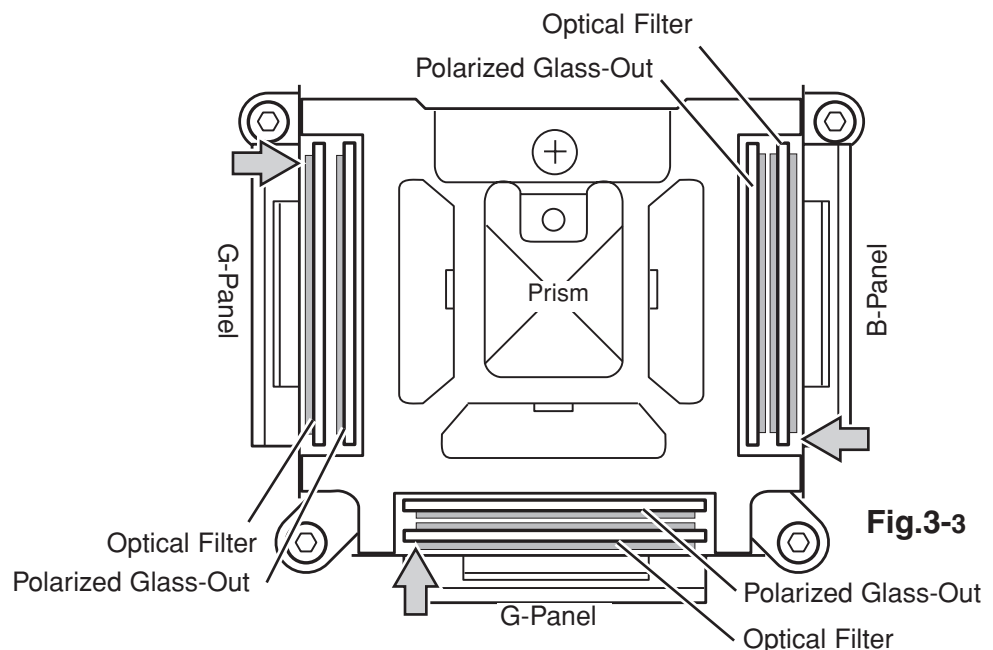


Fig.3-3

4 Relay Lens disassembly

- 1 Remove 2 hex screws **A** and pull the Relay Lens ass'y upward.
- 2 Remove 2 screws **B** to take the Lens off from the holder.

Note:

There is no mounting direction of the lens.

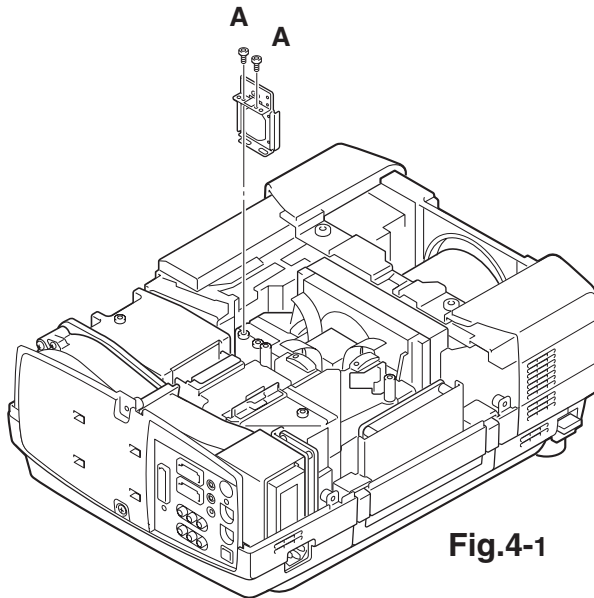


Fig.4-1

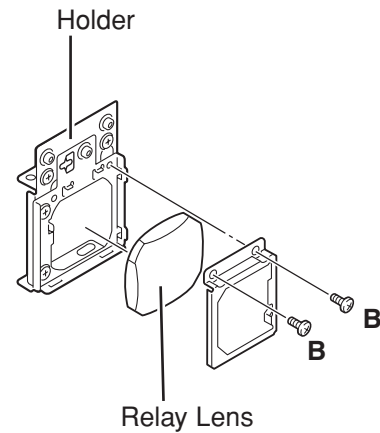


Fig.4-2

5 Integrator-In disassembly

- 1 Remove 2 hex screws **A** and take the Integrator Lens ass'y.
- 2 Remove 2 screws **B** to take the Lens off from the holder.

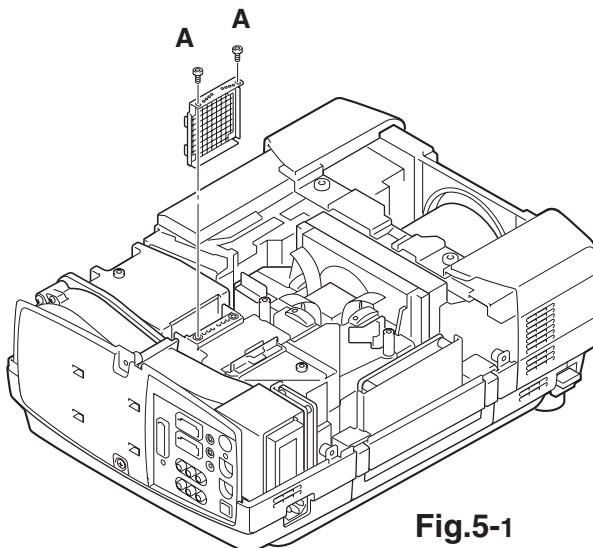


Fig.5-1

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

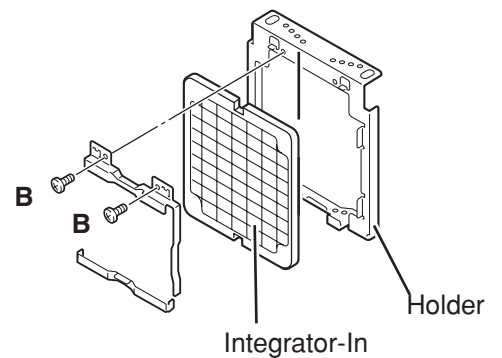


Fig.5-2

6 Condenser Lens disassembly

- 1 Remove 2 hex screws **A** and take the Condenser Lens ass'y.
- 2 Remove 4 screws **B** to take the Lens off from the holder.

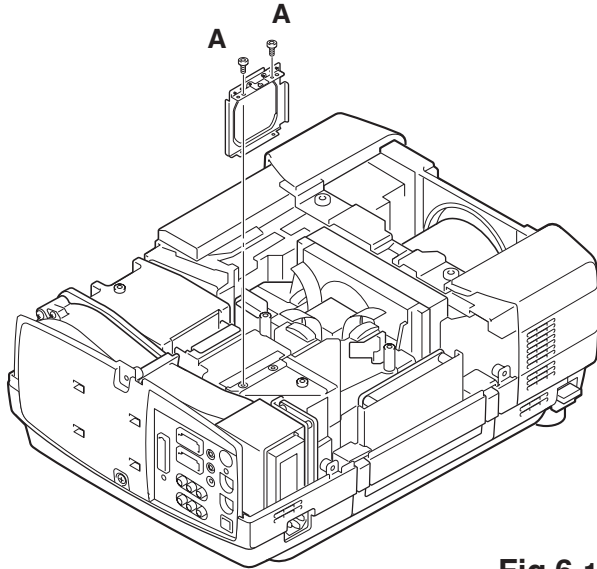


Fig.6-1

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

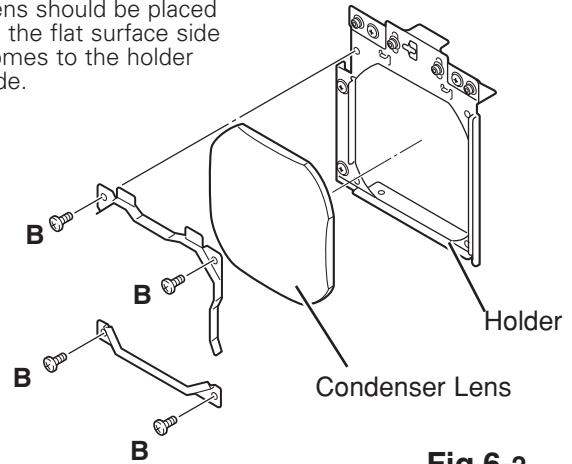


Fig.6-2

7 Optical Unit Top removal

- 1 Loosen 2 screws **A** on the holder on the optical unit.
- 2 Remove 7 screws **B** to take the Optical Unit Top off upward.

Note in Mounting of the Optical Unit Top

After mounting the Optical Unit Top, mount the holder for fixing the Mirror in the optical unit.

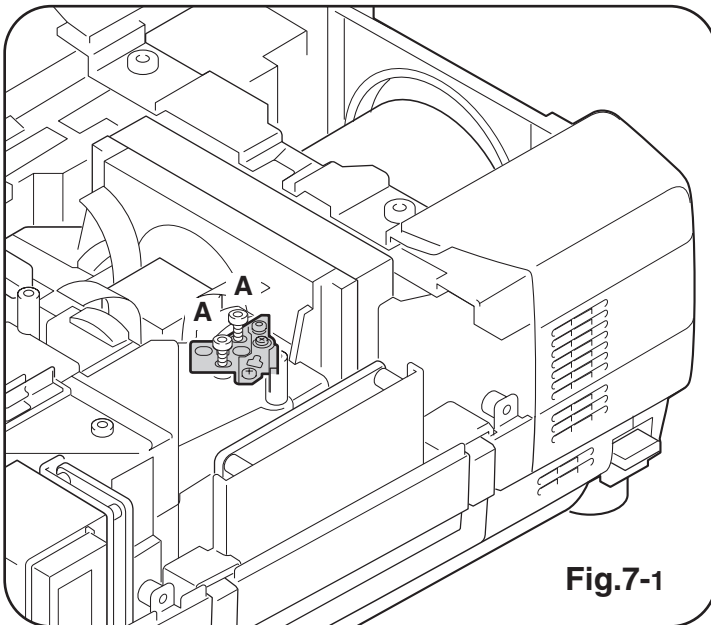


Fig.7-1

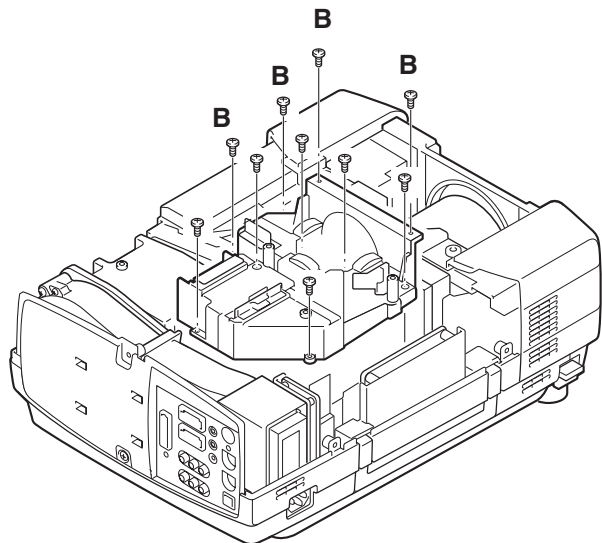


Fig.7-2

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.

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

The key No. 16 should be placed as the film attached side comes to the mirror side.

Key No.	Description
1	Slit-Int
2	Integrator Lens-Out
3	PBS (Prism Beam Splitter)
4	Mirror (W-Cold)
5	Condenser lens-Out
6	Dichroic mirror (B)
7	Optical Filter (UV Cut)
8	Mirror Holder
9	Mirror (B)
10	Condenser lens
11	Dichroic Mirror (G)
12	Condenser Lens (G)
13	Relay lens-In
14	Mirror (R)
15	Condenser Lens (R)
16	Pre-polarized glass (B)

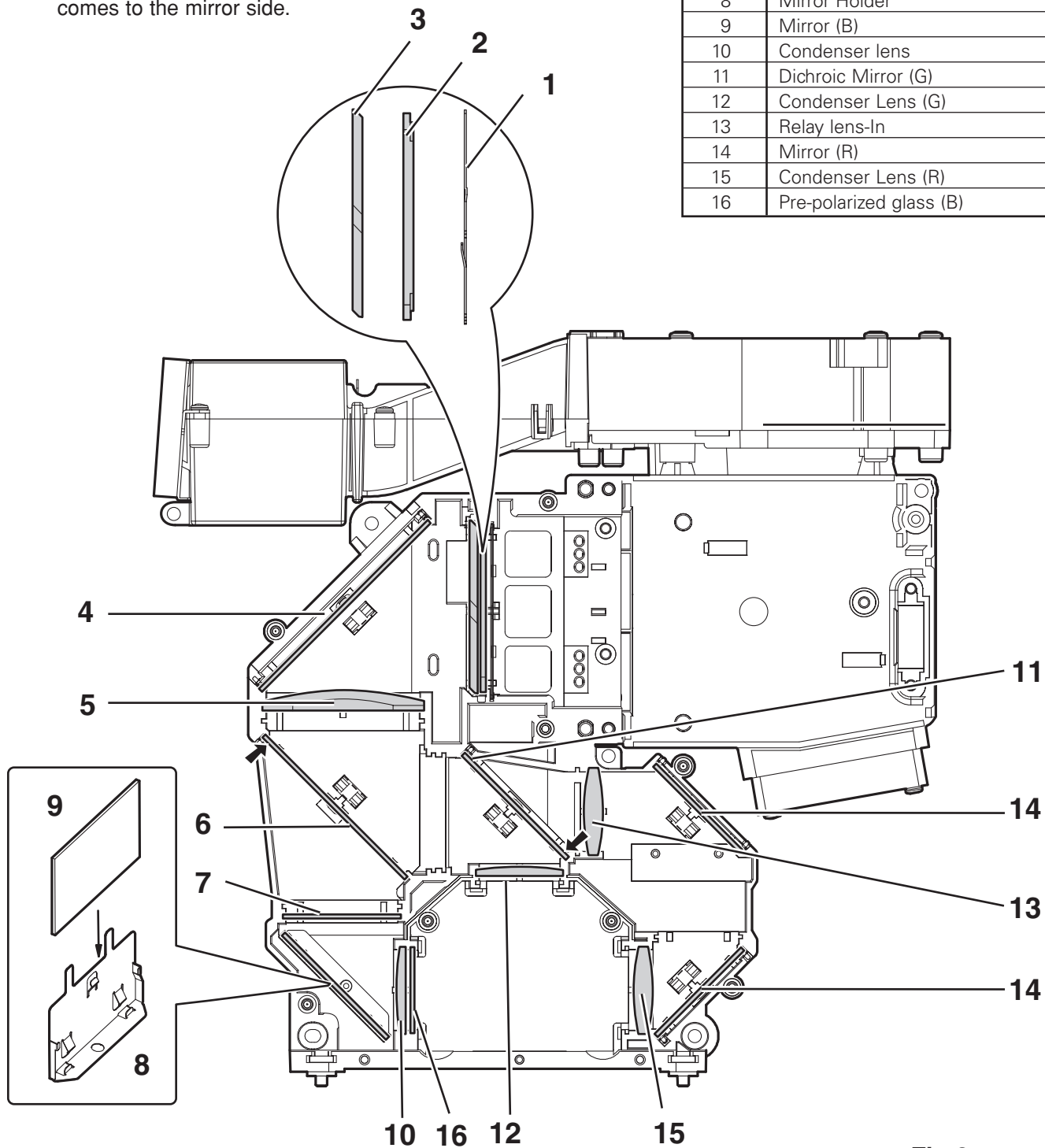


Fig.8

■ 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 SOFTWARE

Service Parts No. 645 051 2308

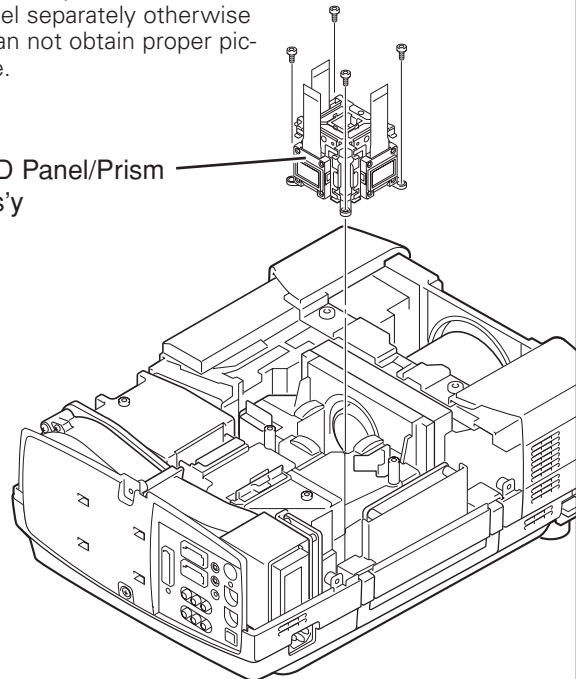
LCD Panel/Prism Ass'y removal

- 1 Remove the cabinet top and main board following to "Mechanical Disassemblies".
- 2 Remove 3 Polarized Glass-In.
- 3 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



■ 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.

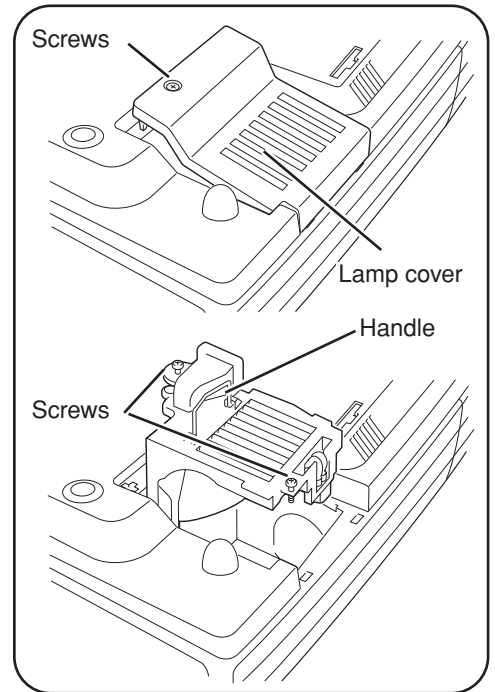
7 Reset the Lamp Replace Counter, see below explanation.

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.

ORDER REPLACEMENT LAMP

Type No. _____ Service Parts No. _____
POA-LMP48 610 301 7167



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.

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”.

Please refer to the owners manual for further information.

How to check Lamp Replace Counter

The LAMP REPLACEMENT indicator will illuminate when the Lamp Replace Counter reaches 1000 hours. This is to indicate that lamp replacement is required.

You can check the lamp replace counter following to below procedure.

- 1 Press and hold the pointer ▲ on the projector for more than 20 seconds.
- 2 The Lamp replace Counter is displayed on top left corner of the screen briefly.

Normal	123 h
Eco	250 h
Total	373 h

Lamp replace counter data

■ Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top and Main Board, if required, following to the "Mechanical Disassemblies"

Adjustments require a 2.0mm hex wrench and a slot screwdriver.

Note: Do not disconnect connectors K8E, K8F, K8G, K8J and K8K 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.

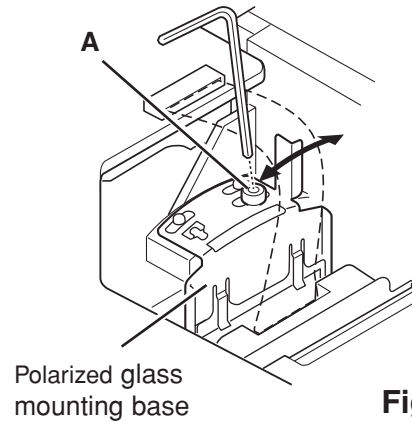


Fig.1-1

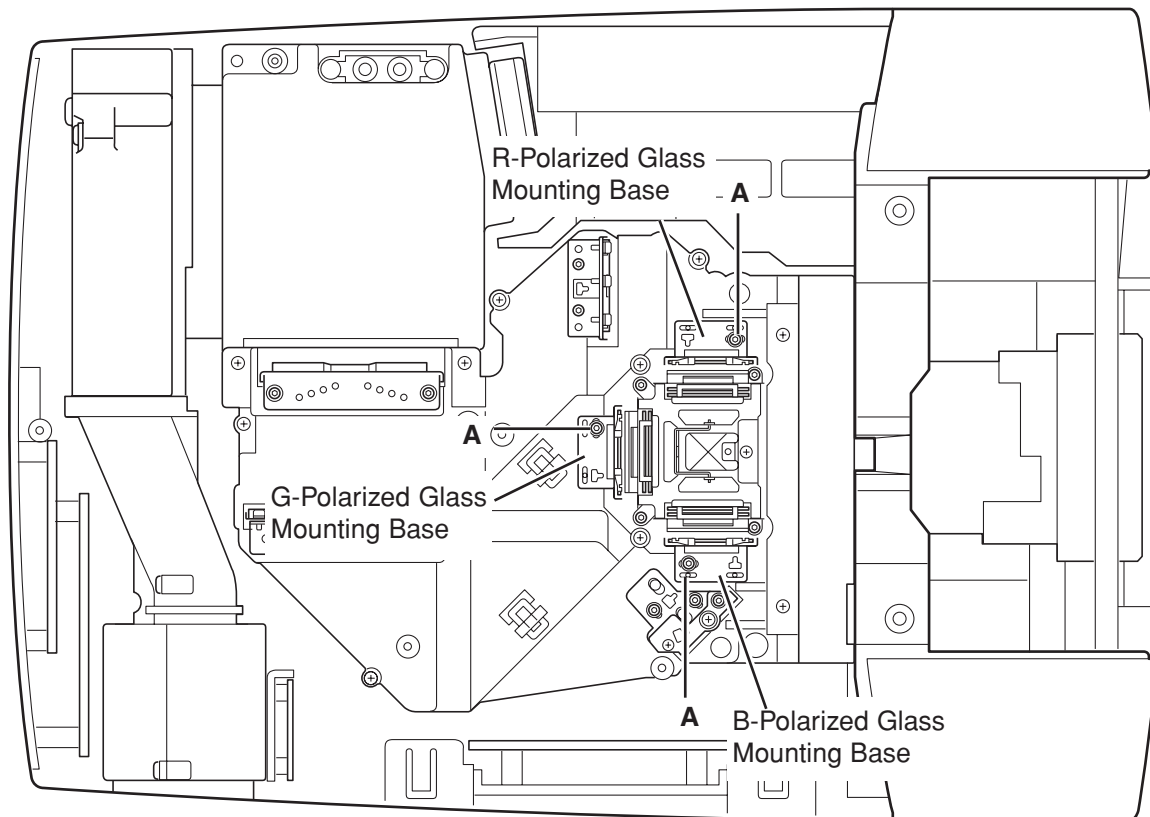


Fig.1-2

Condenser Lens adjustment

- 1 Turn the projector on by a state of without FPC cables.
- 2 Adjust the adjustment base of condenser lens ass'y to make color uniformity in white.
 - 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 white 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 white by using a slot screwdriver.
- 3 Tighten screws **A** and **C** to fix the Condenser lens unit.

Note:

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

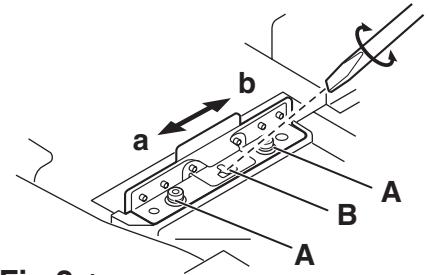
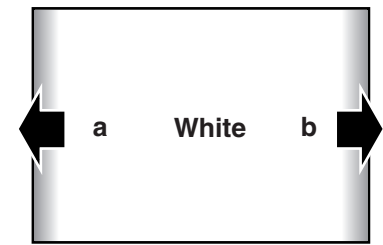
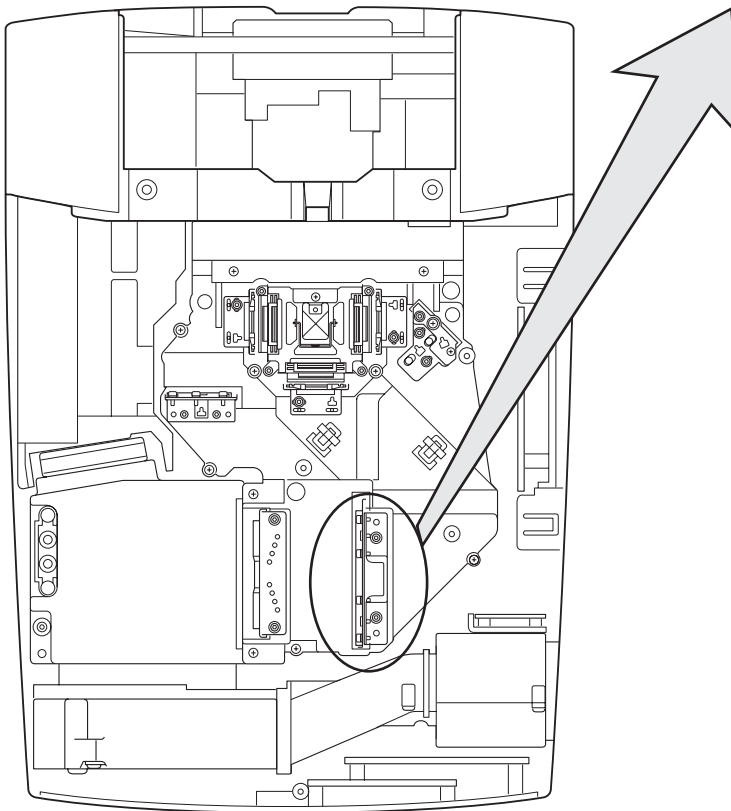


Fig.2-1
Moving of Slot B

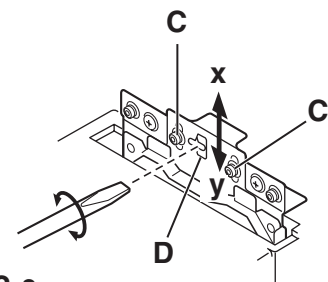
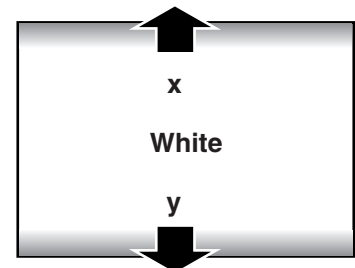


Fig.2-2
Moving of Slot D

Relay Lens-Out adjustment

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

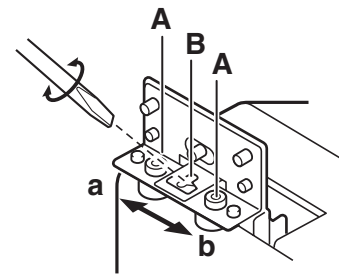
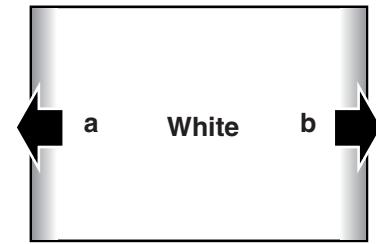
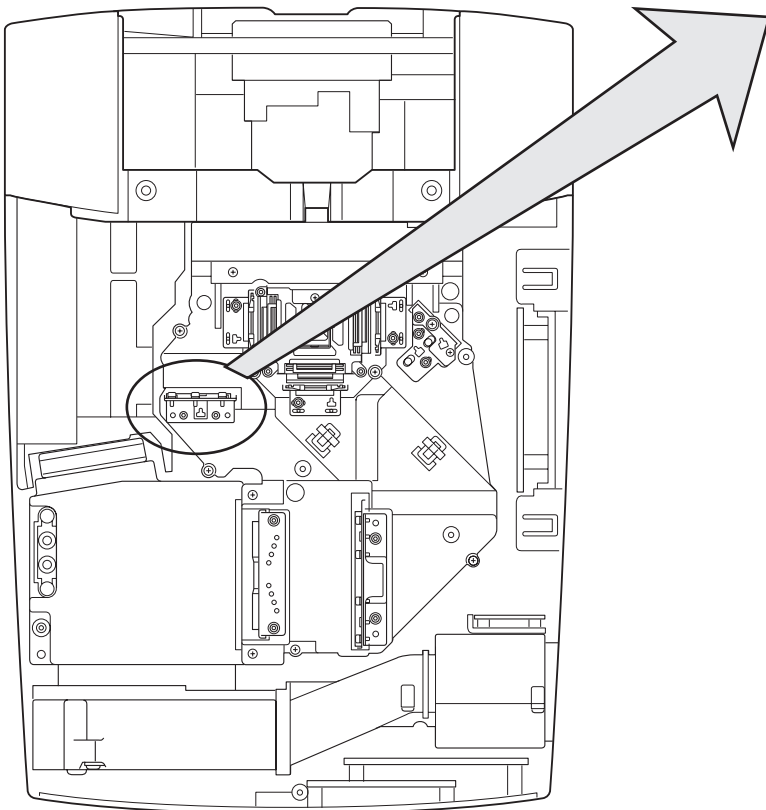


Fig.3-1
Moving of Slot B

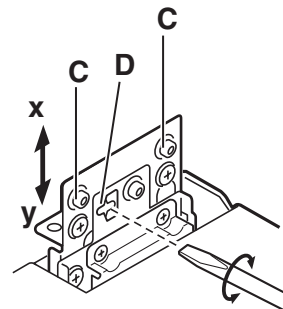
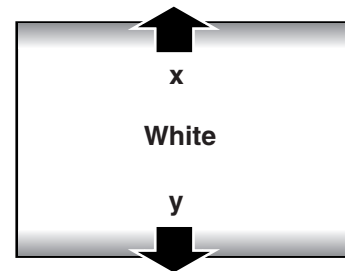


Fig.3-2
Moving of Slot D

Mirror adjustment

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

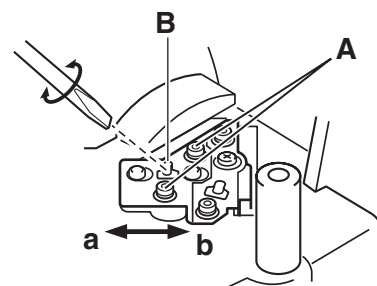
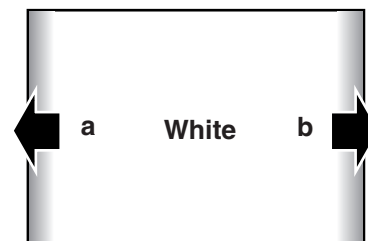
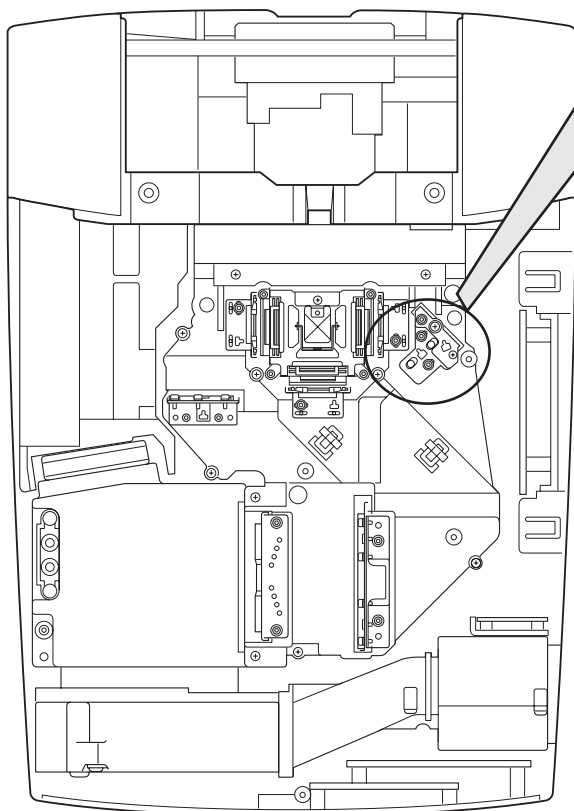


Fig.4-1
Moving of Slot B

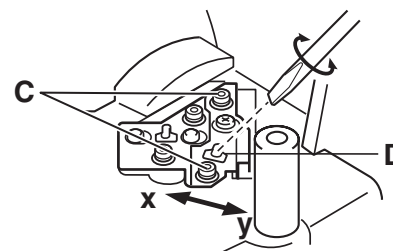
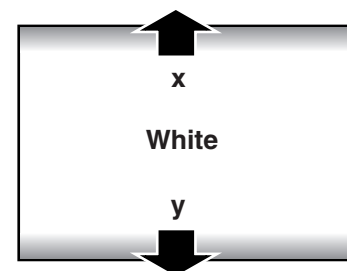


Fig.4-2
Moving of Slot D

■ Electrical Adjustments

● Service Adjustment Menu Operation

To enter the service mode

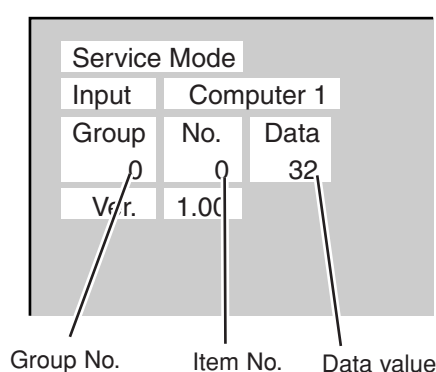
To enter the “Service Mode”, press and hold the **MENU** and **IMAGE** button on the projector at the same time for more than 3 seconds. The service menu appears on the screen as follows.

To adjust service data

Select the adjustment group no. (Group) by pressing the **MENU(+)** button or **IMAGE(-)** button, and select the adjustment item no. (No.) by pressing the **▲** or **▼** button, and change the data value (Data) by pressing the **◀** or **▶** button. Refer to the “Service Adjustment Data Table” for further description of adjustment group no., item no. and data value.

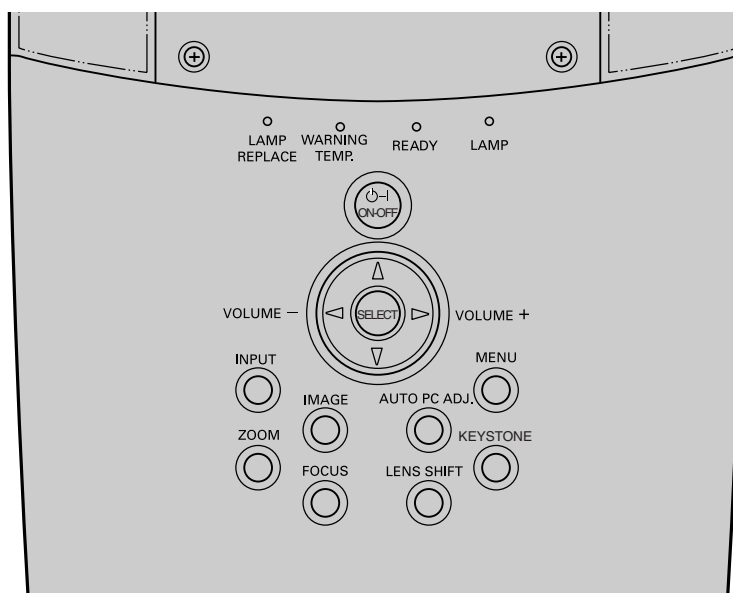
To exit the service mode

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



Service Mode		
Input	Computer 1	
Group	No.	Data
Ver.	1.00	32

Group No. Item No. Data value



● Memory IC Replacement

IC808 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 IC808.

Please note that the lamp replace counter will be reset when the memory IC (IC808) is replaced.

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

● Caution to memory IC replacement

When IC808 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 IC808 is not defective)

When the main board is replaced, IC808 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.

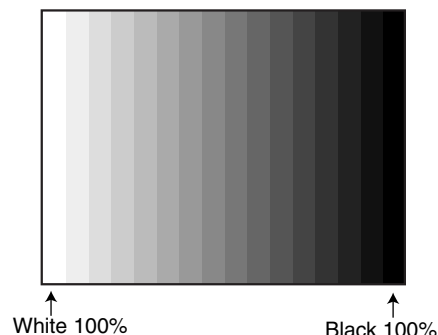
● Circuit Adjustments

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 (XGA)
 - 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.

1 Fan Voltage adjustment

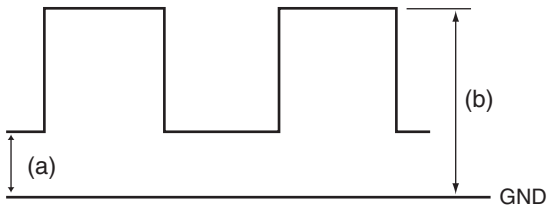
1. Set the lamp mode to "ECO" with the menu function.
2. Enter the service mode and select group no. "11" and Item no. "5". Set Data value to "1".
3. Connect a digital voltmeter to test point "TPFAN1" (+) and chassis ground (-).
4. Select group no. "11", Item no. "86" and adjust the voltage to be 4.5 ± 0.1 Vdc by changing the Data value. Select Item no. "87" and adjust the voltage to be 13.8 ± 0.1 Vdc by changing the Data value.
5. Connect a digital voltmeter to test point "TPFAN2" (+) and chassis ground (-).
6. Select Item no. "88" and adjust the voltage to be 4.5 ± 0.1 Vdc by changing the Data value. Select Item no. "89" and adjust the voltage to be 13.8 ± 0.1 Vdc by changing the Data value.
7. Connect a digital voltmeter to test point "TPFAN2" (+) and chassis ground (-).
8. Select Item no. "90" and adjust the voltage to be 4.5 ± 0.1 Vdc by changing the Data value. Select Item no. "91" and adjust the voltage to be 13.8 ± 0.1 Vdc by changing the Data value.
9. Select group no. "11" and Item no. "5". Set Data value to "0", and set the lamp mode to "Normal" with the menu function.

2 Video Center adjustment

1. Receive the 16-step gray scale computer signal with **Computer 1 [Analog RGB]** mode.
2. Enter the service mode.
3. Connect a digital voltmeter to test point "TP531" (+) and chassis ground (-).
4. Select group no. "5", Item no. "0" and adjust the voltage to be 7.50 ± 0.1 Vdc by changing the Data value.
5. Connect a digital voltmeter to test point "TP501" (+) and chassis ground (-).
6. Select Item no. "1" and adjust the voltage to be 7.50 ± 0.1 Vdc by changing the Data value.
7. Connect a digital voltmeter to test point "TP561" (+) and chassis ground (-).
8. Select Item no. "2" and adjust the voltage to be 7.50 ± 0.1 Vdc by changing the Data value.

3 NRS adjustment

1. Receive the 16-step gray scale computer signal with **Computer 1 [Analog RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP2531" (+) and chassis ground (-).
4. Select group no. "5", Item no. "7" and adjust the amplitude "a" to be $2.0 \pm 0.1V$ by changing the Data value.
5. Select Item no. "6" and adjust the amplitude "b" to be $7.5 \pm 0.1V$ by changing the Data value.



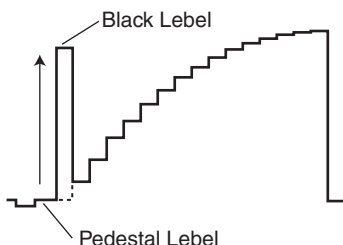
5 Video Gain adjustment (PC)

1. Receive the 16-step gray scale computer signal with **Computer 1 [Analog RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP531" (+) and chassis ground (-).
4. Select group no. "4", Item no. "3" and adjust the white level to be minimum amplitude by changing the Data value.
5. Connect an oscilloscope to test point "TP501" (+) and chassis ground (-).
6. Select Item no. "4" and adjust the white level to be minimum amplitude by changing the Data value.
7. Connect an oscilloscope to test point "TP561" (+) and chassis ground (-).
8. Select Item no. "5" and adjust the white level to be minimum amplitude by changing the Data value.



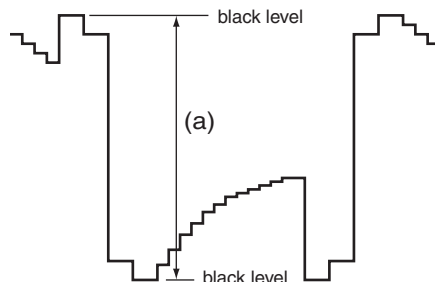
4 Pedestal adjustment (PC)

1. Receive the 16-step gray scale computer signal with **Computer 1 [Analog RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP531" (+) and chassis ground (-).
4. Select group no. "5", Item no. "11" and adjust the black level to be maximum amplitude by changing the Data value.
5. Connect an oscilloscope to test point "TP501" (+) and chassis ground (-).
6. Select Item no. "12" and adjust the black level to be maximum amplitude by changing the Data value.
7. Connect an oscilloscope to test point "TP561" (+) and chassis ground (-).
8. Select Item no. "13" and adjust the black level to be maximum amplitude by changing the Data value.



6 Black Level adjustment (PC)

1. Receive the 16-step gray scale computer signal with **Computer 1 [Analog RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP531" (+) and chassis ground (-).
4. Select group no. "5", Item no. "3" and adjust the amplitude "a" to be $10.0 \pm 0.1V$ by changing the Data value.
5. Connect an oscilloscope to test point "TP501" (+) and chassis ground (-).
6. Select Item no. "4" and adjust the amplitude "a" to be $10.0 \pm 0.1V$ by changing the Data value.
7. Connect an oscilloscope to test point "TP561" (+) and chassis ground (-).
8. Select Item no. "5" and adjust the amplitude "a" to be $10.0 \pm 0.1V$ by changing the Data value.



7 Luminance adjustment adjustment (PC)

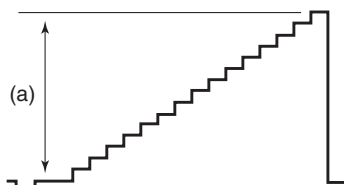
1. Receive the 100%whole-white computer signal with **Computer 1 [Analog RGB]** mode.
2. Enter the service mode.
3. Measure luminance on the screen with the luminance meter. It is **A** for the reading of luminance meter.
4. Change the signal source to the 50%whole-white computer signal with **Computer 1 [Analog RGB]** mode.
5. Select group no. "4", Item no. "6" and change the Data value to make the reading of luminance meter to be **A x 23%**.

8 A/D Ref. Voltage adjustment (Video)

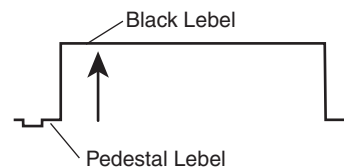
1. Receive the 16-step gray scale composite video signal with **Video** mode.
2. Enter the service mode.
3. Connect a digital voltmeter to test point "TPVRB" (+) and chassis ground (-).
4. Select group no. "5", Item no. "17" and adjust the voltage to be $1.0 \pm 0.05\text{Vdc}$ by changing the Data value.
5. Connect a digital voltmeter to test point "TPGVRT" (+) and chassis ground (-).
6. Select Item no. "18" and adjust the voltage to be $2.5 \pm 0.05\text{Vdc}$ by changing the Data value.

9 A/D Input adjustment (Video)

1. Receive the 16-step gray scale composite video signal with **Video** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP13G" (+) and chassis ground (-).
4. Select group no. "3", Item no. "1" and adjust the amplitude "a" to be $1.35 \pm 0.1\text{V}$ by changing the Data value.
* This changes all the RGB amplitude at the same time. Item no. "2" can be adjusted for G only.
5. Connect an oscilloscope to test point "TP13B" (+) and chassis ground (-).
6. Select Item no. "3" and adjust the amplitude "a" to be $1.35 \pm 0.1\text{V}$ by changing the Data value.
7. Connect an oscilloscope to test point "TP13R" (+) and chassis ground (-).
8. Select Item no. "4" and adjust the amplitude "a" to be $1.35 \pm 0.1\text{V}$ by changing the Data value.

**10 Pedestal adjustment (Video)**

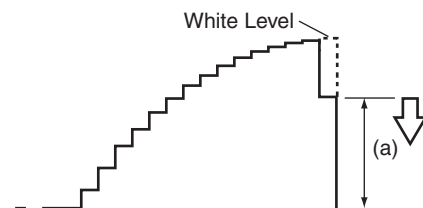
1. Receive the 100%whole-Black composite video signal with **Video** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP531" (+) and chassis ground (-).
4. Select group no. "5", Item no. "11" and adjust the black level to be maximum amplitude by changing the Data value.
5. Connect an oscilloscope to test point "TP501" (+) and chassis ground (-).
6. Select Item no. "12" and adjust the black level to be maximum amplitude by changing the Data value.
7. Connect an oscilloscope to test point "TP561" (+) and chassis ground (-).
8. Select Item no. "13" and adjust the black level to be maximum amplitude by changing the Data value.



Note: This adjustment should be done after A/D Input adjustment [Video].

11 Video Gain adjustment (Video)

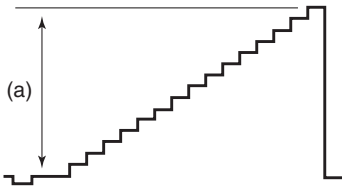
1. Receive the 16-step gray scale video composite signal with **Video** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP531" (+) and chassis ground (-).
4. Select group no. "4", Item no. "3" and adjust the white level to be minimum amplitude by changing the Data value.
5. Connect an oscilloscope to test point "TP501" (+) and chassis ground (-).
6. Select Item no. "4" and adjust the white level to be minimum amplitude by changing the Data value.
7. Connect an oscilloscope to test point "TP561" (+) and chassis ground (-).
8. Select Item no. "5" and adjust the white level to be minimum amplitude by changing the Data value.



12 A/D Input adjustment (Component)

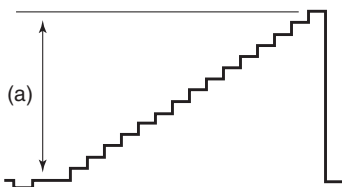
[1080i-A/D INPUT ADJUSTMENT]

1. Receive the 16-step gray scale component signal [1080i] with **Video [Y/Pb,Pr/Cb,Cr]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP13G" (+) and chassis ground (-).
4. Select group no. "3", Item no. "1" and adjust the amplitude "a" to be $1.35 \pm 0.1V$ by changing the Data value.
5. Connect an oscilloscope to test point "TP13B" (+) and chassis ground (-).
6. Select Item no. "3" and adjust the amplitude "a" to be $1.35 \pm 0.1V$ by changing the Data value.
7. Connect an oscilloscope to test point "TP13R" (+) and chassis ground (-).
8. Select Item no. "4" and adjust the amplitude "a" to be $1.35 \pm 0.1V$ by changing the Data value.



[480p-A/D INPUT ADJUSTMENT]

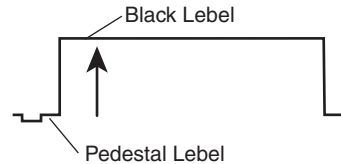
1. Receive the 16-step gray scale component signal [480p] with **Video [Y/Pb,Pr/Cb,Cr]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP13G" (+) and chassis ground (-).
4. Select group no. "3", Item no. "1" and adjust the amplitude "a" to be $1.35 \pm 0.1V$ by changing the Data value.
5. Connect an oscilloscope to test point "TP13B" (+) and chassis ground (-).
6. Select Item no. "3" and adjust the amplitude "a" to be $1.35 \pm 0.1V$ by changing the Data value.
7. Connect an oscilloscope to test point "TP13R" (+) and chassis ground (-).
8. Select Item no. "4" and adjust the amplitude "a" to be $1.35 \pm 0.1V$ by changing the Data value.



13 Pedestal adjustment (Component)

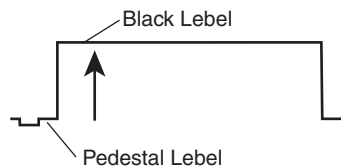
[1080i-PEDESTAL ADJUSTMENT]

1. Receive the 100%whole-Black component signal [1080i] with **Video [Y/Pb,Pr/Cb,Cr]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP531" (+) and chassis ground (-).
4. Select group no. "5", Item no. "11" and adjust the black level to be maximum amplitude by changing the Data value.
5. Connect an oscilloscope to test point "TP501" (+) and chassis ground (-).
6. Select Item no. "12" and adjust the black level to be maximum amplitude by changing the Data value.
7. Connect an oscilloscope to test point "TP561" (+) and chassis ground (-).
8. Select Item no. "13" and adjust the black level to be maximum amplitude by changing the Data value.



[480p-PEDESTAL ADJUSTMENT]

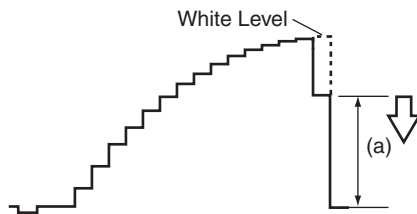
1. Receive the 100%whole-Black component signal [480p] with **Video [Y/Pb,Pr/Cb,Cr]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP531" (+) and chassis ground (-).
4. Select group no. "5", Item no. "11" and adjust the black level to be maximum amplitude by changing the Data value.
5. Connect an oscilloscope to test point "TP501" (+) and chassis ground (-).
6. Select Item no. "12" and adjust the black level to be maximum amplitude by changing the Data value.
7. Connect an oscilloscope to test point "TP561" (+) and chassis ground (-).
8. Select Item no. "13" and adjust the black level to be maximum amplitude by changing the Data value.



Note: These adjustments should be done after A/D Input adjustment [Component].

14 Video Gain adjustment (Component)

1. Receive the 16-step gray scale component signal [1080i] with **Video [Y/Pb,Pr/Cb,Cr]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point “**TP531**” (+) and chassis ground (-).
4. Select group no. “**4**”, Item no. “**3**” and adjust the white level to be minimum amplitude by changing the Data value.
5. Connect an oscilloscope to test point “**TP501**” (+) and chassis ground (-).
6. Select Item no. “**4**” and adjust the white level to be minimum amplitude by changing the Data value.
7. Connect an oscilloscope to test point “**TP561**” (+) and chassis ground (-).
8. Select Item no. “**5**” and adjust the white level to be minimum amplitude by changing the Data value.



15 Luminance adjustment (Video)

1. Receive the 100%whole-white composite video signal with **Video** mode.
2. Enter the service mode.
3. Measure luminance on the screen with the luminance meter. It is **A** for the reading of luminance meter.
4. Change the signal source to the 50%whole-white composite video signal with **Video [Video]** mode.
5. Select group no. “**4**”, Item no. “**6**” and change the Data value to make the reading of luminance meter to be **A x 22%**.

16 Common Center adjustment

1. Receive the 1dot Black/White computer signal with **Computer 1 [Analog RGB]** mode.
2. Enter the service mode.
3. Project only green light component to the screen.
4. Select group no. “**5**”, Item no. “**9**” and change Data value to obtain the minimum flicker on the screen.
5. Project only blue light component to the screen.
6. Select Item no. “**10** and change Data value to obtain the minimum flicker on the screen.
7. Project only red light component to the screen.
8. Select Item no. “**8**” and change Data value to obtain the minimum flicker on the screen.

17 White Balance adjustment

[PC WHITE BALANCE ADJUSTMENT]

1. Receive the 100%-whole white computer signal with **Computer 1 [Analog RGB]** mode.
2. Enter the service mode.
3. Select group no. “**4**”, Item no. “**7**” (Red) or “**8**” (Blue), and change Data values respectively to make a proper white balance.

[AV WHITE BALANCE ADJUSTMENT]

4. Receive the 100%-whole white video signal with **Video** mode.
5. Enter the service mode.
6. Select group no. “**4**”, Item no. “**7**” (Red) or “**8**” (Blue), and change Data values respectively to make a proper white balance.

NOTE ON WHITE UNIFORMITY ADJUSTMENT

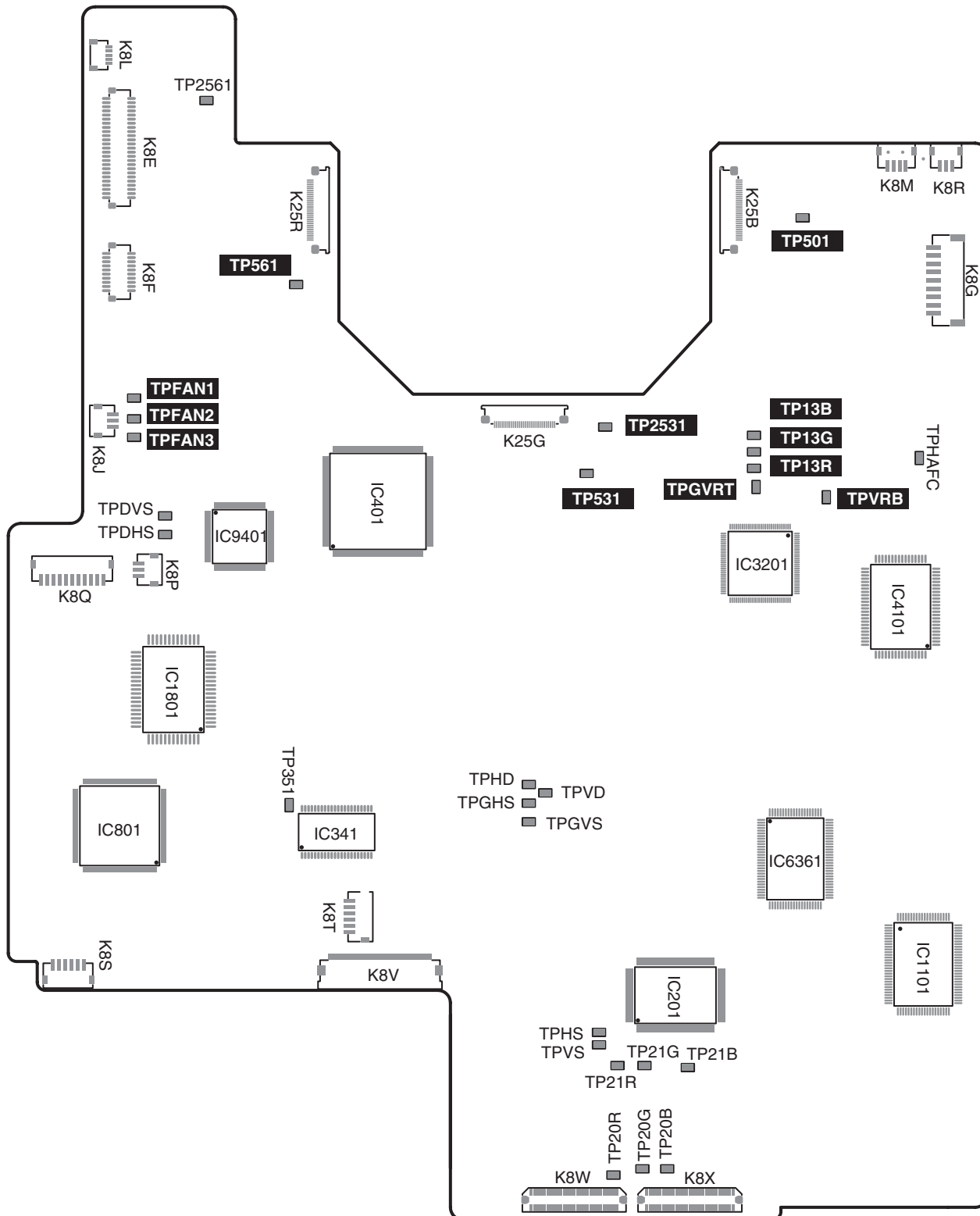
If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software “Color Shading Correction”. The software will be supplied separately and can be ordered as follows;

COLOR SHADING CORRECTION SOFTWARE

Service Parts No. 645 051 2308

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.

No.	Adjustment Item	Initial Value	Range	Input source / Description
Group: 0 TA1318				
0	SEP_LEV	0/0/0/0	0 ~ 3	15KHz/31KHz/28KHz, 33KHz/45KHz
1	HD_PHASE	29/38/36/32/32	0 ~ 63	1080i/720p/480p, 1080i/50i/575i, PAL, SECAM/480i, NTSC
2	V_FREQ	-	-	Read only
3	H_FREQ	-	-	
4	HD_IN	-	-	
Group: 1 uPD64083				
0	NRMD	0	0 ~ 3	
1	HDP	4	0 ~ 7	
2	CDL	4	0 ~ 7	
3	DYCOR	4	0 ~ 15	
4	DYGAIN	15	0 ~ 15	
5	DCCOR	2	0 ~ 15	
6	DCCGAIN	13	0 ~ 15	
7	VAPGAIN	3	0 ~ 15	
8	VAPINV	2	0 ~ 15	
9	YPFT	3	0 ~ 3	
10	YPFG	9	0 ~ 15	
11	V1PSEL	3	0 ~ 3	
12	VEGSEL	3	0 ~ 3	
13	CC3N	0	0 ~ 1	
14	SELD2FH	1	0 ~ 1	
15	SELD1FL	1	0 ~ 1	
16	YHCOR	0	0 ~ 3	
17	HPLLFG	1	0 ~ 1	
18	PLLFS	1	0 ~ 1	
19	KILR	3	0 ~ 15	
20	HSSL	12	0 ~ 15	
21	VSSL	3	0 ~ 15	
22	BGPS	7	0 ~ 15	
23	BGPW	3	0 ~ 15	
Group: 2 TB1274				
0	TINT	32	0 ~ 63	
1	SHP_EQ	2	0 ~ 3	
2	SHP_FO	2	0 ~ 3	
3	SHP_GAIN	4/4/8/8/4/8/8/8	0 ~ 15	VideoNT/ PAL, PALM, PALN/ SECAM, BW50/ NT443/ PAL60/ S-Video/ YCbCr/ Scart
4	Y_OUT_LEVEL	31/32/32/32/32	0 ~ 63	VideoNT/ NT443/ PAL, PALM, PALN/ PAL60/ SECAM, BW
	0.7V	32/32/32/32/32/32/43		S-VideoNT, BW/ NT443/ PAL, PALM, PALN/ PAL60/ SECAM/ YCbCr/ Scart
5	C_OUT_LEVEL	12/12/15/15/22	0 ~ 63	VideoNT/ NT443/ PAL, PALM, PALN/ PAL60/ SECAM, BW
	0.6V	12/12/15/15/22/33/33/11		S-VideoNT, BW/ NT443/ PAL, PALM, PALN/ PAL60/ SECAM/ 480i/575i/ Scart
6	Y_DELAY	5/5/4/4/4	0 ~ 15	Video NT, BW60/ PAL, PALM, PALN, BW50/ SECAM/ NT443/ PAL60
		4/4/3/3/4		S-Video NT, BW60/ PAL, PALM, PALN, BW50/ SECAM/ NT443/ PAL60
7	COL_SYS	-	-	Read only (Data does not changed)
8	XTAL	-	-	
9	NOISE_DET	-	-	
10	V_FREQ	-	-	
11	Vert. Std	-	-	
12	CID	-	-	
13	V_SIG	-	-	
14	MVM	0	0 or 1	
15	AFC_GAIN	1	0 ~ 3	
16	SECAM_GPSECAM_ID	7	0 ~ 15	
17	LPF	1/1	0 or 1	w/o Scart/Scart
Group: 3 CXA2101				
0	BRIGHT	30/25/25	0 ~ 63	NT, PAL, SECAM, NT443, PALM, PALN, 480i, 575i/ 480p, 575p/ 1080i, 1035i, 720p
1	PICTURE	40/45/45	0 ~ 63	NT, PAL, SECAM, NT443, PALM, PALN, 480i, 575i/ 480p, 575p/ 1080i, 1035i, 720p ※ G-A/D Input Gain Adjustment
2	G_DRIVE	30	0 ~ 63	
3	B_DRIVE	30/31/31	0 ~ 63	NT, NT443, PAL, PALM, PALN, 480i, 575i/ 480p, 575p/ 1080i, 1035i, 720p ※ B-A/D Input Gain Adjustment
4	R_DRIVE	30/31/31	0 ~ 63	NT, NT443, PAL, PALM, PALN, 480i, 575i/ 480p, 575p/ 1080i, 1035i, 720p ※ R-A/D Input Gain Adjustment
5	HSEP_SEL	1	0 ~ 1	
6	CR_OFFSET1	7	0 ~ 15	
7	CB_OFFSET1	7	0 ~ 15	
8	BLK_BOTTOM	15	0 ~ 15	
9	R-Y/R	12/13/6/6	0 ~ 15	NT, NT443, 480i, 480p/ PAL, PALM, PALN, PAL60, SECAM, 575i, 575p/ 1035i/ 1080i, 720p
10	R-Y/B	12/15/5/5	0 ~ 15	
11	G-Y/R	12/12/8/8	0 ~ 15	
12	G-Y/B	5/4/10/10	0 ~ 15	
13	MAT_OUT	0/0/0/1	0 ~ 3	
14	SYSTEM	0/1/2/2	0 ~ 3	NT, NT443, PAL, PALM, PALN, SECAM, 480i, 575i/ 480p, 575p/ 1080i60, 1035i, 720p/ 1080i50
15	V_TC	2/1/1/0	0 ~ 3	
16	H_WIDTH	2/1/1/0	0 ~ 3	
17	HD_TC	1/1/0/0	0 ~ 1	
18	HS_MASK	0/1/1/1	0 ~ 1	
19	CTI_LEVEL	2/1/1/0/0	0 ~ 3	NT, NT443, PAL, PALM, PALN, SECAM/ 480i, 575i/ 480p, 575p/ 1080i60, 1035i, 720p/ 1080i50
20	SUB_SHP	2/2/1/1	0 ~ 3	NT, NT443, PAL, SECAM, PALM, PALN, 480i, 575i/ 480p, 575p/ 1080i60, 1035i, 720p/ 1080i50
21	SHP_FO	3/3/3/3	0 ~ 3	
22	PRE_OVER	2/3/0/0	0 ~ 3	

Electrical Adjustments

No.	Adjustment Item	Initial Value	Range	Input source / Description
23	LTI_LEVEL	1/1/0/0	0 ~ 3	NT,NT443,PAL,SECAM,PALM,PALN,480i,575i/ 480p,575p / 1080i60,1035i,720p/ 1080i50
24	D_PIC	0/0/1/1	0 ~ 3	NT,NT443,PAL,SECAM,PALM,PALN,480i,575i/ 480p,575p / 1080i60,1035i,720p/ 1080i50
25	HUE	31/31/31	0 ~ 63	PAL, PALM, PALN, PAL60, SECAM/ 575i, 575p, only possible to adjust in these mode
26	SUB_COL	7/7/7/8/6/9	0 ~ 15	NT,NT443/PAL, PALM, PALN, PAL60, SECAM/480i,480p/575i,575p/1035i/1080i,720p
27	SUB_HUE	7/7/8/7/9/6	0 ~ 15	NT,NT443/PAL, PALM, PALN, PAL60, SECAM/480i,480p/575i,575p/1035i/1080i,720p
28	CINEMA CTI_LEVEL	0		
29	CINEMA LTI_LEVEL	0		
Group: 4 L3E07050				
0	G_SUB_BRT	0/0	0 ~ 1023	PC/DVI,AV_502
1	B_SUB_BRT	0/0	0 ~ 1023	_902
2	R_SUB_BRT	0/0	0 ~ 1023	_102
3	G_SUB_GAIN	367/390/300/420	0 ~ 1023	PC/AV/DVI/HD_501
4	B_SUB_GAIN	367/390/300/420	0 ~ 1023	Data of Gamma at point 980 is set 500 temporary when entering the mode. _901
5	R_SUB_GAIN	367/390/300/420	0 ~ 1023	_101
6	Standard G GAMMA SHIFT	350/390 390/390	0 ~ 1023	_503 PC,DVI std/AV StdCenter 512 * Change RGB data at same time when changing G. *
7	Standard B GAMMA SHIFT	350/390 390/390	0 ~ 1023	_903 PC,DVI std/AV Std Center 512
8	Standard R GAMMA SHIFT	350/390 390/390	0 ~ 1023	_103 PC,DVI std/AV Std Center 512
9	Standard GAMMA 0	0/0	0 ~ 1023	
10	Standard GAMMA 1	150/140	0 ~ 1023	PC,DVI Standard / AV Standard
11	Standard GAMMA 2	253/245	0 ~ 1023	Read only
12	Standard GAMMA 3	359/367	0 ~ 1023	
13	Standard GAMMA 4	448/460	0 ~ 1023	
14	Standard GAMMA 5	524/522	0 ~ 1023	
15	Standard GAMMA 6	598/599	0 ~ 1023	
16	Standard GAMMA 7	643/645	0 ~ 1023	
17	Standard GAMMA 8	680/680	0 ~ 1023	
18	Standard GAMMA 9	708/708	0 ~ 1023	
19	Standard GAMMA 10	736/735	0 ~ 1023	
20	Standard GAMMA 11	766/764	0 ~ 1023	
21	Standard GAMMA 12	801/796	0 ~ 1023	
22	Standard GAMMA 13	844/840	0 ~ 1023	
23	Standard GAMMA 14	920/885	0 ~ 1023	
24	Standard GAMMA 15	1023/980	0 ~ 1023	
25	Real/Cinema G GAMMA SHIFT	506/506	0 ~ 1023	_503 Difference PC,DVI Real / AV Cinema(Difference from Standard)
26	Real/Cinema B GAMMA SHIFT	502/502	0 ~ 1023	_903 Difference
27	Real/Cinema R GAMMA SHIFT	512/512	0 ~ 1023	_103 Difference
28	Real/Cinema GAMMA 0	512/512	0 ~ 1023	
29	Real/Cinema GAMMA 1	528/527	0 ~ 1023	PC,DVI Real / AV Cinema(Difference from Standard)
30	Real/Cinema GAMMA 2	527/521	0 ~ 1023	
31	Real/Cinema GAMMA 3	525/519	0 ~ 1023	
32	Real/Cinema GAMMA 4	523/516	0 ~ 1023	
33	Real/Cinema GAMMA 5	519/215	0 ~ 1023	
34	Real/Cinema GAMMA 6	515/510	0 ~ 1023	
35	Real/Cinema GAMMA 7	510/208	0 ~ 1023	
36	Real/Cinema GAMMA 8	505/508	0 ~ 1023	
37	Real/Cinema GAMMA 9	503/503	0 ~ 1023	
38	Real/Cinema GAMMA 10	501/501	0 ~ 1023	
39	Real/Cinema GAMMA 11	499/499	0 ~ 1023	
40	Real/Cinema GAMMA 12	496/496	0 ~ 1023	
41	Real/Cinema GAMMA 13	492/492	0 ~ 1023	
42	Real/Cinema GAMMA 14	488/488	0 ~ 1023	
43	Real/Cinema GAMMA 15	512/512	0 ~ 1023	
44	r_mid2_level	464	0 ~ 1023	C9D
45	r_mid1_level	560	0 ~ 1023	C9E
46	r_max_level	632	0 ~ 1023	C9F
47	g_mid2_level	464	0 ~ 1023	CA1
48	g_mid1_level	560	0 ~ 1023	CA2
49	g_max_level	632	0 ~ 1023	CA3
50	b_mid2_level	464	0 ~ 1023	CA5
51	b_mid1_level	560	0 ~ 1023	CA6
52	b_max_level	632	0 ~ 1023	CA7
53	Correction for Vertical line R2	0	0 ~ 255	C48
54	Correction for Vertical line G2	0	0 ~ 255	C4D
55	Correction for Vertical line B2	0	0 ~ 255	C52
56	Coorection for R-ghost	8	0 ~ 2047	C58
57	Coorection for G-ghost	8	0 ~ 2047	C58
58	Coorection for B-ghost	8	0 ~ 2047	C58
Group: 5 DAC				
0	G_VIDEO_CENTER	120	0 ~ 255	dac1
1	B_VIDEO_CENTER	120	0 ~ 255	dac1
2	R_VIDEO_CENTER	120	0 ~ 255	dac1
3	REF_G	60	0 ~ 255	dac1
4	REF_B	60	0 ~ 255	dac1
5	REF_R	60	0 ~ 255	dac1
6	NRSB	160	0 ~ 255	NRSB
7	NRSA	40	0 ~ 255	NRSA
8	G_V_COM	55	0 ~ 255	dac2
9	B_V_COM	55	0 ~ 255	dac2
10	R_V_COM	55	0 ~ 255	dac2
11	G_CLMP	90 / 95	0 ~ 255	PC/AV
12	B_CLMP	90 / 95	0 ~ 255	It differs the control port in PC and AV
13	R_CLMP	90 / 95	0 ~ 255	
14	G_BLK_DC	80/80/80	0 ~ 255	AV Pedestal Adjustment video/1080i,1035i,720p/480p,525p
15	B_BLK_DC	80/80/80	0 ~ 255	AV Pedestal Adjustment video/1080i,1035i,720p/480p,525p

Electrical Adjustments

No.	Adjustment Item	Initial Value	Range	Input source / Description
16	R_BLK_DC	80/80/80	0 ~ 255	AV Pedestal Adjustment video/1080i, 1035i, 720p/480p, 525p
17	VRB	115	0 ~ 255	dac3 ※ A/D Ref Voltage Adjustment [BOTTOM]
18	GVRT	130	0 ~ 255	dac2 ※ A/D Ref Voltage Adjustment [TOP]
19	BVRT	130	0 ~ 255	dac2
20	RVRT	130	0 ~ 255	dac2
21	R_V_COM_CEILING	0	0 ~ 255	dac2 R-common center adjustment, deferential value at Ceiling On (0: ±0, 1: +1, 255: -1)
22	G_V_COM_CEILING	0	0 ~ 255	dac2 G-common center adjustment, deferential value at Ceiling On (0: ±0, 1: +1, 255: -1)
23	B_V_COM_CEILING	0	0 ~ 255	dac2 B-common center adjustment, deferential value at Ceiling On (0: ±0, 1: +1, 255: -1)
24	NRSB_CEILING	0	0 ~ 255	NRSB, deferential value at Ceiling On (0: ±0, 1: +1, 255: -1)
25	NRSA_CEILING	0	0 ~ 255	NRSA, deferential value at Ceiling On (0: ±0, 1: +1, 255: -1)
Group: 6 TC90A69F				
0	Y-EQ_GAIN	3	0 ~ 3	
1	Y-EQ_N_C_LIM	3	0 ~ 3	
2	V-ENH_GAIN	4	0 ~ 7	
3	V_ENH_CORING	2	0 ~ 3	
4	NTSC443_SW	1	0 ~ 1	Set for input signal system 0:NTSC4.431:PAL60 (It is effective when input signal is NTSC4.43)
Group: 10 Option				
0	Lamp Time Monitor	-	0~8738	Read only
1	RS232C Baudrate	0	0 ~ 1	0: 19200bps1: 9600bps
2	Shootout Mode	0	0 ~ 1	1: Shoot Out Mode Enable0: Disable
3	Cooling Time	3	0 ~ 15	Cooling time setting 1:30 sec. 3:90 sec. 15:450 sec. 0:continuously On
4	Hi-Land SW	0	0 ~ 255	0: Land mode(Normal operation) 1: High-land mode(Fan spinning in max speed)
5	V-Douki SW	0	0 ~ 1	0:V synchronized1:V not synchronized
6	Lamp Total Time	-	0-65535	Read only
7	--			
8	Keystone Option	0	0 ~ 1	0:Fixed limitation 1:Change limitation according to input signal
9	Syukka SW	0	0 ~ 10	Reset user control value when the data changes to 10 and turns to 0.
10	Color Shading SW	1	0 ~ 1	0:On 1:Off
11	RC Enable/Disable	0	0 ~ 3	0: Activate both Front and Rear RC 1:Prohibition-Front 2:Prohibition-Front 3:Deactivate both Front and Rear RC
12	Lamp Dim Level	0	0 ~ 10	0: Maximum (250W)10:Minimum(200W)
13	Lamp Warning Time	1000	0-65535	in hours, can not be changed
14	Forced NOBRAND	0	0 ~ 1	0:Normal 1:On
15	Forced Video Mute Off	0	0 ~ 1	0:VideoMuteOn(Normal) 1:Forced VideoMuteOff
16	Fan Control SW for Testing	0	0 ~ 4	0: Normal, 1: Normal Min., 2: NormalMax., 3: Eco Min., 4: Eco Max. but not be memorized
Group: 11 Fan Control				
0	FAN_TEMP_A_WARNING	47	30 ~ 100	Temperature A to judge the abnormal (Not memorized) Room
1	FAN_TEMP_B_WARNING	55	30 ~ 100	Temperature B to judge the abnormal (Not memorized) Panel
2	FAN_TEMP_C_WARNING	67	30 ~ 100	Temperature C to judge the abnormal (Not memorized)lamp
3	FAN_TEMP_B-A_WARNING	20	0 ~ 100	Temperature B-A to judge the abnormal (Not memorized) Detection of filter croggle
4	FAN_TEMP_C-A_WARNING	35	0 ~ 100	Temperature C-A to judge the abnormal (Not memorized) Detection of filter croggle
5	FAN_CONTROL_SW	0	0 or 1	0:Fan Control automatically 1:Fan Control Manually ※ FAN Voltage Adjustment
6	FAN_A_SPEED	-	0 ~ 255	Only effective when FAN_CONTROL_SW = 1
7	FAN_B_SPEED	-	0 ~ 255	Initial Normal/Eco
8	FAN_C_SPEED	-	0 ~ 255	
9	FAN_TEMP_A_MONI	-	-	Read only
10	FAN_TEMP_B_MONI	-	-	
11	FAN_TEMP_C_MONI	-	-	
12	FAN_ANZEN_MINMAX	1	0 or 1	Only effective when FAN_CONTROL_SW=1, it can be used with10-12 but not be memorized.
13	TEMP_NOWARNING_TIME	0	0 ~ 5	Do not detect temp error within specified time after turn on.
14	NOR_TEMP_FAN1_MIN	27	0-255	FAN1 temperature to start the control, Normal
15	NOR_TEMP_FAN1_MAX	35		FAN1 temperature to end the control, Normal
16	NOR_TEMP_FAN2_MIN	27		FAN2 temperature to start the control, Normal
17	NOR_TEMP_FAN2_MAX	35		FAN2 temperature to end the control, Normal
18	NOR_TEMP_FAN3_MIN	27		FAN3 temperature to start the control, Normal
19	NOR_TEMP_FAN3_MAX	35		FAN3 temperature to end the control, Normal
20	NOR_VALU_FAN1_MIN	60	0-255	FAN1 control minimum value, Normal(0: Fan voltage 0V, 255:Fan voltage 25.5V)
21	NOR_VALU_FAN1_MAX	135		FAN1 control maximum value, Normal
22	NOR_VALU_FAN2_MIN	60		FAN2 control minimum value, Normal
23	NOR_VALU_FAN2_MAX	135		FAN2 control maximum value, Normal
24	NOR_VALU_FAN3_MIN	60		FAN3 control minimum value, Normal
25	NOR_VALU_FAN3_MAX	120		FAN3 control maximum value, Normal
26	ECO_TEMP_FAN1_MIN	27	0-255	FAN1 temperature to start the control, Eco
27	ECO_TEMP_FAN1_MAX	35		FAN1 temperature to end the control, Eco
28	ECOTEMP_FAN2_MIN	27		FAN2 temperature to start the control, Eco
29	ECO_TEMP_FAN2_MAX	35		FAN2 temperature to end the control, Eco
30	ECO_TEMP_FAN3_MIN	27		FAN3 temperature to start the control, Eco
31	ECO_TEMP_FAN3_MAX	35		FAN3 temperature to end the control, Eco
32	ECO_VALU_FAN1_MIN	55	0-255	FAN1 control minimum value, Eco
33	ECO_VALU_FAN1_MAX	120		FAN1 control maximum value, Eco
34	ECO_VALU_FAN2_MIN	70		FAN2 control minimum value, Eco
35	ECO_VALU_FAN2_MAX	100		FAN2 control maximum value, Eco
36	ECO_VALU_FAN3_MIN	55		FAN3 control minimum value, Eco
37	ECO_VALU_FAN3_MAX	100		FAN3 control maximum value, Eco
38	HINOR_TEMP_FAN1_MIN	22	0-255	FAN1 temperature to start the control, HighLand Normal
39	HINOR_TEMP_FAN1_MAX	30		FAN1 temperature to end the control, HighLand Normal22
40	HINOR_TEMP_FAN2_MIN	22		FAN2 temperature to start the control, HighLand Normal
41	HINOR_TEMP_FAN2_MAX	30		FAN2 temperature to end the control, HighLand Normal
42	HINOR_TEMP_FAN3_MIN	22		FAN3 temperature to start the control, HighLand Normal
43	HINOR_TEMP_FAN3_MAX	30		FAN3 temperature to end the control, HighLand Normal
44	HINOR_VALU_FAN1_MIN	90	0-255	FAN1 control minimum value, HighLand Normal (0: Fan voltage 0V, 255:Fan voltage 25.5V)
45	HINOR_VALU_FAN1_MAX	138		FAN1 control maximum value, HighLand Normal

Electrical Adjustments

No.	Adjustment Item	Initial Value	Range	Input source / Description
46	HINOR_VALU_FAN2_MIN	90	0~255	FAN2 control minimum value, HighLand Normal
47	HINOR_VALU_FAN2_MAX	138		FAN2 control maximum value, HighLand Normal
48	HINOR_VALU_FAN3_MIN	75		FAN3 control minimum value, HighLand Normal
49	HINOR_VALU_FAN3_MAX	120	0~255	FAN3 control maximum value, HighLand Normal
50	HIECO_TEMP_FAN1_MIN	22		FAN1 temperature to start the control, HighLand Eco
51	HIECO_TEMP_FAN1_MAX	30		FAN1 temperature to end the control, HighLand Eco
52	HIECOTEMP_FAN2_MIN	22		FAN2 temperature to start the control, HighLand Eco
53	HIECO_TEMP_FAN2_MAX	30		FAN2 temperature to end the control, HighLand Eco
54	HIECO_TEMP_FAN3_MIN	22		FAN3 temperature to start the control, HighLand Eco
55	HIECO_TEMP_FAN3_MAX	30	0~255	FAN3 temperature to end the control, HighLand Eco
56	HIECO_VALU_FAN1_MIN	65		FAN1 control minimum value, HighLand Eco
57	HIECO_VALU_FAN1_MAX	130		FAN1 control maximum value, HighLand Eco
58	HIECO_VALU_FAN2_MIN	60		FAN2 control minimum value, HighLand Eco
59	HIECO_VALU_FAN2_MAX	110		FAN2 control maximum value, HighLand Eco
60	HIECO_VALU_FAN3_MIN	65		FAN3 control minimum value, HighLand Eco
61	HIECO_VALU_FAN3_MAX	110	0~255	FAN3 control maximum value, HighLand Eco
62	CLNOR_TEMP_FAN1_MIN	27		FAN1 temperature to start the control, Ceiling Normal
63	CLNOR_TEMP_FAN1_MAX	35		FAN1 temperature to end the control, Ceiling Normal
64	CLNOR_TEMP_FAN2_MIN	27		FAN2 temperature to start the control, Ceiling Normal
65	CLNOR_TEMP_FAN2_MAX	35		FAN2 temperature to end the control, Ceiling Normal
66	CLNOR_TEMP_FAN3_MIN	27		FAN3 temperature to start the control, Ceiling Normal
67	CLNOR_TEMP_FAN3_MAX	35	0~255	FAN3 temperature to end the control, Ceiling Normal
68	CLNOR_VALU_FAN1_MIN	60		FAN1 control minimum value, Ceiling Normal (0: Fan voltage 0V, 255:Fan voltage 25.5V)
69	CLNOR_VALU_FAN1_MAX	135		FAN1 control maximum value, Ceiling Normal
70	CLNOR_VALU_FAN2_MIN	60		FAN2 control minimum value, Ceiling Normal
71	CLNOR_VALU_FAN2_MAX	135		FAN2 control maximum value, Ceiling Normal
72	CLNOR_VALU_FAN3_MIN	70		FAN3 control minimum value, Ceiling Normal
73	CLNOR_VALU_FAN3_MAX	120	0~255	FAN3 control maximum value, Ceiling Normal
74	CLECO_TEMP_FAN1_MIN	27		FAN1 temperature to start the control, Ceiling Eco
75	CLECO_TEMP_FAN1_MAX	35		FAN1 temperature to end the control, Ceiling Eco
76	CLECOTEMP_FAN2_MIN	27		FAN2 temperature to start the control, Ceiling Eco
77	CLECO_TEMP_FAN2_MAX	35		FAN2 temperature to end the control, Ceiling Eco
78	CLECO_TEMP_FAN3_MIN	27		FAN3 temperature to start the control, Ceiling Eco
79	CLECO_TEMP_FAN3_MAX	35	0~255	FAN3 temperature to end the control, Ceiling Eco
80	CLECO_VALU_FAN1_MIN	55		FAN1 control minimum value, Ceiling Eco
81	CLECO_VALU_FAN1_MAX	120		FAN1 control maximum value, Ceiling Eco
82	CLECO_VALU_FAN2_MIN	70		FAN2 control minimum value, Ceiling Eco
83	CLECO_VALU_FAN2_MAX	100		FAN2 control maximum value, Ceiling Eco
84	CLECO_VALU_FAN3_MIN	60		FAN3 control minimum value, Ceiling Eco
85	CLECO_VALU_FAN3_MAX	100	0~255	FAN3 control maximum value, Ceiling Eco
86	FAN1_ADJUST_VOLT_MIN	13		FAN1 DAC adjustment value at minimum drive voltage
87	FAN1_ADJUST_VOLT_MAX	245		FAN1 DAC adjustment value at maximum drive voltage
88	FAN2_ADJUST_VOLT_MIN	13		FAN2 DAC adjustment value at minimum drive voltage
89	FAN2_ADJUST_VOLT_MAX	245		FAN2 DAC adjustment value at maximum drive voltage
90	FAN3_ADJUST_VOLT_MIN	13		FAN3 DAC adjustment value at minimum drive voltage
91	FAN3_ADJUST_VOLT_MAX	245		FAN3 DAC adjustment value at maximum drive voltage
Group: 12 PC Real / AV Cinema				
0	PC Real Contrast	32	0 ~ 63	
1	PC Real Brightness	32	0 ~ 63	
2	PC Real Red	32	0 ~ 63	
3	PC Real Green	30	0 ~ 63	
4	PC Real Blue	29	0 ~ 63	
5	PC Real Gamma	8	0 ~ 15	
6	AV Cinema Contrast	32	0 ~ 63	
7	AV Cinema Brightness	32	0 ~ 63	
8	AV Cinema Color	32	0 ~ 63	
9	AV Cinema Tint	32	0 ~ 63	
10	AV Cinema Red	32	0 ~ 63	
11	AV Cinema Green	30	0 ~ 63	
12	AV Cinema Blue	29	0 ~ 63	
13	AV Cinema Sharpness	15	0 ~ 31	
14	AV Cinema Gamma	8	0 ~ 15	
15	AV Cinema N.R.	1	0 or 2	
16	AV Cinema PROGRESSIVE	1	0 or 1	
Group: 20 IP Conversion				
0	IMAGE_IN_FUNC_POL	0/0/0/0/0/0/0	0 or 1	000-b4 (reg 0)NTSC/PAL/480p/575p/1035i/1080i,1080i50/720p/480i/575i
1	IMAGE_IN_HD_SEL	1/1/1/1/1/1/1	0 or 1	000-b3
2	IMAGE_IN_HD_POL	1/1/1/1/1/1/1	0 or 1	000-b2
3	IMAGE_IN_VD_POL	1/1/1/1/1/1/1	0 or 1	000-b1
4	IMAGE_IN_LPF_SEL	0/0/0/0/0/0/0	0 or 1	000-b0
5	IMAGE_OUT_CLK_POL	0/0/0/0/0/0/0	0 or 1	001-b5
6	IMAGE_OUT_HD_POL	0/0/0/0/0/0/0	0 or 1	001-b4
7	IMAGE_OUT_VD_POL	0/0/0/0/0/0/0	0 or 1	001-b3
8	IMAGE_OUT_CS_SEL	0/0/0/0/0/0/0	0 or 1	001-b2
9	IMAGE_OUT_DEMUX	1/1/1/1/1/1/1	0 or 1	001-b1
10	IMAGE_OUT_THROUGH	0/0/1/1/1/1/0/0	0 or 1	001-b0
11	IMAGE_IN_TOTAL_H	Same as G510-G517	0 ~ 2047	002/003 Read only
12	IMAGE_IN_START_H	54/55/76/74 78/78/76/54/73	0 ~ 2047	004/005
13	IMAGE_IN_SIZE_H	10/10/10/10/9/9/11/10/10	0 ~ 15	006 Read only
14	IMAGE_IN_START_V	15/21/30/38 35/16/22/15/2	0 ~ 1023	007/008

Electrical Adjustments

No.	Adjustment Item	Initial Value	Range	Input source / Description
15	IMAGE_IN_SIZE_V,	249/293/488/ 587/545/545/ 725/249/293	0 ~ 1023	009/010
16	CLAMP_H,	1260/1310/88/94 30/30/62/76/80	0 ~ 2047	011/012
17	CLAMP_L,	186/224/130/162 55/55/205/180/216	0 ~ 2047	013/014
18	IMAGE_OUT_DELAY_H,	352/330/803/ 793/743/743/ 902/352/366	0 ~ 2047	015/016 Read only
19	SYNC_OUT_DELAY_H,	500/512/941/ 937/772/772/ 1098/492/523	0 ~ 2047	017/018 Read only
20	SYNC_OUT_DELAY_V,	50/65/102/100/83/47/54/50/65	0 ~ 2047	019/020 Read only
21	IMAGE_OUT_START_H,	0	0	0 Fixed
22	IMAGE_OUT_END_H,	2047	2047	2047 Fixed
23	IMAGE_OUT_START_V,	0/0/0/0/ 0/0/0/0/0	0 ~ 2047	025/026
24	IMAGE_OUT_END_V,	517/618/1038/ 1250/1119/1119/ 1490/517/618	0 ~ 2047	027/028
25	G_Y_IN_OS,	0	0 ~ 255	029(reg 1)fixed
26	B_CB_IN_OS,	0	0 ~ 255	030
27	R_CR_IN_OS,	0	0 ~ 255	031
28	G2Y,	150/183	0 ~ 1023	032/033 (reg 2)NTSC,PAL,480p,575p / 1035i,1080i,1080i50,720p
29	B2Y,	29/19	0 ~ 1023	034/035
30	R2Y,	77/54	0 ~ 1023	036/037
31	G2CB,	939/925	0 ~ 1023	038/039
32	B2CB,	128/128	0 ~ 1023	040/041
33	R2CB,	981/995	0 ~ 1023	042/043
34	G2CR,	917/908	0 ~ 1023	044/045
35	B2CR,	1003/1012	0 ~ 1023	046/047
36	R2CR,	128/128	0 ~ 1023	048/049
37	HUE_M,	37/35	0 ~ 255	050
38	GAIN_M,	0/0	0 ~ 127	051
39	DG_M_R,	0/0	0 ~ 63	052
40	HUE_R,	77/73	0 ~ 255	053
41	GAIN_R,	0/0	0 ~ 127	054
42	DG_R_Y,	0/0	0 ~ 63	055
43	HUE_Y,	121/124	0 ~ 255	056
44	GAIN_Y,	0/0	0 ~ 127	057
45	DG_Y_G,	0/0	0 ~ 63	058
46	HUE_G,	165/163	0 ~ 255	059
47	GAIN_G,	0/0	0 ~ 127	060
48	DG_G_C,	0/0	0 ~ 63	061
49	HUE_C,	205/201	0 ~ 255	062
50	GAIN_C,	0/0	0 ~ 127	063
51	DG_C_B,	0/0	0 ~ 63	064
52	HUE_B,	249/	0 ~ 255	065
53	GAIN_B,	0/0	0 ~ 127	066
54	DG_B_M,	0/0	0 ~ 63	067
55	DNR_Y_NOISE_TH,	8/8	0 ~ 127	068 (reg 3)DNR-OFF / DNR-ON
56	DNR_Y SENSE,	0/6	0 ~ 15	069
57	DNR_Y MOTION_TH,	0/0	0 ~ 127	070
58	DNR_Y MOTION_SLOPE,	4/4	0 ~ 7	071
59	DNR_Y MOTION_F2_F0,	0/0	0 ~ 3	072
60	DNR_Y MOTION_F4_F2,	3/3	0 ~ 3	073
61	DNR_C_NOISE_TH,	8/8	0 ~ 127	074
62	DNR_C SENSE,	0/6	0 ~ 15	075
63	DNR_C MOTION_TH,	0/0	0 ~ 127	076
64	DNR_C MOTION_SLOPE,	4/4	0 ~ 7	077
65	DNR_C MOTION_F2_F0,	0/0	0 ~ 3	078
66	DNR_C MOTION_F4_F2,	3/3	0 ~ 3	079
67	IP_DEBUG,	0/0/0	0 ~ 7	080 (reg 4)IP-ON=NTSC,PAL,1035i,1080i,1080i50 / 720p,480p,575p / IP-OFF
68	IP_CTL_Y,	0/1/1	0 or 1	081-1
69	IP_CTL_C,	1/1/1	0 or 1	081-0
70	IP_DIR,	10/0/0	0 ~ 15	082 (reg 5)IP-ON=NTSC,PAL /IP-ON=720p,480p,575p,1035i,1080i,1080i50 / IP-OFF
71	IP VAR GAI,	8/0/0	0 ~ 15	083
72	IP_BPF CORR,	4/0/0	0 ~ 255	084
73	IP_BPF_GAIN,	32/0/0	0 ~ 63	085
74	IP_REL_H_GAIN,	63/0/0	0 ~ 63	086
75	IP_REL_V_GAIN,	63/0/0	0 ~ 63	087
76	MOTION_LPF_SEL,	7/7/7/7/7/7/7	0 ~ 7	088 (reg 6)DNR-ON=NTSC,PAL/DNR-OFF=NTSC,PAL/1035i,1080i,1080i50/720p,480p,575p
77	MOTION_TH_MIN,	8/8/8/22/22/22/22	0 ~ 255	089 /L2&&DNR-ON =NT,PAL/L2&&DNR-OFF=NT,PAL/L2=1035i,1080i,1080i50/L2=720p,480p,575p
78	MOTION_TH_MAX,	16/16/16/38/38/38/38	0 ~ 255	090
79	MOTION_TH_DL,	8/12/8/8/12/8/8	0 ~ 255	091
80	MOTION_WEIGHT_0,	9/9/9/9/9/9/9	0 ~ 15	092
81	MOTION_WEIGHT_1,	8/8/8/8/8/8/8	0 ~ 15	093
82	MOTION_WEIGHT_2,	7/7/7/7/7/7/7	0 ~ 15	094
83	MOTION_WEIGHT_3,	6/6/6/6/6/6/6	0 ~ 15	095
84	MOTION_WEIGHT_4,	5/5/5/5/5/5/5	0 ~ 15	096
85	MOTION_WEIGHT_5,	4/4/4/4/4/4/4	0 ~ 15	097
86	MOTION_WEIGHT_6,	3/3/3/3/3/3/3	0 ~ 15	098
87	MOTION_WEIGHT_7,	2/2/2/2/2/2/2	0 ~ 15	099

Electrical Adjustments

No.	Adjustment Item	Initial Value	Range	Input source / Description
88	MOTION_WEIGHT_8,	1/1/1/1/1/1/1	0 ~ 15	100
89	MOTION_SUM_0,	20/20/0/0/20/20/0/0	0 ~ 1023	101
90	MOTION_SUM_1,	32/32/9/9/32/32/9/9	0 ~ 1023	103
91	MOTION_SUM_2,	86/86/0/0/86/86/0/0	0 ~ 1023	105
92	MOTION_SUM_3,	110/110/63/63/110/110/63/63	0 ~ 1023	107
93	PEAK_V_LPF_SEL,	1	0 or 1	109 (reg 7)fix
94	PEAK_V_CORR,	4	0 ~ 255	110
95	PEAK_V_GAIN,	6	0 ~ 63	111
96	PEAK_V_GAIN_TH,	0	0 ~ 255	112
97	PEAK_V_GAIN_SLOPE,	0	0 ~ 7	113
98	PEAK_V_MAX,	255	0 ~ 255	114
99	TI_Y_TH_MIN,	0	0 ~ 255	115
100	TI_Y_TH_MAX,	0	0 ~ 255	116
101	TI_Y_CORR,	0	0 ~ 255	117
102	TI_Y_GAIN,	0	0 ~ 63	118
103	TI_Y_GAIN_TH,	0	0 ~ 255	119
104	TI_Y_GAIN_SLOPE,	0	0 ~ 7	120
105	TI_Y_GAIN_SEL,	0	0 ~ 7	121
106	TI_C_TH_MIN,	0	0 ~ 255	122
107	TI_C_TH_MAX,	0	0 ~ 255	123
108	TI_C_CORR,	0	0 ~ 255	124
109	TI_C_GAIN,	0	0 ~ 63	125
110	TI_C_GAIN_TH,	0	0 ~ 255	126
111	TI_C_GAIN_SLOPE,	0	0 ~ 7	127
112	TI_C_GAIN_SEL,	0	0 ~ 7	128
113	PEAK_H_BPF_SEL,	2/0	0 ~ 3	129(reg 8)NTSC,PAL / except NT,PAL
114	PEAK_H_CORR,	4/4	0 ~ 255	130
115	PEAK_H_GAIN,	6/0	0 ~ 63	131
116	PEAK_H_GAIN_TH,	0/0	0 ~ 255	132
117	PEAK_H_GAIN_SLOPE,	3/0	0 ~ 7	133
118	PEAK_H_GAIN_SEL,	1/0	0 ~ 3	134
119	PEAK_H_MAX,	255/255	0 ~ 255	135
120	Y2G,	256/256	0 ~ 1023	136/137(reg 9)NTSC,PAL,480p,575p / 1035i,1080i,1080i50,720p
121	CB2G,	936/976	0 ~ 1023	138/139
122	CR2G,	841/904	0 ~ 1023	140/141
123	Y2B,	256/256	0 ~ 1023	142/143
124	CB2B,	454/475	0 ~ 1023	144/145
125	CR2B,	0/0	0 ~ 1023	146/147
126	Y2R,	256/256	0 ~ 1023	148/149
127	CB2R,	0/0	0 ~ 1023	150/151
128	CR2R,	359/403	0 ~ 1023	152/153
129	G_Y_OUT_OS,	0	0 ~ 255	154 (reg A)fixed
130	G_Y_OUT_MIN,	0	0 ~ 255	155
131	G_Y_OUT_DC,	16	0 ~ 255	156
132	G_Y_OUT_MAX,	255	0 ~ 255	157
133	B_CB_OUT_OS,	0	0 ~ 255	158
134	B_CB_OUT_MIN,	0	0 ~ 255	159
135	B_CB_OUT_DC,	16	0 ~ 255	160
136	B_CB_OUT_MAX,	255	0 ~ 255	161
137	R_CR_OUT_OS,	0	0 ~ 255	162
138	R_CR_OUT_MIN,	0	0 ~ 255	163
139	R_CR_OUT_DC,	16	0 ~ 255	164
140	R_CR_OUT_MAX,	255	0 ~ 255	165
141	CINEMA_START_H,	0/0/0	0 ~ 255	166 (reg B)IP-ON=NTSC /except IP-ON=NT / IP-OFF
142	CINEMA_SIZE_H,	160/0/0	0 ~ 255	167
143	CINEMA_START_V,	1/0/0	0 ~ 255	168
144	CINEMA_SIZE_V,	60/0/0	0 ~ 255	169
145	CINEMA_MOTION_TH,	16/0/0	0 ~ 255	170:limited value is 10 (cinema identify sense)
146	CINEMA_DET_TH,	384/0/0	0 ~ 65535	171:1024 limited value
147	CINEMA_DET_FIELD,	7/0/0	0 ~ 7	173
148	CINEMA_CTL_SWAP,	20/0/0	0 ~ 31	174
149	CINEMA_CTL_Y,	0/1/1	0 or 1	175-1
150	CINEMA_CTL_C,	1/1/1	0 or 1	175-0
151	EXT_CINEMA_DET,	0/0/0	0 or 1	176-2
152	EXT_CINEMA_MODE,	0/0/0	0 or 1	176-1
153	EXT_CINEMA_SWAP,	0/0/0	0 or 1	176-0
Group: 21 MB40C348				
0	v_amp	1	0 or 1	adr0-2
1	dsel	1	0 or 1	adr0-1
2	ce	0	0 or 1	adr0-0
3	counter_w	64	0 ~ 4095	adr1,adr2(3-0)
4	adc_out	0	0 or 1	adr3-7
5	hsync_pol	1	0 or 1	adr3-6
6	clk_delay	0	0 ~ 63	adr3(5-0)
7	dsync_delay	1	0 ~ 3	adr4(7-6)
8	adclk_b	1	0 or 1	adr4-5
9	adclk_a	1	0 or 1	adr4-4
10	dsync_b	1	0 or 1	adr4-3
11	dsync	1	0 or 1	adr4-2
12	clk_b	1	0 or 1	adr4-1
13	clk	1	0 or 1	adr4-0
14	divider	0	0 ~ 3	adr5(7-6)
15	vco_chg	0	0 or 1	adr5-5

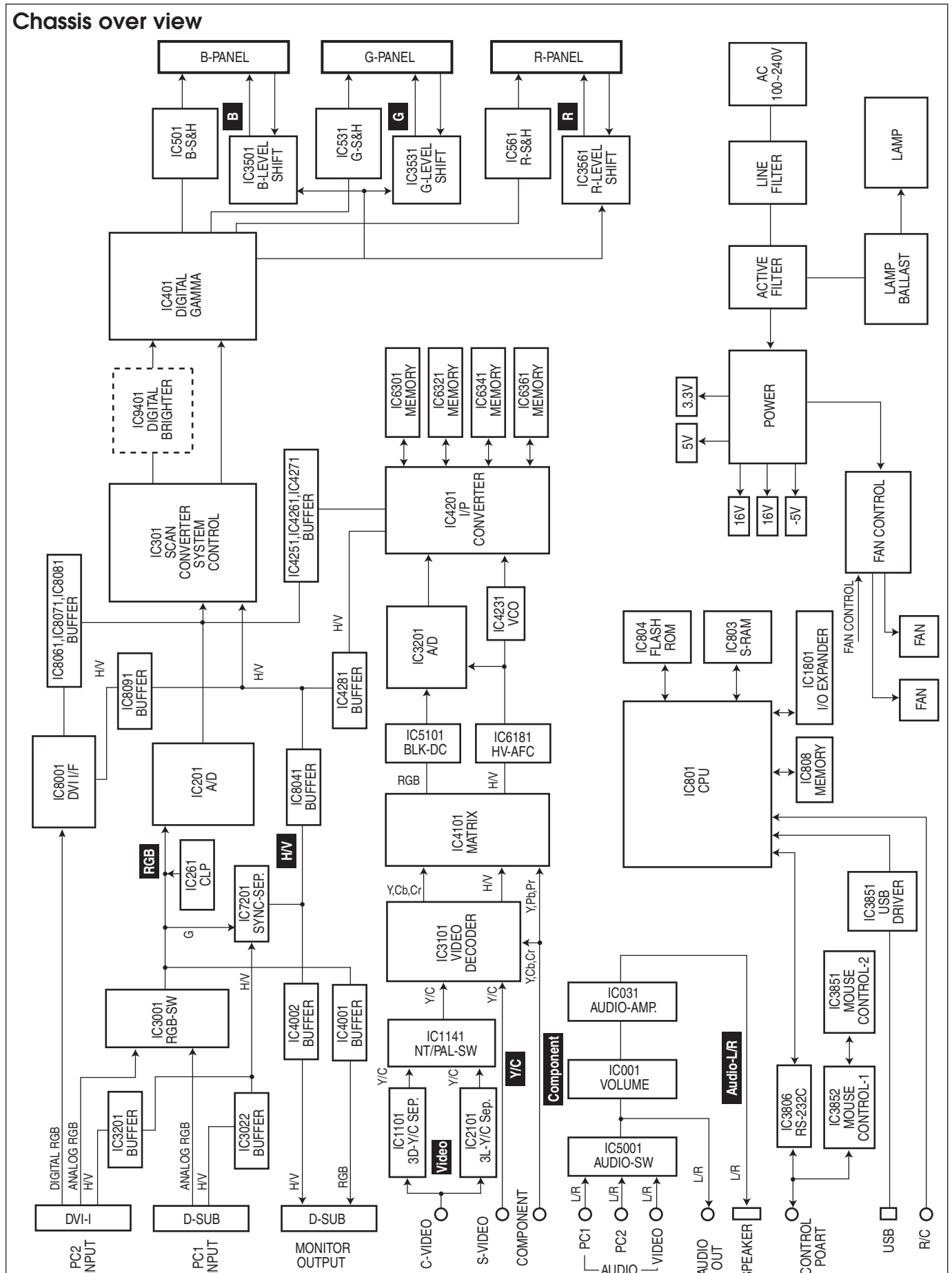
Electrical Adjustments

No.	Adjustment Item	Initial Value	Range	Input source / Description
16	current	0	0 or 3	adr5(4-3)
17	counter	1	0 or 1	adr5-2
18	out_clk	0	0 or 1	adr5-1
19	clk_chb	1	0 or 1	adr5-0
Group: 22 ICS_data				
0	ICS_R0_EnDLS	0	0 ~ 1	R0
1	ICS_R0_EnPLS	1	0 ~ 1	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720P & 480P & 575P (Same data vale except R1)
2	ICS_R0_Func_Sel	0	0 ~ 1	
3	ICS_R0_Fbk_Sel	0	0 ~ 1	
4	ICS_R0_Fbk_Pol	0	0 ~ 1	
5	ICS_R0_Ref_Pol	1	0 ~ 1	
6	ICS_R0_PD_Pol	1	0 ~ 1	
7	ICS_R0_Pden	0/1	0 ~ 1	others/1080i-50
8	ICS_R1_PSD	2/2/0/2/0 0/0/0/2/0	0 ~ 3	R1 (front half: Progressive on, last half: through) XGA output at all
9	ICS_R1_PFD	6/6/5/5 5/5/5/5	0 ~ 7	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 / 1080i50 / 720P & 480P & 575P
10	ICS_R3_FBD	4095	0 ~ 8191	R3_R2
11	ICS_R4_Fil_Sel	0	0 ~ 1	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720P & 480P & 575P
12	ICS_R4_DPA_OS	0	0 ~ 63	R4
13	ICS_R5_Mask_Rev	0	0 ~ 63	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720P & 480P & 575P
14	ICS_R5_DPA_Res	0	0 ~ 3	R5
15	ICS_R6_Out_Scl	3	0 ~ 3	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720P & 480P & 575P
16	ICS_R6_Ck2_Inv	1	0 ~ 1	R6
17	ICS_R6_OE_F	1	0 ~ 1	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720P & 480P & 575P
18	ICS_R6_OE_T2	1	0 ~ 1	
19	ICS_R6_OE_P2	1	0 ~ 1	
20	ICS_R6_OE_Tck	1	0 ~ 1	
21	ICS_R6_OE_Pck	1	0 ~ 1	
22	ICS_R7_In_Sel	0	0 ~ 1	R7
23	ICS_R7_Osc_Div	0	0 ~ 127	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720P & 480P & 575P
24	ICS_R8_PLL	0	0 ~ 15	R8
25	ICS_R8_DPA	10	0 ~ 15	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720P & 480P & 575P
Group: 500 ADC				
0	ADC R-OFFSET	96	0 ~ 255	Stored by SH2, controlled by PW
1	ADC G-OFFSET	96	0 ~ 255	
2	ADC B-OFFSET	96	0 ~ 255	
3	ADC R-GAIN	220	0 ~ 255	
4	ADC G-GAIN	220	0 ~ 255	
5	ADC B-GAIN	220	0 ~ 255	
6	ADC BandWidth PC	3	0 ~ 3	
7	ADC BandWidth AV	3	0 ~ 3	
Group: 510 NTSC Gakaku				
0	NTSC TOTAL DOTS	1312	0 ~ 2048	NT Stored by SH2, controlled by PW
1	NTSC DISP DOTS	999	0 ~ 2048	
2	NTSC H BACK PORCTH	499	0 ~ 2048	
3	NTSC V BACK PORCTH	41	0 ~ 2048	
4	NTSC DISP LINE	458	0 ~ 2048	
5	NTSC CLAMP	0	0 ~ 2048	
Group: 511 PAL Gakaku				
0	PAL TOTAL DOTS	1347	0 ~ 2048	PAL Stored by SH2, controlled by PW
1	PAL DISP DOTS	999	0 ~ 2048	
2	PAL H BACK PORCTH	512	0 ~ 2048	
3	PAL V BACK PORCTH	41	0 ~ 2048	
4	PAL DISP LINE	534	0 ~ 2048	
5	PAL CLAMP	0	0 ~ 2048	
Group: 512 HDTV 1080i-60 Gakaku				
0	TOTAL DOTS	1204	0 ~ 2048	1080i60 Stored by SH2, controlled by PW
1	DISP DOTS	999	0 ~ 2048	
2	H BACK PORCTH	772	0 ~ 2048	
3	V BACK PORCTH	47	0 ~ 2048	
4	DISP LINE	1051	0 ~ 2048	
5	CLAMP	7	0 ~ 2048	
Group: 513 HDTV 1080i-50 Gakaku				
0	TOTAL DOTS	1444	0 ~ 2048	1080i50 Stored by SH2, controlled by PW
1	DISP DOTS	999	0 ~ 2048	
2	H BACK PORCTH	890	0 ~ 2048	
3	V BACK PORCTH	56	0 ~ 2048	
4	DISP LINE	1044	0 ~ 2048	
5	CLAMP	7	0 ~ 2048	
Group: 514 HDTV 1035i Gakaku				
0	TOTAL DOTS	1204	0 ~ 2048	1035i Stored by SH2, controlled by PW
1	DISP DOTS	999	0 ~ 2048	
2	H BACK PORCTH	772	0 ~ 2048	
3	V BACK PORCTH	83	0 ~ 2048	
4	DISP LINE	1012	0 ~ 2048	
5	CLAMP	7	0 ~ 2048	
Group: 515 HDTV 720p Gakaku				
0	TOTAL DOTS	1524	0 ~ 2048	720p Stored by SH2, controlled by PW
1	DISP DOTS	1154	0 ~ 2048	
2	H BACK PORCTH	1098	0 ~ 2048	
3	V BACK PORCTH	54	0 ~ 2048	
4	DISP LINE	702	0 ~ 2048	

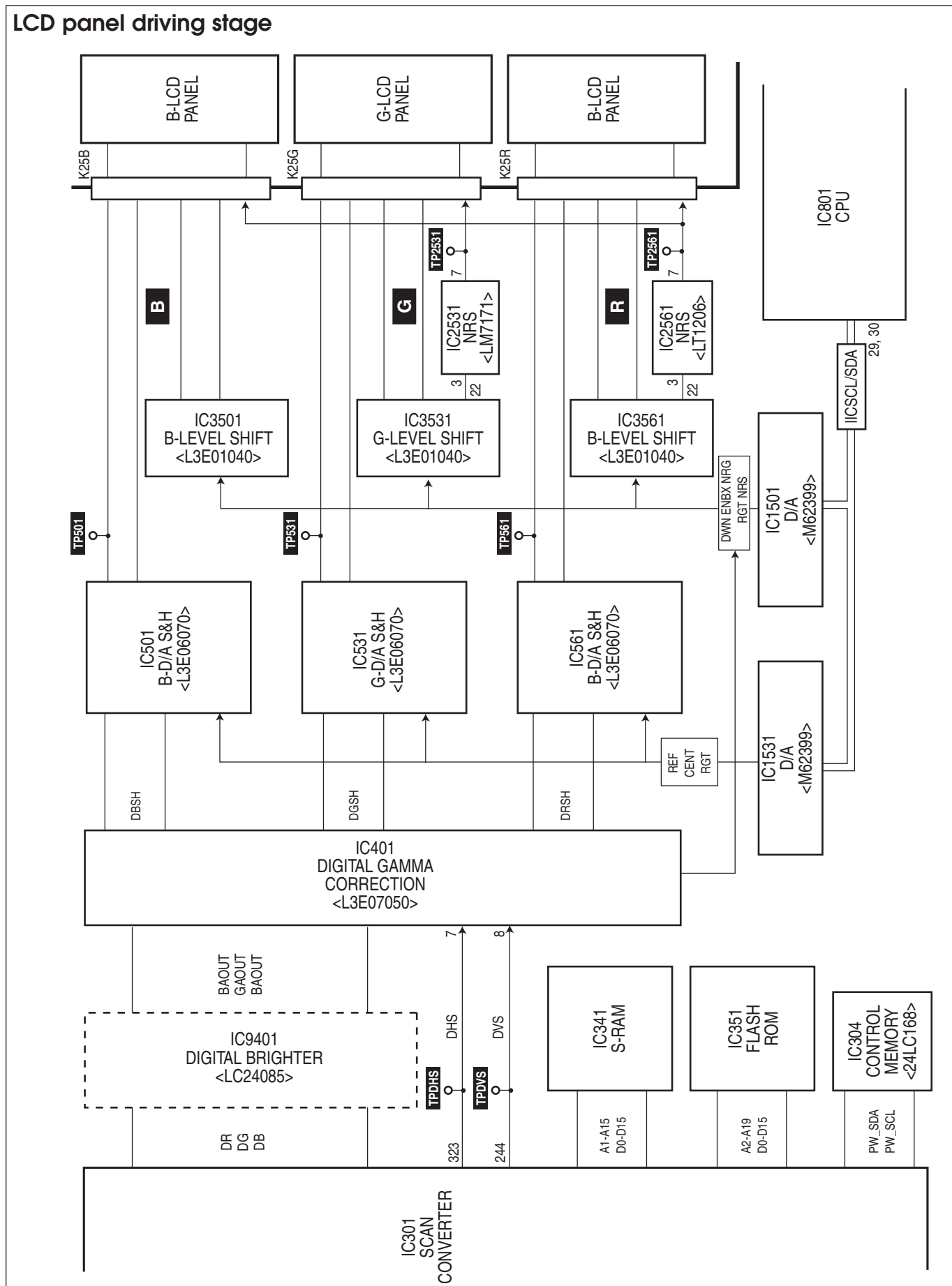
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■ Chassis Block Diagrams

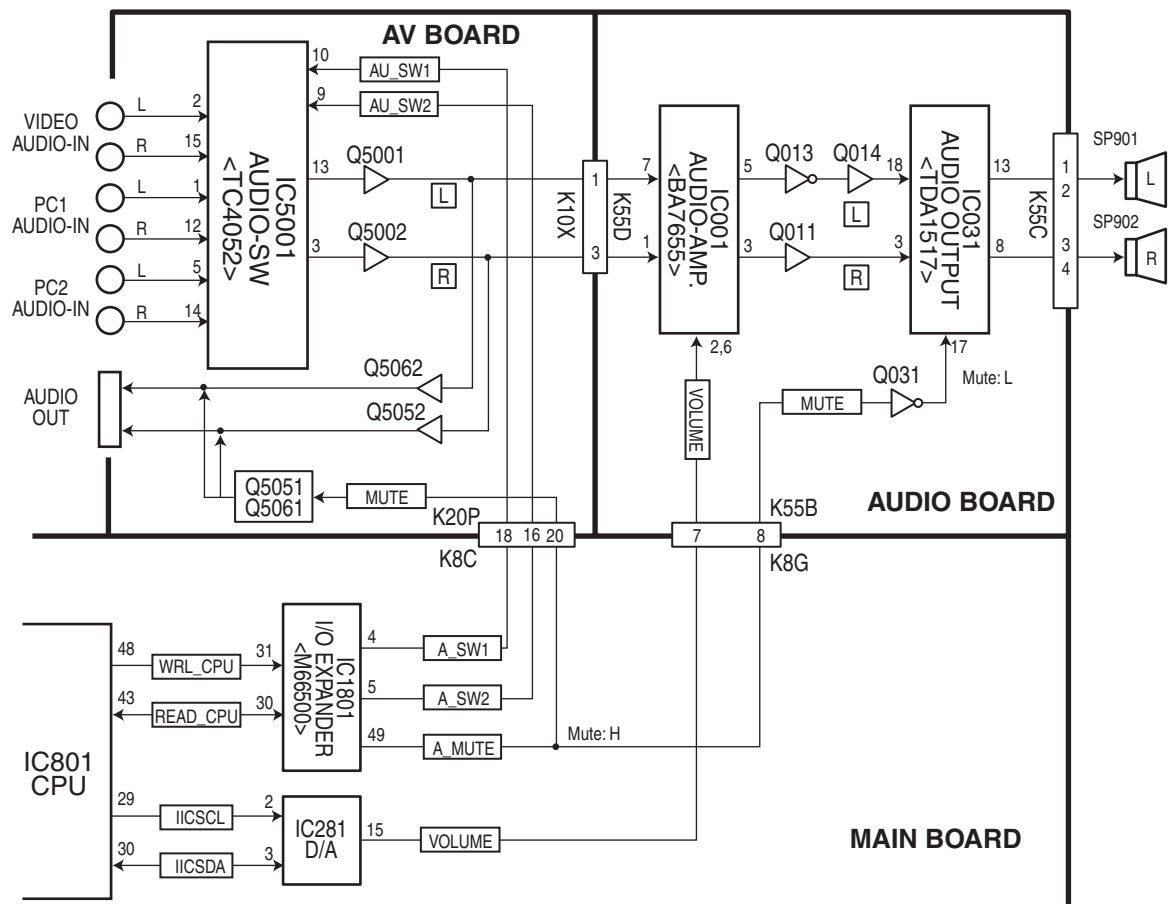
Chassis over view



LCD panel driving stage



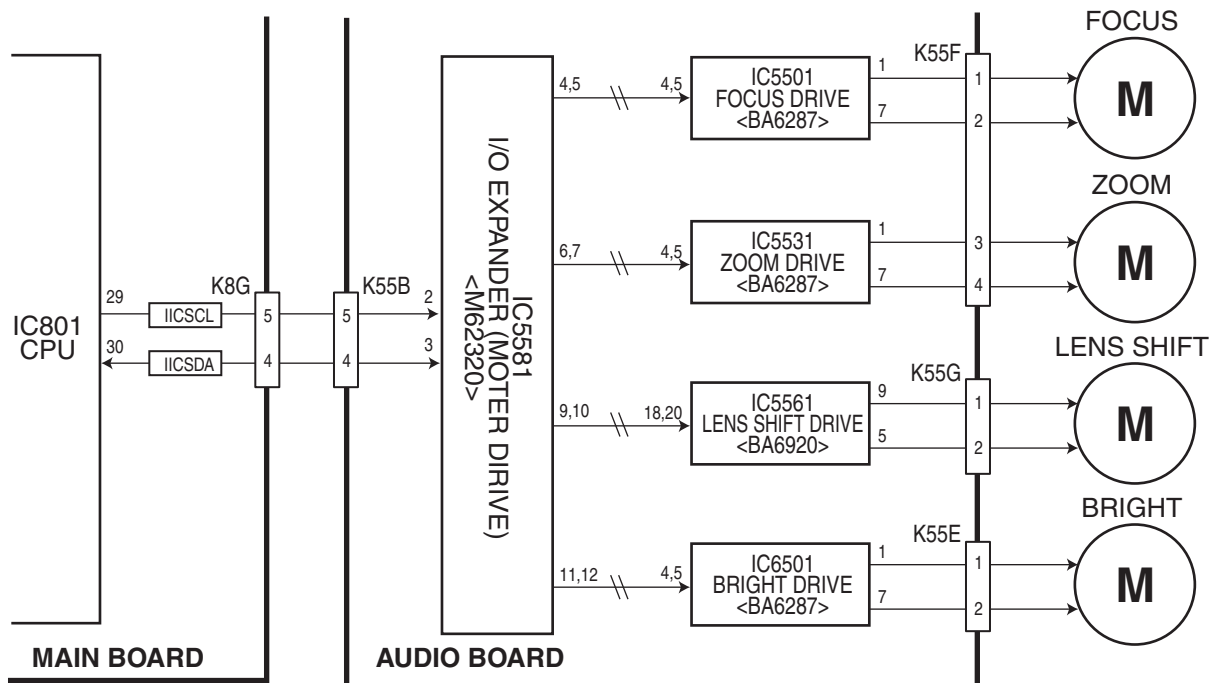
Audio signal processing circuit



AUDIO-SW Switching Logic

	PC1	PC2	VIDEO
A_SW1 (4), AU_SW 1(10)	L	H	L
A_SW2 (5), AU_SW2 (9)	L	L	H

Motor driving circuit



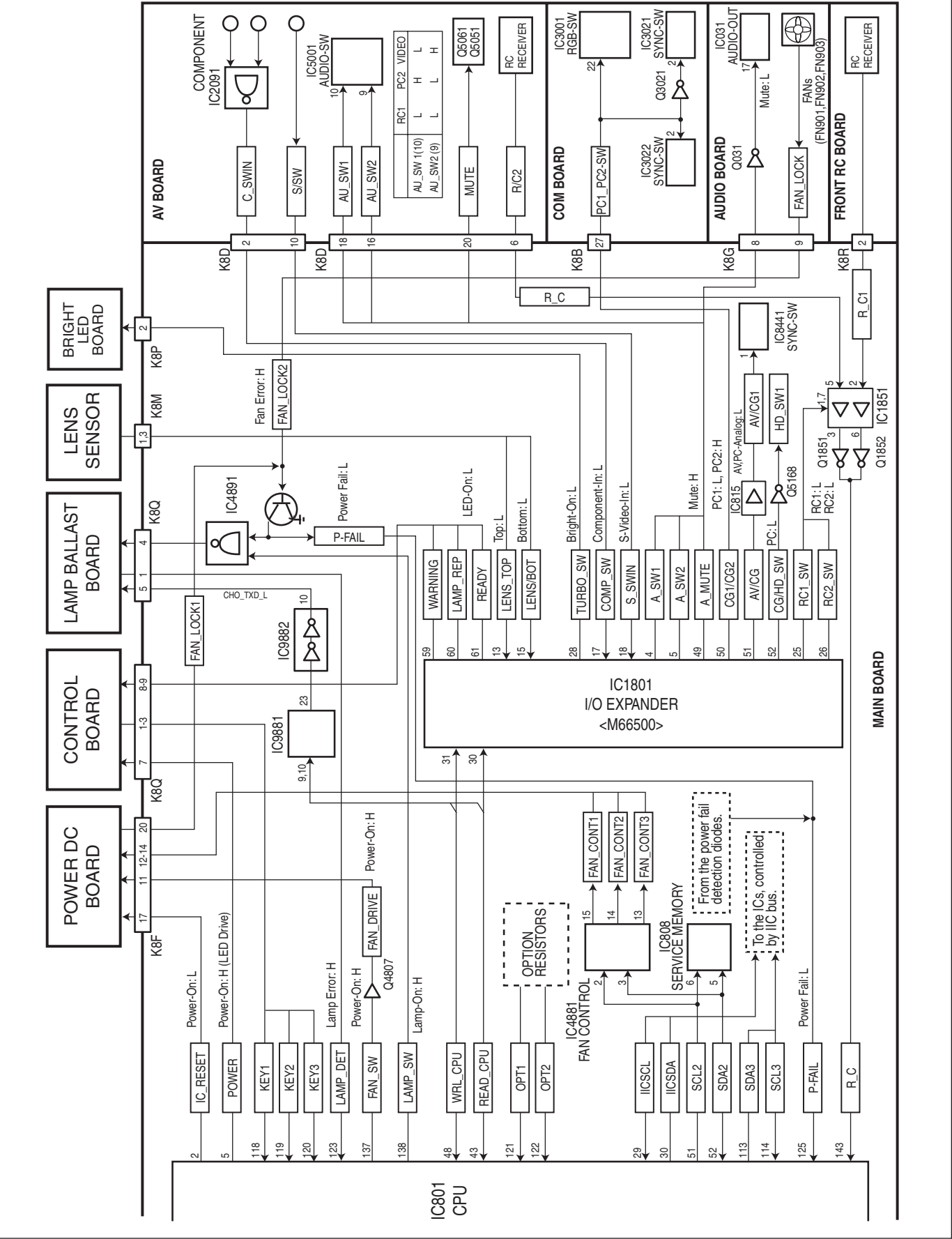
Logic Table of Drive ICs (IC5501, IC5531, IC6501)

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

Logic Table of Drive ICs (IC5561)

Input		Output		Operation
18	20	5	9	
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





■ Troubleshooting

No Power

The possible causes of No Power are listed below. Please check following and refer to the chapter "Power supply and protection circuit" in the Chassis Block Diagrams on the previous page.

1. It does not operate the power supply circuit due to detection of abnormality.

- The abnormality on the secondary power supply lines was detected.

One of the power failure detection diodes detects an abnormal voltage on the power supply. Check the shortage of secondary circuits, ICs, condensers, etc.

Check power supply lines, FAN1, 16V, 14.5V and 15AUDIO on the Audio Board, and 5V, 5VD, 15.5V, 3.3V, 15VP, 9V, 5V1, 5V_DV, 2.5V1, 12V, 3.3_AV, 3.3V_AD1, 3.3V_AD2, 3.3V_AD3, 2.5V1 and 12V on the Main Board.

Check detection diodes, D5511, D5562, D6502, D031 on the Audio Board, and D3102, D3103, D4814, D1561, D451, D1571, D2501, D6381, D3252, D3253, D241, D242, D243, D3103, D3251 on the Main Board.

- The cooling fans was stopped.

One of the power failure detection diodes detects the fan operation stop (FAN_LOCK) signal. Check Fans FN901, FN902, FN903, FN904, FN905, FN906 and FN907.

Check the FAN_LOCK signal.

Fan Error : H

And this signal drives Q4891 on and the P-FAIL signal becomes low.

- The abnormal temperature rise inside the projector was detected.

Temperature sensor ICs detect abnormal temperature.

Check peripheral circuits and sensor ICs IC2821 on the Sensor Board, IC1871, IC1872 and IC1873 on the Main Board.

Thermal switch (SW905) detects abnormal temperature.

Check peripheral circuits and SW905.

SW905..... short in normal

SW905 opens when peripheral temperature is over 90°C.

- The abnormality on the lamp ballast board was detected.
The lamp ballast board outputs error signal (LAMP_DET) to pin 123 of IC801.

LAMP_DET High in abnormal

- The Interlock switch (SW902) is not turned on.
Check lamp cover fixed correctly.

- Fuse was opened.

Check the fuse on the Line Filter Board.

2. Abnormality occurs on drive signals for power or lamp circuit.

- Abnormality on power starter signals (FAN_DRIVE/ FAN_SW).

The FAN_SW signal is output from pin 137 of IC801 and applied to power supply circuit through Q4807 as the name of FAN_DRIVE. It drives the fans on and off.

FAN_DRIVE High in power on

Check FAN_DRIVE signal, IC801 and peripheral circuits.

- Abnormality on the drive signal (IC_RESET).

The IC_RESET signal is output from pin 2 of IC801 and sent to the power DC board to switch the power on and off.

IC_RESET High in power on

Check IC_RESET signal, IC801 and peripheral circuits.

- Abnormality on the lamp drive signal (LAMP_SW).

The LAMP_SW signal is output from pin 138 of IC801 and sent to IC4891. IC4891 also receives the P-FAIL signal and outputs the drive signal to pin 4 of K8L and the lamp ballast board.

LAMP_SW High in power on

Check LAMP_SW signal, IC801 and peripheral circuits.

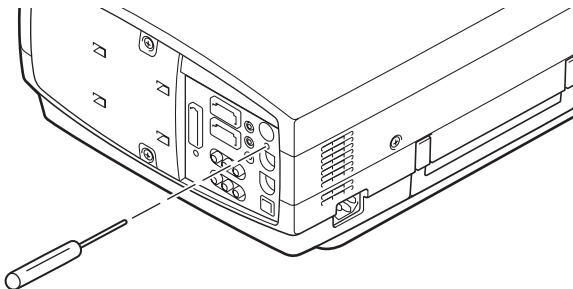
3. Abnormality occurs on the power circuit.

- Abnormality on power primary circuit

Check Line filters, thermal switch (SW905), interlock switch (SW902) the Power AC board and Power DC board.

Reset switch

The projector does not allow any controls rarely when the abnormality of power or operation occurs inside the projector. In this case, press the reset switch on the rear panel to restart the projector.



About the LED indicator flashing

The projector will be automatically turned off when the internal temperature of the projector exceeds the normal operating temperature, or the cooling fans stops, 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 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.

- 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.

No Picture

The possible causes of No Picture are listed below. Please check following and refer to the chapter "Inputs & video signal processing stage", "LCD panel driving stage" in the Chassis Block Diagrams on the previous page.

1. No picture from Video source

Composite Video Input

Check that the composite video signal is observed at the following points;

Pin 16 of K8D, pins 4, 3 of IC141, pin 4 of IC1141, pin 88 of IC1101 (NTSC), pin 7 of IC2101 (PAL) on the Main Board.

Check that the Y/C signals are observed at the following points;

Pins 83, 84 of IC1101, pins 1, 13 of IC1141(NTSC), pins 25, 27 of IC2101, pins 2, 12 of IC1141 (PAL), pins 15, 14 of IC1141, pins 5, 7 of IC3101.

S-Video Input

Check that the Y/C signals are observed at the following points;

Pins 14 (Y), 12(C) of K20Q and K8D, pins 43, 44 of IC3101.

Component Input

Check that the component signals are observed at the following points;

Pins 4 (CR), 6 (CB), 8 (Y) on K20Q and K8D, pins 17, 18, 19 of IC3101, pins 73, 74, 75 of IC4101.

All of video signals

Check that the RGB signals are observed at the following points;

Pin 35, 37, 39 of IC4101, TP13R, TP13G, TP13B, pins 11, 13, 15 of IC3201.

Check that the SYNC signals are observed at the following points;

Pins 28, 29 of IC4101, pins 1, 2 of IC6181, test points TPVD, TPHD, pins 13, 15, 7, 5 of IC4281.

2. No picture from Computer source

Check that the RGB signals are observed at the following points;

Pins 1, 3, 5 of IC3001 for Computer2 mode, pins 8, 10, 13 of IC3001 for Computer1 mode, pins 20, 18, 16 of IC3001, test points TP21R, TP21G, TP21B, pins 5, 13, 20 of IC201.

Check PC1/PC2 switching signal is correct. Computer1: Low, Computer2 High on pin 22 of IC3001.

Check that the SYNC signals are observed at the following points;

Pins 8, 3, 1, 6 of IC3021 and IC3022, pins 2, 5, 13, 11 of IC7201, test points TP814, TP815, pins 2, 4, 18, 16 of IC8041, test points THGHS, TPGVS, pins 34, 133 of IC301.

Check PC1/PC2 switching signal is correct. Computer1: Low, Computer2 High on pin 2 of IC3021 and IC3022.

3. No picture from DVI source.

Check 5V power supply(5VDVI) at pins 6 and 7 of K10R and K26D on the power DC board.

Check Sync signal at pins 2, 4, 16, 18 of IC8001.

Check ICs IC8001, IC8061, IC8071, IC8081 and peripheral circuits.

4. No picture from all of sources

Check RGB S&H signals at test points TP501, TP531, and TP561.

Check that the SYNC signals are observed at test point TPDHS and TPDVS, pins 7 and 8 of IC401.

Check NRS signal at test point TP2531, TP2561.

Check power supply circuit 15.5V and 15VP and peripheral circuit.

Check ICs IC501, IC531, IC561, IC3501, IC3531, IC3561, IC2531, IC2561, IC401 and peripheral circuits.

No Sound

Please check following and refer to the chapter “Audio signal processing circuit” in the Chassis Block Diagrams on the previous page.

1. No audio signals at AV input circuit.

Check audio signals at pins 1, 12 (Computer1), 5, 14 (Computer2) and 2, 15 (Video) of IC5001 on AV Board.
Check IC5001 and peripheral circuits.

2. Incorrect operation of Input mode switching.

Check AU_SW1 and AU_SW2 switching signals at pins 9 and 10 of IC5001 on the AV board. The AU_SW1 and AU_SW2 signals are output from pins 4 and 5 of IC1801 as the name of A_SW1 and A_SW2. See the truth table below for input mode selection on the block diagram.

3. No audio output signal at speakers.

Check audio signals at pins 13 and 8 of IC031 on the audio board.

Check MUTE signal at pin 17 of IC031. Mute On: Low
The MUTE signal is output from pin 49 of IC1801.

Mute On : High

Check sound volume signal at pin 2, 6 of IC001.

The VOLUME signal is output from pin 15 of IC281 and it is controlled by IC801 via the IIC bus.

Volume Min.: Low

Check audio signals at IC001, IC031 and peripheral circuits.

4. No power supply at audio circuit.

Check 15V(15VAUDIO) power supply line.

Lens Motor Problems

Please check following and refer to the chapter “Motor driving circuit” in the Chassis Block Diagrams on the previous page.

1. No drive signals supplied at motors

Check drive signals at pins 1 and 2 of K55F for focus motor, pins 3 and 4 of K55F for zoom motor and pins 1 and 2 of K55G for lens shift motor, pins 1 and 2 of K55E for bright motor on the Audio board.

Check drive signals at pins 1 and 7 of each IC, IC5501, IC5531 and IC6501. Check drive signals at pins 9 and 5 of IC5561, Lens Shift.

Check IC5501, IC5531, IC5561 and IC6501 and peripheral circuits. Check motor drive power supply (9V and 16V).

2. No drive signals supplied at motor drive ICs.

Check drive signals at pins 4 and 5 of ICs IC5501, IC5531, and IC6501, at pin 18, 20 of IC5561. They are supplied from pins 4 and 5 for focus drive, pins 6 and 7 for zoom drive and pins 9 and 10 for lens shift drive, pins 11 and 12 for bright drive of IC15581 I/O control IC.

3. No drive signals output from CPU.

The motor drive signals are supplied from IC801, main CPU, via the IIC bus control lines on pins 29 and 30.

4. No key switch signals input to CPU.

Check signals at pins 118 to 120 of IC801 when pressing the key buttons. Check key buttons.

■ Control Port Functions

● System Control & I/O Port Table (IC801)

No.	Name	Function Name	Function	Polarity	I/O
1	PA23/WRHH	USB RESET	USB reset signal	Active L	O
2	PE14/TIOC4C/DACK0/AH	IC RESET	Power Control w/o FAN and LAMP	Active L	O
3	PA22/WRHL	SEPA_RESET	Reset output for M66230	L: Reset	O
4	PA21/CASHH		Not used		O
5	PE15/TIOC4D/DACK1/IRQOUT	POWER SW	Power LED drive	L:Power OFFH:Power ON	O
6	VSS	GND	-	-	-
7	PC0/A0	ADDRESS0	Address Bus 0	-	O
8	PC1/A1	ADDRESS1	Address Bus 1	-	O
9	PC2/A2	ADDRESS2	Address Bus 2	-	O
10	PC3/A3	ADDRESS3	Address Bus 3	-	O
11	PC4/A4	ADDRESS4	Address Bus 4	-	O
12	VCC	5V	-	-	-
13	PC5/A5	ADDRESS5	Address Bus 5	-	O
14	VSS	GND	-	-	-
15	PC6/A6	ADDRESS6	Address Bus 6	-	O
16	PC7/A7	ADDRESS7	Address Bus 7	-	O
17	PC8/A8	ADDRESS8	Address Bus 8	-	O
18	PC9/A9	ADDRESS9	Address Bus 9	-	O
19	PC10/A10	ADDRESS10	Address Bus 10	-	O
20	PC11/A11	ADDRESS11	Address Bus 11	-	O
21	PC12/A12	ADDRESS12	Address Bus 12	-	O
22	PC13/A13	ADDRESS13	Address Bus 13	-	O
23	PC14/A14	ADDRESS14	Address Bus 14	-	O
24	PC15/A15	ADDRESS15	Address Bus 15	-	O
25	PB0/A16	ADDRESS16	Address Bus 16	-	O
26	VCC	5V	-	-	-
27	PB1/A17	ADDRESS17	Address Bus 17	-	O
28	VSS	GND	-	-	-
29	PA20/CASHL	SCL 1	IIC Bus 1 SCL	Active L	I/O
30	PA19/BACK/DRAK1	SDA 1	IIC Bus 1 SDA	Active L	I/O
31	PB2/IRQ0/POE0/RAS		Not used	L fixed	
32	PB3/IRQ1/POE1/CASL	ET7050SELECT	Switch color shading correction on/off	On=L , Off=H	O
33	PA18/BREQ/DRAK0	SYS SW	Power switch for peripheral lcs	ON=L, OFF=H	O
34	PB4/IRQ2/POE2/CASH	AFT-V	Not used	(Not used)	I
35	VSS	GND	-	-	-
36	PB5/IRQ3/POE3/RDWR	DE_DIF	Not used	(Not used)	I
37	PB6/IRQ4/A18/BACK	ADDRESS18	Address Bus 18	-	O
38	PB7/IRQ5/A19/BREQ	ADDRESS19	Address Bus 19	-	O
39	PB8/IRQ6/A20/WAIT	ADDRESS20	Address Bus 20	-	O
40	VCC	5V	-	-	-
41	PB9/IRQ7/A21/ADTRG	ADDRESS21	Address Bus 21	-	O
42	VSS	GND	-	-	-
43	PA14/RD	READ	Read signal	Active L	O
44	WDTOVF	WDT	Not used	Not used	O
45	PD31/D31/ADTRG	RTS	RS232C RTS (Request To Send)	Not used	I
46	PD30/D30/IRQOUT	CTS	RS232C CTS (Clear To Send)	Not used	O
47	PA13/WRH	WRH	Write signal(bit8~15)	Active L	O
48	PA12/WRL	WRL	Write signal(Lowest 8bit 0~7)	Active L	O
49	PA11/CS1	SRAM_CS	SRAM_CS	Active L	O
50	PA10/CS0	CS0	Flash Memory Chip Select	Active L	O
51	PA9/TCLKD/IRQ3	SCL 2	IIC Bus 2 SCL	Active L	I/O
52	PA8/TCLKC/IRQ2	SDA 2	IIC Bus 2 SDA	Active L	I/O
53	PA7/TCLKB/CS3	CS3	USB / IP / IO EXP / Bright Chip Select	Active L	O
54	PA6/TCLKA/CS2	CS2	M66230 Chip Select	Active L	O
55	VSS	GND	-	-	-
56	PD29/D29/CS3	IPOUT_CPU	Enable/Disable the output from IP	AV:L other than AVH	O
57	PD28/D28/CS2	PW_SEL	PW365 RS232C Select	L:PWH:SH	O
58	PD27/D27/DACK1	PW_INTR	Not used	Not used	O
59	PD26/D26/DACK0	PW_OUT1	Not used	Reserved	O
60	PD25/D25/DREQ1	PW_OUT0	Not used	Reserved	O
61	VSS	GND	-	-	-
62	PD24/D24/DREQ0	SCART_SW	Scart switch(GBLKSPL stop)	Not used	O
63	VCC	5V	-	-	-
64	PD23/D23/IRQ7	RESET_CPU	Reset output for IP		O
65	PD22/D22/IRQ6	DVI_OUT		DVI: L DVIa»ãO:H	O
66	PD21/D21/IRQ5	CHO_RESET	M66230 Reset		O
67	PD20/D20/IRQ4		Not used		O
68	PD19/D19/IRQ3	CHO_INT	Interrupt input for M66230		I
69	PD18/D18/IRQ2	PW_IN1	PW365 data input	reserved	I
70	PD17/D17/IRQ1	PW_IN0	PW365 AD Power Down input	L:AD Power DownU	I
71	VSS	GND	-	-	-

Control Port Functions

No.	Name	Function Name	Function	Polarity	I/O
72	PD16/D16/IRQ0	PW_SW	Not used	-	
73	PD15/D15	DATA15	Data Bus 15	-	I/O
74	PD14/D14	DATA14	Data Bus 14	-	I/O
75	PD13/D13	DATA13	Data Bus 13	-	I/O
76	PD12/D12	DATA12	Data Bus 12	-	I/O
77	VCC	5V	-	-	-
78	PD11/D11	DATA11	Data Bus 11	-	I/O
79	VSS	GND	-	-	-
80	PD10/D10	DATA10	Data Bus 10	-	I/O
81	PD9/D9	DATA9	Data Bus 9	-	I/O
82	PD8/D8	DATA8	Data Bus 8	-	I/O
83	PD7/D7	DATA7	Data Bus 7	-	I/O
84	PD6/D6	DATA6	Data Bus 6	-	I/O
85	VCC	5V	-	-	-
86	PD5/D5	DATA5	Data Bus 5	-	I/O
87	VSS	GND	-	-	-
88	PD4/D4	DATA4	Data Bus 4	-	I/O
89	PD3/D3	DATA3	Data Bus 3	-	I/O
90	PD2/D2	DATA2	Data Bus 2	-	I/O
91	PD1/D1	DATA1	Data Bus 1	-	I/O
92	PD0/D0	DATA0	Data Bus 0	-	I/O
93	VSS	GND	-	-	-
94	XTAL	XTAL	X'tal oscillator input	-	I
95	MD3	Mode3	Multiplex setting with Mode 2 (Set H)		I
96	EXTAL	EXTAL	X'tal oscillator output	-	O
97	MD2	Mode2	Multiplex setting with Mode 3 (Set L)		I
98	NMI	CPURESET	Non maskable interrupt input (for manual setting)		I
99	VCC (FWP)	FWP	Write mode for flash memory		I
100	PA16/AH	FLASH MODE	FWP Control		O
101	PA17/WAIT		Not used		O
102	MD1	Mode1	MCU setting with Mode 0 (Set H)		I
103	MD0	Mode0	MCU setting with Mode 1 (Set L)		I
104	PLLVCC	PLLVCC	Power supply for PLL		-
105	PLLCAP	PLLCAP	PLL filter		-
106	PLLVSS	PLLGND	Ground for PLL		-
107	PA15/CK	M-CLK	CPU clock output		O
108	RES	RESET	Reset	Active L	I
109	PE0/TIOC0A/DREQ0	ET7050SCS	ET7050 Serial chip select	Active L	O
110	PE1/TIOC0B/DRAK0	OPT4	XGA/SVGA switch option		I
111	PE2/TIOC0C/DREQ1		Not used		O
112	VCC	5V	-	-	-
113	PE3/TIOC0D/DRAK1	SDA3	IIC Bus 3 SDA		I/O
114	PE4/TIOC1A	SCL3	IIC Bus 3 SCL		I/O
115	PE5/TIOC1B	USB_BRST	USB pull-up option resistor on-off		O
116	PE6/TIOC2A		Not used		O
117	VSS	GND	-	-	-
118	PF0/AN0	KEY1	Key 1 input (A/D input)		I
119	PF1/AN1	KEY2	Key 2 input (A/D input)		I
120	PF2/AN2	KEY3	Key 3 input (A/D input)		I
121	PF3/AN3	OPT1	Destination option1 (A/D input)		I
122	PF4/AN4	OPT2	Destination option2 (A/D input)		I
123	PF5/AN5	LAMP_DET	Lamp error detection		I
124	AVSS	GND	Ground for A/D	-	-
125	PF6/AN6	POWER_FAIL	Power Fail input (Error at less than 2V)		I
126	PF7/AN7	OPT3	Not used		I
127	AVREF	5V	Reference voltage for A/D		I
128	AVCC	5V	Power for A/D	-	I
129	VSS	GND	-	-	-
130	PA0/RXD0	PW_RX	PW365 Rx	Active L	I
131	PA1/TXD0	PW_TX	PW365 Tx	Active L	O
132	PA2/SCK0/DREQ0/IRQ0	SEPA_INT	Interrupt input from M66230		I
133	PA3/RXD1	RXD	RS232C (Control Port)Rx	Active L	I
134	PA4/TXD1	SH_TXD	RS232C (Control Port)Tx	Active L	O
135	VCC	5V	-	-	-
136	PA5/SCK1/DREQ1/IRQ1	USB_INTR	USB Interrupt input	Active L	I
137	PE7/TIOC2B	FAN_SW	FAN ON/OFF switch		O
138	PE8/TIOC3A	LAMP_SW	LAMP ON/OFF output	Active H	O
139	PE9/TIOC3B	SDATA_OUT	3 Line serial data output		O
140	PE10/TIOC3C	SCLK	3 Line serial clock output		O
141	VSS	GND	-	-	-
142	PE11/TIOC3D	EXP_RESET	I/O Expander(M66500FPM) reset output	Active H	O
143	PE12/TIOC4A	R/C	remote contol input	Active L	I
144	PE13/TIOC4B/MRES	PW_RESET	PW365reset signal	Active L	O

● Parallel I/O Expander (IC1801, M66500FP)

No.	Name	Function Name	Function	Polarity	I/O
1	PF6	CG_FILTER	Not used (Initial: L)		O
2	PF7	DT_STB	-		O
3	Vcc	5V ±0%	-	-	-
4	PE0	A_SW1	Audio SW 1 (SW1,SW2) = PC1:L, L PC2:H, L PC3:L,H		O
5	PE1	A_SW2	Audio SW 2		O
6	PE2	IP_PWR_DN	IP Power down mode switch	H: Use IP L: Not use IP	O
7	PE3	IPSEL_CSA	Strobe signal for AD converter of IP converter	Active L	O
8	PE4	CHO_CD	M66230 Command Data switch output		O
9	PE5	SEPA_CD	Command Data switch output for Serial-Parallel converter		O
10	PE6	SEPA_CTS	Clear to Send output for Serial-Parallel converter		O
11	PE7	CHO_CTS	Clear to Send Clear to Send output for M66230		O
12	GND3	GND	-	-	-
13	PB0	LENS_TOP	Lens Top Detection	Top=L	I
14	PB1	M2/SEL0	Not used		I
15	PB2	LENS_BOT	Lens Bottom Detection	Bottom=L	I
16	PB3	USB_VBUS	USB VBUS input	H: USB connection	I
17	PB4	COMP-DET	Component input Y/N	L: Component input	I
18	PB5	S_SWIN	S-Video input Y/N	L: S-video input	I
19	PB6	VSYNC_DET	Not used (Initial: L)		I
20	PB7	M2/SEL1	Not used		I
21	PA7	RC_RESET	Not used		O
22	PA6	RCIDSW3	Remote control code switch (SW1,2,3) = LLL: Code1 HLL: Code2 HHH: Code8		O
23	PA5	RCIDSW2			O
24	PA4	RCIDSW1			O
25	PA3	RC2_SW	Remote control receiver switch (Rear side)	L: active H: prohibit	O
26	PA2	RC1_SW	Remote control receiver switch (Front side)	L: active H: prohibit	O
27	PA1	Eco SW	Lamp Eco mode switch	H:Eco L:Normal	O
28	PA0	TURBO_ON/OFF	Turbo LED On/Off drive (not used)		O
29	Vcc	5V ±0%	5V ±10%	-	-
30	RD	READ_CPU	Read Select	Active L	I
31	WR	WRL_CPU	Write Select	Active L	I
32	CS	IO_CS	Chip Select	Active L	I
33	RESET	EXP_RST	Reset input	Active H	I
34	GND1	GND	-	-	-
35	A2	PORT_SEL2	Port Select 2	-	I
36	A1	PORT_SEL1	Port Select 1	-	I
37	A0	PORT_SEL0	Port Select 0	-	I
38	D0	D0	Data Bus 0	-	I/O
39	D1	D1	Data Bus 1	-	I/O
40	D2	D2	Data Bus 2	-	I/O
41	D3	D3	Data Bus 3	-	I/O
42	D4	D4	Data Bus 4	-	I/O
43	D5	D5	Data Bus 5	-	I/O
44	D6	D6	Data Bus 6	-	I/O
45	D7	D7	Data Bus 7	-	I/O
46	PC7	MOUSE/CPU-SW	Air Mouse Select	L: Air mouse active	O
47	PC6	NET_SW	Line Switch for RS232C-Port CtrlPort/WI	H: SCI-CtrlPort L: SCI-WI	O
48	PC5	7050RESET	7050 Reset		O
49	PC4	A_MUTE	Mute output	H: Mute On	O
50	PC0	CG1/CG2	Computer 1/Computer 2 switch	L: Com1 H: Com2	O
51	PC1	AV/CG	Computer/Video switch	L: PCAnalog, H: PCDigital,AV	O
52	PC2	CG/HD_SW	Not used	CG: L	O
53	PC3	DDC_CONT	Analog-DDC PC/CPU switch	CPU: H	O
54	PG0	CARD_IN	Viewer CF Card On/Off	L: No CF Card installed	I
55	PG1	VIEWER_ON	Viewer/wireless-LAN On/Off	L: MCI/W I installed H: No installed	I
56	PG2	W_LAN_IN	Input for Viewer/wireless-LAN distinction	H: WI L: No	I
57	PG3	SCDT_DIF	DVI Sync Detect input	H: DVI signal	I
58	GND2	GND	-	-	-
59	PF0	WARNING	Temp Warning LED output	LED On=L	O
60	PF1	LAMP_REP	Lamp Replace LED output	LED On=L	O
61	PF2	READY	Ready LED output	LED On=L	O
62	PF3	PD_DIF	DVI Power Down output (not used)	DVI Mode =H	O
63	PF4	DVI_CONT	Not used (Initial: L)		O
64	PF5	DDC_CONT_DVI	Digital-DDC PC/CPU switch		O

● IIC Bus I/O Expander (IC5581, M62320FP) Port Functions

Pin No.	Name	Function	Action	I/O
1	SO	Serial Data output port (Not connected)		O
2	SCL	IIC BUS SCL		I
3	SDA	IIC BUS SDA		I/O
4	D0	FOCUS+	FOCUS + Active H	O
5	D1	FOCUS-	FOCUS - Active H	O
6	D2	ZOOM+	ZOOM + Active H	O
7	D3	ZOOM-	ZOOM - Active H	O
8	Vss	GND		-
9	D4	LENS UP	LENS UP Active H	O
10	D5	LENS DOWN	LENS DOWN Active H	O
11	D6	BRIGHT ON	BRIGHT ON Active H	O
12	D7	BRIGHT OFF	BRIGHT OFF Active H	O
13	Vdd	Power supply +5V ±10 %		-
14	CS2	Slave address setting port 2 (GND)		I
15	CS1	Slave address setting port 1 (GND)		I
16	CS0	Slave address setting port 0 (GND)		I

● IIC Bus DA Converter (IC281, M62393FP) Port Functions

No.	Name	Function Name	Function	Polarity	I/O
1	R	Serial Data output port (Not connected)	O		
2	SCL	IIC BUS SCL			I
3	SDA	IIC BUS SDA			I/O
4	A05	Not used			O
5	A06	Not used			O
6	A07	Not used			O
7	A08	VRB AV black voltage adjustment			O
8	VrefL	DAC Lower Reference Voltage input	-		
9	VrefU 1	DAC Upper Reference Voltage input (CH5~CH8)			-
10	Vss	GND			-
11	VrefU2	DAC Upper Reference Voltage input (CH1~CH 4)			-
12	A01	PC_BCLP			O
13	A02	PC_GCLP			O
14	A03	PC_RCLP			O
15	A04	VOLUME			O
16	Vcc	Power Supply for Output Buffer (4.5V ~ 5.5V)			-
17	Vdd	Power Supply +5V±10 %			-
18	CS2	Slave address setting port 2 (GND)	I		
19	CS1	Slave address setting port 1 (Vdd)	I		
20	CS0	Slave address setting port 0 (GND)	I		

● IIC Bus DA Converter (IC3291, M62398FP) Port Functions

No.	Name	Function Name	Function	Polarity	I/O
1	R	Reset input			I
2	SCL	IIC BUS SCL			I
3	SDA	IIC BUS SDA			I/O
4	Ao7	BVRT	AV White voltage adj.		O
5	Ao8	GVRT	AV White voltage adj.		O
6	Ao9	RVRT	AV White voltage adj.		O
7	Ao10	B_BLK_DC	AV pedestal adj.		O
8	Ao11	G_BLK_DC	AV pedestal adj.		O
9	Ao12	R_BLK_DC	AV pedestal adj.		O
10	VrefL	DAC lower reference voltage input			-
11	VrefU1	DAC upper reference voltage input(CH5~CH8)			-
12	Vss	GND			-
13	VrefU2	DAC upper reference voltage input(CH1~CH4)			-
14	Ao1	AV_RCLP			O
15	Ao2	AV_GCLP			O
16	Ao3	AV_BCLP			O
17	Ao4	MACRO		H:PC,AV(1080i50Hz) L:AV	O
18	Ao5	SCPSW	Sandcastle pulse switch	Video/S-Video/480i/575i:L else:H	O
19	Ao6	BLKSW	H_BLK width switch	1080i/1035i/720p:H else:L	O
20	Vcc	Buffer power supply(4.5V ~ 5.5V)			-
21	Vdd	Power supply +5V±10%			-
22	CS2	Setting pin 2 for slave address			I
23	CS1	Setting pin 1 for slave address			I
24	CS0	Setting pin 0 for slave address			I

● IIC Bus DA Converter (IC1531, M62399FP) Port Functions

No.	Name	Function Name	Function	Polarity	I/O
1	R	Reset input			I
2	SCL	IIC BUS SCL			I
3	SDA	IIC BUS SDA			I/O
4	A05	not use			O
5	A06	REF_B	B White-Black level adj.		O
6	A07	REF_G	G White-Black level adj.		O
7	A08	REF_R	R White-Black level adj.		O
8	VrefL	DAC lower reference voltage input			-
9	VrefU1	DAC upper reference voltage input(CH5~CH8)			-
10	Vss	GND			-
11	VrefU2	DAC upper reference voltage input(CH1~CH4)			-
12	A01	B_CENT			O
13	A02	G_CENT			O
14	A03	R_CENT			O
15	A04	not use			O
16	Vcc	Buffer power supply(2.4*VrefU ~ 12V)			-
17	Vdd	Power supply +5V±10%			-
18	CS2	Setting pin 2 for slave address			I
19	CS1	Setting pin 1 for slave address			I
20	CS0	Setting pin 0 for slave address			I

● IIC Bus DA Converter (IC1501, M62399FP) Port Functions

No.	Name	Function Name	Function	Polarity	I/O
1	R	Reset input			I
2	SCL	IIC BUS SCL			I
3	SDA	IIC BUS SDA			I/O
4	A05	not use			O
5	A06	V_COMR	R-Common center adj.		O
6	A07	V_COMG	G-Common center adj.		O
7	A08	V_COMB	B-Common center adj.		O
8	VrefL	DAC lower reference voltage input			-
9	VrefU1	DAC upper reference voltage input(CH5~CH8)			-
10	Vss	GND			-
11	VrefU2	DAC upper reference voltage input(CH1~CH4)			-
12	A01	NRSB			O
13	A02	NRSA			O
14	A03	XRG T			O
15	A04	RGT			O
16	Vcc	Buffer power supply(2.4*VrefU ~ 12V)			-
17	Vdd	Power supply +5V±10%			-
18	CS2	Setting pin 2 for slave address (GND)			I
19	CS1	Setting pin 1 for slave address (GND)			I
20	CS0	Setting pin 0 for slave address (GND)			I

● IIC Bus DA Converter (IC4881, M62393FP) Port Functions

No.	Name	Function Name	Function	Polarity	I/O
1	R	Reset input			I
2	SCL	IIC BUS SCL			I
3	SDA	IIC BUS SDA			I/O
4	A05	not use			O
5	A06	not use			O
6	A07	not use			O
7	A08	not use			O
8	VrefL	DAC lower reference voltage input			-
9	VrefU1	DAC upper reference voltage input(CH5~CH8)			-
10	Vss	GND			-
11	VrefU2	DAC upper reference voltage input(CH1~CH4)			-
12	A01	not use			O
13	A02	FAN_CONT3			O
14	A03	FAN_CONT2			O
15	A04	FAN_CONT1			O
16	Vcc	Buffer power supply(4.5V ~ 5.5V)			-
17	Vdd	Power supply +5V±10%			-
18	CS2	Setting pin 2 for slave address (GND)			I
19	CS1	Setting pin 1 for slave address (GND)			I
20	CS0	Setting pin 0 for slave address (GND)			I

VIDEO-IN <IC1141-4>	Y-IN <IC3101-5>	C-IN <IC3101-7>
VIDEO_Y <IC3101-21>	VIDEO_CB <IC3101-22>	VIDEO_CR <IC3101-23>
AV_HSYNC <IC3101-9>	AV_VSYNC <IC3101-4>	
AV_R-OUT <TP13R>	AV_G-OUT <TP13G>	AV_B-OUT <TP13B>
HD_OUT <TPHD>	VD_OUT <TPVD>	GHS_PW <TPGHS>

GVS_PW <TPGVS> CH1=1V AC 10:1 5ms/div (5ms/div) NORM:200K/s #Trace1= P-P 3.520V	DHS <TPDHS> CH1=1V AC 10:1 10us/div (10us/div) NORM:100MS/s #Trace1= P-P 3.400V	DVS <TPDVS> CH1=1V AC 10:1 5ms/div (5ms/div) NORM:200K/s #Trace1= P-P 3.440V
B-S&H OUT <TP501> CH1=5V DC 10:1 CH2=5V AC 10:1 10us/div (10us/div) NORM:100MS/s #Trace1= P-P 10.60V DC=0	G-S&H OUT <TP531> CH1=5V DC 10:1 CH2=5V AC 10:1 10us/div (10us/div) NORM:100MS/s #Trace1= P-P 10.20V DC=0	R-S&H OUT <TP561> CH1=5V DC 10:1 CH2=5V AC 10:1 10us/div (10us/div) NORM:100MS/s #Trace1= P-P 10.40V DC=0
NRS-G<TP2531> CH1=5V DC 10:1 CH2=5V AC 10:1 10us/div (10us/div) NORM:100MS/s #Trace1= P-P 5.200V DC=0	NRS-B/R <TP2561> CH1=5V DC 10:1 CH2=5V AC 10:1 10us/div (10us/div) NORM:100MS/s #Trace1= P-P 5.200V DC=0	

■ 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.

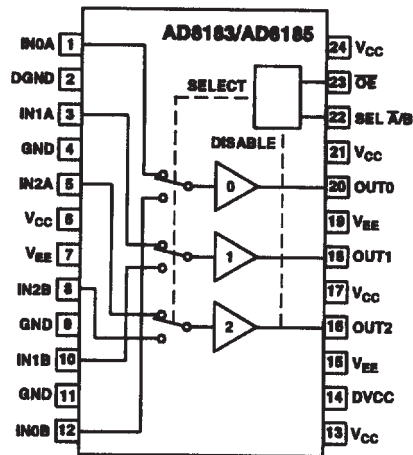
Caution:

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.

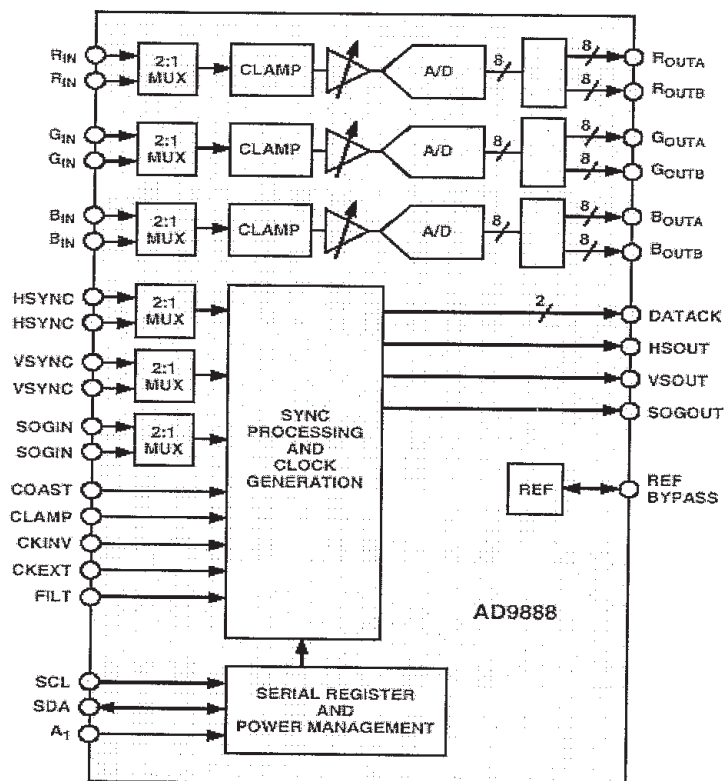
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

■ IC Block Diagrams

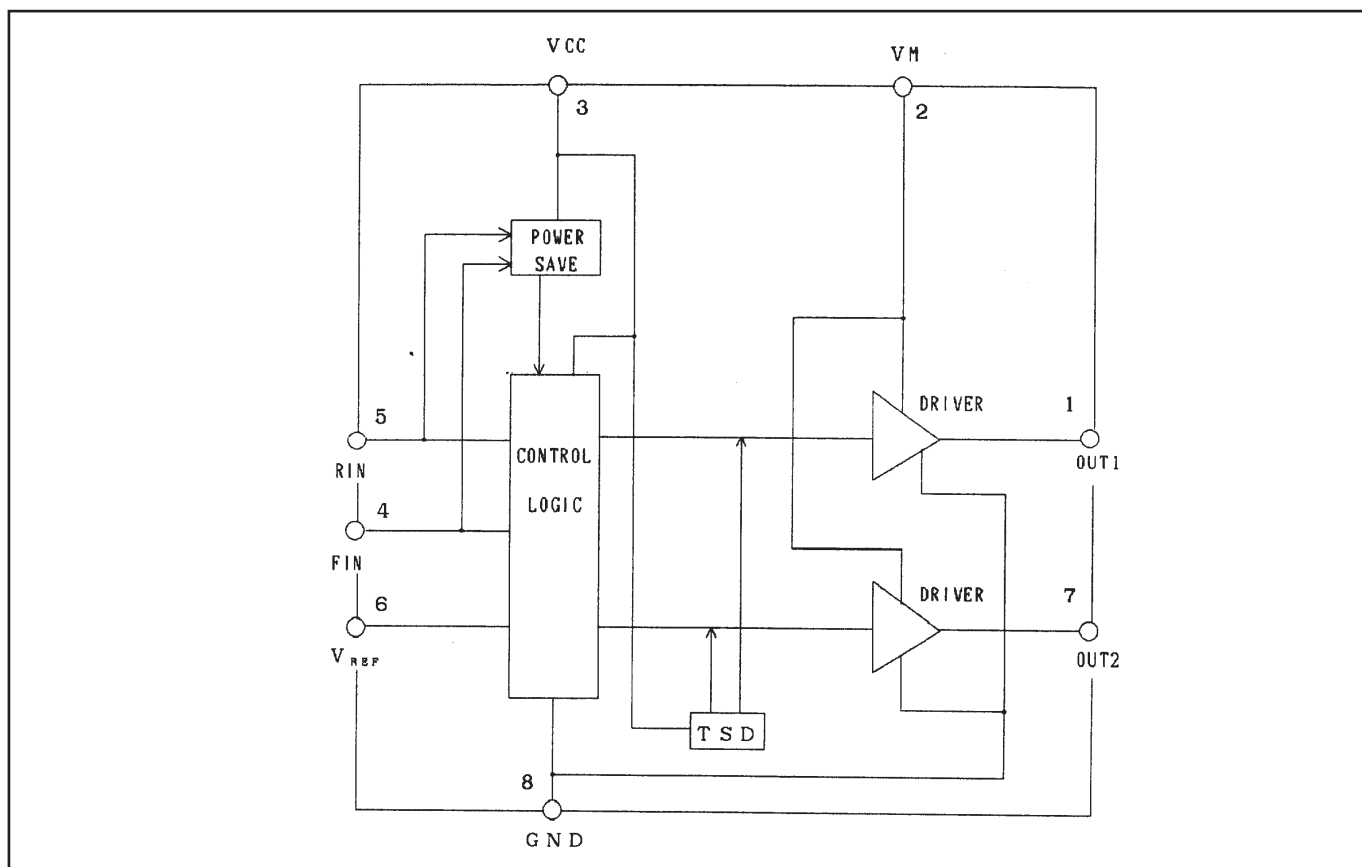
● AD8185ARU <Selector, IC3001>



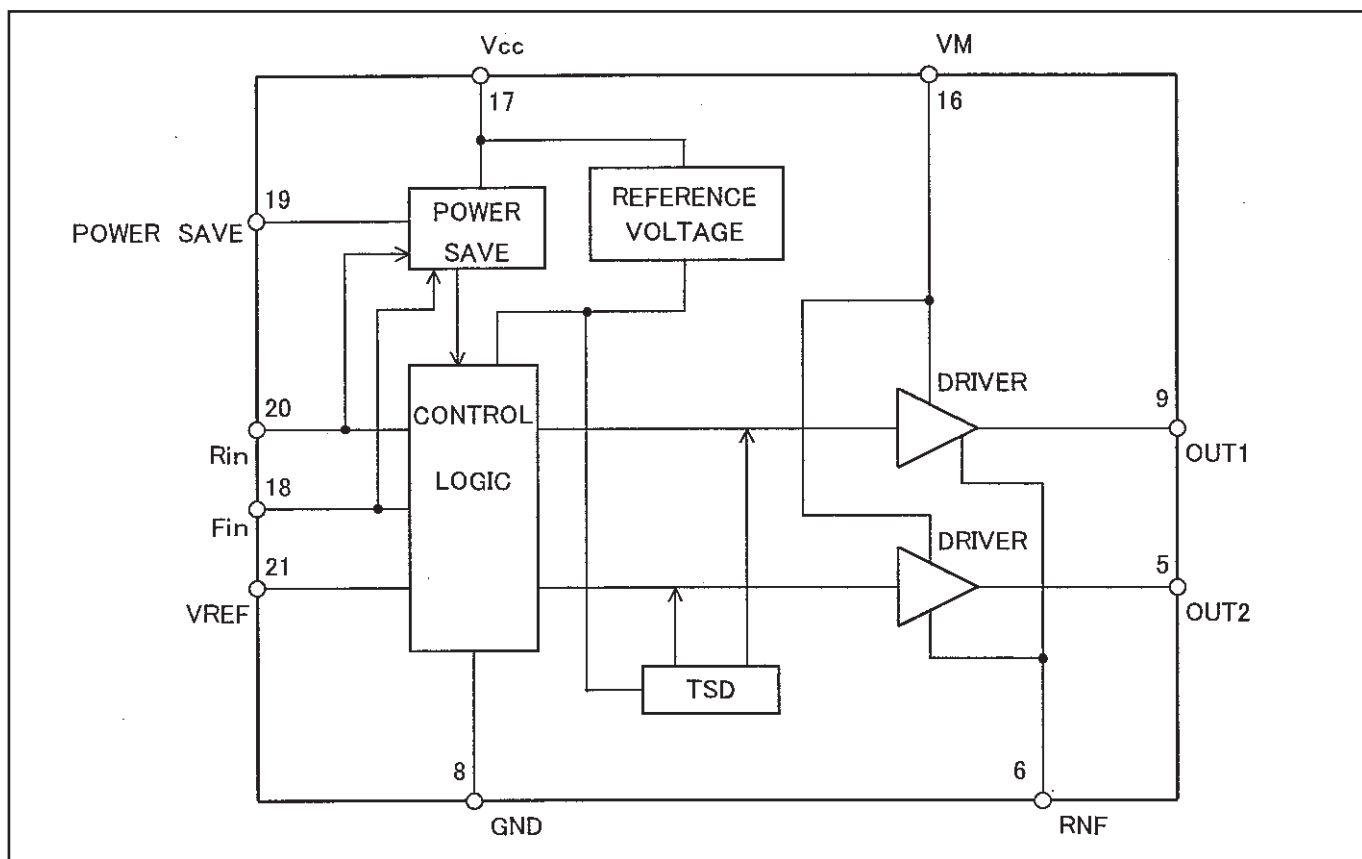
● AD9888KS140 <A/D, IC201>



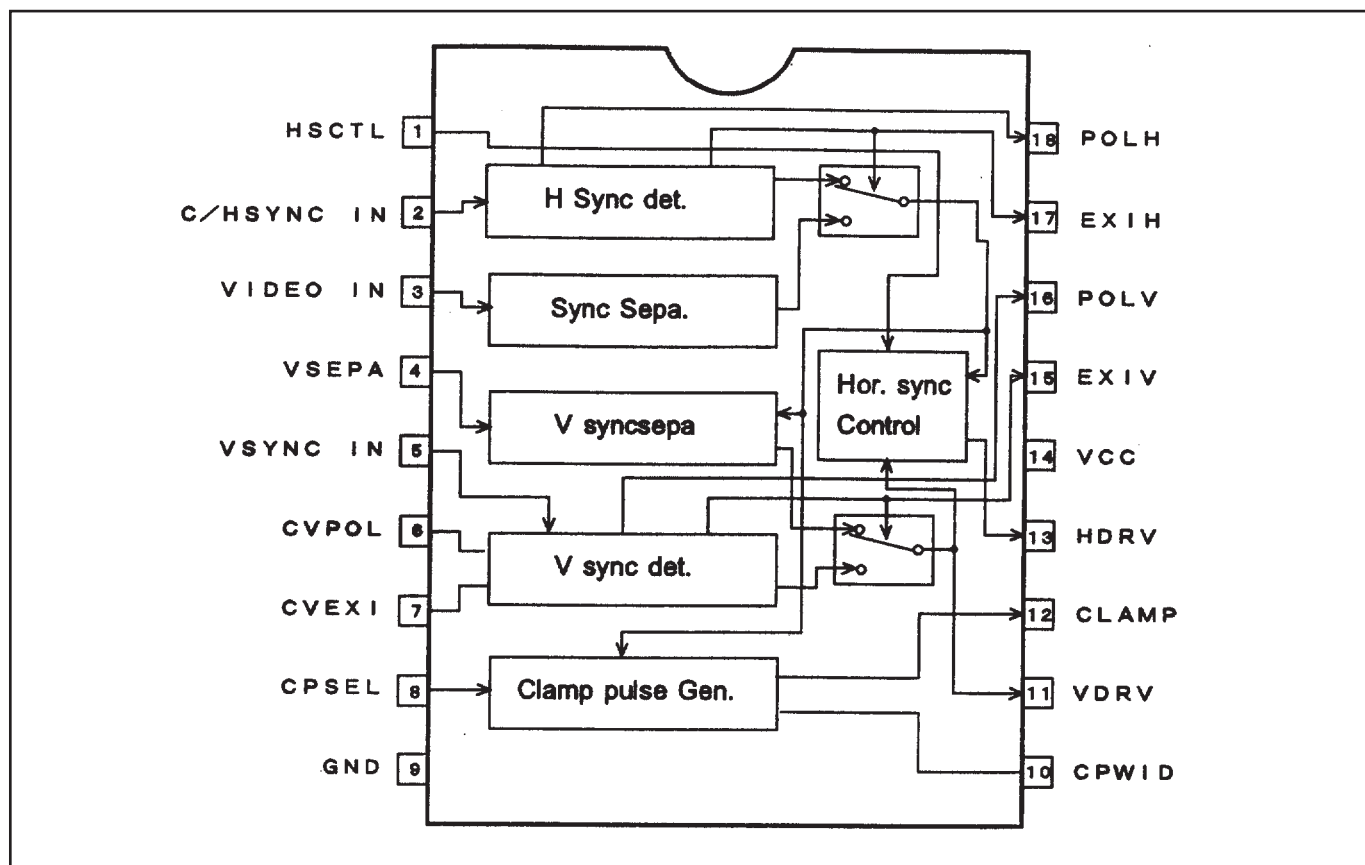
● BA6287F <Motor Drive, IC5501, IC5531, IC6501>



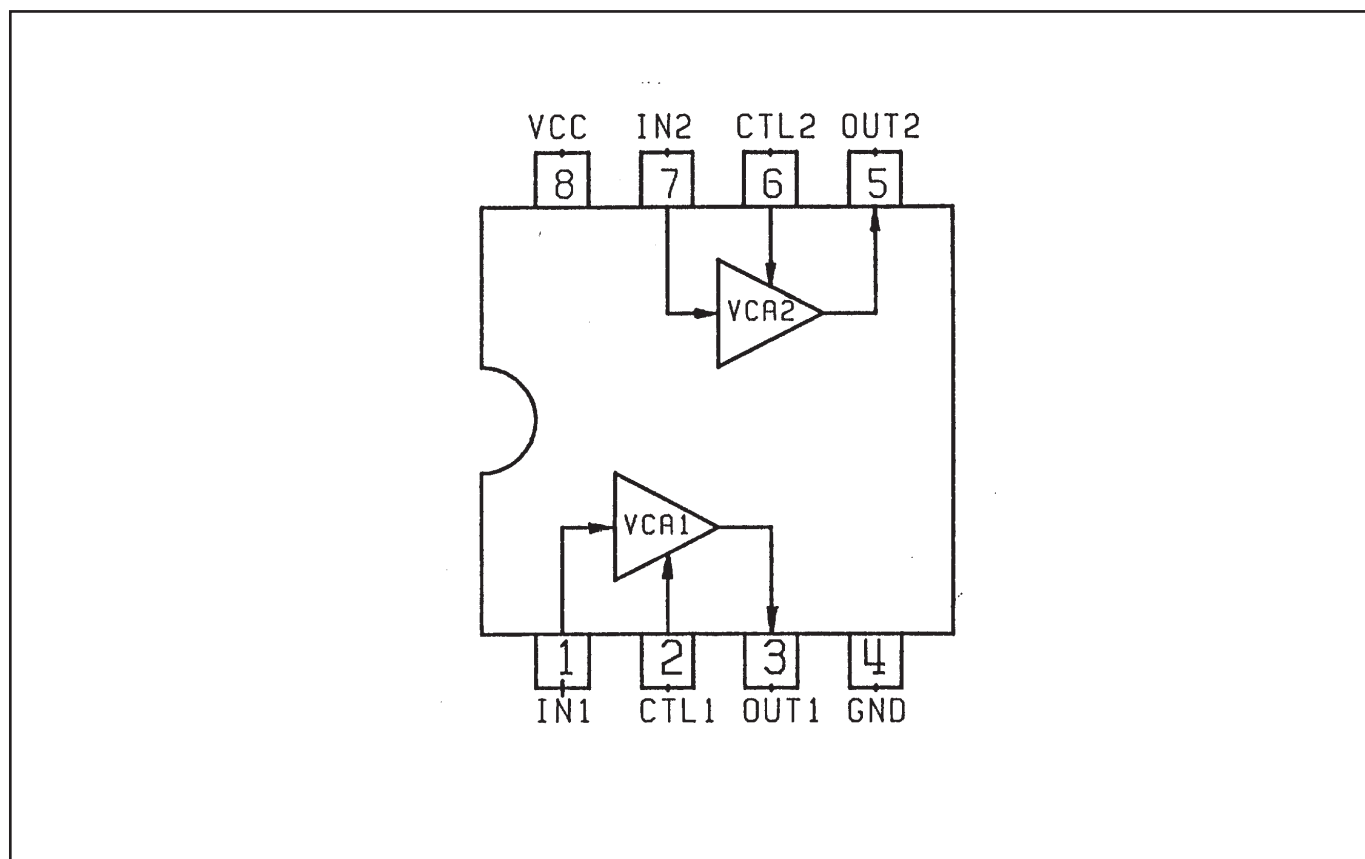
● BA6920F <Motor Drive, IC5561>



● **BA7078AF <SynC. Detector, IC7201>**

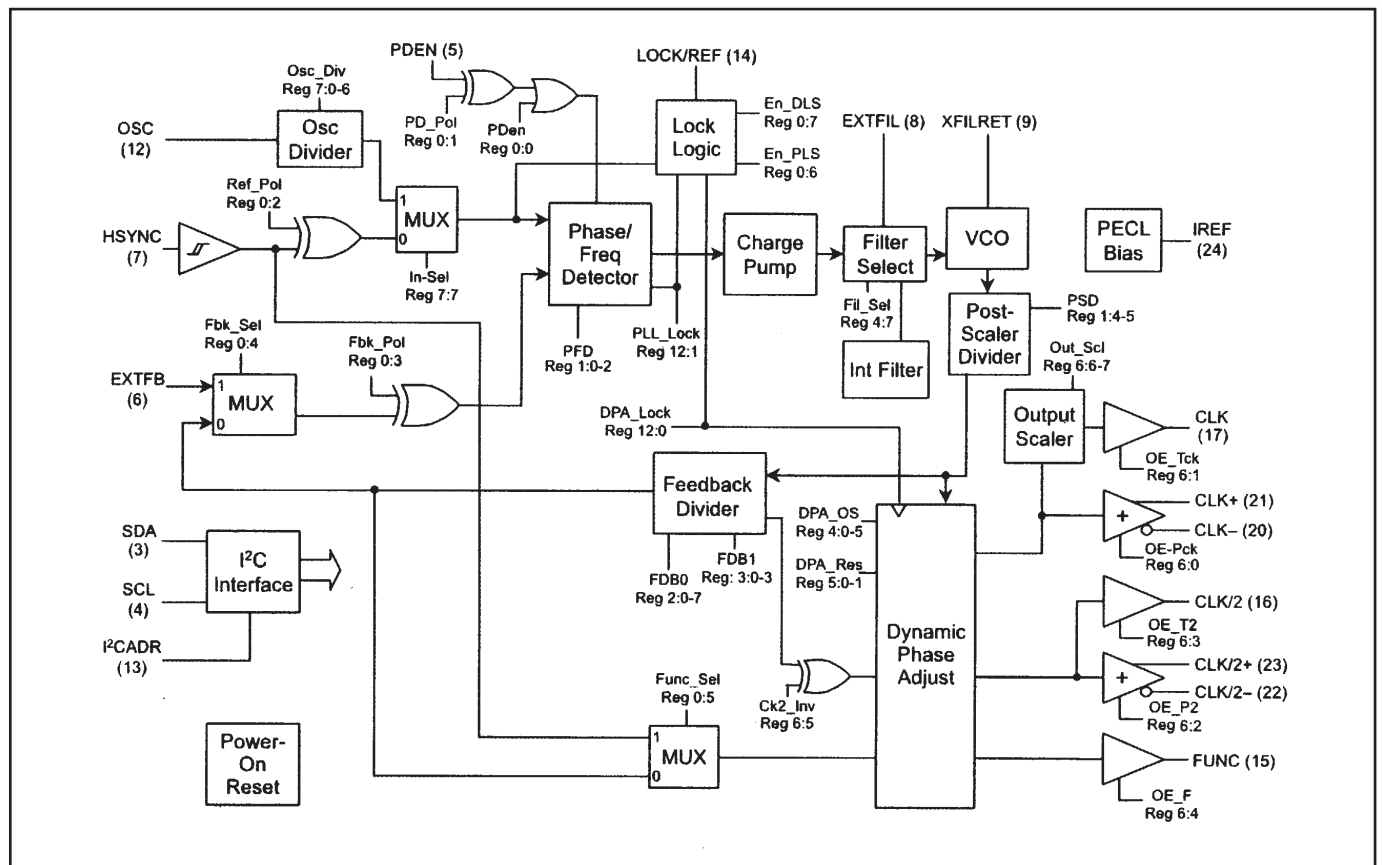


● **BA7655 <Audio Pre-amp, IC001>**

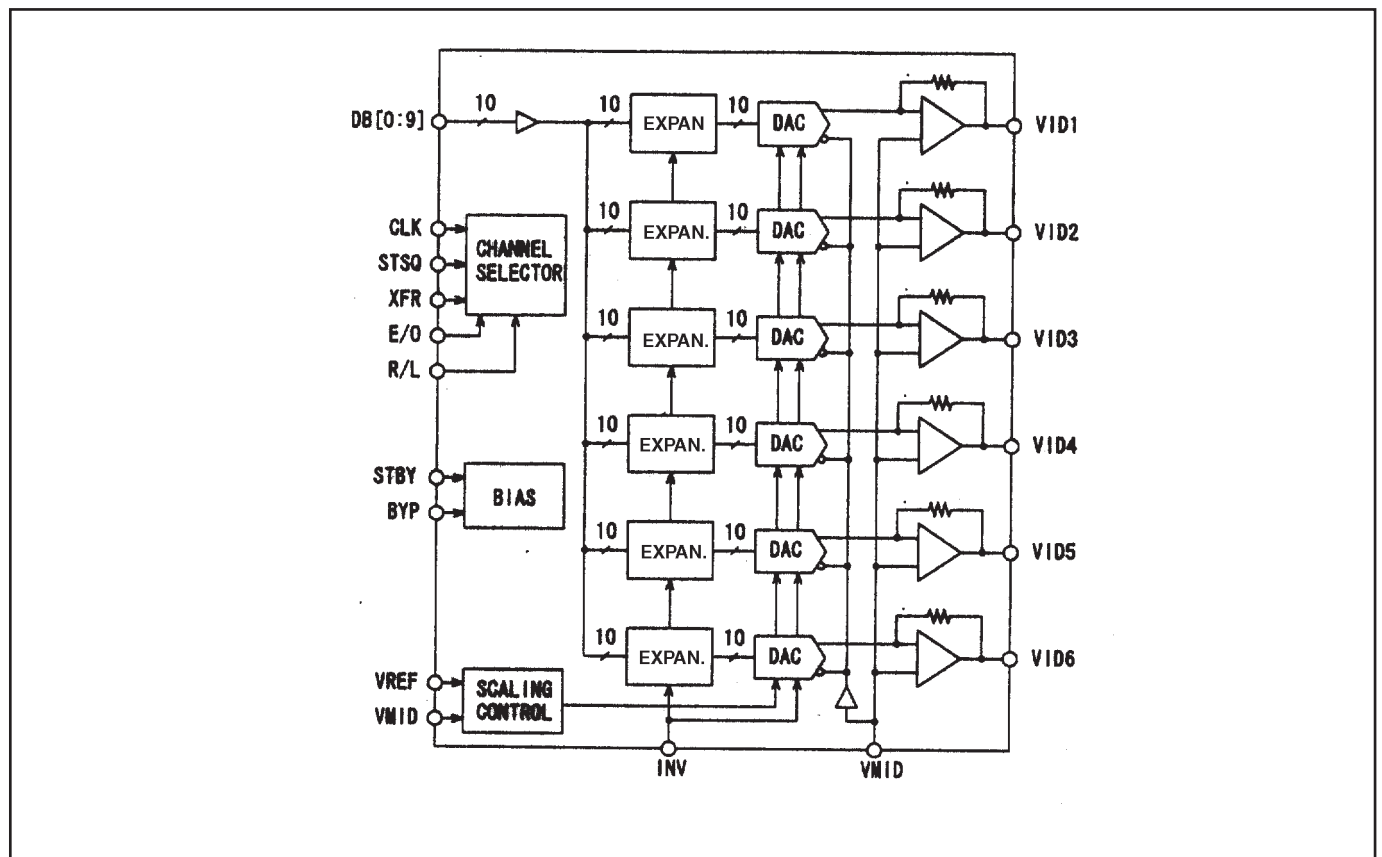




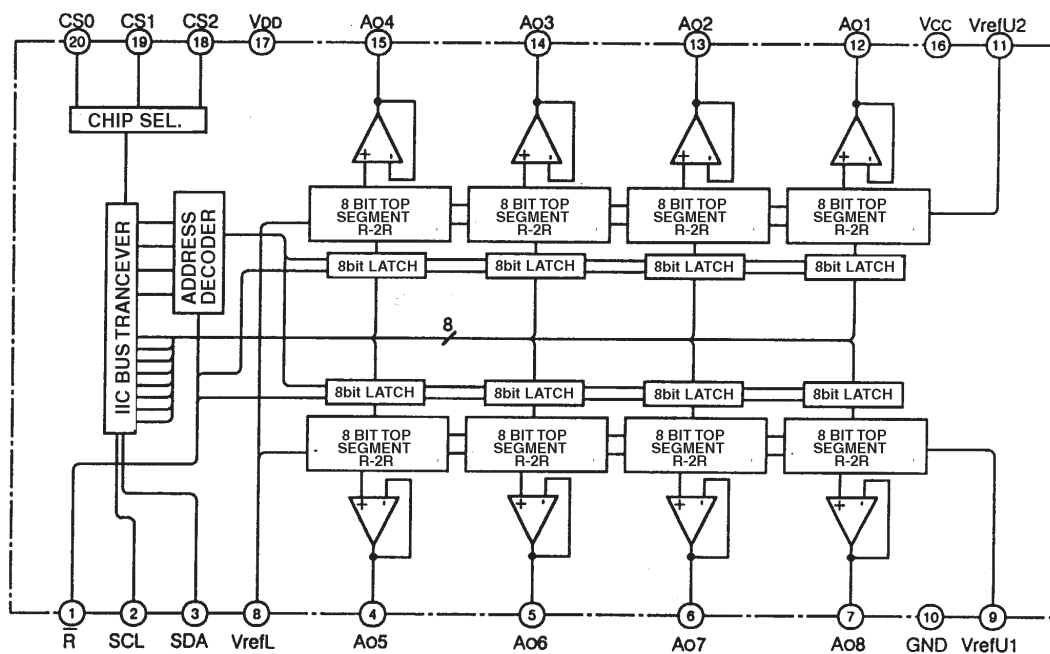
● ICS1523M <PLL, IC4231>



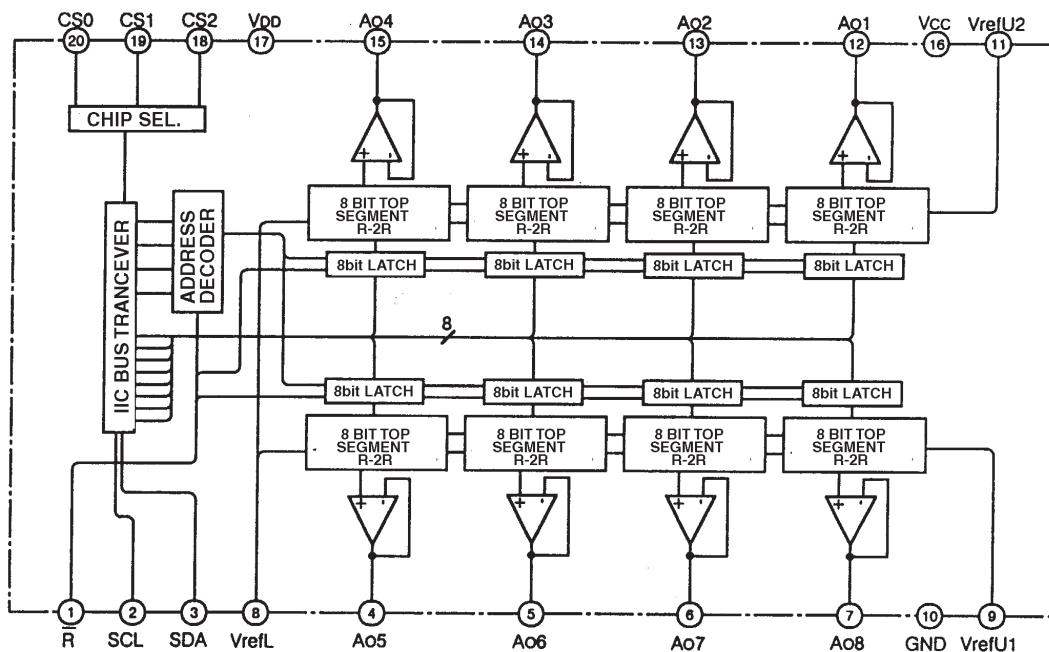
● L306070D <D/A-Sample & Hold, IC501, IC530, IC561>



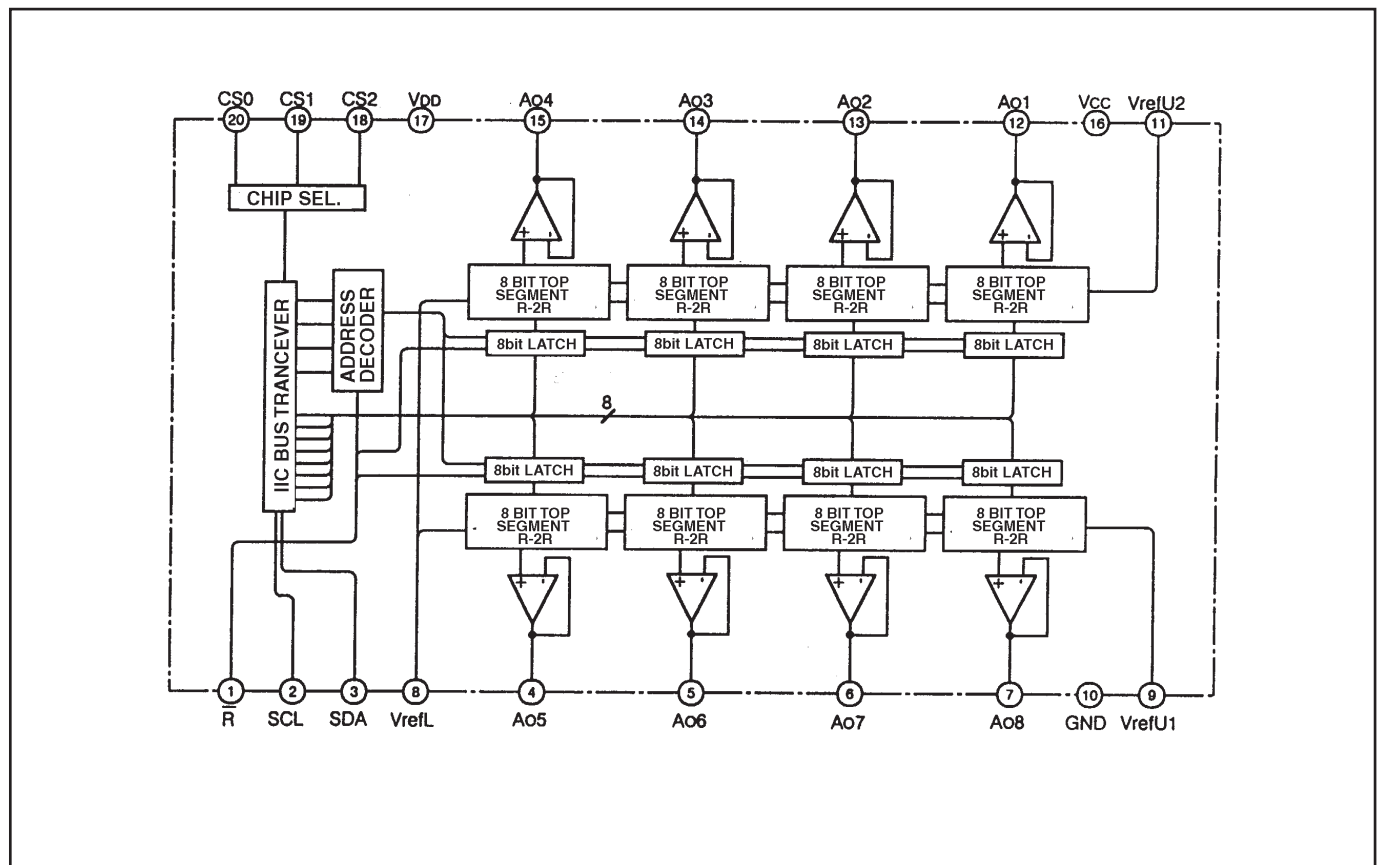
● M62392 <D/A, IC3291>



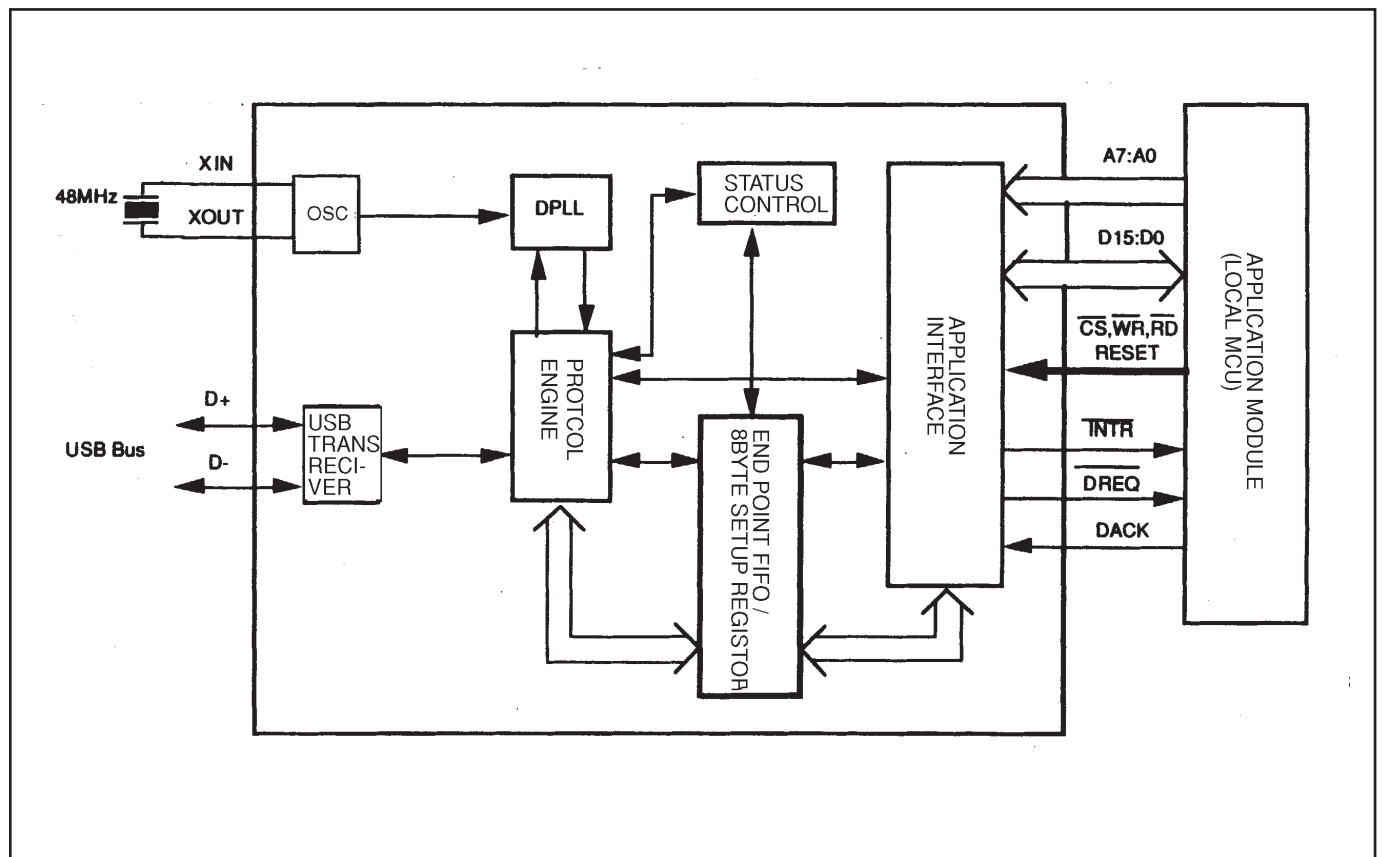
● M62393 <D/A, IC281, IC4881>



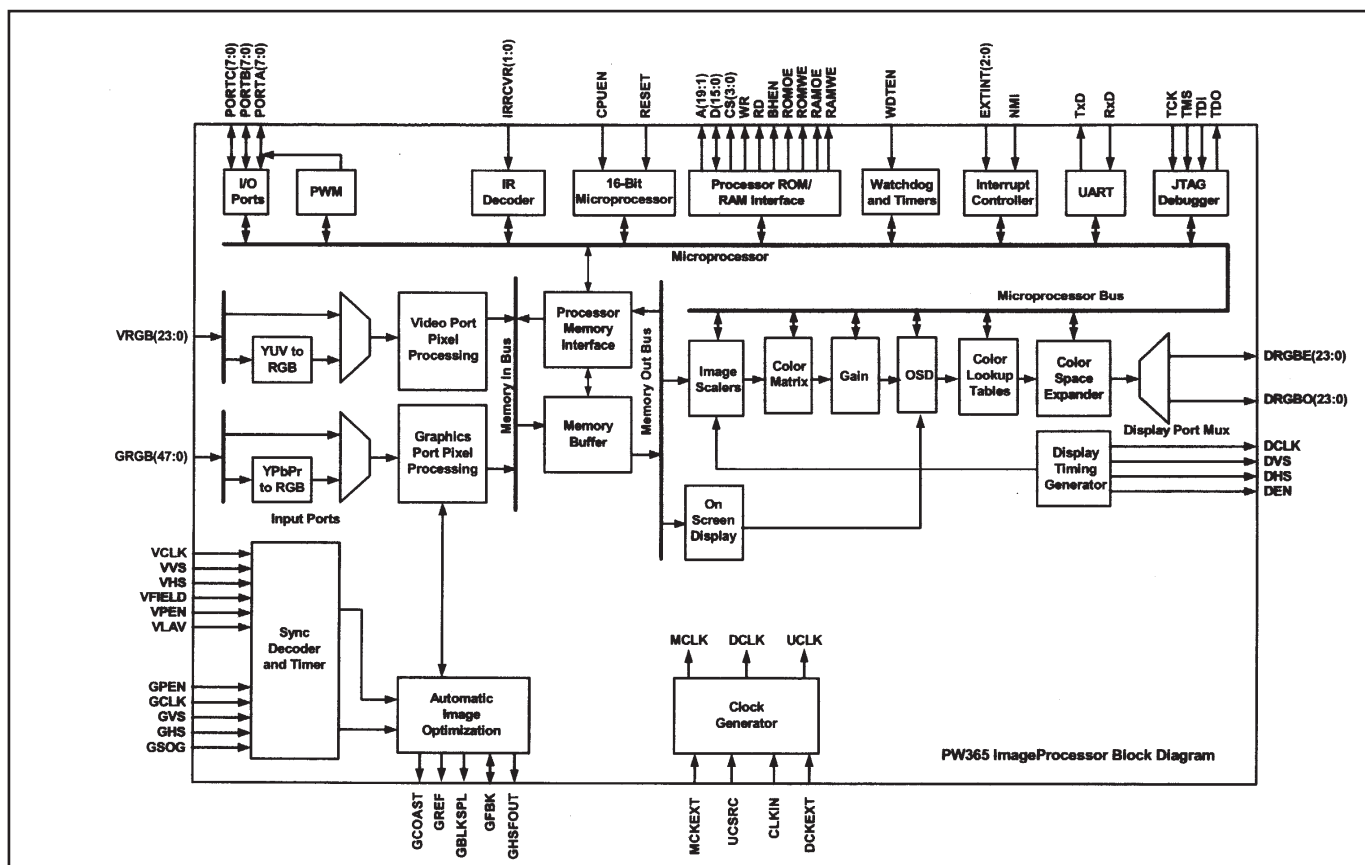
● M62399 <D/A, IC1501, IC1531>



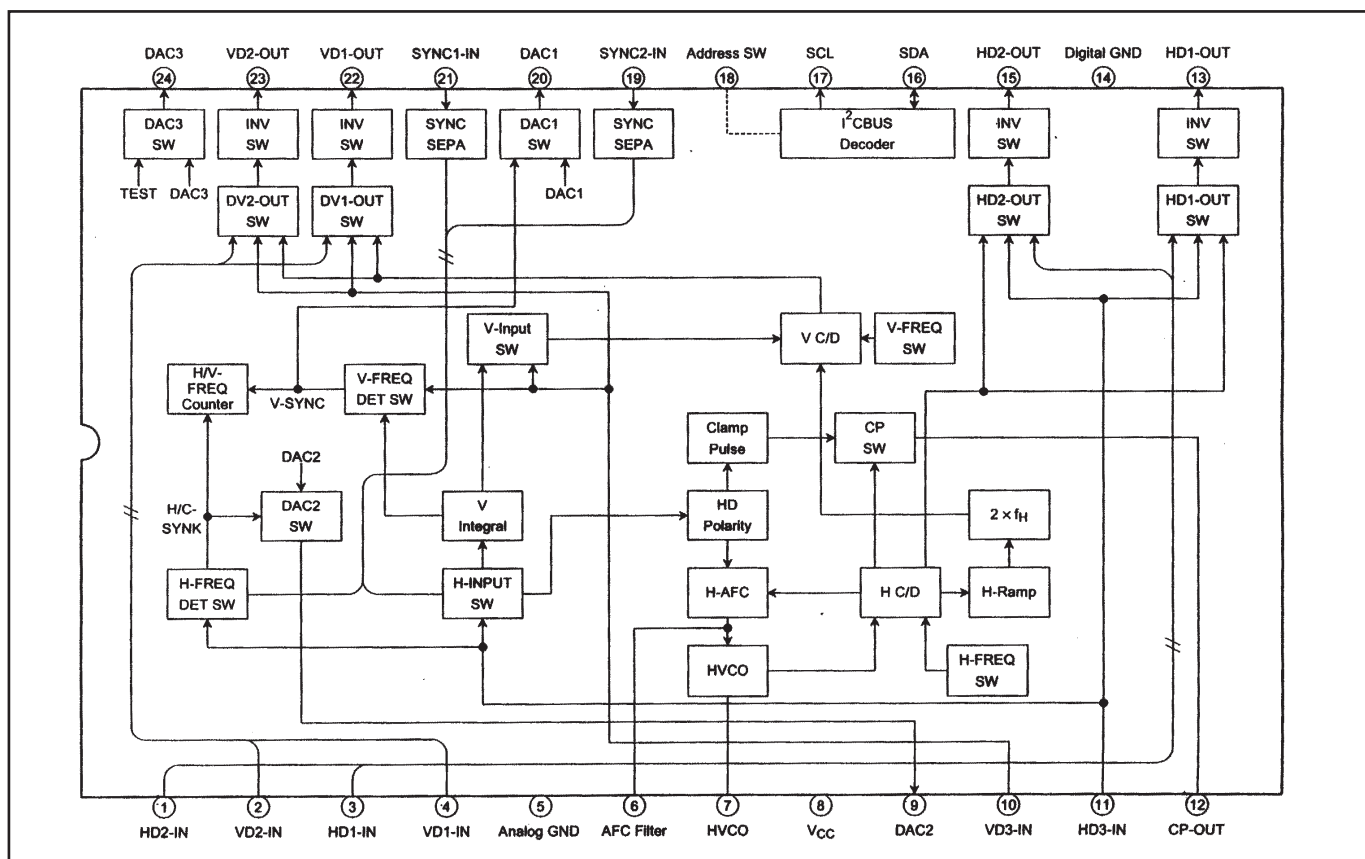
● ML60851 <USB Driver, IC9801>

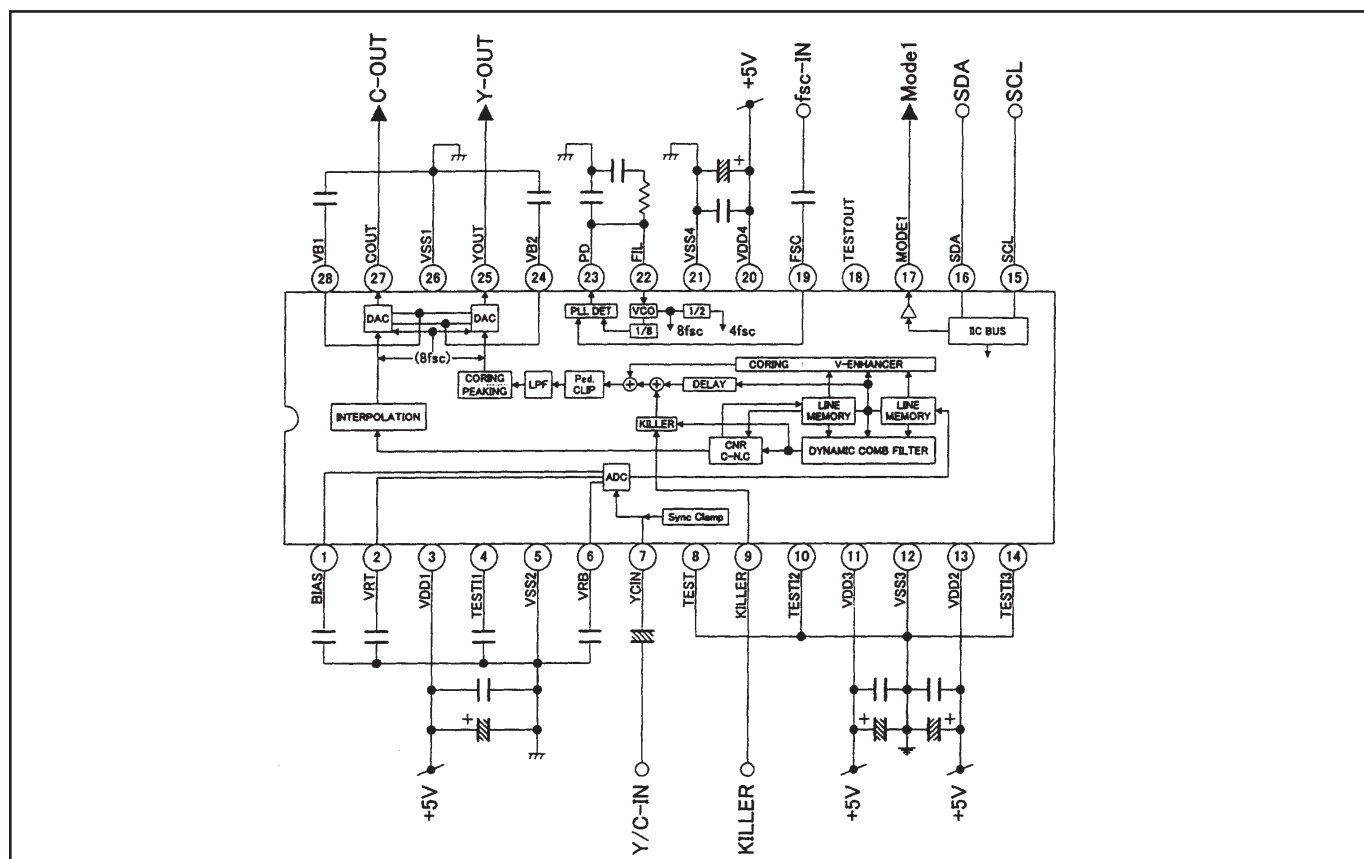


● PW365 <System Control & Scan Converter, IC301>



● TA1318AF <AFC Sync. Driver, IC6181>





● TDA1517ATW <Audio Output, IC031>

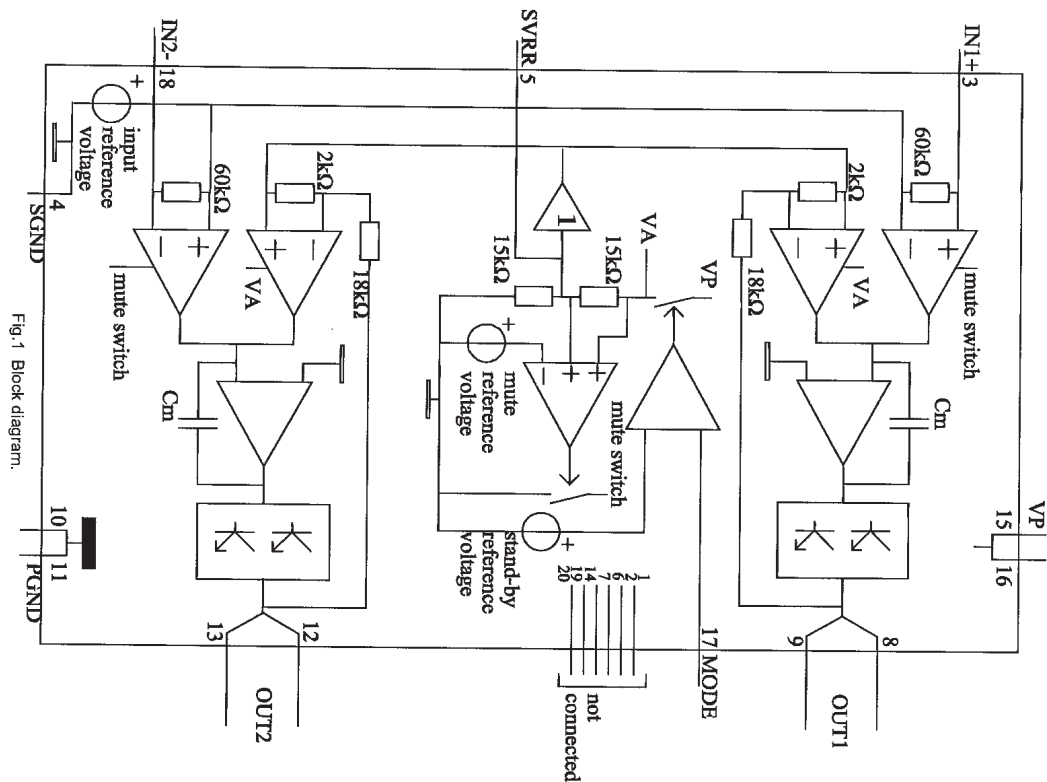


Fig.1 Block diagram.

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 : $\pm 0.1\text{pF}$ F : $\pm 1\text{pF}$
				G : $\pm 2\text{pF}$ H : $\pm 0.1 - 0\text{pF}$ L : $\pm 0 - 0.1\text{pF}$
				R : $\pm 0.25 - 0\text{pF}$ S : $\pm 0 - 0.25\text{pF}$
				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 : $\pm 100 - 0\%$ Q : $\pm 30 - 10\%$ T : $\pm 50 - 10\%$
				U : $\pm 75 - 10\%$ V : $\pm 20 - 10\%$ W : $\pm 100 - 10\%$
				X : $\pm 40 - 20\%$ Y : $\pm 150 - 10\%$ Z : $\pm 80 - 20\%$
				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..... Metallized Polyphenylene Sulfide Film
MT-PEN-FILM..... Metallized 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: $\pm 5 - 15\%$ Z: 0 ohm
					Rated value, ohms:
					K: 1,000, M: 1,000,000

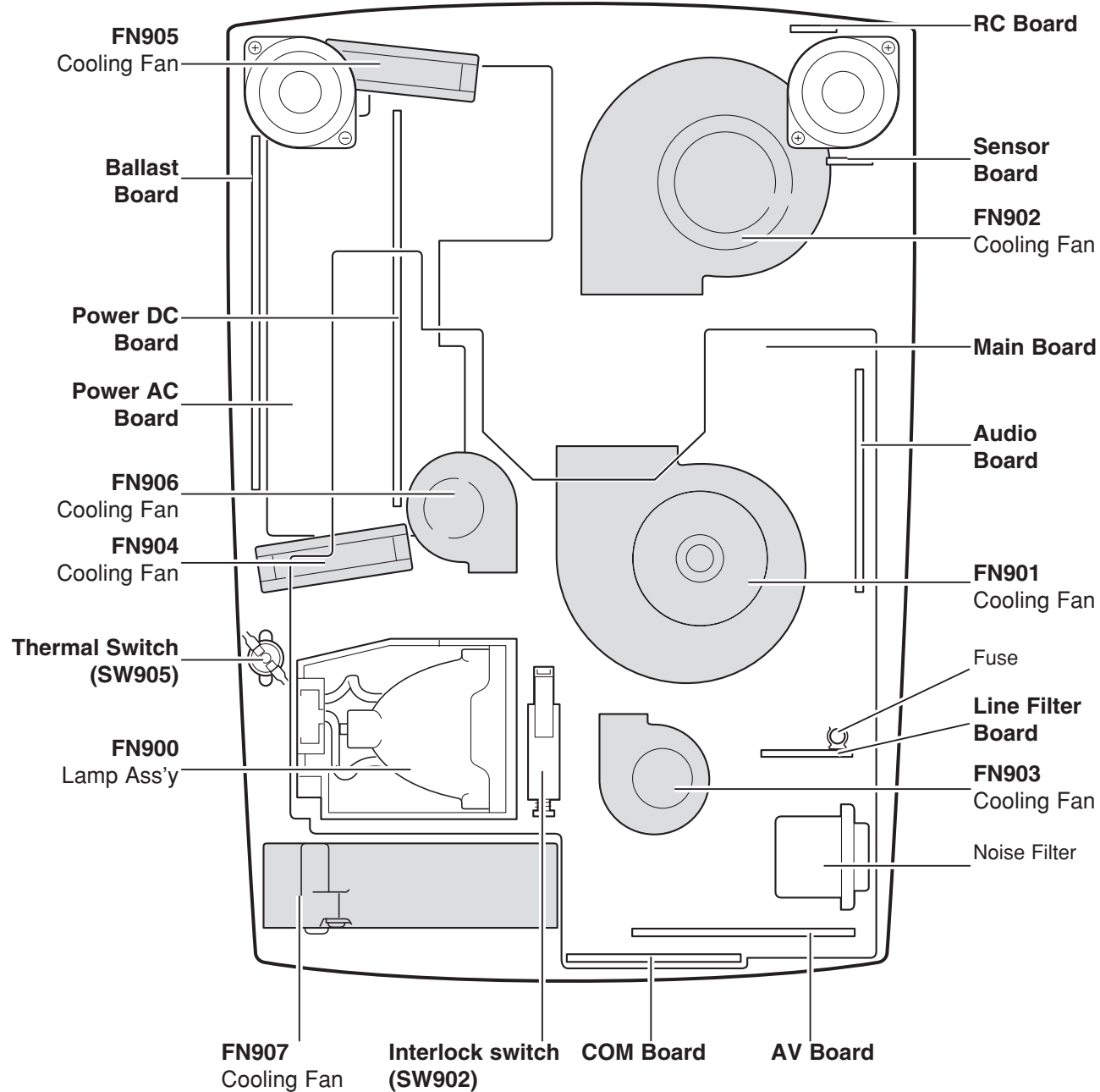
Material:

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
RESISTOR Other

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 1943	ASSY,PWB,MAIN MC3A			405 147 2205	TR 2SA1037AK-S-T146
△610 301 1950	ASSY,PWB,TEMP.SENSOR MC3A			405 002 0308	TR 2SA1037K T146 R
△610 302 6435	ASSY,PWB,AUDIO MC3A			405 002 0407	TR 2SA1037K T146 S
△610 300 6437	ASSY,PWB,COM. MC3A			405 002 6706	TR 2SA1179-M6-TB
△610 300 6444	ASSY,PWB,A/V MC3A			405 002 6904	TR 2SA1179-M7-TB
△610 300 6451	ASSY,PWB,R/C FRONT MC3A			405 163 1503	TR 2SA1179N-M6-TB
△610 302 5902	ASSY,PWB,CONTROL MC3A			405 163 2708	TR 2SA1179N-M7-TB
OUT OF CIRCUIT BOARDS			Q1145	405 014 4509	TR 2SC2412K T146 R
△LF901	645 056 7285	UNIT,NOISE FILTER		405 014 4608	TR 2SC2412K T146 S
△LP901	610 301 7167	COMPL,OPTICAL LAMP-MC3A		405 015 8704	TR 2SC2812-L6-TB
△A601	645 054 9182	UNIT, POWER (AC)		405 015 8902	TR 2SC2812-L7-TB
△A602	645 054 9175	UNIT, POWER (DC)		405 163 1602	TR 2SC2812N-L6-TB0
△A603	645 054 9199	UNIT, POWER (FILTER)		405 163 1701	TR 2SC2812N-L7-TB0
△A901	645 053 5079	UNIT, BALLAST	Q1146	405 134 5905	TR 2SA1037AK-T146-R
△FN901	645 055 8023	MOTOR,FAN DC 10.8W		405 147 2205	TR 2SA1037AK-S-T146
△FN902	645 055 8023	MOTOR,FAN DC 10.8W		405 002 0308	TR 2SA1037K T146 R
△FN903	645 055 7934	MOTOR,FAN DC 1.92W		405 002 0407	TR 2SA1037K T146 S
△FN904	645 056 6998	MOTOR,FAN DC 1.8W		405 002 6706	TR 2SA1179-M6-TB
△FN905	645 056 7001	MOTOR,FAN DC 1.8W		405 002 6904	TR 2SA1179-M7-TB
△FN906	645 055 7941	MOTOR,FAN DC 1.92W		405 163 1503	TR 2SA1179N-M6-TB
△FN907	645 055 8016	MOTOR,FAN DC 10.8W		405 163 2708	TR 2SA1179N-M7-TB
SP901	645 054 9205	SPEAKER, 8	Q1147	405 134 5905	TR 2SA1037AK-T146-R
SP902	645 054 9205	SPEAKER, 8		405 147 2205	TR 2SA1037AK-S-T146
△SW902	645 031 7743	SWITCH, PUSH 2P-2TX2		405 002 0308	TR 2SA1037K T146 R
△SW905	645 048 3158	SWITCH, THERMAL		405 002 0407	TR 2SA1037K T146 S
MAIN BOARD				405 002 6706	TR 2SA1179-M6-TB
△610 301 1943	ASSY,PWB,MAIN MC3A			405 002 6904	TR 2SA1179-M7-TB
TRANSISTOR				405 163 1503	TR 2SA1179N-M6-TB
Q1101	405 134 5905	TR 2SA1037AK-T146-R		405 163 2708	TR 2SA1179N-M7-TB
	405 147 2205	TR 2SA1037AK-S-T146	Q1149	405 014 4509	TR 2SC2412K T146 R
	405 002 0308	TR 2SA1037K T146 R		405 014 4608	TR 2SC2412K T146 S
	405 002 0407	TR 2SA1037K T146 S		405 015 8704	TR 2SC2812-L6-TB
	405 002 6706	TR 2SA1179-M6-TB		405 015 8902	TR 2SC2812-L7-TB
	405 002 6904	TR 2SA1179-M7-TB		405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1503	TR 2SA1179N-M6-TB		405 163 1701	TR 2SC2812N-L7-TB0
	405 163 2708	TR 2SA1179N-M7-TB	Q1151	405 134 5905	TR 2SA1037AK-T146-R
Q1141	405 014 4509	TR 2SC2412K T146 R		405 147 2205	TR 2SA1037AK-S-T146
	405 014 4608	TR 2SC2412K T146 S		405 002 0308	TR 2SA1037K T146 R
	405 015 8704	TR 2SC2812-L6-TB		405 002 0407	TR 2SA1037K T146 S
	405 015 8902	TR 2SC2812-L7-TB		405 002 6706	TR 2SA1179-M6-TB
	405 163 1602	TR 2SC2812N-L6-TB0		405 002 6904	TR 2SA1179-M7-TB
	405 163 1701	TR 2SC2812N-L7-TB0	Q1161	405 163 1503	TR 2SA1179N-M6-TB
Q1142	405 014 4509	TR 2SC2412K T146 R		405 163 2708	TR 2SA1179N-M7-TB
	405 014 4608	TR 2SC2412K T146 S		405 134 5905	TR 2SA1037AK-T146-R
	405 015 8704	TR 2SC2812-L6-TB		405 147 2205	TR 2SA1037AK-S-T146
	405 015 8902	TR 2SC2812-L7-TB		405 002 0308	TR 2SA1037K T146 R
	405 163 1602	TR 2SC2812N-L6-TB0		405 002 0407	TR 2SA1037K T146 S
	405 163 1701	TR 2SC2812N-L7-TB0		405 002 6706	TR 2SA1179-M6-TB
Q1143	405 014 4509	TR 2SC2412K T146 R		405 002 6904	TR 2SA1179-M7-TB
	405 014 4608	TR 2SC2412K T146 S	Q1163	405 134 5905	TR 2SA1037AK-T146-R
	405 015 8704	TR 2SC2812-L6-TB		405 147 2205	TR 2SA1037AK-S-T146
	405 015 8902	TR 2SC2812-L7-TB		405 002 0308	TR 2SA1037K T146 R
	405 163 1602	TR 2SC2812N-L6-TB0		405 002 0407	TR 2SA1037K T146 S
	405 163 1701	TR 2SC2812N-L7-TB0		405 002 6706	TR 2SA1179-M6-TB
Q1144	405 134 5905	TR 2SA1037AK-T146-R		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
Q141	405 014 4509	TR 2SC2412K T146 R	Q1852	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		405 014 4509	TR 2SC2412K T146 R
	405 163 1602	TR 2SC2812N-L6-TB0		405 014 4608	TR 2SC2412K T146 S
Q142	405 163 1701	TR 2SC2812N-L7-TB0	Q2101	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	Q2102	405 014 4509	TR 2SC2412K T146 R
Q143	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
	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
Q144	405 015 8704	TR 2SC2812-L6-TB	Q2501	405 163 1701	TR 2SC2812N-L7-TB0
	405 015 8902	TR 2SC2812-L7-TB		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
	405 134 5905	TR 2SA1037AK-T146-R	Q2502	405 015 8902	TR 2SC2812-L7-TB
Q145	405 147 2205	TR 2SA1037AK-S-T146		405 163 1602	TR 2SC2812N-L6-TB0
	405 002 0308	TR 2SA1037K T146 R		405 163 1701	TR 2SC2812N-L7-TB0
	405 002 0407	TR 2SA1037K T146 S	Q2511	405 002 8304	TR 2SA1203-Y-TE12L
	405 002 6706	TR 2SA1179-M6-TB		405 014 4509	TR 2SC2412K T146 R
Q146	405 002 6904	TR 2SA1179-M7-TB		405 014 4608	TR 2SC2412K T146 S
	405 163 1503	TR 2SA1179N-M6-TB		405 015 8704	TR 2SC2812-L6-TB
	405 163 2708	TR 2SA1179N-M7-TB		405 015 8902	TR 2SC2812-L7-TB
Q147	405 014 4509	TR 2SC2412K T146 R		405 163 1602	TR 2SC2812N-L6-TB0
	405 014 4608	TR 2SC2412K T146 S	Q2541	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
Q148	405 163 1701	TR 2SC2812N-L7-TB0	Q2571	405 015 8902	TR 2SC2812-L7-TB
	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	Q2591	405 014 4509	TR 2SC2412K T146 R
	405 015 8902	TR 2SC2812-L7-TB		405 014 4608	TR 2SC2412K T146 S
Q149	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
	405 134 5905	TR 2SA1037AK-T146-R		405 163 1602	TR 2SC2812N-L6-TB0
	405 147 2205	TR 2SA1037AK-S-T146		405 163 1701	TR 2SC2812N-L7-TB0
Q1561	405 002 0308	TR 2SA1037K T146 R	Q271	405 134 5905	TR 2SA1037AK-T146-R
	405 002 0407	TR 2SA1037K T146 S		405 147 2205	TR 2SA1037AK-S-T146
	405 002 6706	TR 2SA1179-M6-TB		405 002 0308	TR 2SA1037K T146 R
	405 002 6904	TR 2SA1179-M7-TB		405 002 0407	TR 2SA1037K T146 S
	405 163 1503	TR 2SA1179N-M6-TB	Q3103	405 002 6706	TR 2SA1179-M6-TB
Q1851	405 163 2708	TR 2SA1179N-M7-TB		405 002 6904	TR 2SA1179-M7-TB
	405 014 4509	TR 2SC2412K T146 R		405 163 1503	TR 2SA1179N-M6-TB
	405 014 4608	TR 2SC2412K T146 S		405 163 2708	TR 2SA1179N-M7-TB
	405 015 8704	TR 2SC2812-L6-TB	Q3111	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
	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		405 014 4509	TR 2SC2412K T146 R

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q3112	405 014 4608	TR 2SC2412K T146 S	Q3301	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
Q3113	405 014 4509	TR 2SC2412K T146 R	Q3302	405 163 1701	TR 2SC2812N-L7-TB0
	405 014 4608	TR 2SC2412K T146 S		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
Q3116	405 163 1701	TR 2SC2812N-L7-TB0	Q4181	405 163 1602	TR 2SC2812N-L6-TB0
	405 014 4509	TR 2SC2412K T146 R		405 163 1701	TR 2SC2812N-L7-TB0
	405 014 4608	TR 2SC2412K T146 S		405 134 5905	TR 2SA1037AK-T146-R
	405 015 8704	TR 2SC2812-L6-TB		405 147 2205	TR 2SA1037AK-S-T146
	405 015 8902	TR 2SC2812-L7-TB		405 002 0308	TR 2SA1037K T146 R
Q3117	405 163 1602	TR 2SC2812N-L6-TB0		405 002 0407	TR 2SA1037K T146 S
	405 163 1701	TR 2SC2812N-L7-TB0	Q4182	405 002 6706	TR 2SA1179-M6-TB
	405 014 4509	TR 2SC2412K T146 R		405 002 6904	TR 2SA1179-M7-TB
	405 014 4608	TR 2SC2412K T146 S		405 163 1503	TR 2SA1179N-M6-TB
	405 015 8704	TR 2SC2812-L6-TB		405 163 2708	TR 2SA1179N-M7-TB
Q3118	405 015 8902	TR 2SC2812-L7-TB	Q4801	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
	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
Q3171	405 015 8704	TR 2SC2812-L6-TB	Q4802	405 163 1701	TR 2SC2812N-L7-TB0
	405 015 8902	TR 2SC2812-L7-TB		405 134 5905	TR 2SA1037AK-T146-R
	405 163 1602	TR 2SC2812N-L6-TB0		405 147 2205	TR 2SA1037AK-S-T146
	405 163 1701	TR 2SC2812N-L7-TB0		405 002 0308	TR 2SA1037K T146 R
	405 014 4509	TR 2SC2412K T146 R		405 002 0407	TR 2SA1037K T146 S
Q3172	405 014 4608	TR 2SC2412K T146 S	Q4803	405 002 6706	TR 2SA1179-M6-TB
	405 015 8704	TR 2SC2812-L6-TB		405 002 6904	TR 2SA1179-M7-TB
	405 015 8902	TR 2SC2812-L7-TB		405 163 1503	TR 2SA1179N-M6-TB
	405 163 1602	TR 2SC2812N-L6-TB0		405 163 2708	TR 2SA1179N-M7-TB
	405 163 1701	TR 2SC2812N-L7-TB0	Q4804	405 134 5905	TR 2SA1037AK-T146-R
Q3173	405 014 4509	TR 2SC2412K T146 R		405 147 2205	TR 2SA1037AK-S-T146
	405 014 4608	TR 2SC2412K T146 S		405 002 0308	TR 2SA1037K T146 R
	405 015 8704	TR 2SC2812-L6-TB		405 002 0407	TR 2SA1037K T146 S
	405 015 8902	TR 2SC2812-L7-TB		405 002 6706	TR 2SA1179-M6-TB
Q3181	405 163 1602	TR 2SC2812N-L6-TB0		405 002 6904	TR 2SA1179-M7-TB
	405 163 1701	TR 2SC2812N-L7-TB0	Q4805	405 163 1503	TR 2SA1179N-M6-TB
	405 014 4509	TR 2SC2412K T146 R		405 163 2708	TR 2SA1179N-M7-TB
	405 014 4608	TR 2SC2412K T146 S		405 014 4509	TR 2SC2412K T146 R
	405 015 8704	TR 2SC2812-L6-TB		405 014 4608	TR 2SC2412K T146 S
Q3182	405 015 8902	TR 2SC2812-L7-TB	Q4807	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
	405 134 5905	TR 2SA1037AK-T146-R		405 163 1701	TR 2SC2812N-L7-TB0
	405 147 2205	TR 2SA1037AK-S-T146		405 014 4509	TR 2SC2412K T146 R
	405 002 0308	TR 2SA1037K T146 R		405 014 4608	TR 2SC2412K T146 S
	405 002 0407	TR 2SA1037K T146 S		405 015 8704	TR 2SC2812-L6-TB
	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
Q4891	405 015 8902	TR 2SC2812-L7-TB	Q6141	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
	405 014 4509	TR 2SC2412K T146 R		405 163 1701	TR 2SC2812N-L7-TB0
	405 014 4608	TR 2SC2412K T146 S		405 014 4509	TR 2SC2412K T146 R
	405 015 8704	TR 2SC2812-L6-TB		405 014 4608	TR 2SC2412K T146 S
Q5131	405 015 8902	TR 2SC2812-L7-TB	Q6142	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
	405 014 4509	TR 2SC2412K T146 R		405 163 1701	TR 2SC2812N-L7-TB0
	405 014 4608	TR 2SC2412K T146 S		405 134 5905	TR 2SA1037AK-T146-R
	405 015 8704	TR 2SC2812-L6-TB		405 147 2205	TR 2SA1037AK-S-T146
Q5132	405 015 8902	TR 2SC2812-L7-TB	Q6146	405 002 0308	TR 2SA1037K T146 R
	405 163 1602	TR 2SC2812N-L6-TB0		405 002 0407	TR 2SA1037K T146 S
	405 163 1701	TR 2SC2812N-L7-TB0		405 002 6706	TR 2SA1179-M6-TB
	405 134 5905	TR 2SA1037AK-T146-R		405 002 6904	TR 2SA1179-M7-TB
	405 147 2205	TR 2SA1037AK-S-T146		405 163 1503	TR 2SA1179N-M6-TB
	405 002 0308	TR 2SA1037K T146 R		405 163 2708	TR 2SA1179N-M7-TB
Q5161	405 002 0407	TR 2SA1037K T146 S	Q6161	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
	405 134 5905	TR 2SA1037AK-T146-R		405 163 1701	TR 2SC2812N-L7-TB0
Q5166	405 147 2205	TR 2SA1037AK-S-T146	Q6166	405 134 5905	TR 2SA1037AK-T146-R
	405 002 0308	TR 2SA1037K T146 R		405 147 2205	TR 2SA1037AK-S-T146
	405 002 0407	TR 2SA1037K T146 S		405 002 0308	TR 2SA1037K T146 R
	405 002 6706	TR 2SA1179-M6-TB		405 002 0407	TR 2SA1037K T146 S
	405 002 6904	TR 2SA1179-M7-TB		405 002 6706	TR 2SA1179-M6-TB
	405 163 1503	TR 2SA1179N-M6-TB		405 002 6904	TR 2SA1179-M7-TB
Q5168	405 163 2708	TR 2SA1179N-M7-TB	Q6171	405 163 1503	TR 2SA1179N-M6-TB
	405 014 4509	TR 2SC2412K T146 R		405 163 2708	TR 2SA1179N-M7-TB
	405 014 4608	TR 2SC2412K T146 S		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
Q5171	405 163 1701	TR 2SC2812N-L7-TB0	Q6176	405 163 1602	TR 2SC2812N-L6-TB0
	405 134 5905	TR 2SA1037AK-T146-R		405 163 1701	TR 2SC2812N-L7-TB0
	405 147 2205	TR 2SA1037AK-S-T146		405 014 4509	TR 2SC2412K T146 R
	405 002 0308	TR 2SA1037K T146 R		405 014 4608	TR 2SC2412K T146 S
	405 002 0407	TR 2SA1037K T146 S		405 015 8704	TR 2SC2812-L6-TB
	405 002 6706	TR 2SA1179-M6-TB		405 015 8902	TR 2SC2812-L7-TB
Q5176	405 002 6904	TR 2SA1179-M7-TB	Q9801	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1503	TR 2SA1179N-M6-TB		405 163 1701	TR 2SC2812N-L7-TB0
	405 163 2708	TR 2SA1179N-M7-TB		405 134 5905	TR 2SA1037AK-T146-R
	405 014 4509	TR 2SC2412K T146 R		405 147 2205	TR 2SA1037AK-S-T146
	405 014 4608	TR 2SC2412K T146 S		405 002 0308	TR 2SA1037K T146 R
	405 015 8704	TR 2SC2812-L6-TB		405 002 0407	TR 2SA1037K T146 S
Q5181	405 015 8902	TR 2SC2812-L7-TB	Q9801	405 002 6706	TR 2SA1179-M6-TB
	405 163 1602	TR 2SC2812N-L6-TB0		405 002 6904	TR 2SA1179-M7-TB
	405 163 1701	TR 2SC2812N-L7-TB0		405 163 1503	TR 2SA1179N-M6-TB
	405 134 5905	TR 2SA1037AK-T146-R		405 163 2708	TR 2SA1179N-M7-TB
	405 147 2205	TR 2SA1037AK-S-T146	INTEGRATED CIRCUIT		
	405 002 0308	TR 2SA1037K T146 R	IC1101	409 515 9803	IC UPD64083GF-3BA
Q5186	405 002 0407	TR 2SA1037K T146 S	IC1102	409 416 6406	IC BA033FP-E2
	405 002 6706	TR 2SA1179-M6-TB		409 410 1001	IC UPC2933T-E1
	405 002 6904	TR 2SA1179-M7-TB	IC1141	409 434 8109	IC TC4053BFT-(EL)
	405 163 1503	TR 2SA1179N-M6-TB	IC1161	409 499 1701	IC PQ025EZ012P
	405 163 2708	TR 2SA1179N-M7-TB		409 461 7700	IC PQ2TZ15
	405 014 4509	TR 2SC2412K T146 R			
	405 014 4608	TR 2SC2412K T146 S			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
IC141	409 527 6807	IC NJM2575F1	IC501	409 502 3302	IC L3E06070D0A
IC1501	409 428 9600	IC M62399FP	IC5131	409 323 8906	IC TC4W53FU (TE12L)
IC1531	409 428 9600	IC M62399FP	IC5191	409 404 0805	IC BA7623F
IC1561	409 398 1901	IC L88MS05TL-TL	IC531	409 502 3302	IC L3E06070D0A
IC1571	409 431 2308	IC BA12FP-E2	IC561	409 502 3302	IC L3E06070D0A
IC1801	409 475 3705	IC M66500FP	IC6101	409 428 8405	IC TC7WT125FU-TE12L
IC1802	410 364 6905	IC TC74ACT138FT-EL	IC6111	409 431 6009	IC MC74VHC14DT
IC1841	409 350 2908	IC TC7W126FU- (TE12L)		410 356 8009	IC SN74LV14APWR
IC1851	409 359 1100	IC TC7W240FU-TE12L	IC6121	409 158 5804	IC TC74HC123AF-TP1
IC1871	409 481 8602	IC LM76CHMX-5	IC6131	409 158 5804	IC TC74HC123AF-TP1
IC1872	409 481 8602	IC LM76CHMX-5	IC6161	409 428 8405	IC TC7WT125FU-TE12L
IC1873	409 481 8602	IC LM76CHMX-5	IC6181	409 523 5002	IC TA1318AF
IC201	409 520 4305	IC AD9888KS-140	IC6182	409 301 5408	IC TC7S14FU
IC2101	409 504 5007	IC TC90A69F	IC6301	410 365 4603	IC MS82V16520-8AGA
IC241	409 416 6406	IC BA033FP-E2	IC6321	410 365 4603	IC MS82V16520-8AGA
	409 410 1001	IC UPC2933T-E1	IC6341	410 365 4603	IC MS82V16520-8AGA
IC242	409 416 6406	IC BA033FP-E2	IC6361	410 365 4603	IC MS82V16520-8AGA
	409 410 1001	IC UPC2933T-E1	IC6381	409 534 1703	IC SI-3025LSA-TL
IC243	409 416 6406	IC BA033FP-E2	IC8001	410 451 8805	IC SII161BCT100
	409 410 1001	IC UPC2933T-E1	IC8003	409 434 8109	IC TC4053BFT- (EL)
IC2531	409 390 0001	IC LM7171AIMX	IC8004	409 487 5803	IC 24C01CT/SN
	409 486 7709	IC LM7171BIMX	IC801	410 445 9603	IC HD64F7045F28-C047
IC2561	409 343 0201	IC LT1206CS8	IC802	409 344 1900	IC MN1382-Q-TX
IC261	409 357 6602	IC LT1260CS	IC803	410 445 9702	IC M5M29JB160AVP-10-C048
IC271	409 404 7200	IC TC7SET00FU- (TE85L)	IC804	410 458 5104	IC IS61C6416-15T
IC281	409 458 3401	IC M62393FP	IC8041	410 362 6501	IC TC74LCX541FT
IC301	409 501 8308	IC PW365-10U	IC805	409 438 5609	IC TC74ACT08FT
IC304	409 339 3605	IC 24LC16BT/SN-T	IC8051	409 429 6806	IC TC74LCX74FT- (EL)
IC306	409 301 5309	IC TC7S32FU-TE85L	IC8061	410 321 8300	IC TC74VCX16244FT
IC3101	409 504 9005	IC TB1274AF	IC8071	410 321 8300	IC TC74VCX16244FT
IC3102	409 416 6505	IC BA05FP-E2	IC808	409 339 3605	IC 24LC16BT/SN-T
IC3103	409 416 6505	IC BA05FP-E2	IC8081	410 321 8300	IC TC74VCX16244FT
IC3201	410 429 8202	IC MB40C348VPFV	IC8091	410 362 6501	IC TC74LCX541FT
IC3251	409 416 6406	IC BA033FP-E2	IC811	409 155 8006	IC TC7S04F-TE85L
	409 410 1001	IC UPC2933T-E1	IC812	410 325 4704	IC HD74LVC244AT
IC3252	409 416 6406	IC BA033FP-E2	IC813	409 462 2407	IC TC7SZ08FU- (TE85L)
	409 410 1001	IC UPC2933T-E1	IC814	410 362 6501	IC TC74LCX541FT
IC3253	409 416 6406	IC BA033FP-E2	IC815	410 362 6501	IC TC74LCX541FT
	409 410 1001	IC UPC2933T-E1	IC816	410 362 6600	IC TC74ACT541FT
IC3291	409 506 0406	IC M62392FP	IC9801	409 468 8908	IC ML60851CTB
IC341	410 352 8508	IC IDT71V016S15PHTR		409 521 4502	IC ML60851DTB
	410 397 0406	IC IC61LV6416-15T	IC9821	410 325 4704	IC HD74LVC244AT
IC3501	409 528 7506	IC L3E01040F0A	IC9831	409 327 6700	IC TC7W02FU-TE12L
IC351	410 445 9801	IC MBM29LV800TA90C049	IC9861	409 418 8606	IC M66230FP-200D
IC3531	409 528 7506	IC L3E01040F0A	IC9881	409 418 8606	IC M66230FP-200D
IC3561	409 528 7506	IC L3E01040F0A	IC9882	410 356 8009	IC SN74LV14APWR
IC361	409 501 9107	IC ICS512MT	CAPACITOR		
IC362	409 501 9107	IC ICS512MT	C1101	403 164 0204	CERAMIC 0.1U Z 25V
IC391	409 416 6406	IC BA033FP-E2	C1102	403 164 0204	CERAMIC 0.1U Z 25V
IC392	409 534 1703	IC SI-3025LSA-TL	C1103	403 164 0204	CERAMIC 0.1U Z 25V
IC401	409 543 4009	IC QL3E07052K0A	C1105	403 321 2607	ELECT 10U M 16V
IC4101	409 474 0002	IC CXA2101AQ	C1106	403 164 0204	CERAMIC 0.1U Z 25V
IC4201	410 426 8106	IC TC240C4FTB-C006 (O)	C1107	403 164 0204	CERAMIC 0.1U Z 25V
IC4231	409 444 8700	IC ICS1523M-ER	C1108	403 164 0204	CERAMIC 0.1U Z 25V
IC4251	410 401 7506	IC TC74VCX16374FT	C1109	403 164 0204	CERAMIC 0.1U Z 25V
IC4261	410 401 7506	IC TC74VCX16374FT	C1111	403 321 2607	ELECT 10U M 16V
IC4271	410 401 7506	IC TC74VCX16374FT		403 335 0309	ELECT 10U M 16V
IC4281	410 362 6501	IC TC74LCX541FT	C1112	403 164 0204	CERAMIC 0.1U Z 25V
IC451	409 534 1703	IC SI-3025LSA-TL	C1113	403 164 0204	CERAMIC 0.1U Z 25V
IC4801	409 416 6406	IC BA033FP-E2	C1114	403 164 0204	CERAMIC 0.1U Z 25V
IC4811	410 325 4605	IC TC74LCX244FT	C1115	403 322 7809	ELECT 220U M 6.3V
	410 325 4704	IC HD74LVC244AT	C1116	403 162 4006	ELECT 22U M 6.3V
IC4821	410 325 4605	IC TC74LCX244FT	C1117	403 164 0204	CERAMIC 0.1U Z 25V
	410 325 4704	IC HD74LVC244AT	C1118	403 323 1301	CERAMIC 0.47U Z 10V
IC4831	410 365 5600	IC SN74LVCC4245APWR	C1119	403 164 0204	CERAMIC 0.1U Z 25V
IC4881	409 458 3401	IC M62393FP	C1121	403 323 1301	CERAMIC 0.47U Z 10V
IC4891	409 404 7200	IC TC7SET00FU- (TE85L)	C1122	403 304 2105	ELECT 47U M 6.3V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C1123	403 145 9905	CERAMIC 22P J 50V	C1878	403 155 1609	CERAMIC 33P J 50V
C1124	403 145 9905	CERAMIC 22P J 50V	C1879	403 155 1609	CERAMIC 33P J 50V
C1125TM	403 269 2608	ELECT 330U M 6.3V	C202	403 164 0204	CERAMIC 0.1U Z 25V
C1126	403 164 0204	CERAMIC 0.1U Z 25V	C203	403 164 0204	CERAMIC 0.1U Z 25V
C1127	403 155 1302	CERAMIC 150P J 50V	C204	403 283 6309	CERAMIC 1U Z 10V
C1128	403 155 1302	CERAMIC 150P J 50V	C206	403 164 0204	CERAMIC 0.1U Z 25V
C1129	403 215 2201	CERAMIC 0.01U K 50V	C207	403 164 0204	CERAMIC 0.1U Z 25V
C1131	403 304 1801	ELECT 100U M 6.3V	C208	403 283 6309	CERAMIC 1U Z 10V
	403 373 7704	ELECT 100U M 6.3V	C209	403 283 6309	CERAMIC 1U Z 10V
C1132	403 164 0204	CERAMIC 0.1U Z 25V	C2101	403 149 9208	CERAMIC 0.01U Z 50V
C1133	403 321 2607	ELECT 10U M 16V	C2102	403 149 9208	CERAMIC 0.01U Z 50V
	403 335 0309	ELECT 10U M 16V	C2103	403 304 1801	ELECT 100U M 6.3V
C1134	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C1135	403 322 7809	ELECT 220U M 6.3V	C2104	403 164 0204	CERAMIC 0.1U Z 25V
C1136	403 322 7809	ELECT 220U M 6.3V	C2106	403 149 9208	CERAMIC 0.01U Z 50V
C1137	403 323 1301	CERAMIC 0.47U Z 10V	C2107	403 149 9208	CERAMIC 0.01U Z 50V
C1141	403 164 0204	CERAMIC 0.1U Z 25V	C2108	403 266 8108	NP-ELECT 1U M 50V
C1142	403 149 9208	CERAMIC 0.01U Z 50V	C2111	403 304 2105	ELECT 47U M 6.3V
C1143	403 304 3300	ELECT 47U M 16V	C2112	403 164 0204	CERAMIC 0.1U Z 25V
C1144	403 164 0204	CERAMIC 0.1U Z 25V	C2113	403 304 2105	ELECT 47U M 6.3V
C1145	403 321 2607	ELECT 10U M 16V	C2114	403 164 0204	CERAMIC 0.1U Z 25V
C1146	403 283 6309	CERAMIC 1U Z 10V	C2116	403 164 0204	CERAMIC 0.1U Z 25V
C1148	403 164 0204	CERAMIC 0.1U Z 25V	C2117	403 304 2105	ELECT 47U M 6.3V
C1162	403 139 7306	CERAMIC 18P J 50V	C2118	403 164 0204	CERAMIC 0.1U Z 25V
C1163	403 157 3106	CERAMIC 56P J 50V	C2119	403 164 0204	CERAMIC 0.1U Z 25V
C1165	403 266 8108	NP-ELECT 1U M 50V	C212	403 164 0204	CERAMIC 0.1U Z 25V
C140	403 280 0805	ELECT 330U M 6.3V	C2121	403 305 9905	CERAMIC 680P J 25V
C141	403 298 9609	CERAMIC 0.1U K 16V	C2122	403 149 9208	CERAMIC 0.01U Z 50V
C142	403 175 4802	NP-ELECT 10U M 10V	C2123	403 149 9208	CERAMIC 0.01U Z 50V
C143	403 164 0204	CERAMIC 0.1U Z 25V	C2127	403 164 0204	CERAMIC 0.1U Z 25V
C144	403 321 2607	ELECT 10U M 16V	C213	403 283 6309	CERAMIC 1U Z 10V
C145	403 283 6309	CERAMIC 1U Z 10V	C214	403 283 6309	CERAMIC 1U Z 10V
C146	403 164 0204	CERAMIC 0.1U Z 25V	C216	403 164 0204	CERAMIC 0.1U Z 25V
C147	403 304 3300	ELECT 47U M 16V	C217	403 283 6309	CERAMIC 1U Z 10V
C148	403 283 6309	CERAMIC 1U Z 10V	C218	403 283 6309	CERAMIC 1U Z 10V
C1501	403 164 0204	CERAMIC 0.1U Z 25V	C219	403 283 6309	CERAMIC 1U Z 10V
C1502	403 164 0204	CERAMIC 0.1U Z 25V	C221	403 283 6309	CERAMIC 1U Z 10V
C1503	403 164 0204	CERAMIC 0.1U Z 25V	C222	403 283 6309	CERAMIC 1U Z 10V
C1504	403 304 2105	ELECT 47U M 6.3V	C223	403 283 6309	CERAMIC 1U Z 10V
C151	403 283 6309	CERAMIC 1U Z 10V	C224	403 283 6309	CERAMIC 1U Z 10V
C152	403 266 8108	NP-ELECT 1U M 50V	C226	403 338 0108	CERAMIC 0.039U K 25V
C1531	403 164 0204	CERAMIC 0.1U Z 25V	C227	403 157 7203	CERAMIC 3900P K 50V
C1532	403 164 0204	CERAMIC 0.1U Z 25V	C228	403 283 6309	CERAMIC 1U Z 10V
C1533	403 304 2105	ELECT 47U M 6.3V	C229	403 283 6309	CERAMIC 1U Z 10V
C1534	403 164 0204	CERAMIC 0.1U Z 25V	C231	403 283 6309	CERAMIC 1U Z 10V
C1561	403 304 3300	ELECT 47U M 16V	C232	403 283 6309	CERAMIC 1U Z 10V
C1562	403 304 1801	ELECT 100U M 6.3V	C233	403 283 6309	CERAMIC 1U Z 10V
	403 373 7704	ELECT 100U M 6.3V	C234	403 283 6309	CERAMIC 1U Z 10V
C1563	403 164 0204	CERAMIC 0.1U Z 25V	C236	403 283 6309	CERAMIC 1U Z 10V
C1564	403 283 6309	CERAMIC 1U Z 10V	C237	403 283 6309	CERAMIC 1U Z 10V
C1572	403 304 3300	ELECT 47U M 16V	C241	403 164 0204	CERAMIC 0.1U Z 25V
C1573	403 164 0204	CERAMIC 0.1U Z 25V	C242	403 164 0204	CERAMIC 0.1U Z 25V
C165	403 113 3805	CERAMIC 1000P K 50V	C243	403 304 1801	ELECT 100U M 6.3V
C1801	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C1802	403 164 0204	CERAMIC 0.1U Z 25V	C244	403 164 0204	CERAMIC 0.1U Z 25V
C1803	403 164 0204	CERAMIC 0.1U Z 25V	C245	403 164 0204	CERAMIC 0.1U Z 25V
C1804	403 304 1801	ELECT 100U M 6.3V	C246	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V		403 373 7704	ELECT 100U M 6.3V
C1851	403 164 0204	CERAMIC 0.1U Z 25V	C247	403 164 0204	CERAMIC 0.1U Z 25V
C1861	403 164 0204	CERAMIC 0.1U Z 25V	C248	403 164 0204	CERAMIC 0.1U Z 25V
C1871	403 164 0204	CERAMIC 0.1U Z 25V	C249	403 304 1801	ELECT 100U M 6.3V
C1872	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C1873	403 164 0204	CERAMIC 0.1U Z 25V	C2501	403 321 2607	ELECT 10U M 16V
C1874	403 155 1609	CERAMIC 33P J 50V		403 335 0309	ELECT 10U M 16V
C1875	403 155 1609	CERAMIC 33P J 50V	C2511	403 164 0204	CERAMIC 0.1U Z 25V
C1876	403 155 1609	CERAMIC 33P J 50V	C2512	403 164 0204	CERAMIC 0.1U Z 25V
C1877	403 155 1609	CERAMIC 33P J 50V	C2513	403 164 0204	CERAMIC 0.1U Z 25V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C2514	403 162 5300	ELECT 4.7U M 25V	C3116	403 304 2105	ELECT 47U M 6.3V
C2516	403 164 0204	CERAMIC 0.1U Z 25V	C3117	403 164 0204	CERAMIC 0.1U Z 25V
C2517	403 321 2607	ELECT 10U M 16V	C312	403 164 0204	CERAMIC 0.1U Z 25V
C2518	403 164 0204	CERAMIC 0.1U Z 25V	C3121	403 157 1706	CERAMIC 8P D 50V
C2521	403 229 3508	ELECT 100U M 16V	C3122	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0408	ELECT 100U M 16V	C3123	403 149 9208	CERAMIC 0.01U Z 50V
C2522	403 164 0204	CERAMIC 0.1U Z 25V	C3124	403 162 6000	ELECT 0.47U M 50V
C2531	403 229 3508	ELECT 100U M 16V	C3126	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0408	ELECT 100U M 16V	C3127	403 149 9208	CERAMIC 0.01U Z 50V
C2532	403 164 0204	CERAMIC 0.1U Z 25V	C3128	403 164 0204	CERAMIC 0.1U Z 25V
C2533	403 157 3601	CERAMIC 100P J 50V	C3129	403 164 0204	CERAMIC 0.1U Z 25V
C2541	403 164 0204	CERAMIC 0.1U Z 25V	C313	403 164 0204	CERAMIC 0.1U Z 25V
C2542	403 164 0204	CERAMIC 0.1U Z 25V	C3131	403 284 4304	CERAMIC 0.022U K 50V
C2543	403 162 5300	ELECT 4.7U M 25V	C3132	403 162 6604	ELECT 2.2U M 50V
C2544	403 164 0204	CERAMIC 0.1U Z 25V	C3133	403 113 3805	CERAMIC 1000P K 50V
C2546	403 164 0204	CERAMIC 0.1U Z 25V	C3134	403 157 2901	CERAMIC 47P J 50V
C2547	403 321 2607	ELECT 10U M 16V	C3135	403 322 7809	ELECT 220U M 6.3V
C2548	403 164 0204	CERAMIC 0.1U Z 25V	C3136	403 164 0204	CERAMIC 0.1U Z 25V
C2561	403 229 3508	ELECT 100U M 16V	C3137	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0408	ELECT 100U M 16V	C3138	403 280 0805	ELECT 330U M 6.3V
C2562	403 164 0204	CERAMIC 0.1U Z 25V	C3139	403 341 3905	POS-SOLID 100U M 6.3V
C2563	403 157 3601	CERAMIC 100P J 50V	C314	403 164 0204	CERAMIC 0.1U Z 25V
C2564	403 149 9208	CERAMIC 0.01U Z 50V	C3141	403 157 1904	CERAMIC 10P D 50V
C2571	403 164 0204	CERAMIC 0.1U Z 25V	C315	403 164 0204	CERAMIC 0.1U Z 25V
C2572	403 164 0204	CERAMIC 0.1U Z 25V	C316	403 164 0204	CERAMIC 0.1U Z 25V
C2573	403 162 5300	ELECT 4.7U M 25V	C317	403 164 0204	CERAMIC 0.1U Z 25V
C2574	403 164 0204	CERAMIC 0.1U Z 25V	C3171	403 283 6309	CERAMIC 1U Z 10V
C2576	403 164 0204	CERAMIC 0.1U Z 25V	C3172	403 164 0204	CERAMIC 0.1U Z 25V
C2577	403 321 2607	ELECT 10U M 16V	C3176	403 164 0204	CERAMIC 0.1U Z 25V
C2578	403 164 0204	CERAMIC 0.1U Z 25V	C3177	403 164 0204	CERAMIC 0.1U Z 25V
C261	403 149 9208	CERAMIC 0.01U Z 50V	C3178	403 164 0204	CERAMIC 0.1U Z 25V
C262	403 149 9208	CERAMIC 0.01U Z 50V	C318	403 164 0204	CERAMIC 0.1U Z 25V
C263	403 149 9208	CERAMIC 0.01U Z 50V	C3181	403 321 2607	ELECT 10U M 16V
C266	403 322 7809	ELECT 220U M 6.3V	C3182	403 215 2201	CERAMIC 0.01U K 50V
	403 349 4706	ELECT 220U M 6.3V	C319	403 164 0204	CERAMIC 0.1U Z 25V
C267	403 164 0204	CERAMIC 0.1U Z 25V	C3191	403 145 9905	CERAMIC 22P J 50V
C268	403 322 7809	ELECT 220U M 6.3V	C3192	403 157 1904	CERAMIC 10P D 50V
	403 349 4706	ELECT 220U M 6.3V	C3193	403 157 2901	CERAMIC 47P J 50V
C269	403 164 0204	CERAMIC 0.1U Z 25V	C3194	403 157 2901	CERAMIC 47P J 50V
C271	403 298 9609	CERAMIC 0.1U K 16V	C3195	403 145 9905	CERAMIC 22P J 50V
C272	403 298 9609	CERAMIC 0.1U K 16V	C3196	403 157 3601	CERAMIC 100P J 50V
C282	403 283 6309	CERAMIC 1U Z 10V	C3197	403 157 2901	CERAMIC 47P J 50V
C283	403 283 6309	CERAMIC 1U Z 10V	C3198	403 145 9905	CERAMIC 22P J 50V
C284	403 322 7809	ELECT 220U M 6.3V	C3199	403 157 3601	CERAMIC 100P J 50V
	403 349 4706	ELECT 220U M 6.3V	C321	403 164 0204	CERAMIC 0.1U Z 25V
C301	403 164 0204	CERAMIC 0.1U Z 25V	C322	403 164 0204	CERAMIC 0.1U Z 25V
C302	403 304 1801	ELECT 100U M 6.3V	C3221	403 283 6309	CERAMIC 1U Z 10V
	403 373 7704	ELECT 100U M 6.3V	C3222	403 283 6309	CERAMIC 1U Z 10V
C303	403 304 1801	ELECT 100U M 6.3V	C3223	403 283 6309	CERAMIC 1U Z 10V
	403 373 7704	ELECT 100U M 6.3V	C3224	403 283 6309	CERAMIC 1U Z 10V
C304	403 164 0204	CERAMIC 0.1U Z 25V	C3225	403 283 6309	CERAMIC 1U Z 10V
C307	403 164 0204	CERAMIC 0.1U Z 25V	C3226	403 164 0204	CERAMIC 0.1U Z 25V
C308	403 164 0204	CERAMIC 0.1U Z 25V	C3227	403 164 0204	CERAMIC 0.1U Z 25V
C309	403 164 0204	CERAMIC 0.1U Z 25V	C3228	403 283 6309	CERAMIC 1U Z 10V
C3101	403 164 0204	CERAMIC 0.1U Z 25V	C3229	403 283 6309	CERAMIC 1U Z 10V
C3102	403 164 0204	CERAMIC 0.1U Z 25V	C323	403 164 0204	CERAMIC 0.1U Z 25V
C3103	403 164 0204	CERAMIC 0.1U Z 25V	C3231	403 283 6309	CERAMIC 1U Z 10V
C3104	403 149 9208	CERAMIC 0.01U Z 50V	C3232	403 283 6309	CERAMIC 1U Z 10V
C3106	403 304 2105	ELECT 47U M 6.3V	C3236	403 283 6309	CERAMIC 1U Z 10V
C3107	403 343 8809	CERAMIC 0.47U Z 16V	C3237	403 283 6309	CERAMIC 1U Z 10V
C3108	403 304 2105	ELECT 47U M 6.3V	C3238	403 341 3905	POS-SOLID 100U M 6.3V
C3109	403 343 8809	CERAMIC 0.47U Z 16V	C3239	403 283 6309	CERAMIC 1U Z 10V
C311	403 164 0204	CERAMIC 0.1U Z 25V	C324	403 164 0204	CERAMIC 0.1U Z 25V
C3111	403 164 0204	CERAMIC 0.1U Z 25V	C3241	403 164 0204	CERAMIC 0.1U Z 25V
C3112	403 164 0204	CERAMIC 0.1U Z 25V	C3242	403 283 6309	CERAMIC 1U Z 10V
C3113	403 164 0204	CERAMIC 0.1U Z 25V	C3243	403 298 9609	CERAMIC 0.1U K 16V
C3114	403 162 5300	ELECT 4.7U M 25V		403 325 3303	CERAMIC 0.1U K 16V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C3244	403 113 3805	CERAMIC 1000P K 50V	C402	403 164 0204	CERAMIC 0.1U Z 25V
C3247	403 283 6309	CERAMIC 1U Z 10V	C403	403 304 1801	ELECT 100U M 6.3V
C3248	403 283 6309	CERAMIC 1U Z 10V		403 373 7704	ELECT 100U M 6.3V
C3249	403 283 6309	CERAMIC 1U Z 10V	C404	403 164 0204	CERAMIC 0.1U Z 25V
C3251	403 164 0204	CERAMIC 0.1U Z 25V	C406	403 164 0204	CERAMIC 0.1U Z 25V
C3252	403 164 0204	CERAMIC 0.1U Z 25V	C407	403 164 0204	CERAMIC 0.1U Z 25V
C3253	403 304 1801	ELECT 100U M 6.3V	C408	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C409	403 164 0204	CERAMIC 0.1U Z 25V
C3254	403 164 0204	CERAMIC 0.1U Z 25V	C4100	403 229 3508	ELECT 100U M 16V
C3255	403 164 0204	CERAMIC 0.1U Z 25V	C4101	403 164 0204	CERAMIC 0.1U Z 25V
C3256	403 304 1801	ELECT 100U M 6.3V	C4103	403 229 3508	ELECT 100U M 16V
	403 373 7704	ELECT 100U M 6.3V	C4104	403 343 8809	CERAMIC 0.47U Z 16V
C3257	403 164 0204	CERAMIC 0.1U Z 25V	C4105	403 351 1106	POS-SOLID 47U M 16V
C3258	403 164 0204	CERAMIC 0.1U Z 25V	C4106	403 280 1604	ELECT 220U M 16V
C3259	403 304 1801	ELECT 100U M 6.3V	C4107	403 343 8809	CERAMIC 0.47U Z 16V
	403 373 7704	ELECT 100U M 6.3V	C4108	403 229 3508	ELECT 100U M 16V
C326	403 149 9208	CERAMIC 0.01U Z 50V	C4109	403 343 8809	CERAMIC 0.47U Z 16V
C3262	403 283 6309	CERAMIC 1U Z 10V	C411	403 164 0204	CERAMIC 0.1U Z 25V
C3263	403 283 6309	CERAMIC 1U Z 10V	C4111	403 298 9609	CERAMIC 0.1U K 16V
C3264	403 283 6309	CERAMIC 1U Z 10V	C4112	403 298 9609	CERAMIC 0.1U K 16V
C3266	403 283 6309	CERAMIC 1U Z 10V	C4113	403 298 9609	CERAMIC 0.1U K 16V
C3267	403 283 6309	CERAMIC 1U Z 10V	C4116	403 298 9609	CERAMIC 0.1U K 16V
C3268	403 283 6309	CERAMIC 1U Z 10V	C4117	403 298 9609	CERAMIC 0.1U K 16V
C3269	403 283 6309	CERAMIC 1U Z 10V	C4118	403 298 9609	CERAMIC 0.1U K 16V
C329	403 164 0204	CERAMIC 0.1U Z 25V	C412	403 164 0204	CERAMIC 0.1U Z 25V
C3291	403 283 6309	CERAMIC 1U Z 10V	C4121	403 215 2201	CERAMIC 0.01U K 50V
C3292	403 113 3805	CERAMIC 1000P K 50V	C4122	403 215 2201	CERAMIC 0.01U K 50V
C3293	403 283 6309	CERAMIC 1U Z 10V	C4123	403 215 2201	CERAMIC 0.01U K 50V
C3294	403 304 1801	ELECT 100U M 6.3V	C4124	403 215 2201	CERAMIC 0.01U K 50V
	403 373 7704	ELECT 100U M 6.3V	C4127	403 215 2201	CERAMIC 0.01U K 50V
C341	403 304 2105	ELECT 47U M 6.3V	C4128	403 215 2201	CERAMIC 0.01U K 50V
C342	403 164 0204	CERAMIC 0.1U Z 25V	C4129	403 215 2201	CERAMIC 0.01U K 50V
C343	403 164 0204	CERAMIC 0.1U Z 25V	C413	403 164 0204	CERAMIC 0.1U Z 25V
C3501	403 229 3508	ELECT 100U M 16V	C4131	403 215 2201	CERAMIC 0.01U K 50V
	403 335 0408	ELECT 100U M 16V	C4132	403 215 2201	CERAMIC 0.01U K 50V
C3502	403 164 0204	CERAMIC 0.1U Z 25V	C4133	403 215 2201	CERAMIC 0.01U K 50V
C3503	403 164 0204	CERAMIC 0.1U Z 25V	C4134	403 215 2201	CERAMIC 0.01U K 50V
C3504	403 164 0204	CERAMIC 0.1U Z 25V	C4136	403 215 2201	CERAMIC 0.01U K 50V
C351	403 304 2105	ELECT 47U M 6.3V	C4137	403 215 2201	CERAMIC 0.01U K 50V
C352	403 164 0204	CERAMIC 0.1U Z 25V	C4138	403 215 2201	CERAMIC 0.01U K 50V
C3531	403 229 3508	ELECT 100U M 16V	C4139	403 215 2201	CERAMIC 0.01U K 50V
	403 335 0408	ELECT 100U M 16V	C414	403 164 0204	CERAMIC 0.1U Z 25V
C3532	403 164 0204	CERAMIC 0.1U Z 25V	C4141	403 215 2201	CERAMIC 0.01U K 50V
C3533	403 164 0204	CERAMIC 0.1U Z 25V	C4142	403 215 2201	CERAMIC 0.01U K 50V
C3534	403 164 0204	CERAMIC 0.1U Z 25V	C4143	403 215 2201	CERAMIC 0.01U K 50V
C3541	403 164 0204	CERAMIC 0.1U Z 25V	C4144	403 215 2201	CERAMIC 0.01U K 50V
C3542	403 164 0204	CERAMIC 0.1U Z 25V	C4146	403 215 2201	CERAMIC 0.01U K 50V
C3561	403 229 3508	ELECT 100U M 16V	C4147	403 215 2201	CERAMIC 0.01U K 50V
	403 335 0408	ELECT 100U M 16V	C4152	403 283 6309	CERAMIC 1U Z 10V
C3562	403 164 0204	CERAMIC 0.1U Z 25V	C4157	403 298 9609	CERAMIC 0.1U K 16V
C3563	403 164 0204	CERAMIC 0.1U Z 25V	C4158	403 298 9609	CERAMIC 0.1U K 16V
C3564	403 164 0204	CERAMIC 0.1U Z 25V	C4159	403 298 9609	CERAMIC 0.1U K 16V
C3571	403 164 0204	CERAMIC 0.1U Z 25V	C416	403 164 0204	CERAMIC 0.1U Z 25V
C3572	403 164 0204	CERAMIC 0.1U Z 25V	C4161	403 298 9609	CERAMIC 0.1U K 16V
C361	403 164 0204	CERAMIC 0.1U Z 25V	C4162	403 215 2201	CERAMIC 0.01U K 50V
C362	403 164 0204	CERAMIC 0.1U Z 25V	C4163	403 321 2607	ELECT 10U M 16V
C368	403 157 1904	CERAMIC 10P D 50V	C4164	403 298 9609	CERAMIC 0.1U K 16V
C391	403 164 0204	CERAMIC 0.1U Z 25V	C4166	403 215 2201	CERAMIC 0.01U K 50V
C392	403 304 1801	ELECT 100U M 6.3V	C4167	403 215 2201	CERAMIC 0.01U K 50V
	403 373 7704	ELECT 100U M 6.3V	C4168	403 215 2201	CERAMIC 0.01U K 50V
C393	403 164 0204	CERAMIC 0.1U Z 25V	C4169	403 215 2201	CERAMIC 0.01U K 50V
C394	403 304 1801	ELECT 100U M 6.3V	C417	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C4171	403 215 2201	CERAMIC 0.01U K 50V
C395	403 164 0204	CERAMIC 0.1U Z 25V	C4172	403 215 2201	CERAMIC 0.01U K 50V
C396	403 347 5507	POS-SOLID 470U M 4V	C4173	403 321 2607	ELECT 10U M 16V
C401	403 304 1801	ELECT 100U M 6.3V	C4176	403 162 6000	ELECT 0.47U M 50V
	403 373 7704	ELECT 100U M 6.3V	C4177	403 215 2201	CERAMIC 0.01U K 50V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C4178	403 215 2201	CERAMIC 0.01U K 50V	C4831	403 164 0204	CERAMIC 0.1U Z 25V
C4179	403 215 2201	CERAMIC 0.01U K 50V	C4836	403 164 0204	CERAMIC 0.1U Z 25V
C418	403 164 0204	CERAMIC 0.1U Z 25V	C4881	403 322 7809	ELECT 220U M 6.3V
C4184	403 175 4802	NP-ELECT 10U M 10V	C4882	403 298 9609	CERAMIC 0.1U K 16V
C4186	403 298 9609	CERAMIC 0.1U K 16V	C4883	403 322 7809	ELECT 220U M 6.3V
C419	403 164 0204	CERAMIC 0.1U Z 25V	C4884	403 298 9609	CERAMIC 0.1U K 16V
C4201	403 164 0204	CERAMIC 0.1U Z 25V	C4891	403 298 9609	CERAMIC 0.1U K 16V
C4202	403 304 1801	ELECT 100U M 6.3V	C4892	403 298 9609	CERAMIC 0.1U K 16V
	403 373 7704	ELECT 100U M 6.3V	C501	403 304 1801	ELECT 100U M 6.3V
C4203	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C4204	403 164 0204	CERAMIC 0.1U Z 25V	C502	403 164 0204	CERAMIC 0.1U Z 25V
C4206	403 164 0204	CERAMIC 0.1U Z 25V	C503	403 164 0204	CERAMIC 0.1U Z 25V
C421	403 164 0204	CERAMIC 0.1U Z 25V	C504	403 164 0204	CERAMIC 0.1U Z 25V
C4211	403 164 0204	CERAMIC 0.1U Z 25V	C505	403 164 0204	CERAMIC 0.1U Z 25V
C4212	403 304 1801	ELECT 100U M 6.3V	C506	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C507	403 164 0204	CERAMIC 0.1U Z 25V
C4213	403 164 0204	CERAMIC 0.1U Z 25V	C508	403 164 0204	CERAMIC 0.1U Z 25V
C4214	403 164 0204	CERAMIC 0.1U Z 25V	C509	403 304 3300	ELECT 47U M 16V
C4216	403 164 0204	CERAMIC 0.1U Z 25V	C511	403 164 0204	CERAMIC 0.1U Z 25V
C4217	403 164 0204	CERAMIC 0.1U Z 25V	C512	403 164 0204	CERAMIC 0.1U Z 25V
C4218	403 164 0204	CERAMIC 0.1U Z 25V	C516	403 164 0204	CERAMIC 0.1U Z 25V
C4219	403 164 0204	CERAMIC 0.1U Z 25V	C5161	403 145 9905	CERAMIC 22P J 50V
C422	403 164 0204	CERAMIC 0.1U Z 25V	C5162	403 157 2505	CERAMIC 27P J 50V
C4221	403 164 0204	CERAMIC 0.1U Z 25V	C5166	403 164 0204	CERAMIC 0.1U Z 25V
C4222	403 164 0204	CERAMIC 0.1U Z 25V	C5167	403 304 3102	ELECT 22U M 16V
C4223	403 164 0204	CERAMIC 0.1U Z 25V	C517	403 149 9208	CERAMIC 0.01U Z 50V
C4224	403 164 0204	CERAMIC 0.1U Z 25V	C5171	403 145 9905	CERAMIC 22P J 50V
C4226	403 164 0204	CERAMIC 0.1U Z 25V	C5172	403 157 2505	CERAMIC 27P J 50V
C4227	403 164 0204	CERAMIC 0.1U Z 25V	C5181	403 145 9905	CERAMIC 22P J 50V
C4228	403 164 0204	CERAMIC 0.1U Z 25V	C5182	403 157 2505	CERAMIC 27P J 50V
C4229	403 164 0204	CERAMIC 0.1U Z 25V	C5191TM	403 157 3601	CERAMIC 100P J 50V
C423	403 164 0204	CERAMIC 0.1U Z 25V	C5192TM	403 009 3001	CERAMIC 100P J 50V
C4230	403 164 0204	CERAMIC 0.1U Z 25V	C5193TM	403 009 3001	CERAMIC 100P J 50V
C4231	403 304 2105	ELECT 47U M 6.3V	C5197	403 321 2607	ELECT 10U M 16V
C4233	403 164 0204	CERAMIC 0.1U Z 25V	C5201	403 266 8900	NP-ELECT 22U M 16V
C4234	403 304 2105	ELECT 47U M 6.3V	C5212	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C4236	403 164 0204	CERAMIC 0.1U Z 25V	C5231	403 266 8900	NP-ELECT 22U M 16V
C4237	403 155 1609	CERAMIC 33P J 50V	C5242	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C4238	403 157 7302	CERAMIC 6800P K 50V	C5244	403 164 0204	CERAMIC 0.1U Z 25V
C4239	403 304 2105	ELECT 47U M 6.3V	C5261	403 266 8900	NP-ELECT 22U M 16V
C4241	403 164 0204	CERAMIC 0.1U Z 25V	C5272	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C4246	403 164 0204	CERAMIC 0.1U Z 25V	C5296	403 298 9609	CERAMIC 0.1U K 16V
C4247	403 164 0204	CERAMIC 0.1U Z 25V	C531	403 304 1801	ELECT 100U M 6.3V
C4251	403 304 1801	ELECT 100U M 6.3V		403 373 7704	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V	C532	403 164 0204	CERAMIC 0.1U Z 25V
C4252	403 164 0204	CERAMIC 0.1U Z 25V	C533	403 164 0204	CERAMIC 0.1U Z 25V
C4253	403 164 0204	CERAMIC 0.1U Z 25V	C534	403 164 0204	CERAMIC 0.1U Z 25V
C4262	403 164 0204	CERAMIC 0.1U Z 25V	C535	403 164 0204	CERAMIC 0.1U Z 25V
C4263	403 164 0204	CERAMIC 0.1U Z 25V	C536	403 164 0204	CERAMIC 0.1U Z 25V
C4272	403 164 0204	CERAMIC 0.1U Z 25V	C537	403 164 0204	CERAMIC 0.1U Z 25V
C4273	403 164 0204	CERAMIC 0.1U Z 25V	C538	403 164 0204	CERAMIC 0.1U Z 25V
C4281	403 164 0204	CERAMIC 0.1U Z 25V	C539	403 304 3300	ELECT 47U M 16V
C451	403 304 1801	ELECT 100U M 6.3V	C541	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C542	403 164 0204	CERAMIC 0.1U Z 25V
C452	403 164 0204	CERAMIC 0.1U Z 25V	C546	403 164 0204	CERAMIC 0.1U Z 25V
C453	403 304 1801	ELECT 100U M 6.3V	C547	403 149 9208	CERAMIC 0.01U Z 50V
	403 373 7704	ELECT 100U M 6.3V	C561	403 304 1801	ELECT 100U M 6.3V
C454	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C4801	403 164 0204	CERAMIC 0.1U Z 25V	C562	403 164 0204	CERAMIC 0.1U Z 25V
C4802	403 164 0204	CERAMIC 0.1U Z 25V	C563	403 164 0204	CERAMIC 0.1U Z 25V
C4803	403 164 0204	CERAMIC 0.1U Z 25V	C564	403 164 0204	CERAMIC 0.1U Z 25V
C4804	403 164 0204	CERAMIC 0.1U Z 25V	C565	403 164 0204	CERAMIC 0.1U Z 25V
C4813	403 304 1801	ELECT 100U M 6.3V	C566	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C567	403 164 0204	CERAMIC 0.1U Z 25V
C4814	403 164 0204	CERAMIC 0.1U Z 25V	C568	403 164 0204	CERAMIC 0.1U Z 25V
C4821	403 164 0204	CERAMIC 0.1U Z 25V	C569	403 304 3300	ELECT 47U M 16V
C4822	403 164 0204	CERAMIC 0.1U Z 25V	C571	403 164 0204	CERAMIC 0.1U Z 25V

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Key No.	Part No.	Description	Key No.	Part No.	Description
C572	403 164 0204	CERAMIC 0.1U Z 25V	C6371	403 164 0204	CERAMIC 0.1U Z 25V
C576	403 164 0204	CERAMIC 0.1U Z 25V	C6372	403 113 3805	CERAMIC 1000P K 50V
C577	403 149 9208	CERAMIC 0.01U Z 50V	C6373	403 164 0204	CERAMIC 0.1U Z 25V
C6101	403 298 9609	CERAMIC 0.1U K 16V	C6374	403 113 3805	CERAMIC 1000P K 50V
C6121	403 275 3002	CERAMIC 0.047U K 16V	C6376	403 164 0204	CERAMIC 0.1U Z 25V
C6122	403 275 3002	CERAMIC 0.047U K 16V	C6381	403 304 1801	ELECT 100U M 6.3V
C6123	403 298 9609	CERAMIC 0.1U K 16V		403 373 7704	ELECT 100U M 6.3V
C6124	403 322 7809	ELECT 220U M 6.3V	C6382	403 164 0204	CERAMIC 0.1U Z 25V
C6131	403 298 9609	CERAMIC 0.1U K 16V	C6383	403 304 1801	ELECT 100U M 6.3V
C6136	403 275 3002	CERAMIC 0.047U K 16V		403 373 7704	ELECT 100U M 6.3V
C6137	403 155 1302	CERAMIC 150P J 50V	C6384	403 164 0204	CERAMIC 0.1U Z 25V
C6161	403 298 9609	CERAMIC 0.1U K 16V	C8001	403 304 1801	ELECT 100U M 6.3V
C6188	403 298 9609	CERAMIC 0.1U K 16V		403 373 7704	ELECT 100U M 6.3V
C6191	403 298 9609	CERAMIC 0.1U K 16V	C8002	403 283 6309	CERAMIC 1U Z 10V
C6192	403 298 9609	CERAMIC 0.1U K 16V	C8003	403 304 1801	ELECT 100U M 6.3V
C6194	403 215 2201	CERAMIC 0.01U K 50V		403 373 7704	ELECT 100U M 6.3V
C6196	403 229 3508	ELECT 100U M 16V	C8004	403 283 6309	CERAMIC 1U Z 10V
C6197	403 229 3508	ELECT 100U M 16V	C8005	403 169 2807	CERAMIC 330P J 50V
C6198	403 298 9609	CERAMIC 0.1U K 16V	C8006	403 283 6309	CERAMIC 1U Z 10V
C6199	403 162 6604	ELECT 2.2U M 50V	C8007	403 304 1801	ELECT 100U M 6.3V
C6301	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C6302	403 304 1801	ELECT 100U M 6.3V	C8008	403 157 3601	CERAMIC 100P J 50V
C6303	403 164 0204	CERAMIC 0.1U Z 25V	C8009	403 157 3601	CERAMIC 100P J 50V
C6304	403 113 3805	CERAMIC 1000P K 50V	C801	403 164 0204	CERAMIC 0.1U Z 25V
C6306	403 164 0204	CERAMIC 0.1U Z 25V	C8010	403 157 3601	CERAMIC 100P J 50V
C6307	403 164 0204	CERAMIC 0.1U Z 25V	C8011	403 157 3601	CERAMIC 100P J 50V
C6308	403 164 0204	CERAMIC 0.1U Z 25V	C8012	403 157 3601	CERAMIC 100P J 50V
C6309	403 164 0204	CERAMIC 0.1U Z 25V	C8013	403 164 0204	CERAMIC 0.1U Z 25V
C6311	403 164 0204	CERAMIC 0.1U Z 25V	C8014	403 304 1801	ELECT 100U M 6.3V
C6312	403 113 3805	CERAMIC 1000P K 50V		403 373 7704	ELECT 100U M 6.3V
C6313	403 164 0204	CERAMIC 0.1U Z 25V	C8015	403 283 6309	CERAMIC 1U Z 10V
C6314	403 113 3805	CERAMIC 1000P K 50V	C8016	403 155 1500	CERAMIC 180P J 50V
C6316	403 164 0204	CERAMIC 0.1U Z 25V	C8017	403 169 2807	CERAMIC 330P J 50V
C6321	403 164 0204	CERAMIC 0.1U Z 25V	C8018	403 169 2807	CERAMIC 330P J 50V
C6322	403 304 1801	ELECT 100U M 6.3V	C8019	403 155 1500	CERAMIC 180P J 50V
C6323	403 164 0204	CERAMIC 0.1U Z 25V	C802	403 164 0204	CERAMIC 0.1U Z 25V
C6324	403 113 3805	CERAMIC 1000P K 50V	C8020	403 169 2807	CERAMIC 330P J 50V
C6326	403 164 0204	CERAMIC 0.1U Z 25V	C8021	403 169 2807	CERAMIC 330P J 50V
C6327	403 164 0204	CERAMIC 0.1U Z 25V	C8022	403 155 1500	CERAMIC 180P J 50V
C6328	403 164 0204	CERAMIC 0.1U Z 25V	C8023TM	403 283 6309	CERAMIC 1U Z 10V
C6329	403 164 0204	CERAMIC 0.1U Z 25V	C803	403 155 1609	CERAMIC 33P J 50V
C6331	403 164 0204	CERAMIC 0.1U Z 25V	C8031	403 304 2105	ELECT 47U M 6.3V
C6332	403 113 3805	CERAMIC 1000P K 50V	C8032	403 164 0204	CERAMIC 0.1U Z 25V
C6333	403 164 0204	CERAMIC 0.1U Z 25V	C8033	403 164 0204	CERAMIC 0.1U Z 25V
C6334	403 113 3805	CERAMIC 1000P K 50V	C804	403 155 1609	CERAMIC 33P J 50V
C6336	403 164 0204	CERAMIC 0.1U Z 25V	C8041	403 164 0204	CERAMIC 0.1U Z 25V
C6341	403 164 0204	CERAMIC 0.1U Z 25V	C8042	403 164 0204	CERAMIC 0.1U Z 25V
C6342	403 304 1801	ELECT 100U M 6.3V	C805	403 164 0204	CERAMIC 0.1U Z 25V
C6343	403 164 0204	CERAMIC 0.1U Z 25V	C8051	403 149 9208	CERAMIC 0.01U Z 50V
C6344	403 113 3805	CERAMIC 1000P K 50V	C8052	403 304 2105	ELECT 47U M 6.3V
C6346	403 164 0204	CERAMIC 0.1U Z 25V	C806	403 304 2105	ELECT 47U M 6.3V
C6347	403 164 0204	CERAMIC 0.1U Z 25V	C8060	403 322 7809	ELECT 220U M 6.3V
C6348	403 164 0204	CERAMIC 0.1U Z 25V	C8061	403 164 0204	CERAMIC 0.1U Z 25V
C6349	403 164 0204	CERAMIC 0.1U Z 25V	C8062	403 164 0204	CERAMIC 0.1U Z 25V
C6351	403 164 0204	CERAMIC 0.1U Z 25V	C807	403 164 0204	CERAMIC 0.1U Z 25V
C6352	403 113 3805	CERAMIC 1000P K 50V	C8071	403 164 0204	CERAMIC 0.1U Z 25V
C6353	403 164 0204	CERAMIC 0.1U Z 25V	C8072	403 164 0204	CERAMIC 0.1U Z 25V
C6354	403 113 3805	CERAMIC 1000P K 50V	C808	403 215 1006	CERAMIC 470P J 50V
C6356	403 164 0204	CERAMIC 0.1U Z 25V	C8081	403 164 0204	CERAMIC 0.1U Z 25V
C6361	403 164 0204	CERAMIC 0.1U Z 25V	C8082	403 164 0204	CERAMIC 0.1U Z 25V
C6362	403 304 1801	ELECT 100U M 6.3V	C809	403 283 6309	CERAMIC 1U Z 10V
C6363	403 164 0204	CERAMIC 0.1U Z 25V	C8091	403 164 0204	CERAMIC 0.1U Z 25V
C6364	403 113 3805	CERAMIC 1000P K 50V	C8092	403 164 0204	CERAMIC 0.1U Z 25V
C6366	403 164 0204	CERAMIC 0.1U Z 25V	C810	403 164 0204	CERAMIC 0.1U Z 25V
C6367	403 164 0204	CERAMIC 0.1U Z 25V	C811	403 164 0204	CERAMIC 0.1U Z 25V
C6368	403 164 0204	CERAMIC 0.1U Z 25V	C812	403 164 0204	CERAMIC 0.1U Z 25V
C6369	403 164 0204	CERAMIC 0.1U Z 25V	C813	403 164 0204	CERAMIC 0.1U Z 25V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C814	403 304 1801	ELECT 100U M 6.3V	RB4801	645 021 0358	R-NETWORK 100X4 0.063W
	403 373 7704	ELECT 100U M 6.3V		645 031 3325	R-NETWORK 100X4 1/16W
C815	403 164 0204	CERAMIC 0.1U Z 25V	RB491	645 037 0663	R-NETWORK 22X4 0.063W
C816	403 164 0204	CERAMIC 0.1U Z 25V		645 021 4943	R-NETWORK 22X4 1/16W
C817	403 164 0204	CERAMIC 0.1U Z 25V	RB492	645 037 0663	R-NETWORK 22X4 0.063W
C818	403 304 1801	ELECT 100U M 6.3V		645 021 4943	R-NETWORK 22X4 1/16W
	403 373 7704	ELECT 100U M 6.3V	RB493	645 037 0663	R-NETWORK 22X4 0.063W
C819	403 164 0204	CERAMIC 0.1U Z 25V		645 021 4943	R-NETWORK 22X4 1/16W
C820	403 164 0204	CERAMIC 0.1U Z 25V	RB494	645 037 0663	R-NETWORK 22X4 0.063W
C821	403 164 0204	CERAMIC 0.1U Z 25V		645 021 4943	R-NETWORK 22X4 1/16W
C822	403 164 0204	CERAMIC 0.1U Z 25V	RB496	645 037 0663	R-NETWORK 22X4 0.063W
C823	403 164 0204	CERAMIC 0.1U Z 25V		645 021 4943	R-NETWORK 22X4 1/16W
C824	403 164 0204	CERAMIC 0.1U Z 25V	RB497	645 037 0663	R-NETWORK 22X4 0.063W
C9801	403 304 1801	ELECT 100U M 6.3V		645 021 4943	R-NETWORK 22X4 1/16W
	403 373 7704	ELECT 100U M 6.3V	RB501	645 037 3107	R-NETWORK 10X4 0.063W
C9802	403 164 0204	CERAMIC 0.1U Z 25V		645 028 5981	R-NETWORK 10X4 1/16W
C9803	403 153 9102	CERAMIC 5P C 50V	RB531	645 037 3107	R-NETWORK 10X4 0.063W
C9804	403 113 3805	CERAMIC 1000P K 50V		645 028 5981	R-NETWORK 10X4 1/16W
C9805	403 298 9609	CERAMIC 0.1U K 16V	RB561	645 037 3107	R-NETWORK 10X4 0.063W
C9806	403 164 0204	CERAMIC 0.1U Z 25V		645 028 5981	R-NETWORK 10X4 1/16W
C9807	403 304 1801	ELECT 100U M 6.3V	RB8001	645 037 3107	R-NETWORK 10X4 0.063W
	403 373 7704	ELECT 100U M 6.3V		645 028 5981	R-NETWORK 10X4 1/16W
C9808	403 164 0204	CERAMIC 0.1U Z 25V	RB8002	645 037 3107	R-NETWORK 10X4 0.063W
C9809	403 164 0204	CERAMIC 0.1U Z 25V		645 028 5981	R-NETWORK 10X4 1/16W
C9821	403 298 9609	CERAMIC 0.1U K 16V	RB8003	645 037 3107	R-NETWORK 10X4 0.063W
C9831	403 298 9609	CERAMIC 0.1U K 16V		645 028 5981	R-NETWORK 10X4 1/16W
C9861	403 298 9609	CERAMIC 0.1U K 16V	RB8004	645 037 3107	R-NETWORK 10X4 0.063W
C9872	403 155 1609	CERAMIC 33P J 50V		645 028 5981	R-NETWORK 10X4 1/16W
C9873	403 155 1609	CERAMIC 33P J 50V	RB8005	645 037 3107	R-NETWORK 10X4 0.063W
C9881	403 298 9609	CERAMIC 0.1U K 16V		645 028 5981	R-NETWORK 10X4 1/16W
C9882	403 298 9609	CERAMIC 0.1U K 16V	RB8006	645 037 3107	R-NETWORK 10X4 0.063W
C9892	403 155 1609	CERAMIC 33P J 50V		645 028 5981	R-NETWORK 10X4 1/16W
C9893	403 155 1609	CERAMIC 33P J 50V	RB8007	645 037 3107	R-NETWORK 10X4 0.063W
				645 028 5981	R-NETWORK 10X4 1/16W
RESISTOR			RB8008	645 037 3107	R-NETWORK 10X4 0.063W
RB301	645 021 0358	R-NETWORK 100X4 0.063W		645 028 5981	R-NETWORK 10X4 1/16W
RB302	645 021 0358	R-NETWORK 100X4 0.063W	RB8009	645 037 3107	R-NETWORK 10X4 0.063W
RB303	645 021 0358	R-NETWORK 100X4 0.063W		645 028 5981	R-NETWORK 10X4 1/16W
RB304	645 021 0358	R-NETWORK 100X4 0.063W	RB801	645 037 4920	R-NETWORK 3.3KX4 0.063W
RB305	645 021 0358	R-NETWORK 100X4 0.063W		645 031 4070	R-NETWORK 3.3KX4 1/16W
RB306	645 021 0358	R-NETWORK 100X4 0.063W	RB8010	645 037 3107	R-NETWORK 10X4 0.063W
RB307	645 021 0358	R-NETWORK 100X4 0.063W		645 028 5981	R-NETWORK 10X4 1/16W
RB308	645 021 0358	R-NETWORK 100X4 0.063W	RB8011	645 037 3107	R-NETWORK 10X4 0.063W
RB309	645 021 0358	R-NETWORK 100X4 0.063W		645 028 5981	R-NETWORK 10X4 1/16W
RB310	645 021 0358	R-NETWORK 100X4 0.063W	RB8012	645 037 3107	R-NETWORK 10X4 0.063W
RB311	645 021 0358	R-NETWORK 100X4 0.063W		645 028 5981	R-NETWORK 10X4 1/16W
RB312	645 021 0358	R-NETWORK 100X4 0.063W	RB8013	645 037 3107	R-NETWORK 10X4 0.063W
RB3501	645 037 3107	R-NETWORK 10X4 0.063W		645 028 5981	R-NETWORK 10X4 1/16W
RB3502	645 037 3107	R-NETWORK 10X4 0.063W	RB802	645 037 4920	R-NETWORK 3.3KX4 0.063W
RB3503	645 037 3107	R-NETWORK 10X4 0.063W		645 031 4070	R-NETWORK 3.3KX4 1/16W
RB3531	645 037 3107	R-NETWORK 10X4 0.063W	RB803	645 037 4920	R-NETWORK 3.3KX4 0.063W
RB3532	645 037 3107	R-NETWORK 10X4 0.063W		645 031 4070	R-NETWORK 3.3KX4 1/16W
RB3533	645 037 3107	R-NETWORK 10X4 0.063W	RB804	645 037 4920	R-NETWORK 3.3KX4 0.063W
RB3561	645 037 3107	R-NETWORK 10X4 0.063W		645 031 4070	R-NETWORK 3.3KX4 1/16W
RB3562	645 037 3107	R-NETWORK 10X4 0.063W	RB9401	645 037 0656	R-NETWORK 0X4 0.063W
RB3563	645 037 3107	R-NETWORK 10X4 0.063W	RB9402	645 037 0656	R-NETWORK 0X4 0.063W
RB401	645 037 0663	R-NETWORK 22X4 0.063W	RB9403	645 037 0656	R-NETWORK 0X4 0.063W
	645 021 4943	R-NETWORK 22X4 1/16W	RB9404	645 037 0656	R-NETWORK 0X4 0.063W
RB402	645 037 0663	R-NETWORK 22X4 0.063W	RB9406	645 037 0656	R-NETWORK 0X4 0.063W
	645 021 4943	R-NETWORK 22X4 1/16W	RB9407	645 037 0656	R-NETWORK 0X4 0.063W
RB403	645 037 0663	R-NETWORK 22X4 0.063W	RB9801	645 021 0365	R-NETWORK 100KX4 0.063W
	645 021 4943	R-NETWORK 22X4 1/16W		645 025 5397	R-NETWORK 100KX4 1/16W
RB404	645 037 0663	R-NETWORK 22X4 0.063W	RB9802	645 021 0365	R-NETWORK 100KX4 0.063W
	645 021 4943	R-NETWORK 22X4 1/16W		645 025 5397	R-NETWORK 100KX4 1/16W
RB406	645 037 0663	R-NETWORK 22X4 0.063W	R1101	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W	R1102	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB407	645 037 0663	R-NETWORK 22X4 0.063W	R1103	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 021 4943	R-NETWORK 22X4 1/16W			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R1104	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1506	401 105 0405	MT-GLAZE 100 JA 1/16W
R1105	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1507	401 105 0405	MT-GLAZE 100 JA 1/16W
R1106	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1508	401 105 0504	MT-GLAZE 1K JA 1/16W
R1107	401 105 2706	MT-GLAZE 220 JA 1/16W	R1509	401 105 0504	MT-GLAZE 1K JA 1/16W
R1108	401 105 2706	MT-GLAZE 220 JA 1/16W	R151	401 105 6506	MT-GLAZE 680 JA 1/16W
R1109	401 105 5202	MT-GLAZE 470 JA 1/16W	R152	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R1112	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1521	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1113	401 105 0702	MT-GLAZE 100K JA 1/16W	R1523	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1114	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1527	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1115	401 105 0405	MT-GLAZE 100 JA 1/16W	R153	401 105 0504	MT-GLAZE 1K JA 1/16W
R1116	401 105 0405	MT-GLAZE 100 JA 1/16W	R1531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1117	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1532	401 105 0405	MT-GLAZE 100 JA 1/16W
R1118	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1533	401 105 0405	MT-GLAZE 100 JA 1/16W
R1121	401 105 0504	MT-GLAZE 1K JA 1/16W	R154	401 105 0504	MT-GLAZE 1K JA 1/16W
R1123	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1542	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1124	401 105 0504	MT-GLAZE 1K JA 1/16W	R1544	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1125	403 155 4204	CERAMIC 15P J 50V	R1547	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1126	401 105 0504	MT-GLAZE 1K JA 1/16W	R155	401 105 0504	MT-GLAZE 1K JA 1/16W
R1127	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R156	401 105 0504	MT-GLAZE 1K JA 1/16W
R1128	401 105 0603	MT-GLAZE 10K JA 1/16W	R1561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1129	401 105 8104	MT-GLAZE 56K JA 1/16W	R1562	401 105 0603	MT-GLAZE 10K JA 1/16W
R1131	401 105 5400	MT-GLAZE 47K JA 1/16W	R1563	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1132	401 105 0504	MT-GLAZE 1K JA 1/16W	R1564	401 105 0603	MT-GLAZE 10K JA 1/16W
R1133	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R157	401 105 0504	MT-GLAZE 1K JA 1/16W
R1134	401 105 6506	MT-GLAZE 680 JA 1/16W	R158	401 105 2706	MT-GLAZE 220 JA 1/16W
R1135	401 105 3307	MT-GLAZE 2.7K JA 1/16W	R159	401 105 3000	MT-GLAZE 220K JA 1/16W
R1136	401 105 2706	MT-GLAZE 220 JA 1/16W	R1591	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1137	401 105 6506	MT-GLAZE 680 JA 1/16W	R161	401 105 5400	MT-GLAZE 47K JA 1/16W
R1139	401 105 5103	MT-GLAZE 47 JA 1/16W	R162	401 105 0504	MT-GLAZE 1K JA 1/16W
R1141	401 105 0504	MT-GLAZE 1K JA 1/16W	R163	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1142	401 105 8104	MT-GLAZE 56K JA 1/16W	R164	401 105 5202	MT-GLAZE 470 JA 1/16W
R1143	401 105 5400	MT-GLAZE 47K JA 1/16W	R165	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1144	401 105 0504	MT-GLAZE 1K JA 1/16W	R1804	401 105 0603	MT-GLAZE 10K JA 1/16W
R1145	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R1805	401 105 0405	MT-GLAZE 100 JA 1/16W
R1146	401 105 6506	MT-GLAZE 680 JA 1/16W	R1806	401 105 0405	MT-GLAZE 100 JA 1/16W
R1147	401 105 3307	MT-GLAZE 2.7K JA 1/16W	R1807	401 105 0405	MT-GLAZE 100 JA 1/16W
R1148	401 105 2706	MT-GLAZE 220 JA 1/16W	R1811	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1149	401 105 6506	MT-GLAZE 680 JA 1/16W	R1812	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1152	401 105 5905	MT-GLAZE 560 JA 1/16W	R1813	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1153	401 105 5103	MT-GLAZE 47 JA 1/16W	R1814	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1154	401 105 0504	MT-GLAZE 1K JA 1/16W	R1816	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1155	401 105 5905	MT-GLAZE 560 JA 1/16W	R1817	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1160	401 105 0603	MT-GLAZE 10K JA 1/16W	R1823	401 105 0603	MT-GLAZE 10K JA 1/16W
R1161	401 105 0504	MT-GLAZE 1K JA 1/16W	R1833	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1163	401 105 0504	MT-GLAZE 1K JA 1/16W	R1834	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1164	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R1836	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1303	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1842	401 105 0504	MT-GLAZE 1K JA 1/16W
R1304	401 105 0603	MT-GLAZE 10K JA 1/16W	R1843	401 105 0603	MT-GLAZE 10K JA 1/16W
R1305	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1844	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1307	401 105 0603	MT-GLAZE 10K JA 1/16W	R1846	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1308	401 105 0603	MT-GLAZE 10K JA 1/16W	R1847	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1309	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1851	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1313	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1852	401 105 0603	MT-GLAZE 10K JA 1/16W
R140	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R1853	401 105 5400	MT-GLAZE 47K JA 1/16W
R141	401 105 2904	MT-GLAZE 22K JA 1/16W	R1856	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R142	401 105 1600	MT-GLAZE 15K JA 1/16W	R1857	401 105 0603	MT-GLAZE 10K JA 1/16W
R143	401 105 0504	MT-GLAZE 1K JA 1/16W	R1858	401 105 5400	MT-GLAZE 47K JA 1/16W
R144	401 105 0504	MT-GLAZE 1K JA 1/16W	R1865	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R145	401 105 4809	MT-GLAZE 390K JA 1/16W	R1868	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R146	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R1871	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R147	401 105 6001	MT-GLAZE 5.6K JA 1/16W	R1872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R148	401 105 0405	MT-GLAZE 100 JA 1/16W	R1873	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R149	401 105 0504	MT-GLAZE 1K JA 1/16W	R1874	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1876	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1502	401 105 0405	MT-GLAZE 100 JA 1/16W	R1877	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1503	401 105 0405	MT-GLAZE 100 JA 1/16W	R1880	401 105 0603	MT-GLAZE 10K JA 1/16W
R1504	401 105 0405	MT-GLAZE 100 JA 1/16W	R1881	401 105 0603	MT-GLAZE 10K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R1882	401 105 0603	MT-GLAZE 10K JA 1/16W	R2576	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R1883	401 105 0603	MT-GLAZE 10K JA 1/16W	R2577	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R1884	401 105 0603	MT-GLAZE 10K JA 1/16W	R2578	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R1886	401 105 0603	MT-GLAZE 10K JA 1/16W	R2579	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R1887	401 105 0603	MT-GLAZE 10K JA 1/16W	R2592	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1888	401 105 0603	MT-GLAZE 10K JA 1/16W	R2593	401 105 4205	MT-GLAZE 33K JA 1/16W
R1889	401 105 0603	MT-GLAZE 10K JA 1/16W	R2594	401 105 0603	MT-GLAZE 10K JA 1/16W
R1891	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R261	401 105 0504	MT-GLAZE 1K JA 1/16W
R1892	401 105 0405	MT-GLAZE 100 JA 1/16W	R262	401 105 0405	MT-GLAZE 100 JA 1/16W
R1893	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R263	401 105 0504	MT-GLAZE 1K JA 1/16W
R1894	401 105 0405	MT-GLAZE 100 JA 1/16W	R264	401 105 0504	MT-GLAZE 1K JA 1/16W
R2101	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R265	401 105 0405	MT-GLAZE 100 JA 1/16W
R2102	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R266	401 105 0504	MT-GLAZE 1K JA 1/16W
R2103	401 105 0405	MT-GLAZE 100 JA 1/16W	R267	401 105 0504	MT-GLAZE 1K JA 1/16W
R2104	401 105 0405	MT-GLAZE 100 JA 1/16W	R268	401 105 0405	MT-GLAZE 100 JA 1/16W
R2106	401 105 4007	MT-GLAZE 330 JA 1/16W	R269	401 105 0504	MT-GLAZE 1K JA 1/16W
R2107	401 105 0504	MT-GLAZE 1K JA 1/16W	R271	401 105 0405	MT-GLAZE 100 JA 1/16W
R2108	401 105 0504	MT-GLAZE 1K JA 1/16W	R272	401 105 0405	MT-GLAZE 100 JA 1/16W
R2109	401 105 0504	MT-GLAZE 1K JA 1/16W	R273	401 105 0603	MT-GLAZE 10K JA 1/16W
R211	401 105 0405	MT-GLAZE 100 JA 1/16W	R274	401 105 5202	MT-GLAZE 470 JA 1/16W
R2111	401 105 0504	MT-GLAZE 1K JA 1/16W	R277	401 105 0405	MT-GLAZE 100 JA 1/16W
R2112	401 105 6001	MT-GLAZE 5.6K JA 1/16W	R281	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2113	401 105 6001	MT-GLAZE 5.6K JA 1/16W	R282	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R214	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R283	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R300TM	401 026 3905	CARBON 330 JA 1/6W
R217	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R301	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R221	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R304	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R223	401 105 0306	MT-GLAZE 10 JA 1/16W	R308	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R224	401 105 0306	MT-GLAZE 10 JA 1/16W	R3101	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R226	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3102	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R228	401 105 0603	MT-GLAZE 10K JA 1/16W	R3104	401 105 0405	MT-GLAZE 100 JA 1/16W
R229	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R3106	401 105 0405	MT-GLAZE 100 JA 1/16W
R231	401 105 0405	MT-GLAZE 100 JA 1/16W	R3107	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R232	401 105 0405	MT-GLAZE 100 JA 1/16W	R3108	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R233	401 105 0405	MT-GLAZE 100 JA 1/16W	R311	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R234	401 105 0405	MT-GLAZE 100 JA 1/16W	R3114	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R239	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R3116	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2501	401 105 1501	MT-GLAZE 1.5K JA 1/16W	R3117	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2502	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R3118	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2503	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R3119	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2504	401 105 0603	MT-GLAZE 10K JA 1/16W	R312	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2511	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R3121	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2512	401 105 4700	MT-GLAZE 39K JA 1/16W	R3122	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2513	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R3123	401 105 0603	MT-GLAZE 10K JA 1/16W
R2514	401 105 0504	MT-GLAZE 1K JA 1/16W	R3124	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2516	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R3125	401 177 2406	MT-GLAZE 10M JA 1/16W
R2517	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R3128	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2518	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R3129	401 177 2406	MT-GLAZE 10M JA 1/16W
R2519	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R313	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2532	401 105 0504	MT-GLAZE 1K JA 1/16W	R3131	401 105 3406	MT-GLAZE 27K JA 1/16W
R2533	401 105 0504	MT-GLAZE 1K JA 1/16W	R3132	401 105 7503	MT-GLAZE 82K JA 1/16W
R2536	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3133	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R2538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3134	401 105 0504	MT-GLAZE 1K JA 1/16W
R2541	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R3136	401 105 0504	MT-GLAZE 1K JA 1/16W
R2542	401 105 4700	MT-GLAZE 39K JA 1/16W	R3137	401 105 0405	MT-GLAZE 100 JA 1/16W
R2543	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R3139	401 105 0504	MT-GLAZE 1K JA 1/16W
R2544	401 105 0504	MT-GLAZE 1K JA 1/16W	R314	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2546	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R3141	401 105 5905	MT-GLAZE 560 JA 1/16W
R2547	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R3142	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R2548	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R3143	401 105 0603	MT-GLAZE 10K JA 1/16W
R2549	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R3144	401 105 5905	MT-GLAZE 560 JA 1/16W
R2561	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R3145	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R2562	401 105 0504	MT-GLAZE 1K JA 1/16W	R3146	401 105 0603	MT-GLAZE 10K JA 1/16W
R2571	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R3147	401 105 5905	MT-GLAZE 560 JA 1/16W
R2572	401 105 4700	MT-GLAZE 39K JA 1/16W	R3148	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R2573	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R3149	401 105 0603	MT-GLAZE 10K JA 1/16W
R2574	401 105 0504	MT-GLAZE 1K JA 1/16W	R315	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R3151	401 105 0504	MT-GLAZE 1K JA 1/16W	R3269	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R3152	401 105 0504	MT-GLAZE 1K JA 1/16W	R327	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3153	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R3271	401 105 0405	MT-GLAZE 100 JA 1/16W
R3154	401 105 0504	MT-GLAZE 1K JA 1/16W	R3272	401 105 0504	MT-GLAZE 1K JA 1/16W
R3155	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R3273	401 105 4502	MT-GLAZE 390 JA 1/16W
R3156	401 105 0504	MT-GLAZE 1K JA 1/16W	R3274	401 105 0405	MT-GLAZE 100 JA 1/16W
R316	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3275	401 105 0504	MT-GLAZE 1K JA 1/16W
R3160	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3276	401 105 4502	MT-GLAZE 390 JA 1/16W
R3161	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R3277	401 105 0405	MT-GLAZE 100 JA 1/16W
R317	401 105 0306	MT-GLAZE 10 JA 1/16W	R3278	401 105 0504	MT-GLAZE 1K JA 1/16W
R3171	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3279	401 105 4502	MT-GLAZE 390 JA 1/16W
R3172	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R328	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3173	401 105 0504	MT-GLAZE 1K JA 1/16W	R3292	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3174	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3294	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3175	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3296	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3176	401 105 0504	MT-GLAZE 1K JA 1/16W	R3298	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3177	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R332	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3178	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R333	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3179	401 105 0504	MT-GLAZE 1K JA 1/16W	R334	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R318	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R336	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3181	401 105 0504	MT-GLAZE 1K JA 1/16W	R337	401 105 0603	MT-GLAZE 10K JA 1/16W
R3182	401 105 6001	MT-GLAZE 5.6K JA 1/16W	R338	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3183	401 105 0702	MT-GLAZE 100K JA 1/16W	R341	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3184	401 105 0504	MT-GLAZE 1K JA 1/16W	R342	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R3191	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R343	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R3192	401 105 0405	MT-GLAZE 100 JA 1/16W	R344	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3194	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R345	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3195	401 105 0405	MT-GLAZE 100 JA 1/16W	R3502	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3197	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3504	401 105 0603	MT-GLAZE 10K JA 1/16W
R3198	401 105 0405	MT-GLAZE 100 JA 1/16W	R3506	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R320	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3508	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3200	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R351	401 105 0405	MT-GLAZE 100 JA 1/16W
R3201	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3516	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3202	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3517	401 105 0306	MT-GLAZE 10 JA 1/16W
R3203	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R352	401 105 0603	MT-GLAZE 10K JA 1/16W
R3204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3205	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3534	401 105 0603	MT-GLAZE 10K JA 1/16W
R3211	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3536	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3212	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R354	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3214	401 105 0405	MT-GLAZE 100 JA 1/16W	R3541	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3542	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3217	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3544	401 105 0504	MT-GLAZE 1K JA 1/16W
R3218	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3546	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3547	401 105 0306	MT-GLAZE 10 JA 1/16W
R3221	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R356	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3222	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3562	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3223	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3564	401 105 0603	MT-GLAZE 10K JA 1/16W
R3226	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R3566	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3227	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3568	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3228	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R357	401 105 5103	MT-GLAZE 47 JA 1/16W
R3229	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3571	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3231	401 105 0306	MT-GLAZE 10 JA 1/16W	R3572	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3232	401 105 0306	MT-GLAZE 10 JA 1/16W	R3574	401 105 0504	MT-GLAZE 1K JA 1/16W
R3233	401 105 0306	MT-GLAZE 10 JA 1/16W	R3576	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3236	401 105 0405	MT-GLAZE 100 JA 1/16W	R3577	401 105 0306	MT-GLAZE 10 JA 1/16W
R3241	401 105 0504	MT-GLAZE 1K JA 1/16W	R358	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3242	401 105 0504	MT-GLAZE 1K JA 1/16W	R359	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3246	401 105 1105	MT-GLAZE 12K JA 1/16W	R361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3247	401 105 0306	MT-GLAZE 10 JA 1/16W	R362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3248	401 219 1008	MT-GLAZE 1.6K FA 1/16W	R364	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3249	401 105 0603	MT-GLAZE 10K JA 1/16W	R366	401 105 0603	MT-GLAZE 10K JA 1/16W
R326	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R367	401 105 3208	MT-GLAZE 270 JA 1/16W
R3262	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R368	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3266	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R369	401 105 0603	MT-GLAZE 10K JA 1/16W
R3267	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R370	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3268	401 105 0603	MT-GLAZE 10K JA 1/16W	R371	401 105 0603	MT-GLAZE 10K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R373	401 105 0603	MT-GLAZE 10K JA 1/16W	R421	401 105 3901	MT-GLAZE 33 JA 1/16W
R375	401 105 2607	MT-GLAZE 22 JA 1/16W	R4211	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R376	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4213	401 105 0405	MT-GLAZE 100 JA 1/16W
R379	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4214	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R382	401 105 2607	MT-GLAZE 22 JA 1/16W	R4218	401 105 0405	MT-GLAZE 100 JA 1/16W
R385	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R422	401 105 3901	MT-GLAZE 33 JA 1/16W
R387	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4221	401 105 3901	MT-GLAZE 33 JA 1/16W
R388	401 105 0603	MT-GLAZE 10K JA 1/16W	R4222	401 105 3901	MT-GLAZE 33 JA 1/16W
R389	401 105 0603	MT-GLAZE 10K JA 1/16W	R4226	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R390	401 225 5601	MT-GLAZE 2.2 JA 1W	R4227	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R392	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4228	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R394	401 105 0603	MT-GLAZE 10K JA 1/16W	R4229	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R396	401 105 0603	MT-GLAZE 10K JA 1/16W	R423	401 105 3901	MT-GLAZE 33 JA 1/16W
R398	401 105 0603	MT-GLAZE 10K JA 1/16W	R4230	401 105 0405	MT-GLAZE 100 JA 1/16W
R399	401 225 5601	MT-GLAZE 2.2 JA 1W	R4231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R401	401 105 2607	MT-GLAZE 22 JA 1/16W	R4232	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R402	401 105 2607	MT-GLAZE 22 JA 1/16W	R4235	401 105 0405	MT-GLAZE 100 JA 1/16W
R403	401 105 2607	MT-GLAZE 22 JA 1/16W	R4236	401 105 0405	MT-GLAZE 100 JA 1/16W
R404	401 105 2607	MT-GLAZE 22 JA 1/16W	R424	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R406	401 105 2607	MT-GLAZE 22 JA 1/16W	R4241	401 105 0306	MT-GLAZE 10 JA 1/16W
R407	401 105 2607	MT-GLAZE 22 JA 1/16W	R4243	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R4101	401 105 0306	MT-GLAZE 10 JA 1/16W	R4246	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4102	401 105 0306	MT-GLAZE 10 JA 1/16W	R4248	401 113 4600	MT-GLAZE 110 JA 1/16W
R4103	401 105 0306	MT-GLAZE 10 JA 1/16W	R4251	401 113 4600	MT-GLAZE 110 JA 1/16W
R411	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4252	401 105 0306	MT-GLAZE 10 JA 1/16W
R4111	401 105 0405	MT-GLAZE 100 JA 1/16W	R4253	401 105 0306	MT-GLAZE 10 JA 1/16W
R4112	401 105 0405	MT-GLAZE 100 JA 1/16W	R4254	401 113 5003	MT-GLAZE 240 JA 1/16W
R4113	401 217 4100	MT-GLAZE 22K FA 1/16W	R4256	401 113 5003	MT-GLAZE 240 JA 1/16W
R4116	401 105 0405	MT-GLAZE 100 JA 1/16W	R426	401 105 3901	MT-GLAZE 33 JA 1/16W
R4117	401 105 0405	MT-GLAZE 100 JA 1/16W	R4263	401 105 0405	MT-GLAZE 100 JA 1/16W
R412	401 105 3901	MT-GLAZE 33 JA 1/16W	R4264	401 105 0306	MT-GLAZE 10 JA 1/16W
R4121	401 105 8104	MT-GLAZE 56K JA 1/16W	R4268	401 105 0405	MT-GLAZE 100 JA 1/16W
R4122	401 105 8104	MT-GLAZE 56K JA 1/16W	R4269	401 105 0306	MT-GLAZE 10 JA 1/16W
R4123	401 105 0405	MT-GLAZE 100 JA 1/16W	R427	401 105 3901	MT-GLAZE 33 JA 1/16W
R4124	401 105 0405	MT-GLAZE 100 JA 1/16W	R4274	401 105 0405	MT-GLAZE 100 JA 1/16W
R4126	401 105 0405	MT-GLAZE 100 JA 1/16W	R4275	401 105 0306	MT-GLAZE 10 JA 1/16W
R413	401 105 3901	MT-GLAZE 33 JA 1/16W	R428	401 105 3901	MT-GLAZE 33 JA 1/16W
R414	401 105 3901	MT-GLAZE 33 JA 1/16W	R4281	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4151	401 105 5202	MT-GLAZE 470 JA 1/16W	R4282	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4152	401 105 5400	MT-GLAZE 47K JA 1/16W	R4283	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R416	401 105 3901	MT-GLAZE 33 JA 1/16W	R4284	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4161	401 114 0908	MT-GLAZE 3.3M JA 1/16W	R4285	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4163	401 105 0603	MT-GLAZE 10K JA 1/16W	R4286	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4164	401 105 0603	MT-GLAZE 10K JA 1/16W	R4287	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4166	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4288	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4167	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4289	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4168	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R429	401 105 3901	MT-GLAZE 33 JA 1/16W
R417	401 105 3901	MT-GLAZE 33 JA 1/16W	R431	401 105 3901	MT-GLAZE 33 JA 1/16W
R4171	401 105 0405	MT-GLAZE 100 JA 1/16W	R432	401 105 3901	MT-GLAZE 33 JA 1/16W
R4173	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R433	401 105 3901	MT-GLAZE 33 JA 1/16W
R4176	401 105 0405	MT-GLAZE 100 JA 1/16W	R434	401 105 3901	MT-GLAZE 33 JA 1/16W
R4177	401 105 0405	MT-GLAZE 100 JA 1/16W	R436	401 105 3901	MT-GLAZE 33 JA 1/16W
R418	401 105 3901	MT-GLAZE 33 JA 1/16W	R437	401 105 3901	MT-GLAZE 33 JA 1/16W
R4184	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R438	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4186	401 105 0405	MT-GLAZE 100 JA 1/16W	R439	401 105 3901	MT-GLAZE 33 JA 1/16W
R4187	401 105 0405	MT-GLAZE 100 JA 1/16W	R441	401 105 3901	MT-GLAZE 33 JA 1/16W
R4188	401 105 0504	MT-GLAZE 1K JA 1/16W	R442	401 105 3901	MT-GLAZE 33 JA 1/16W
R4189	401 105 3000	MT-GLAZE 220K JA 1/16W	R443	401 105 3901	MT-GLAZE 33 JA 1/16W
R419	401 105 3901	MT-GLAZE 33 JA 1/16W	R444	401 105 3901	MT-GLAZE 33 JA 1/16W
R4191	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R446	401 105 3901	MT-GLAZE 33 JA 1/16W
R4192	401 105 1006	MT-GLAZE 1.2K JA 1/16W	R447	401 105 3901	MT-GLAZE 33 JA 1/16W
R4193	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R448	401 105 3901	MT-GLAZE 33 JA 1/16W
R4201	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R449	401 105 3901	MT-GLAZE 33 JA 1/16W
R4202	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R451	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4207	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R461	401 105 3901	MT-GLAZE 33 JA 1/16W
R4208	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R462	401 105 3901	MT-GLAZE 33 JA 1/16W
R4209	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R463	401 105 3901	MT-GLAZE 33 JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R464	401 105 3901	MT-GLAZE 33 JA 1/16W	R4887	401 105 0405	MT-GLAZE 100 JA 1/16W
R466	401 105 3901	MT-GLAZE 33 JA 1/16W	R4891	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R467	401 105 3901	MT-GLAZE 33 JA 1/16W	R4892	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R468	401 105 3901	MT-GLAZE 33 JA 1/16W	R4893	401 105 0405	MT-GLAZE 100 JA 1/16W
R471	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4894	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R472	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4896	401 105 0504	MT-GLAZE 1K JA 1/16W
R473	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4899	401 105 0603	MT-GLAZE 10K JA 1/16W
R474	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R491	401 105 2607	MT-GLAZE 22 JA 1/16W
R476	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R492	401 105 2607	MT-GLAZE 22 JA 1/16W
R477	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R493	401 105 2607	MT-GLAZE 22 JA 1/16W
R478	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R494	401 105 2607	MT-GLAZE 22 JA 1/16W
R4801	401 105 0603	MT-GLAZE 10K JA 1/16W	R496	401 105 2607	MT-GLAZE 22 JA 1/16W
R4802	401 105 0405	MT-GLAZE 100 JA 1/16W	R497	401 105 2607	MT-GLAZE 22 JA 1/16W
R4803	401 105 0603	MT-GLAZE 10K JA 1/16W	R498	401 105 2904	MT-GLAZE 22K JA 1/16W
R4804	401 105 0405	MT-GLAZE 100 JA 1/16W	R499	401 105 2904	MT-GLAZE 22K JA 1/16W
R4805	401 105 0603	MT-GLAZE 10K JA 1/16W	R504	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4806	401 105 0405	MT-GLAZE 100 JA 1/16W	R506	401 105 0504	MT-GLAZE 1K JA 1/16W
R4807	401 105 0504	MT-GLAZE 1K JA 1/16W	R507	401 105 0306	MT-GLAZE 10 JA 1/16W
R4808	401 105 0504	MT-GLAZE 1K JA 1/16W	R508	401 105 0306	MT-GLAZE 10 JA 1/16W
R4809	401 105 5202	MT-GLAZE 470 JA 1/16W	R5102	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R481	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5103	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4811	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R5104	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4812	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R511	401 105 0603	MT-GLAZE 10K JA 1/16W
R4814	401 105 0405	MT-GLAZE 100 JA 1/16W	R512	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R4815	401 105 2904	MT-GLAZE 22K JA 1/16W	R513	401 105 3406	MT-GLAZE 27K JA 1/16W
R4816	401 105 5202	MT-GLAZE 470 JA 1/16W	R5131	401 105 0603	MT-GLAZE 10K JA 1/16W
R4817	401 105 0405	MT-GLAZE 100 JA 1/16W	R5132	401 105 0603	MT-GLAZE 10K JA 1/16W
R4818	401 105 6001	MT-GLAZE 5.6K JA 1/16W	R5133	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R482	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5136	401 105 0504	MT-GLAZE 1K JA 1/16W
R4822	401 105 0603	MT-GLAZE 10K JA 1/16W	R516	401 105 2102	MT-GLAZE 18K JA 1/16W
R4823	401 105 4502	MT-GLAZE 390 JA 1/16W	R5162	401 105 5905	MT-GLAZE 560 JA 1/16W
R4824	401 105 4502	MT-GLAZE 390 JA 1/16W	R5163	401 105 5905	MT-GLAZE 560 JA 1/16W
R4825	401 105 4502	MT-GLAZE 390 JA 1/16W	R5164	401 105 1402	MT-GLAZE 150 JA 1/16W
R4826	401 105 2904	MT-GLAZE 22K JA 1/16W	R5165	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4827	401 105 2904	MT-GLAZE 22K JA 1/16W	R5166	401 105 0504	MT-GLAZE 1K JA 1/16W
R4828	401 105 0405	MT-GLAZE 100 JA 1/16W	R5167	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4829	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5168	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R4831	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5169	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R4834	401 105 0603	MT-GLAZE 10K JA 1/16W	R517	401 105 0603	MT-GLAZE 10K JA 1/16W
R4835	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5172	401 105 5905	MT-GLAZE 560 JA 1/16W
R4844	401 105 0405	MT-GLAZE 100 JA 1/16W	R5173	401 105 5905	MT-GLAZE 560 JA 1/16W
R4845	401 105 0405	MT-GLAZE 100 JA 1/16W	R5174	401 105 1402	MT-GLAZE 150 JA 1/16W
R4847	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5175	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4849	401 105 0405	MT-GLAZE 100 JA 1/16W	R5176	401 105 0504	MT-GLAZE 1K JA 1/16W
R4850	401 105 0405	MT-GLAZE 100 JA 1/16W	R5177	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4851	401 105 0405	MT-GLAZE 100 JA 1/16W	R518	401 105 0603	MT-GLAZE 10K JA 1/16W
R4852	401 105 0405	MT-GLAZE 100 JA 1/16W	R5182	401 105 5905	MT-GLAZE 560 JA 1/16W
R4853	401 105 0306	MT-GLAZE 10 JA 1/16W	R5183	401 105 5905	MT-GLAZE 560 JA 1/16W
R4854	401 105 0306	MT-GLAZE 10 JA 1/16W	R5184	401 105 1402	MT-GLAZE 150 JA 1/16W
R4855	401 105 2904	MT-GLAZE 22K JA 1/16W	R5185	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4856	401 105 2904	MT-GLAZE 22K JA 1/16W	R5186	401 105 0504	MT-GLAZE 1K JA 1/16W
R4857	401 105 0405	MT-GLAZE 100 JA 1/16W	R5187	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4858	401 105 0405	MT-GLAZE 100 JA 1/16W	R5191	401 105 0405	MT-GLAZE 100 JA 1/16W
R4859	401 105 0603	MT-GLAZE 10K JA 1/16W	R5192	401 105 0405	MT-GLAZE 100 JA 1/16W
R4860	401 105 0405	MT-GLAZE 100 JA 1/16W	R5193	401 105 0405	MT-GLAZE 100 JA 1/16W
R4861	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R5201	401 105 1808	MT-GLAZE 18 JA 1/16W
R4862	401 038 5003	MT-GLAZE 390 JA 1/10W	R5202	401 105 5806	MT-GLAZE 56 JA 1/16W
R4863	401 105 4502	MT-GLAZE 390 JA 1/16W	R5204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4865	401 036 1403	MT-GLAZE 220 JA 1/8W	R5206	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4876	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4877	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4878	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5217	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4879	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5231	401 105 1808	MT-GLAZE 18 JA 1/16W
R4881	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5232	401 105 5806	MT-GLAZE 56 JA 1/16W
R4882	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5234	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4883	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5236	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4886	401 105 0405	MT-GLAZE 100 JA 1/16W	R5243	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R5246	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6180	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5247	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6181	401 105 0405	MT-GLAZE 100 JA 1/16W
R5261	401 105 1808	MT-GLAZE 18 JA 1/16W	R6182	401 105 0405	MT-GLAZE 100 JA 1/16W
R5262	401 105 5806	MT-GLAZE 56 JA 1/16W	R6183	401 105 0405	MT-GLAZE 100 JA 1/16W
R5264	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6184	401 105 0405	MT-GLAZE 100 JA 1/16W
R5266	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6185	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5273	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6187	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R5276	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6188	401 113 5201	MT-GLAZE 360 JA 1/16W
R5277	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6189	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R534	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6193	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R536	401 105 0504	MT-GLAZE 1K JA 1/16W	R6194	401 105 0603	MT-GLAZE 10K JA 1/16W
R537	401 105 0306	MT-GLAZE 10 JA 1/16W	R6196	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R538	401 105 0306	MT-GLAZE 10 JA 1/16W	R6197	401 105 0405	MT-GLAZE 100 JA 1/16W
R541	401 105 0603	MT-GLAZE 10K JA 1/16W	R6198	401 105 0405	MT-GLAZE 100 JA 1/16W
R542	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R6199	401 105 0405	MT-GLAZE 100 JA 1/16W
R543	401 105 3406	MT-GLAZE 27K JA 1/16W	R6381	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R546	401 105 2102	MT-GLAZE 18K JA 1/16W	R6384	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R547	401 105 0603	MT-GLAZE 10K JA 1/16W	R8001	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R548	401 105 0603	MT-GLAZE 10K JA 1/16W	R8002	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R564	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8003	401 105 4007	MT-GLAZE 330 JA 1/16W
R566	401 105 0504	MT-GLAZE 1K JA 1/16W	R8004	401 105 3109	MT-GLAZE 27 JA 1/16W
R567	401 105 0306	MT-GLAZE 10 JA 1/16W	R8005	401 105 4205	MT-GLAZE 33K JA 1/16W
R568	401 105 0306	MT-GLAZE 10 JA 1/16W	R8006	401 105 4205	MT-GLAZE 33K JA 1/16W
R571	401 105 0603	MT-GLAZE 10K JA 1/16W	R8008	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R572	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R8009	401 105 4205	MT-GLAZE 33K JA 1/16W
R573	401 105 3406	MT-GLAZE 27K JA 1/16W	R801	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R576	401 105 2102	MT-GLAZE 18K JA 1/16W	R8010	401 105 4205	MT-GLAZE 33K JA 1/16W
R577	401 105 0603	MT-GLAZE 10K JA 1/16W	R8011	401 105 4205	MT-GLAZE 33K JA 1/16W
R578	401 105 0603	MT-GLAZE 10K JA 1/16W	R8013	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R6103	401 105 0405	MT-GLAZE 100 JA 1/16W	R8015	401 113 6406	MT-GLAZE 5.1K JA 1/16W
R6104	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8016	401 113 6406	MT-GLAZE 5.1K JA 1/16W
R6107	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8018	401 113 6406	MT-GLAZE 5.1K JA 1/16W
R6108	401 105 0405	MT-GLAZE 100 JA 1/16W	R802	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6111	401 105 0405	MT-GLAZE 100 JA 1/16W	R8020	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6113	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R803	401 105 0405	MT-GLAZE 100 JA 1/16W
R6116	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8031	401 105 0405	MT-GLAZE 100 JA 1/16W
R6118	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8032	401 105 0405	MT-GLAZE 100 JA 1/16W
R6122	401 105 0405	MT-GLAZE 100 JA 1/16W	R8033	401 105 0603	MT-GLAZE 10K JA 1/16W
R6124	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8034	401 105 0603	MT-GLAZE 10K JA 1/16W
R6126	401 105 1105	MT-GLAZE 12K JA 1/16W	R8036	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6127	401 105 0603	MT-GLAZE 10K JA 1/16W	R8037	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6128	401 105 0405	MT-GLAZE 100 JA 1/16W	R8039	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6131	401 105 0405	MT-GLAZE 100 JA 1/16W	R804	401 105 0405	MT-GLAZE 100 JA 1/16W
R6134	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8041	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6136	401 105 0603	MT-GLAZE 10K JA 1/16W	R8042	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6137	401 105 1600	MT-GLAZE 15K JA 1/16W	R8043	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6141	401 105 0702	MT-GLAZE 100K JA 1/16W	R8044	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6142	401 105 0702	MT-GLAZE 100K JA 1/16W	R8046	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6143	401 105 0702	MT-GLAZE 100K JA 1/16W	R8047	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6144	401 105 2102	MT-GLAZE 18K JA 1/16W	R8048	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6146	401 105 0603	MT-GLAZE 10K JA 1/16W	R8049	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6147	401 105 0504	MT-GLAZE 1K JA 1/16W	R8052	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6151	401 105 0603	MT-GLAZE 10K JA 1/16W	R8056	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6152	401 105 0405	MT-GLAZE 100 JA 1/16W	R806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6153	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R808	401 105 0405	MT-GLAZE 100 JA 1/16W
R6154	401 105 0405	MT-GLAZE 100 JA 1/16W	R809	401 105 0405	MT-GLAZE 100 JA 1/16W
R6164	401 105 0504	MT-GLAZE 1K JA 1/16W	R8091	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6166	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R8092	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6167	401 105 0504	MT-GLAZE 1K JA 1/16W	R8093	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6169	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8096	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6171	401 105 0603	MT-GLAZE 10K JA 1/16W	R811	401 105 0603	MT-GLAZE 10K JA 1/16W
R6172	401 105 3307	MT-GLAZE 2.7K JA 1/16W	R812	401 105 0603	MT-GLAZE 10K JA 1/16W
R6174	401 105 0504	MT-GLAZE 1K JA 1/16W	R813	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6176	401 105 0504	MT-GLAZE 1K JA 1/16W	R815	401 105 0405	MT-GLAZE 100 JA 1/16W
R6177	401 105 3307	MT-GLAZE 2.7K JA 1/16W	R816	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6178	401 105 0504	MT-GLAZE 1K JA 1/16W	R817	401 105 0405	MT-GLAZE 100 JA 1/16W
R6179	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R818	401 105 5301	MT-GLAZE 4.7K JA 1/16W

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Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
L1161	645 021 1607	INDUCTOR,10U J	D4805	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)
L140	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	D4806	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)
L1501	645 026 1008	INDUCTOR,3.3U M	D4807	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)
L1531	645 026 1008	INDUCTOR,3.3U M	D4808	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)
L201	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	D4809	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
L2101	645 021 1669	INDUCTOR,22U J	D4811	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
L2102	645 021 1737	INDUCTOR,47U J	D4812	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
L2103	645 021 1737	INDUCTOR,47U J	D4813	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
L2116	645 017 4520	INDUCTOR,100U J	D4814	407 149 0807	DIODE 1SS355-TE-17
L2501	401 035 4306	MT-GLAZE 10 JA 1/8W	D4891	407 149 0807	DIODE 1SS355-TE-17
L2511	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	D6121	407 149 0807	DIODE 1SS355-TE-17
L281	645 020 1776	INDUCTOR,3.3U M	D6122	407 149 0807	DIODE 1SS355-TE-17
L3101	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	D6136	407 149 0807	DIODE 1SS355-TE-17
L3102	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	D6137	407 149 0807	DIODE 1SS355-TE-17
L3103	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	D6138	407 149 0807	DIODE 1SS355-TE-17
L3191	645 021 1607	INDUCTOR,10U J	D6139	407 149 0807	DIODE 1SS355-TE-17
L3194	645 021 1669	INDUCTOR,22U J	D6161	407 149 0807	DIODE 1SS355-TE-17
L3197	645 021 1669	INDUCTOR,22U J	D6176	407 149 0807	DIODE 1SS355-TE-17
L3291	645 026 1008	INDUCTOR,3.3U M	D6381	407 149 0807	DIODE 1SS355-TE-17
L3501	645 020 1776	INDUCTOR,3.3U M	D8001	407 149 0807	DIODE 1SS355-TE-17
L3531	645 020 1776	INDUCTOR,3.3U M	D801	407 149 0807	DIODE 1SS355-TE-17
L3561	645 020 1776	INDUCTOR,3.3U M	D8031	407 149 0807	DIODE 1SS355-TE-17
L401	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	D8032	407 149 0807	DIODE 1SS355-TE-17
L4101	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	MISCELLANEOUS		
L4201	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	X1101	645 045 9122	OSC, CRYSTAL 20MHZ
L4231	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	X3101	645 047 1568	OSC, CRYSTAL 16.200MHZ
L4251	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	X361	645 047 6587	OSC, CRYSTAL 26.000MHZ
L4881	645 020 1776	INDUCTOR,3.3U M	X362	645 047 6587	OSC, CRYSTAL 26.000MHZ
L501	645 020 1776	INDUCTOR,3.3U M	X6181	645 053 7677	OSC, CERAMIC 503.0KHZ
L502	645 020 1776	INDUCTOR,3.3U M	X801	645 053 4973	OSC, CRYSTAL 6.4512MHZ
L5161	645 021 1744	INDUCTOR,5.6U J	X9801	645 035 8906	OSC, CRYSTAL 48MHZ
L5166	645 026 0964	INDUCTOR,10U K	X9871	645 035 2249	OSC, CRYSTAL 6.7584MHZ
L5171	645 021 1744	INDUCTOR,5.6U J	X9891	645 035 2249	OSC, CRYSTAL 6.7584MHZ
L5181	645 021 1744	INDUCTOR,5.6U J	TEMP SENSOR BOARD		
L5191	645 026 0964	INDUCTOR,10U K	△ 610 301 1950 ASSY,PWB,TEMP.SENSOR MC3A		
L531	645 020 1776	INDUCTOR,3.3U M	INTEGRATED CIRCUIT		
L532	645 020 1776	INDUCTOR,3.3U M	IC2821	409 481 8602	IC LM76CHMX-5
L561	645 020 1776	INDUCTOR,3.3U M	CAPACITOR		
L562	645 020 1776	INDUCTOR,3.3U M	C2821	403 164 0204	CERAMIC 0.1U Z 25V
L6301	645 001 4512	INDUCTOR,10U K	C2822	403 157 3809	CERAMIC 120P J 50V
L8001	645 026 0988	INDUCTOR,2.2U M	C2823	403 155 1609	CERAMIC 33P J 50V
L8002	645 026 0988	INDUCTOR,2.2U M	C2824	403 205 7803	TA-SOLID 2.2U M 16V
L8003	645 026 0988	INDUCTOR,2.2U M	RESISTOR		
L8004	645 026 0988	INDUCTOR,2.2U M	R2822	401 105 0306	MT-GLAZE 10 JA 1/16W
L8041	645 020 1776	INDUCTOR,3.3U M	R2823	401 105 0306	MT-GLAZE 10 JA 1/16W
L8061	645 020 1776	INDUCTOR,3.3U M	R2824	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
L9801	645 021 1645	INDUCTOR,2.2U J	R2827	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
DIODE			AUDIO BOARD		
D1101	407 149 0807	DIODE 1SS355-TE-17	△ 610 302 6435 ASSY,PWB,AUDIO MC3A		
D1102	407 149 0807	DIODE 1SS355-TE-17	TRANSISTOR		
D1161	407 149 0807	DIODE 1SS355-TE-17	Q011	405 134 5905	TR 2SA1037AK-T146-R
D1561	407 149 0807	DIODE 1SS355-TE-17		405 147 2205	TR 2SA1037AK-S-T146
D1571	407 149 0807	DIODE 1SS355-TE-17		405 002 0308	TR 2SA1037K T146 R
D241	407 149 0807	DIODE 1SS355-TE-17		405 002 0407	TR 2SA1037K T146 S
D242	407 149 0807	DIODE 1SS355-TE-17			
D243	407 149 0807	DIODE 1SS355-TE-17			
D2501	407 149 0807	DIODE 1SS355-TE-17			
D3102	407 149 0807	DIODE 1SS355-TE-17			
D3103	407 149 0807	DIODE 1SS355-TE-17			
D3251	407 149 0807	DIODE 1SS355-TE-17			
D3252	407 149 0807	DIODE 1SS355-TE-17			
D3253	407 149 0807	DIODE 1SS355-TE-17			
D451	407 149 0807	DIODE 1SS355-TE-17			
D4801	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)			
D4802	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)			
D4803	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)			
D4804	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q013	405 002 6706	TR 2SA1179-M6-TB	C038	403 281 5205	CERAMIC 0.22U Z 16V
	405 002 6904	TR 2SA1179-M7-TB	C041	403 343 4900	ELECT 470U M 25V
	405 163 1503	TR 2SA1179N-M6-TB	C042	403 343 4900	ELECT 470U M 25V
	405 163 2708	TR 2SA1179N-M7-TB	C043	403 343 4900	ELECT 470U M 25V
	405 014 4509	TR 2SC2412K T146 R	C044	403 343 4900	ELECT 470U M 25V
	405 014 4608	TR 2SC2412K T146 S	C5501	403 149 9208	CERAMIC 0.01U Z 50V
	405 015 8704	TR 2SC2812-L6-TB	C5504	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8902	TR 2SC2812-L7-TB	C5531	403 149 9208	CERAMIC 0.01U Z 50V
	405 163 1602	TR 2SC2812N-L6-TB0	C5534	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1701	TR 2SC2812N-L7-TB0	C5561	403 149 9208	CERAMIC 0.01U Z 50V
Q014	405 014 4509	TR 2SC2412K T146 R	C5564	403 164 0204	CERAMIC 0.1U Z 25V
	405 014 4608	TR 2SC2412K T146 S	C5581	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8704	TR 2SC2812-L6-TB	C5582	403 304 1801	ELECT 100U M 6.3V
	405 015 8902	TR 2SC2812-L7-TB	C5583	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1602	TR 2SC2812N-L6-TB0	C5601	403 342 9104	ELECT 680U M 16V
	405 163 1701	TR 2SC2812N-L7-TB0	C5606	403 342 9104	ELECT 680U M 16V
	405 014 4509	TR 2SC2412K T146 R	C5611	403 342 9104	ELECT 680U M 16V
	405 014 4608	TR 2SC2412K T146 S	RESISTOR		
	405 015 8704	TR 2SC2812-L6-TB	R001	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
	405 015 8902	TR 2SC2812-L7-TB	R002	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
Q5501	405 163 1602	TR 2SC2812N-L6-TB0	R003	401 105 0504	MT-GLAZE 1K JA 1/16W
	405 163 1701	TR 2SC2812N-L7-TB0	R006	401 105 0405	MT-GLAZE 100 JA 1/16W
	405 014 4509	TR 2SC2412K T146 R	R007	401 105 0405	MT-GLAZE 100 JA 1/16W
	405 014 4608	TR 2SC2412K T146 S	R011	401 105 0405	MT-GLAZE 100 JA 1/16W
	405 015 8704	TR 2SC2812-L6-TB	R012	401 105 0504	MT-GLAZE 1K JA 1/16W
	405 015 8902	TR 2SC2812-L7-TB	R013	401 105 0405	MT-GLAZE 100 JA 1/16W
	405 163 1602	TR 2SC2812N-L6-TB0	R014	401 105 0504	MT-GLAZE 1K JA 1/16W
	405 163 1701	TR 2SC2812N-L7-TB0	R016	401 105 0504	MT-GLAZE 1K JA 1/16W
	405 014 4509	TR 2SC2412K T146 R	R017	401 105 0405	MT-GLAZE 100 JA 1/16W
	405 014 4608	TR 2SC2412K T146 S	R018	401 105 0504	MT-GLAZE 1K JA 1/16W
Q5531	405 015 8704	TR 2SC2812-L6-TB	R019	401 105 1501	MT-GLAZE 1.5K JA 1/16W
	405 015 8902	TR 2SC2812-L7-TB	R021	401 105 2805	MT-GLAZE 2.2K JA 1/16W
	405 163 1602	TR 2SC2812N-L6-TB0	R022	401 105 2805	MT-GLAZE 2.2K JA 1/16W
	405 163 1701	TR 2SC2812N-L7-TB0	R023	401 105 1501	MT-GLAZE 1.5K JA 1/16W
	405 014 4509	TR 2SC2412K T146 R	R024	401 105 2904	MT-GLAZE 22K JA 1/16W
	405 014 4608	TR 2SC2412K T146 S	R026	401 105 4205	MT-GLAZE 33K JA 1/16W
	405 015 8704	TR 2SC2812-L6-TB	R027	401 105 0306	MT-GLAZE 10 JA 1/16W
	405 015 8902	TR 2SC2812-L7-TB	R028	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	405 163 1602	TR 2SC2812N-L6-TB0	R031	401 102 7407	MT-GLAZE 10 JA 1W
	405 163 1701	TR 2SC2812N-L7-TB0	R032	401 102 7407	MT-GLAZE 10 JA 1W
INTEGRATED CIRCUIT			R033	401 105 0603	MT-GLAZE 10K JA 1/16W
IC001	409 341 4102	IC BA7655AF	R034	401 113 6406	MT-GLAZE 5.1K JA 1/16W
IC002	409 416 6505	IC BA05FP-E2	R036	401 105 0504	MT-GLAZE 1K JA 1/16W
IC031	410 445 4400	IC TDA1517ATW/N1	R037	401 102 7407	MT-GLAZE 10 JA 1W
IC5501	409 362 1104	IC BA6287F	R5501	401 105 0504	MT-GLAZE 1K JA 1/16W
IC5531	409 362 1104	IC BA6287F	R5502	401 105 5301	MT-GLAZE 4.7K JA 1/16W
IC5561	409 537 6200	IC BA6920FP-Y-E2	R5503	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
IC5581	409 404 6302	IC M62320FP	R5504	401 036 9904	MT-GLAZE 560 JA 1/8W
CAPACITOR			R5506	401 105 0504	MT-GLAZE 1K JA 1/16W
C001	403 304 2105	ELECT 47U M 6.3V	R5507	401 105 5301	MT-GLAZE 4.7K JA 1/16W
C002	403 298 9609	CERAMIC 0.1U K 16V	R5509	401 102 7407	MT-GLAZE 10 JA 1W
C003	403 298 9609	CERAMIC 0.1U K 16V	R5531	401 105 0504	MT-GLAZE 1K JA 1/16W
C004	403 298 9609	CERAMIC 0.1U K 16V	R5532	401 105 5301	MT-GLAZE 4.7K JA 1/16W
C005	403 298 9609	CERAMIC 0.1U K 16V	R5533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C006	403 215 2201	CERAMIC 0.01U K 50V	R5534	401 036 9904	MT-GLAZE 560 JA 1/8W
C007	403 229 3508	ELECT 100U M 16V	R5536	401 105 0504	MT-GLAZE 1K JA 1/16W
C008	403 341 7507	ELECT 100U M 25V	R5537	401 105 5301	MT-GLAZE 4.7K JA 1/16W
C009	403 283 6309	CERAMIC 1U Z 10V	R5561	401 105 0504	MT-GLAZE 1K JA 1/16W
C011	403 283 6309	CERAMIC 1U Z 10V	R5562	401 105 5301	MT-GLAZE 4.7K JA 1/16W
C012	403 175 4109	ELECT 22U M 16V	R5563	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C031	403 343 4900	ELECT 470U M 25V	R5564	401 036 9904	MT-GLAZE 560 JA 1/8W
C032	403 343 4900	ELECT 470U M 25V	R5566	401 105 0504	MT-GLAZE 1K JA 1/16W
C033	403 164 0204	CERAMIC 0.1U Z 25V	R5567	401 105 5301	MT-GLAZE 4.7K JA 1/16W
C034	403 215 2201	CERAMIC 0.01U K 50V	R5569	401 203 1106	MT-GLAZE 8.2 JA 1W
C036	403 341 7507	ELECT 100U M 25V	R5572	401 105 0504	MT-GLAZE 1K JA 1/16W
C037	403 281 5205	CERAMIC 0.22U Z 16V	R5573TM	401 203 1106	MT-GLAZE 8.2 JA 1W
			R5581	401 105 0405	MT-GLAZE 100 JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R5582	401 105 0405	MT-GLAZE 100 JA 1/16W	Q3052	405 014 4509	TR 2SC2412K T146 R
R5601	401 290 1508	MT-GLAZE 0.1 JE 1/2W		405 014 4608	TR 2SC2412K T146 S
R5602	401 105 0603	MT-GLAZE 10K JA 1/16W		405 015 8704	TR 2SC2812-L6-TB
R5606	401 290 1508	MT-GLAZE 0.1 JE 1/2W		405 015 8902	TR 2SC2812-L7-TB
R5607	401 105 0603	MT-GLAZE 10K JA 1/16W		405 163 1602	TR 2SC2812N-L6-TB0
R5611	401 290 1508	MT-GLAZE 0.1 JE 1/2W		405 163 1701	TR 2SC2812N-L7-TB0
R5612	401 105 0603	MT-GLAZE 10K JA 1/16W	Q3053	405 014 4509	TR 2SC2412K T146 R
DIODE				405 014 4608	TR 2SC2412K T146 S
D031	407 149 0807	DIODE 1SS355-TE-17		405 015 8704	TR 2SC2812-L6-TB
D5501	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 015 8902	TR 2SC2812-L7-TB
D5502	407 149 0807	DIODE 1SS355-TE-17		405 163 1602	TR 2SC2812N-L6-TB0
D5531	407 179 0501	ZENER DIODE UDZ6.2B-TE-17		405 163 1701	TR 2SC2812N-L7-TB0
D5561	407 187 8308	ZENER DIODE UDZ13B-TE-17	Q3054	405 014 4509	TR 2SC2412K T146 R
D5562	407 149 0807	DIODE 1SS355-TE-17		405 014 4608	TR 2SC2412K T146 S
D5601	407 149 0807	DIODE 1SS355-TE-17		405 015 8704	TR 2SC2812-L6-TB
D5606	407 149 0807	DIODE 1SS355-TE-17		405 015 8902	TR 2SC2812-L7-TB
D5611	407 149 0807	DIODE 1SS355-TE-17		405 163 1602	TR 2SC2812N-L6-TB0
D5612	407 149 0807	DIODE 1SS355-TE-17		405 163 1701	TR 2SC2812N-L7-TB0
COM BOARD			Q3081	405 014 4509	TR 2SC2412K T146 R
△610 300 6437 ASSY,PWB,COM. MC3A				405 014 4608	TR 2SC2412K T146 S
TRANSISTOR				405 015 8704	TR 2SC2812-L6-TB
Q3021	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	Q7231	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
Q3028	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	Q7311	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
Q3029	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	INTEGRATED CIRCUIT		
	405 163 1602	TR 2SC2812N-L6-TB0	IC3001	409 462 6009	IC AD8185ARU
	405 163 1701	TR 2SC2812N-L7-TB0	IC3021	409 526 5306	IC BD7600FV
Q3031	405 134 5905	TR 2SA1037AK-T146-R	IC3022	409 526 5306	IC BD7600FV
	405 147 2205	TR 2SA1037AK-S-T146	IC4001	409 461 7403	IC LT1399CS
	405 002 0308	TR 2SA1037K T146 R	IC4002	410 349 4100	IC TC7W241FU(Te12L)
	405 002 0407	TR 2SA1037K T146 S	IC7001	409 334 0104	IC TC7W125FU
	405 002 6706	TR 2SA1179-M6-TB	IC7002	409 428 8405	IC TC7WT125FU-TE12L
	405 002 6904	TR 2SA1179-M7-TB	IC7003	409 428 8405	IC TC7WT125FU-TE12L
	405 163 1503	TR 2SA1179N-M6-TB	IC7201	409 484 2003	IC BA7078AF-E2
	405 163 2708	TR 2SA1179N-M7-TB	IC7221	410 343 7008	IC SN74AHCT1G14DBVR
Q3032	405 134 5905	TR 2SA1037AK-T146-R	IC7226	410 343 7008	IC SN74AHCT1G14DBVR
	405 147 2205	TR 2SA1037AK-S-T146	IC7301	409 051 2900	IC TC4053BF(EL)
	405 002 0308	TR 2SA1037K T146 R	IC7302	409 462 0304	IC 24LC21AT/SN
	405 002 0407	TR 2SA1037K T146 S	CAPACITOR		
	405 002 6706	TR 2SA1179-M6-TB	C3001	403 164 0204	CERAMIC 0.1U Z 25V
	405 002 6904	TR 2SA1179-M7-TB	C3002	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1503	TR 2SA1179N-M6-TB	C3003	403 355 4608	ELECT 47U M 6.3V
	405 163 2708	TR 2SA1179N-M7-TB	C3004	403 164 0204	CERAMIC 0.1U Z 25V
Q3051	405 014 4509	TR 2SC2412K T146 R	C3006	403 164 0204	CERAMIC 0.1U Z 25V
	405 014 4608	TR 2SC2412K T146 S	C3009	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8704	TR 2SC2812-L6-TB	C3011	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8902	TR 2SC2812-L7-TB	C3013	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1602	TR 2SC2812N-L6-TB0	C3021	403 323 1301	CERAMIC 0.47U Z 10V
	405 163 1701	TR 2SC2812N-L7-TB0			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C3022	403 323 1301	CERAMIC 0.47U Z 10V	R1033	401 113 4402	MT-GLAZE 75 JA 1/16W
C3023	403 323 1301	CERAMIC 0.47U Z 10V	R1036	401 113 4402	MT-GLAZE 75 JA 1/16W
C3024	403 323 1301	CERAMIC 0.47U Z 10V	R1037	401 113 4402	MT-GLAZE 75 JA 1/16W
C3026	403 164 0204	CERAMIC 0.1U Z 25V	R3001	401 105 0405	MT-GLAZE 100 JA 1/16W
C3027	403 164 0204	CERAMIC 0.1U Z 25V	R3002	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C3028	403 298 9609	CERAMIC 0.1U K 16V	R3003	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C3029	403 298 9609	CERAMIC 0.1U K 16V	R3004	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C3031	403 164 0204	CERAMIC 0.1U Z 25V	R3021	401 105 8104	MT-GLAZE 56K JA 1/16W
C3032	403 164 0204	CERAMIC 0.1U Z 25V	R3022	401 105 0504	MT-GLAZE 1K JA 1/16W
C3033	403 175 0606	ELECT 100U M 6.3V	R3023	401 105 0405	MT-GLAZE 100 JA 1/16W
C3034TM	403 009 3001	CERAMIC 100P J 50V	R3024	401 105 0405	MT-GLAZE 100 JA 1/16W
C3051	403 157 3106	CERAMIC 56P J 50V	R3026	401 105 0603	MT-GLAZE 10K JA 1/16W
C3052	403 157 3106	CERAMIC 56P J 50V	R3027	401 105 5301	MT-GLAZE 4.7K JA 1/16W
C3053	403 157 3106	CERAMIC 56P J 50V	R3028	401 105 5301	MT-GLAZE 4.7K JA 1/16W
C3061	403 363 3501	CERAMIC 22U M 6.3V	R3029	401 105 0504	MT-GLAZE 1K JA 1/16W
C3063	403 380 0101	CERAMIC 47U M 6.3V	R3030	401 105 0504	MT-GLAZE 1K JA 1/16W
C3064	403 379 9801	CERAMIC 10U K 6.3V	R3031	401 105 1402	MT-GLAZE 150 JA 1/16W
C3071	403 363 3501	CERAMIC 22U M 6.3V	R3032	401 105 1402	MT-GLAZE 150 JA 1/16W
C3073	403 380 0101	CERAMIC 47U M 6.3V	R3033	401 105 0504	MT-GLAZE 1K JA 1/16W
C3074	403 379 9801	CERAMIC 10U K 6.3V	R3034	401 105 1402	MT-GLAZE 150 JA 1/16W
C3081	403 164 0204	CERAMIC 0.1U Z 25V	R3036	401 105 0603	MT-GLAZE 10K JA 1/16W
C3082	403 164 0204	CERAMIC 0.1U Z 25V	R3037	401 105 0603	MT-GLAZE 10K JA 1/16W
C3091	403 341 3905	POS-SOLID 100U M 6.3V	R3038	401 105 0504	MT-GLAZE 1K JA 1/16W
C3092	403 280 0805	ELECT 330U M 6.3V	R3039	401 105 1402	MT-GLAZE 150 JA 1/16W
C3093	403 341 3905	POS-SOLID 100U M 6.3V	R3041	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C3094	403 149 9208	CERAMIC 0.01U Z 50V	R3042	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C4001	403 157 1508	CERAMIC 3P C 50V	R3043	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C4002	403 157 1508	CERAMIC 3P C 50V	R3046	401 105 0306	MT-GLAZE 10 JA 1/16W
C4003	403 157 1508	CERAMIC 3P C 50V	R3047	401 105 0306	MT-GLAZE 10 JA 1/16W
C4006	403 164 0204	CERAMIC 0.1U Z 25V	R3048	401 105 0306	MT-GLAZE 10 JA 1/16W
C4007	403 164 0204	CERAMIC 0.1U Z 25V	R3051	401 105 0603	MT-GLAZE 10K JA 1/16W
C4009	403 283 6309	CERAMIC 1U Z 10V	R3052	401 105 0603	MT-GLAZE 10K JA 1/16W
C7001	403 283 6309	CERAMIC 1U Z 10V	R3053	401 105 0603	MT-GLAZE 10K JA 1/16W
C7002	403 283 6309	CERAMIC 1U Z 10V	R3054	401 105 0504	MT-GLAZE 1K JA 1/16W
C7003	403 164 0204	CERAMIC 0.1U Z 25V	R3056	401 105 0603	MT-GLAZE 10K JA 1/16W
C7007	403 283 6309	CERAMIC 1U Z 10V	R3061	401 105 8104	MT-GLAZE 56K JA 1/16W
C7201	403 355 9900	CERAMIC 2.2U K 10V	R3062	401 105 0702	MT-GLAZE 100K JA 1/16W
C7202	403 314 5905	CERAMIC 0.47U K 16V	R3063	401 105 5301	MT-GLAZE 4.7K JA 1/16W
C7204	403 070 0909	CERAMIC 0.1U K 50V	R3064	401 105 8104	MT-GLAZE 56K JA 1/16W
C7206	403 364 5801	CERAMIC 1U K 10V	R3071	401 105 8104	MT-GLAZE 56K JA 1/16W
C7207	403 355 9900	CERAMIC 2.2U K 10V	R3072	401 105 0702	MT-GLAZE 100K JA 1/16W
C7208	403 364 5801	CERAMIC 1U K 10V	R3073	401 105 0504	MT-GLAZE 1K JA 1/16W
C7209	403 157 3601	CERAMIC 100P J 50V	R3074	401 105 8104	MT-GLAZE 56K JA 1/16W
C7211	403 164 0204	CERAMIC 0.1U Z 25V	R3081	401 105 0504	MT-GLAZE 1K JA 1/16W
C7212	403 164 0204	CERAMIC 0.1U Z 25V	R3082	401 105 0504	MT-GLAZE 1K JA 1/16W
C7221	403 164 0204	CERAMIC 0.1U Z 25V	R3083	401 105 0405	MT-GLAZE 100 JA 1/16W
C7226	403 164 0204	CERAMIC 0.1U Z 25V	R4001	401 105 1501	MT-GLAZE 1.5K JA 1/16W
C7231	403 164 0204	CERAMIC 0.1U Z 25V	R4003	401 105 1501	MT-GLAZE 1.5K JA 1/16W
C7301	403 304 1801	ELECT 100U M 6.3V	R4006	401 105 1501	MT-GLAZE 1.5K JA 1/16W
	403 373 7704	ELECT 100U M 6.3V	R4009	401 105 0603	MT-GLAZE 10K JA 1/16W
C7302	403 164 0204	CERAMIC 0.1U Z 25V	R4011	401 105 0306	MT-GLAZE 10 JA 1/16W
C7303	403 164 0204	CERAMIC 0.1U Z 25V	R4013	401 262 8504	MT-GLAZE 62 FA 1/16W
C8123	403 164 0204	CERAMIC 0.1U Z 25V	R4016	401 105 0306	MT-GLAZE 10 JA 1/16W
			R4018	401 262 8504	MT-GLAZE 62 FA 1/16W
			R4021	401 105 0306	MT-GLAZE 10 JA 1/16W
			R4023	401 262 8504	MT-GLAZE 62 FA 1/16W
			R4031	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
			R4032	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
			R7001	401 105 0603	MT-GLAZE 10K JA 1/16W
			R7002	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
			R7003	401 105 0603	MT-GLAZE 10K JA 1/16W
			R7004	401 105 0603	MT-GLAZE 10K JA 1/16W
			R7006	401 105 0405	MT-GLAZE 100 JA 1/16W
			R7007	401 105 0603	MT-GLAZE 10K JA 1/16W
			R7091	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
			R7092	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
			R7093	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RESISTOR					
R1001	401 260 4102	MT-GLAZE 75 JA 1/3W			
R1002	401 260 4102	MT-GLAZE 75 JA 1/3W			
R1003	401 260 4102	MT-GLAZE 75 JA 1/3W			
R1006	401 105 0405	MT-GLAZE 100 JA 1/16W			
R1007	401 105 0405	MT-GLAZE 100 JA 1/16W			
R1008	401 105 0405	MT-GLAZE 100 JA 1/16W			
R1011	401 105 0603	MT-GLAZE 10K JA 1/16W			
R1012	401 105 7909	MT-GLAZE 0.000 ZA 1/16W			
R1014	401 105 7909	MT-GLAZE 0.000 ZA 1/16W			
R1021	401 105 7909	MT-GLAZE 0.000 ZA 1/16W			
R1024	401 105 0405	MT-GLAZE 100 JA 1/16W			
R1031	401 113 4402	MT-GLAZE 75 JA 1/16W			
R1032	401 113 4402	MT-GLAZE 75 JA 1/16W			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R7094	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1002	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
R7096	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1003	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
R7202	401 105 0405	MT-GLAZE 100 JA 1/16W	D1004	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
R7203	401 105 8005	MT-GLAZE 1M JA 1/16W	D1006	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
R7204	401 177 2000	MT-GLAZE 3.9M JA 1/16W	D1007	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
R7221	401 105 0405	MT-GLAZE 100 JA 1/16W	D1008	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)
R7222	401 105 1303	MT-GLAZE 15 JA 1/16W	D1009	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)
R7223	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1011	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)
R7226	401 105 0405	MT-GLAZE 100 JA 1/16W	D1012	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)
R7227	401 105 1303	MT-GLAZE 15 JA 1/16W	D1031	407 187 8209	ZENER DIODE UDZ12B-TE-17
R7228	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1032	407 187 8209	ZENER DIODE UDZ12B-TE-17
R7231	401 105 0603	MT-GLAZE 10K JA 1/16W	D1033	407 187 8209	ZENER DIODE UDZ12B-TE-17
R7232	401 105 0603	MT-GLAZE 10K JA 1/16W	D1036	407 187 8209	ZENER DIODE UDZ12B-TE-17
R7233	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1037	407 187 8209	ZENER DIODE UDZ12B-TE-17
R7301	401 105 0603	MT-GLAZE 10K JA 1/16W	D3061	407 149 0807	DIODE 1SS355-TE-17
R7302	401 105 0603	MT-GLAZE 10K JA 1/16W	D3062	407 149 0807	DIODE 1SS355-TE-17
R7303	401 105 0603	MT-GLAZE 10K JA 1/16W	D3063	407 149 0807	DIODE 1SS355-TE-17
R7306	401 105 0405	MT-GLAZE 100 JA 1/16W	D3064	407 149 0807	DIODE 1SS355-TE-17
R7307	401 105 0405	MT-GLAZE 100 JA 1/16W	D3071	407 149 0807	DIODE 1SS355-TE-17
R7308	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D3072	407 149 0807	DIODE 1SS355-TE-17
R7309	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D3073	407 149 0807	DIODE 1SS355-TE-17
R7312	401 105 0603	MT-GLAZE 10K JA 1/16W	D3074	407 149 0807	DIODE 1SS355-TE-17
R7314	401 105 0603	MT-GLAZE 10K JA 1/16W	D7221	407 223 0907	ZENER DIODE 02DZ4.7Y (TPH3)
R8116	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D7226	407 223 0907	ZENER DIODE 02DZ4.7Y (TPH3)
R8117	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D7301	407 201 2701	DIODE RB051L-40-TE25
R8118	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D7303	407 149 0807	DIODE 1SS355-TE-17
R8119	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D8131	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
R8122	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D8132	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
R8124	401 105 2805	MT-GLAZE 2.2K JA 1/16W	D8133	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
R8131	401 260 4102	MT-GLAZE 75 JA 1/3W	D8134	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
R8132	401 260 4102	MT-GLAZE 75 JA 1/3W	D8136	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
R8133	401 260 4102	MT-GLAZE 75 JA 1/3W	D8137	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)
R8136	401 105 0405	MT-GLAZE 100 JA 1/16W	D8141	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)
R8137	401 105 0405	MT-GLAZE 100 JA 1/16W	D8142	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)
R8138	401 105 0405	MT-GLAZE 100 JA 1/16W	MISCELLANEOUS		
R8142	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	K10A	645 054 3449	SOCKET,D-SUB 15P
R8144	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	K10B	645 054 0226	SOCKET,DVI 29P
R8181	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	K10C	645 054 3449	SOCKET,D-SUB 15P
R8182	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC8101	645 045 7449	SURGE-ABSORBER
R8191	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC8102	645 045 7449	SURGE-ABSORBER
R8192	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC8103	645 045 7449	SURGE-ABSORBER
R8193	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC8104	645 045 7449	SURGE-ABSORBER
R8194	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC8106	645 045 7449	SURGE-ABSORBER
R8196	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC8107	645 045 7449	SURGE-ABSORBER
R8197	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC8108	645 045 7449	SURGE-ABSORBER
R8198	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC8109	645 045 7449	SURGE-ABSORBER
R8199	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	SC8111	645 045 7449	SURGE-ABSORBER
COIL			SC8112	645 045 7449	SURGE-ABSORBER
L1001	645 044 8850	FILTER,EMI 400MHZ	SW7001	645 054 8574	SWITCH,PUSH 1P-1TX1
L1002	645 044 8850	FILTER,EMI 400MHZ	A/V BOARD		
L1003	645 044 8850	FILTER,EMI 400MHZ	△ 610 300 6444ASSY,PWB,A/V MC3A		
L1006	645 044 8843	FILTER,EMI 200MHZ	TRANSISTOR		
L1007	645 044 8843	FILTER,EMI 200MHZ	Q2031	405 134 5905	TR 2SA1037AK-T146-R
L1031	645 044 8850	FILTER,EMI 400MHZ		405 147 2205	TR 2SA1037AK-S-T146
L1032	645 044 8850	FILTER,EMI 400MHZ		405 002 0308	TR 2SA1037K T146 R
L1033	645 044 8850	FILTER,EMI 400MHZ		405 002 0407	TR 2SA1037K T146 S
L1036	645 044 8843	FILTER,EMI 200MHZ		405 002 6706	TR 2SA1179-M6-TB
L1037	645 044 8843	FILTER,EMI 200MHZ		405 002 6904	TR 2SA1179-M7-TB
L3031	645 001 4512	INDUCTOR,10U K		405 163 1503	TR 2SA1179N-M6-TB
L8131	645 044 8850	FILTER,EMI 400MHZ		405 163 2708	TR 2SA1179N-M7-TB
L8132	645 044 8850	FILTER,EMI 400MHZ	Q2041	405 134 5905	TR 2SA1037AK-T146-R
L8133	645 044 8850	FILTER,EMI 400MHZ			
L8141	645 044 8843	FILTER,EMI 200MHZ			
L8142	645 044 8843	FILTER,EMI 200MHZ			
DIODE					
D1001	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3)			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q2051	405 147 2205	TR 2SA1037AK-S-T146	Q5062	405 163 1602	TR 2SC2812N-L6-TB0
	405 002 0308	TR 2SA1037K T146 R		405 163 1701	TR 2SC2812N-L7-TB0
	405 002 0407	TR 2SA1037K T146 S		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
	405 134 5905	TR 2SA1037AK-T146-R		405 163 1701	TR 2SC2812N-L7-TB0
	405 147 2205	TR 2SA1037AK-S-T146	INTEGRATED CIRCUIT		
	405 002 0308	TR 2SA1037K T146 R	IC2091	409 395 5902	IC TC7SH00FU--(TE85L)
Q2061	405 002 0407	TR 2SA1037K T146 S	IC3801	409 395 5902	IC TC7SH00FU--(TE85L)
	405 002 6706	TR 2SA1179-M6-TB	IC3806	409 380 6303	IC HIN232CB
	405 002 6904	TR 2SA1179-M7-TB	IC3851	410 457 0100	IC TWM7000-210010
	405 163 1503	TR 2SA1179N-M6-TB	IC3852	410 466 3109	IC TWM7000-170010
	405 163 2708	TR 2SA1179N-M7-TB		410 457 7109	IC UPD78F9801GB-8ES-MC3A
	405 014 4509	TR 2SC2412K T146 R	IC5001	409 051 2702	IC TC4052BF(EL)
	405 014 4608	TR 2SC2412K T146 S	CAPACITOR		
	405 015 8704	TR 2SC2812-L6-TB	C1041	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8902	TR 2SC2812-L7-TB	C1051	403 157 3601	CERAMIC 100P J 50V
	405 163 1602	TR 2SC2812N-L6-TB0	C1052	403 157 3601	CERAMIC 100P J 50V
Q2071	405 163 1701	TR 2SC2812N-L7-TB0	C1053	403 157 3601	CERAMIC 100P J 50V
	405 014 4509	TR 2SC2412K T146 R	C1054	403 157 3601	CERAMIC 100P J 50V
	405 014 4608	TR 2SC2412K T146 S	C1061	403 157 3601	CERAMIC 100P J 50V
	405 015 8704	TR 2SC2812-L6-TB	C1062	403 157 3601	CERAMIC 100P J 50V
	405 015 8902	TR 2SC2812-L7-TB	C1063	403 157 3601	CERAMIC 100P J 50V
	405 163 1602	TR 2SC2812N-L6-TB0	C1064	403 157 3601	CERAMIC 100P J 50V
	405 163 1701	TR 2SC2812N-L7-TB0	C1071	403 283 6309	CERAMIC 1U Z 10V
	405 014 4509	TR 2SC2412K T146 R	C1072	403 304 3300	ELECT 47U M 16V
	405 014 4608	TR 2SC2412K T146 S	C1073	403 157 4202	CERAMIC 220P J 50V
	405 015 8704	TR 2SC2812-L6-TB	C2013	403 149 9208	CERAMIC 0.01U Z 50V
Q2081	405 015 8902	TR 2SC2812-L7-TB	C2031	403 321 2607	ELECT 10U M 16V
	405 163 1602	TR 2SC2812N-L6-TB0	C2032	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1701	TR 2SC2812N-L7-TB0	C2033	403 304 3300	ELECT 47U M 16V
	405 014 4509	TR 2SC2412K T146 R	C2041	403 321 2607	ELECT 10U M 16V
	405 014 4608	TR 2SC2412K T146 S	C2042	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8704	TR 2SC2812-L6-TB	C2051	403 321 2607	ELECT 10U M 16V
	405 015 8902	TR 2SC2812-L7-TB	C2052	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1602	TR 2SC2812N-L6-TB0	C2061	403 321 2607	ELECT 10U M 16V
	405 163 1701	TR 2SC2812N-L7-TB0	C2062	403 164 0204	CERAMIC 0.1U Z 25V
	405 014 4509	TR 2SC2412K T146 R	C2071	403 164 0204	CERAMIC 0.1U Z 25V
Q3866	405 014 4608	TR 2SC2412K T146 S	C2072	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8704	TR 2SC2812-L6-TB	C2081	403 321 2607	ELECT 10U M 16V
	405 015 8902	TR 2SC2812-L7-TB	C2082	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1602	TR 2SC2812N-L6-TB0	C2091	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1701	TR 2SC2812N-L7-TB0	C2096	403 229 3508	ELECT 100U M 16V
	405 014 4509	TR 2SC2412K T146 R	C2097	403 322 7809	ELECT 220U M 6.3V
	405 014 4608	TR 2SC2412K T146 S	C3801	403 283 6309	CERAMIC 1U Z 10V
	405 015 8704	TR 2SC2812-L6-TB	C3802	403 162 6208	ELECT 1U M 50V
	405 015 8902	TR 2SC2812-L7-TB	C3808	403 162 6208	ELECT 1U M 50V
	405 163 1602	TR 2SC2812N-L6-TB0	C3809	403 162 6208	ELECT 1U M 50V
Q5001	405 163 1701	TR 2SC2812N-L7-TB0	C3811	403 162 6208	ELECT 1U M 50V
	405 014 4509	TR 2SC2412K T146 R	C3812	403 162 6208	ELECT 1U M 50V
	405 014 4608	TR 2SC2412K T146 S	C3813	403 283 6309	CERAMIC 1U Z 10V
	405 015 8704	TR 2SC2812-L6-TB	C3851	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8902	TR 2SC2812-L7-TB	C3852	403 164 0204	CERAMIC 0.1U Z 25V
	405 163 1602	TR 2SC2812N-L6-TB0	C3853	403 304 3102	ELECT 22U M 16V
	405 163 1701	TR 2SC2812N-L7-TB0	C3854	403 164 0204	CERAMIC 0.1U Z 25V
	405 014 4509	TR 2SC2412K T146 R	C5001	403 323 8805	CERAMIC 2.2U Z 16V
	405 014 4608	TR 2SC2412K T146 S	C5002	403 323 8805	CERAMIC 2.2U Z 16V
	405 015 8704	TR 2SC2812-L6-TB	C5003	403 323 8805	CERAMIC 2.2U Z 16V
Q5002	405 015 8902	TR 2SC2812-L7-TB	C5004	403 321 2607	ELECT 10U M 16V
	405 163 1602	TR 2SC2812N-L6-TB0	C5006	403 323 8805	CERAMIC 2.2U Z 16V
	405 163 1701	TR 2SC2812N-L7-TB0	C5007	403 323 8805	CERAMIC 2.2U Z 16V
	405 014 4509	TR 2SC2412K T146 R	C5008	403 323 8805	CERAMIC 2.2U Z 16V
	405 014 4608	TR 2SC2412K T146 S	C5009	403 323 1301	CERAMIC 0.47U Z 10V
	405 015 8704	TR 2SC2812-L6-TB	C5011	403 164 0204	CERAMIC 0.1U Z 25V
	405 015 8902	TR 2SC2812-L7-TB			
	405 163 1602	TR 2SC2812N-L6-TB0			
	405 163 1701	TR 2SC2812N-L7-TB0			
	405 014 4509	TR 2SC2412K T146 R			
Q5051	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			
	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			
Q5052	405 163 1701	TR 2SC2812N-L7-TB0			
	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			
	405 014 4509	TR 2SC2412K T146 R			
	405 014 4608	TR 2SC2412K T146 S			
	405 015 8704	TR 2SC2812-L6-TB			
Q5061	405 015 8902	TR 2SC2812-L7-TB			
	405 163 1602	TR 2SC2812N-L6-TB0			
	405 163 1701	TR 2SC2812N-L7-TB0			
	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			
	405 014 4509	TR 2SC2412K T146 R			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C5012	403 164 0204	CERAMIC 0.1U Z 25V	R2053	401 105 0504	MT-GLAZE 1K JA 1/16W
C5013	403 304 3102	ELECT 22U M 16V	R2054	401 105 0504	MT-GLAZE 1K JA 1/16W
C5051	403 162 4709	ELECT 10U M 16V	R2056	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C5052	403 164 0204	CERAMIC 0.1U Z 25V	R2057	401 105 4601	MT-GLAZE 3.9K JA 1/16W
C5061	403 162 4709	ELECT 10U M 16V	R2061	401 105 5400	MT-GLAZE 47K JA 1/16W
C5062	403 164 0204	CERAMIC 0.1U Z 25V	R2062	401 105 5400	MT-GLAZE 47K JA 1/16W
RESISTOR			R2063	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB5001	645 021 0365	R-NETWORK 100KX4 0.063W	R2064	401 105 0504	MT-GLAZE 1K JA 1/16W
	645 025 5397	R-NETWORK 100KX4 1/16W	R2066	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB5002	645 021 0365	R-NETWORK 100KX4 0.063W	R2071	401 105 5400	MT-GLAZE 47K JA 1/16W
	645 025 5397	R-NETWORK 100KX4 1/16W	R2072	401 105 5400	MT-GLAZE 47K JA 1/16W
RC1001	645 034 8501	UNIT, REMOCON RECEIVER	R2073	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1041	401 105 0405	MT-GLAZE 100 JA 1/16W	R2074	401 105 0504	MT-GLAZE 1K JA 1/16W
R1042	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2076	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1051	401 105 5509	MT-GLAZE 470K JA 1/16W	R2081	401 105 5400	MT-GLAZE 47K JA 1/16W
R1052	401 105 5509	MT-GLAZE 470K JA 1/16W	R2082	401 105 5400	MT-GLAZE 47K JA 1/16W
R1053	401 105 5509	MT-GLAZE 470K JA 1/16W	R2083	401 105 0504	MT-GLAZE 1K JA 1/16W
R1054	401 105 5509	MT-GLAZE 470K JA 1/16W	R2084	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1056	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2086	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1057	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2091	401 105 0405	MT-GLAZE 100 JA 1/16W
R1058	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2092	401 105 0405	MT-GLAZE 100 JA 1/16W
R1059	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2093	401 105 0603	MT-GLAZE 10K JA 1/16W
R1060	401 276 4707	MT-GLAZE 0.000 ZA 1/3W	R2094	401 105 0603	MT-GLAZE 10K JA 1/16W
R1061	401 105 0702	MT-GLAZE 100K JA 1/16W	R2099	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1062	401 105 0405	MT-GLAZE 100 JA 1/16W	R3801	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1063	401 105 0702	MT-GLAZE 100K JA 1/16W	R3802	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1064	401 105 0405	MT-GLAZE 100 JA 1/16W	R3803	401 105 0603	MT-GLAZE 10K JA 1/16W
R1065	401 276 4707	MT-GLAZE 0.000 ZA 1/3W	R3804	401 105 0504	MT-GLAZE 1K JA 1/16W
R1067	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3821	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1068	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3822	401 105 0405	MT-GLAZE 100 JA 1/16W
R1071	401 105 0405	MT-GLAZE 100 JA 1/16W	R3823	401 105 0405	MT-GLAZE 100 JA 1/16W
R1072	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3824	401 105 0405	MT-GLAZE 100 JA 1/16W
R1073	401 105 0405	MT-GLAZE 100 JA 1/16W	R3848	401 105 0405	MT-GLAZE 100 JA 1/16W
R1091	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3849	401 105 0603	MT-GLAZE 10K JA 1/16W
R1092	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3851	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2001	401 260 4102	MT-GLAZE 75 JA 1/3W	R3852	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2002	401 260 4102	MT-GLAZE 75 JA 1/3W	R3853	401 105 2904	MT-GLAZE 22K JA 1/16W
R2003	401 260 4102	MT-GLAZE 75 JA 1/3W	R3854	401 105 2904	MT-GLAZE 22K JA 1/16W
R2006	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3855	401 105 2904	MT-GLAZE 22K JA 1/16W
R2007	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3856	401 105 0603	MT-GLAZE 10K JA 1/16W
R2008	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3857	401 105 0603	MT-GLAZE 10K JA 1/16W
R2011	401 260 4102	MT-GLAZE 75 JA 1/3W	R3858	401 105 0603	MT-GLAZE 10K JA 1/16W
R2012	401 260 4102	MT-GLAZE 75 JA 1/3W	R3859	401 105 0603	MT-GLAZE 10K JA 1/16W
R2013	401 105 0405	MT-GLAZE 100 JA 1/16W	R3861	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2014	401 105 0603	MT-GLAZE 10K JA 1/16W	R3862	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2017	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3863	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2018	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3864	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2019	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3866	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2021	401 260 4102	MT-GLAZE 75 JA 1/3W	R3867	401 105 5400	MT-GLAZE 47K JA 1/16W
R2022	401 105 5509	MT-GLAZE 470K JA 1/16W	R3868	401 105 0603	MT-GLAZE 10K JA 1/16W
R2023	401 105 5509	MT-GLAZE 470K JA 1/16W	R3871	401 105 2904	MT-GLAZE 22K JA 1/16W
R2024	401 105 0405	MT-GLAZE 100 JA 1/16W	R3872	401 105 2904	MT-GLAZE 22K JA 1/16W
R2026	401 105 0405	MT-GLAZE 100 JA 1/16W	R3873	401 105 2904	MT-GLAZE 22K JA 1/16W
R2027	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3874	401 105 2904	MT-GLAZE 22K JA 1/16W
R2031	401 105 5400	MT-GLAZE 47K JA 1/16W	R3876	401 105 0405	MT-GLAZE 100 JA 1/16W
R2032	401 105 2904	MT-GLAZE 22K JA 1/16W	R3877	401 105 0405	MT-GLAZE 100 JA 1/16W
R2033	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3878	401 105 0405	MT-GLAZE 100 JA 1/16W
R2034	401 105 0504	MT-GLAZE 1K JA 1/16W	R3879	401 105 0405	MT-GLAZE 100 JA 1/16W
R2036	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3882	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2041	401 105 5400	MT-GLAZE 47K JA 1/16W	R3886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2042	401 105 2904	MT-GLAZE 22K JA 1/16W	R3887	401 105 0603	MT-GLAZE 10K JA 1/16W
R2043	401 105 0504	MT-GLAZE 1K JA 1/16W	R3888	401 105 0603	MT-GLAZE 10K JA 1/16W
R2044	401 105 0504	MT-GLAZE 1K JA 1/16W	R3889	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2046	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5001	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2047	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R5002	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2051	401 105 5400	MT-GLAZE 47K JA 1/16W	R5003	401 105 0405	MT-GLAZE 100 JA 1/16W
R2052	401 105 2904	MT-GLAZE 22K JA 1/16W	R5004	401 105 0405	MT-GLAZE 100 JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R5006	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D2003	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
R5007	401 105 0603	MT-GLAZE 10K JA 1/16W	D2004	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
R5008	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D2006	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
R5009	401 105 0603	MT-GLAZE 10K JA 1/16W	D2007	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
R5051	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D2011	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
R5052	401 105 2805	MT-GLAZE 2.2K JA 1/16W	D2012	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
R5053	401 105 2805	MT-GLAZE 2.2K JA 1/16W	D2013	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
R5054	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D2014	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
R5061	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D2016	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)
R5062	401 105 2805	MT-GLAZE 2.2K JA 1/16W	D2021	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
R5063	401 105 2805	MT-GLAZE 2.2K JA 1/16W	D2022	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
R5064	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D2023	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
R5066	401 105 5202	MT-GLAZE 470 JA 1/16W	D2024	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
COIL			D2026	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
L1051	645 045 6183	FILTER,EMI 25MHZ	D2027	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3
L1052	645 045 6183	FILTER,EMI 25MHZ	D3823	407 149 0807	DIODE 1SS355-TE-17
L1053	645 045 6183	FILTER,EMI 25MHZ	D3824	407 149 0807	DIODE 1SS355-TE-17
L1054	645 045 6183	FILTER,EMI 25MHZ	D3881	407 149 0807	DIODE 1SS355-TE-17
L1061	645 045 6183	FILTER,EMI 25MHZ	D5001	407 223 0600	ZENER DIODE 02DZ15Y (TPH3)
L1064	645 045 6183	FILTER,EMI 25MHZ	D5002	407 223 0600	ZENER DIODE 02DZ15Y (TPH3)
L1081	645 045 6183	FILTER,EMI 25MHZ	D5003	407 223 0600	ZENER DIODE 02DZ15Y (TPH3)
L1082	645 045 6183	FILTER,EMI 25MHZ	D5004	407 223 0600	ZENER DIODE 02DZ15Y (TPH3)
L1083	645 045 6183	FILTER,EMI 25MHZ	D5006	407 223 0600	ZENER DIODE 02DZ15Y (TPH3)
L1084	645 045 6183	FILTER,EMI 25MHZ	D5007	407 223 0600	ZENER DIODE 02DZ15Y (TPH3)
L1086	645 045 6183	FILTER,EMI 25MHZ	D5008	407 223 0600	ZENER DIODE 02DZ15Y (TPH3)
L1087	645 045 6183	FILTER,EMI 25MHZ	D5051	407 149 0807	DIODE 1SS355-TE-17
L1088	645 045 6183	FILTER,EMI 25MHZ	D5061	407 149 0807	DIODE 1SS355-TE-17
L2006	645 044 8836	FILTER,EMI 100MHZ	MISCELLANEOUS		
L2007	645 044 8836	FILTER,EMI 100MHZ	K10D	645 000 2571	JACK, PHONE D8.0
L2008	645 044 8836	FILTER,EMI 100MHZ	K10E	645 000 2571	JACK, PHONE D8.0
L2013	645 044 8836	FILTER,EMI 100MHZ	K10F	645 048 6739	SOCKET, DIN 8P
L2014	645 044 8836	FILTER,EMI 100MHZ	K10G	645 028 0382	SOCKET, USB 4P
L2016	645 044 8836	FILTER,EMI 100MHZ	K10H	645 017 1680	JACK, PHONE D3.6
L2022	645 044 8836	FILTER,EMI 100MHZ	K20A	645 039 2269	JACK, RCA-3
L2023	645 045 6183	FILTER,EMI 25MHZ	K20B	610 010 8295	SOCKET, DIN 4P
L2024	645 045 6183	FILTER,EMI 25MHZ	K20C	645 038 4462	JACK, RCA-3
L2031	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	SW1001	645 054 8574	SWITCH, PUSH 1P-1TX1
L5011	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	X3851	645 053 3877	OSC, CERAMIC 5.00MHZ
DIODE			X3852	645 053 9114	OSC, CERAMIC 6.000MHZ
D1051	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3	R/C BOARD		
D1052	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3	△ 610 300 6451 ASSY,PWB,R/C FRONT MC3A		
D1053	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3	CAPACITOR		
D1054	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3	C2801	403 283 6309	CERAMIC 1U Z 10V
D1056	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3	C2802	403 157 6206	CERAMIC 220P K 50V
D1057	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3	C2803	403 304 2402	ELECT 100U M 10V
D1058	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3	RESISTOR		
D1059	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3	RC2801	645 034 8501	UNIT, REMOCON RECEIVER
D1061	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)	R2801	401 105 0405	MT-GLAZE 100 JA 1/16W
D1062	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)	R2802	401 105 0405	MT-GLAZE 100 JA 1/16W
D1068	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)	R2803	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
D1069	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)	CONTROL BOARD		
D1081	407 223 0709	ZENER DIODE 02DZ20Y (TPH3)	△ 610 302 5902 ASSY,PWB,CONTROL MC3A		
D1082	407 223 0709	ZENER DIODE 02DZ20Y (TPH3)	CAPACITOR		
D1083	407 223 0709	ZENER DIODE 02DZ20Y (TPH3)	C6801	403 164 0204	CERAMIC 0.1U Z 25V
D1084	407 223 0709	ZENER DIODE 02DZ20Y (TPH3)	C6802	403 164 0204	CERAMIC 0.1U Z 25V
D1085	407 223 0709	ZENER DIODE 02DZ20Y (TPH3)			
D1086	407 223 0709	ZENER DIODE 02DZ20Y (TPH3)			
D1087	407 223 0709	ZENER DIODE 02DZ20Y (TPH3)			
D1088	407 223 0709	ZENER DIODE 02DZ20Y (TPH3)			
D1089	407 223 0709	ZENER DIODE 02DZ20Y (TPH3)			
D1091	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)			
D1092	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)			
D1093	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)			
D1094	407 223 0501	ZENER DIODE 02DZ12Y (TPH3)			
D2001	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3			
D2002	407 223 1102	ZENER DIODE 02DZ6.2Y (TPH3			

Electrical Parts List

Key No. Part No. Description							Key No. Part No. Description						
C6803	403	164	0204	CERAMIC	0.1U	Z 25V	OWNER'S MANUAL (English) 610 301 9765 OWNER'S MANUAL-MC3A (Germany) 610 301 9772 OWNER'S MANUAL-MC3A-D (French) 610 301 9789 OWNER'S MANUAL-MC3A-F (Italian) 610 301 9796 OWNER'S MANUAL-MC3A-I (Spanish) 610 301 9802 OWNER'S MANUAL-MC3A-E						
C6804	403	164	0204	CERAMIC	0.1U	Z 25V							
RESISTOR							AC CORD ⚠ (US) 645 054 1162 CORD, POWER-3.0MK ⚠ (EU) 645 054 1155 CORD, POWER-3.0MK ⚠ (UK) 645 054 1148 CORD, POWER-3.138MK						
R6801	401	105	2904	MT-GLAZE	22K	JA 1/16W							
R6802	401	105	1600	MT-GLAZE	15K	JA 1/16W							
R6803	401	105	1600	MT-GLAZE	15K	JA 1/16W							
R6804	401	105	1501	MT-GLAZE	1.5K	JA 1/16W							
R6806	401	105	5202	MT-GLAZE	470	JA 1/16W							
R6807	401	105	1501	MT-GLAZE	1.5K	JA 1/16W							
R6808	401	105	5202	MT-GLAZE	470	JA 1/16W							
R6809	401	105	2904	MT-GLAZE	22K	JA 1/16W							
R6811	401	105	1600	MT-GLAZE	15K	JA 1/16W							
R6812	401	105	6001	MT-GLAZE	5.6K	JA 1/16W							
R6813	401	105	5301	MT-GLAZE	4.7K	JA 1/16W							
R6814	401	105	3307	MT-GLAZE	2.7K	JA 1/16W							
R6816	401	105	4106	MT-GLAZE	3.3K	JA 1/16W							
R6817	401	105	5202	MT-GLAZE	470	JA 1/16W							
R6851	401	105	7909	MT-GLAZE	0.000	ZA 1/16W							
R6852	401	105	7909	MT-GLAZE	0.000	ZA 1/16W							
R6853	401	105	7909	MT-GLAZE	0.000	ZA 1/16W							
R6854	401	105	7909	MT-GLAZE	0.000	ZA 1/16W							
R6857	401	105	8203	MT-GLAZE	68K	JA 1/16W							
R6858	401	105	0603	MT-GLAZE	10K	JA 1/16W							
DIODE													
D6801	407	223	0501	ZENER DIODE	02DZ12Y	(TPH3)							
D6802	407	223	0501	ZENER DIODE	02DZ12Y	(TPH3)							
D6803	407	223	0501	ZENER DIODE	02DZ12Y	(TPH3)							
D6804	407	223	0501	ZENER DIODE	02DZ12Y	(TPH3)							
D6856	407	209	7401	LED SML-210YT-K-T86									
	407	209	7500	LED SML-210YT T86	L								
D6857	407	203	7803	LED SML-210LT T86	M								
D6858	407	203	7902	LED SML-210MT T86	M								
D6859	407	203	7803	LED SML-210LT T86	M								
MISCELLANEOUS													
SW6801	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6802	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6803	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6804	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6806	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6807	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6808	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6809	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6811	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6812	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6813	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6814	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6816	645	026	2791	SWITCH, PUSH	1P-1TX1								
SW6817	645	026	2791	SWITCH, PUSH	1P-1TX1								
ACCESSORIES													
	645	054	3135	CABLE, MOUSE	SRAL								
	645	054	3142	CABLE, MOUSE	SRAL								
	645	039	7219	CABLE, MOUSE	SRAL								
	645	042	4496	CABLE, USB									
	645	038	6923	CABLE, USB									
	645	043	9704	ADAPTOR, DVI/VGA									
	645	030	6624	CABLE, INTERFACE	VGA								
	610	302	3106	COVER, DUST-MC3A									
RC UNIT													
	645	055	8597	ASSY, REMOCON	CXLZ								
	610	302	4196	RC-BATTERY	LID-CXLZ								

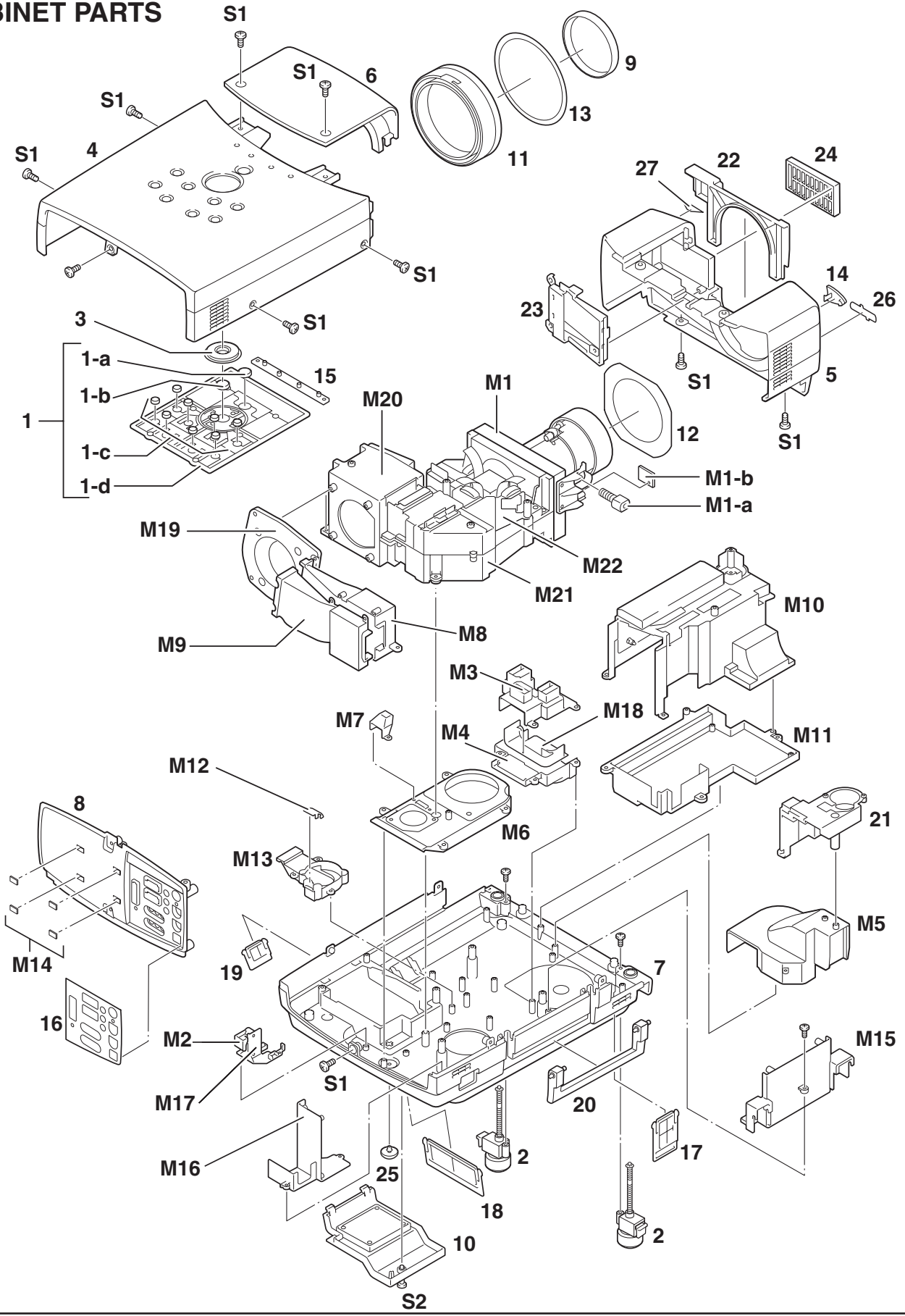
Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description

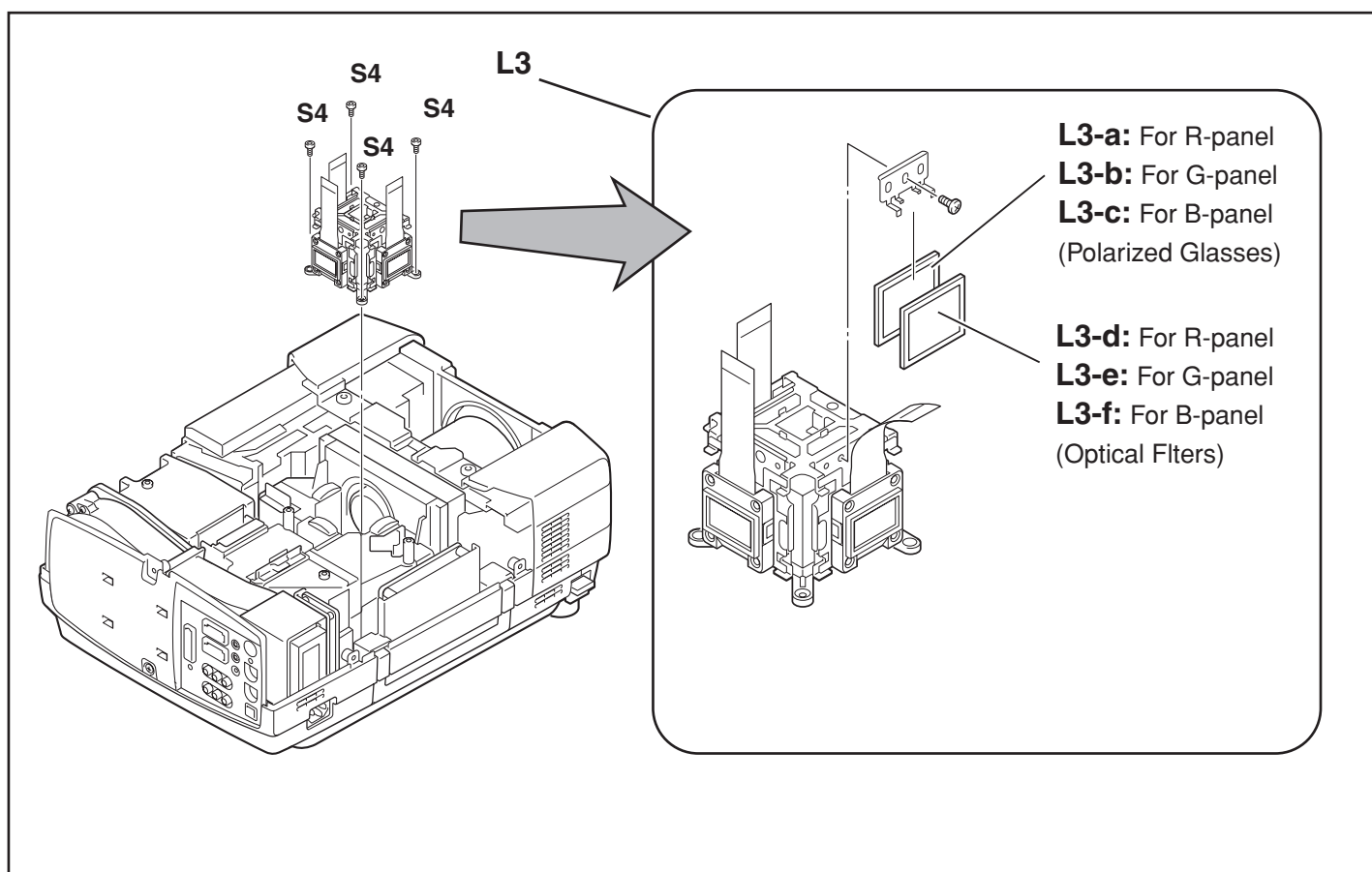
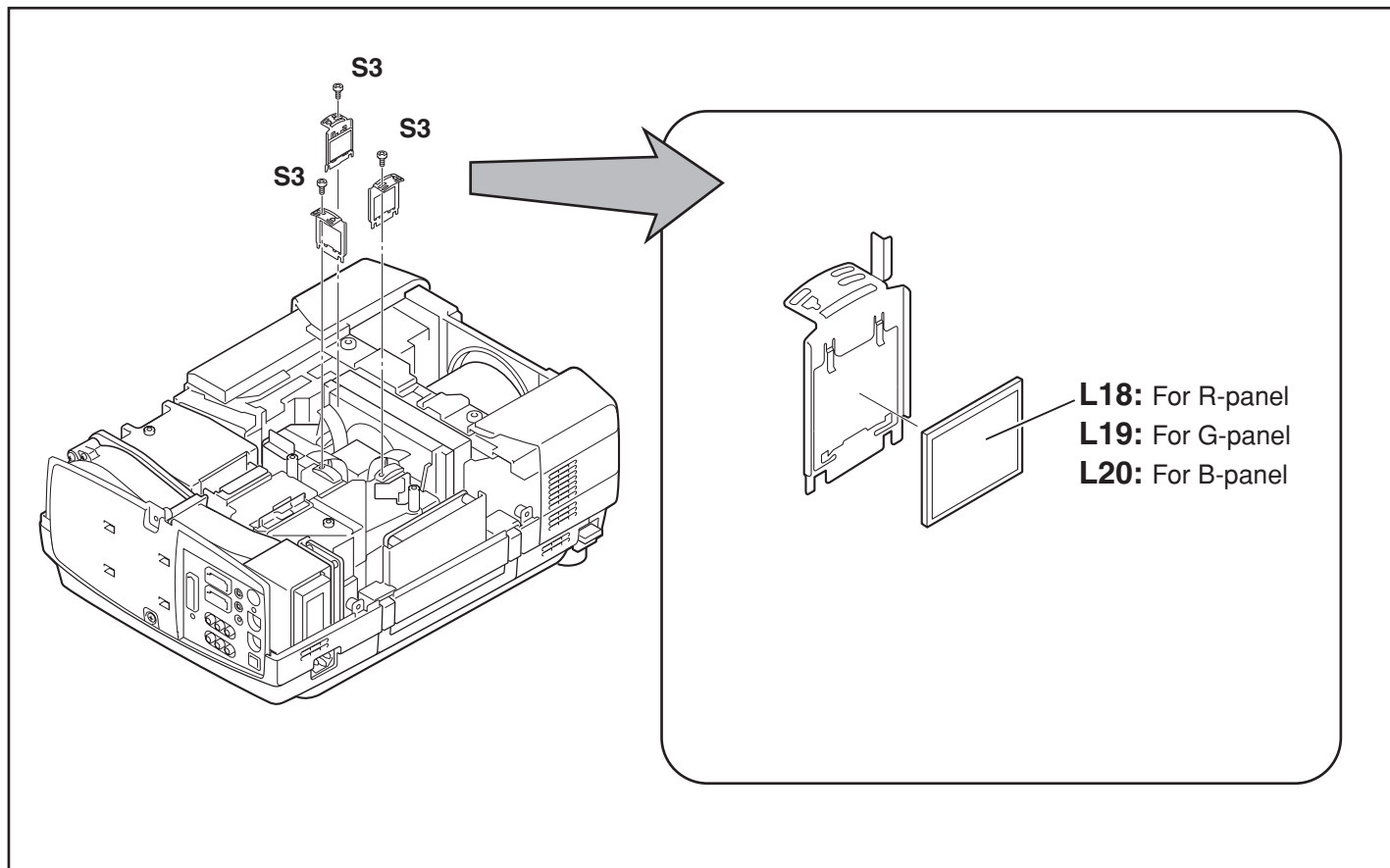
Mechanical Parts List

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

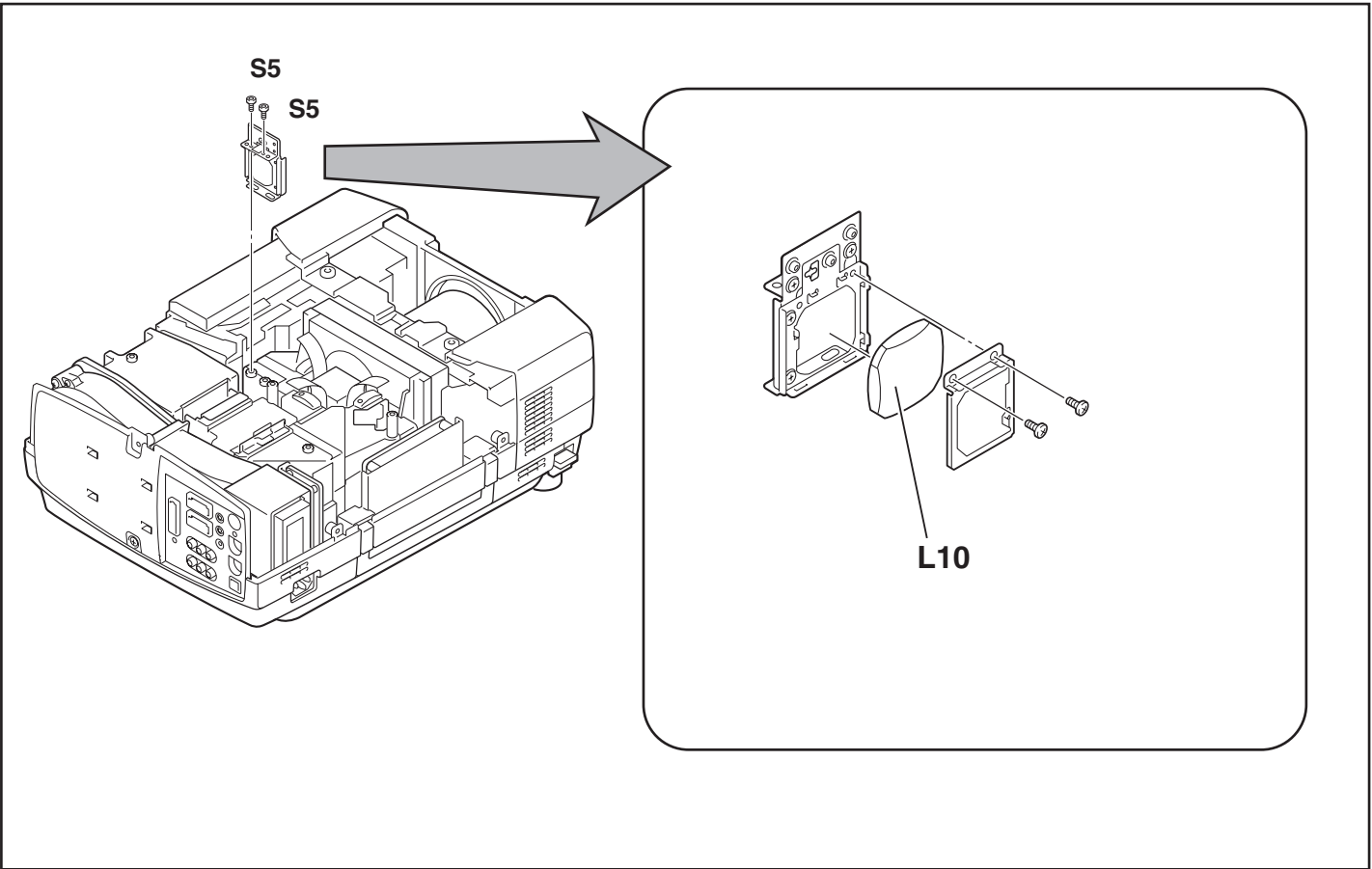
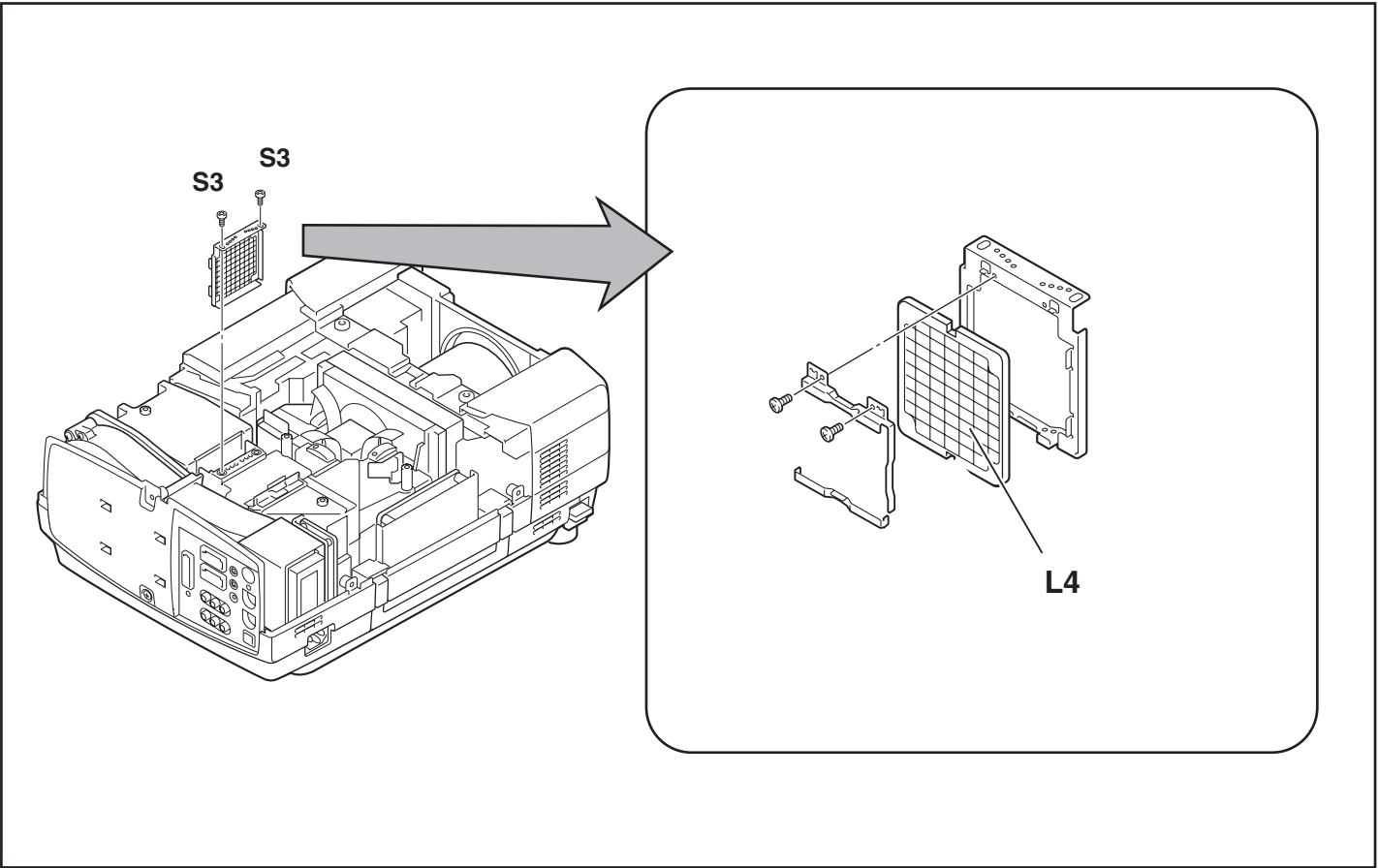
CABINET PARTS



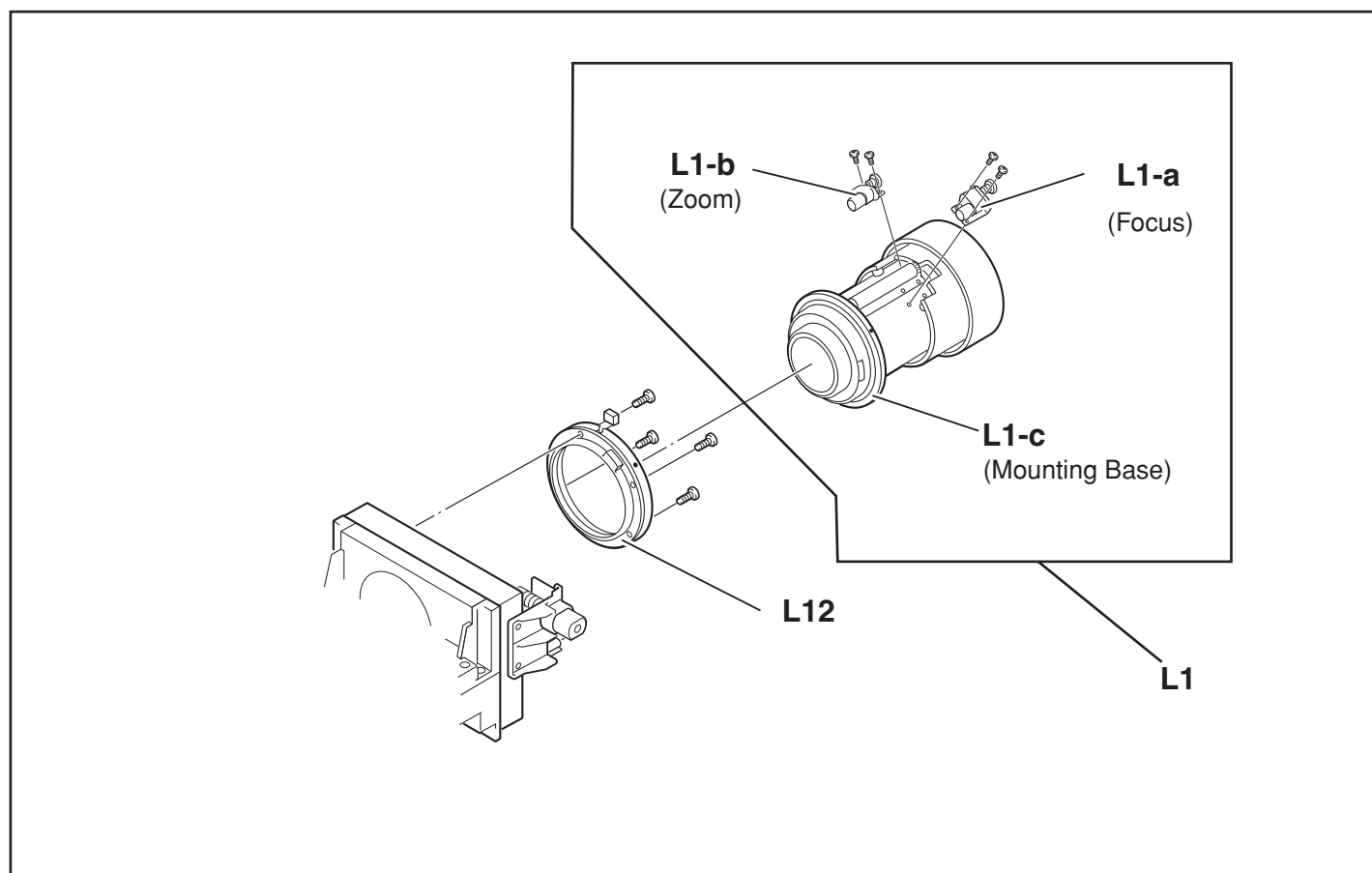
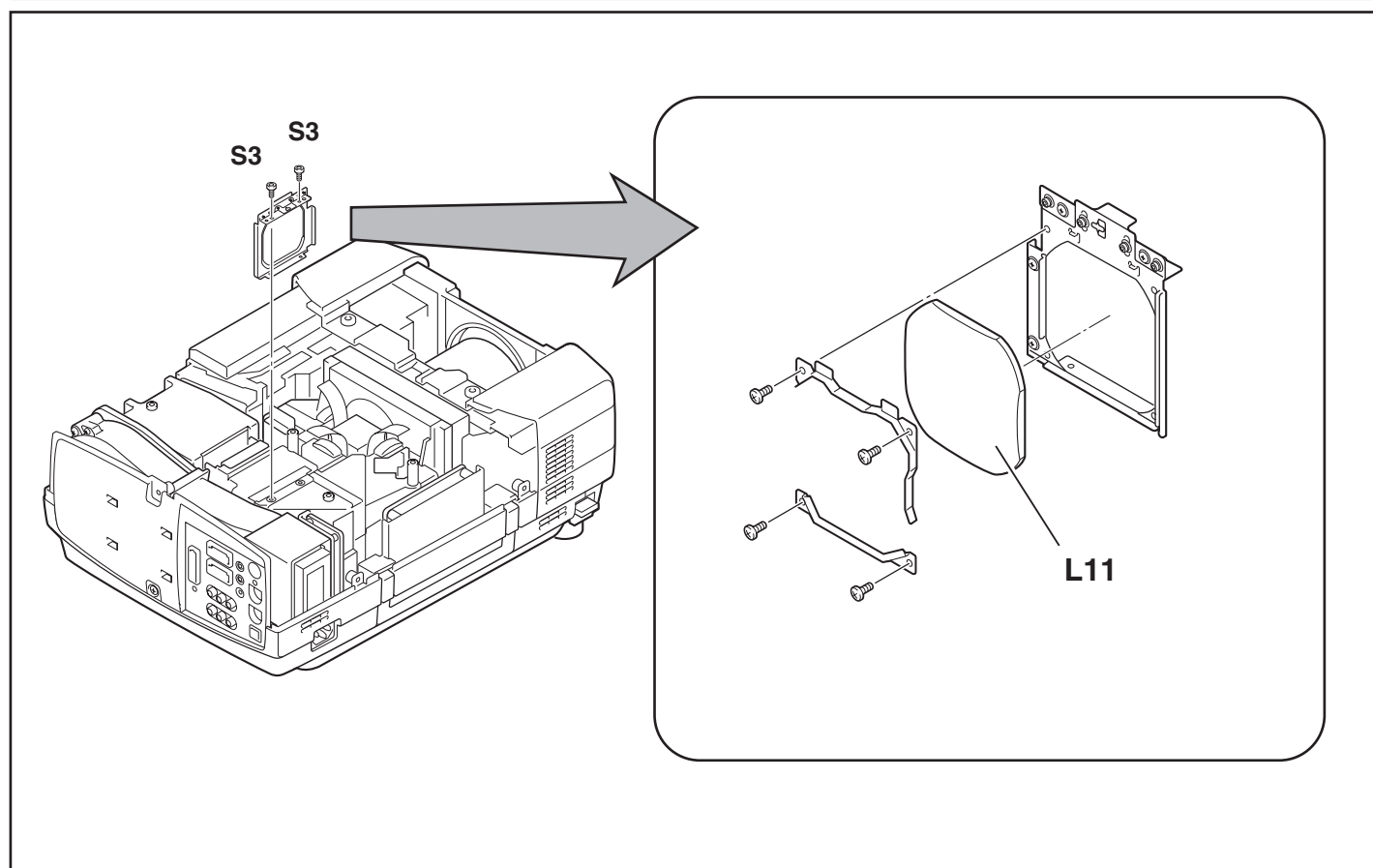
● OPTICAL PARTS



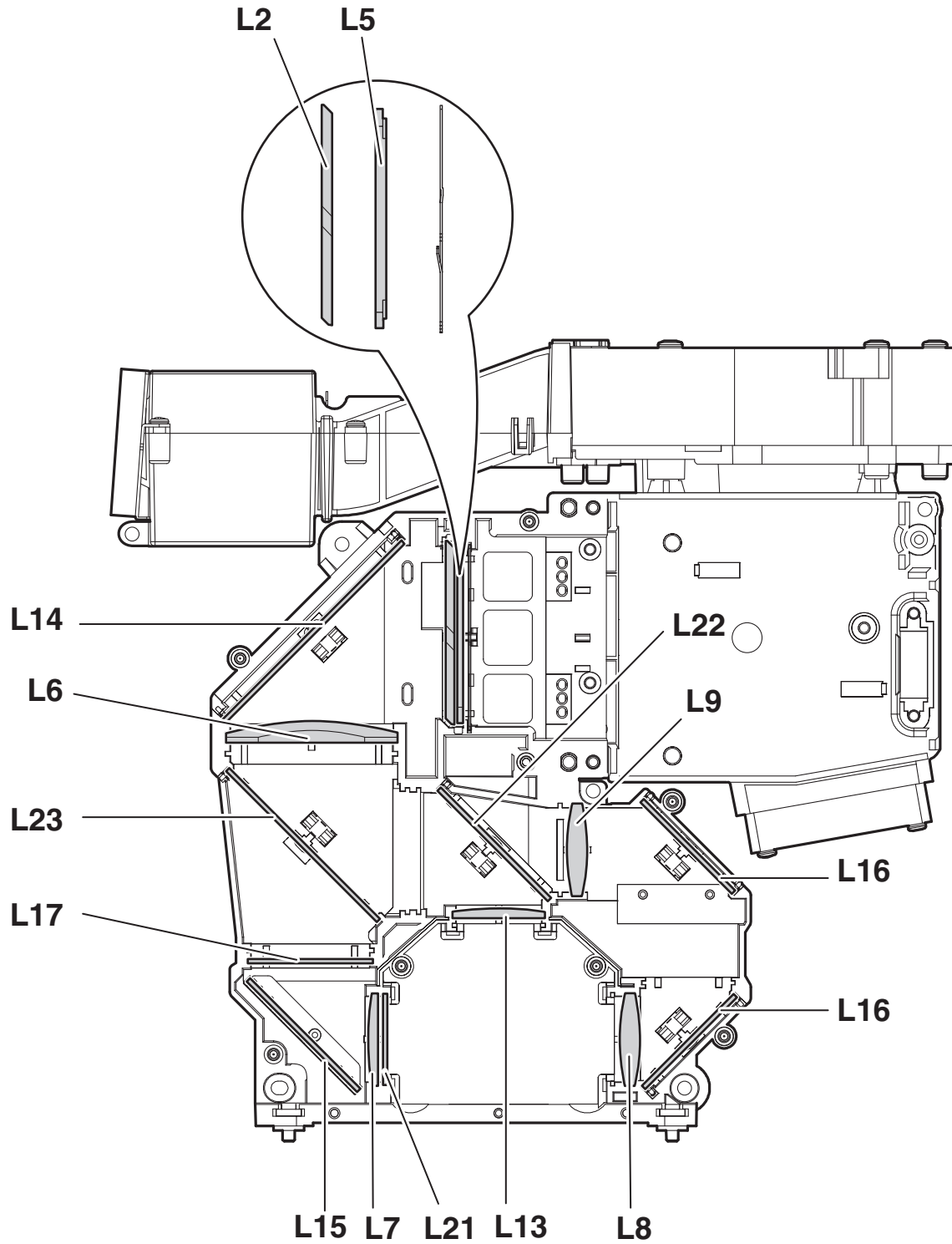
Mechanical Parts List



Mechanical Parts List



Mechanical Parts List

**CAUTION:**

Part must be placed in specified direction when replacing the optical parts. Please see "Optical Parts Disassemblies" for further instructions.

Mechanical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
CABINET PARTS			SCREWS		
1	610 303 3433	ASSY,BUTTON-MC3A (Including Key No. 1-a to 1-d)	S1	411 098 1402	SCR S-TPG BIN 4X10
1-a	610 302 5292	CAP BUTTON POWER-MC3A	S2	412 063 7900	SPECIAL SCREW(SILVER)
1-b	610 302 5308	CAP BUTTON SELECT-MC3A	S3	411 174 9308	BOLT HEX-SCT+SW+W 2.5X6
1-c	610 301 7204	CAP BUTTON CONTROL-MC3A	S4	411 174 9407	BOLT HEX-SCT 2.5X6
1-d	610 301 7181	BUTTON CONTROL-MC3A	S5	411 183 1003	BOLT HEX-SCT+SW 2.5X6
2	610 301 4937	ASSY,STAND LEG-MC3A	OPTICAL PARTS		
3	610 301 7198	BUTTON ZOOM-MC3A	L1	645 055 5312	ASSY,LENS,PROJECTION (Including Key No. L1-a to L1-c)
4	610 301 4944	CABINET TOP-MC3A	L1-a	645 057 8496	MOTOR,LENS (F-UNIT)
5	610 301 4951	CABINET FRONT-MC3A	L1-b	645 057 8502	MOTOR,LENS (Z-UNIT)
6	610 301 4968	CABINET FRONT A-MC3A	L1-c	645 055 5350	LENS,PROJECTION-LM
7	610 304 3678	CABINET BOTTOM SERVICE-MC	L2	645 055 1765	ASSY,PRISM(PBS)
8	610 301 4982	CABINET BACK-MC3A	L3	610 304 3708	ASSY,LCD PNL/PRISM-MD3A (Including Key No. L3-a to L3-f)
9	610 301 4999	CAP LNS-MC3A	L3-a	645 055 8276	POLARIZED GLASS (OUT/R)
10	610 301 5026	COVER LAMP MC3A	L3-b	645 055 8283	POLARIZED GLASS (OUT/G)
11	610 301 5033	COVER LENZ MC3A	L3-c	645 055 8290	POLARIZED GLASS (OUT/B)
12	610 301 5040	COVER LENZ SHEET-MC3A	L3-d	645 057 8847	OPTICAL FILTER (WV-SA)-2
13	610 301 5057	DEC LENZ RING-MC3A	L3-e	645 057 8854	OPTICAL FILTER (WV-PO)S
14	610 301 5064	DEC INLAY RC F-MC3A	L3-f	645 057 8861	OPTICAL FILTER (WV-PO)PP
15	610 302 4134	DEC LED-MC3A	L4	645 055 1529	LENS,INTEGRATOR (IN)
16	610 301 7273	DEC AV SHEET-MC3A	L5	645 055 1536	LENS,INTEGRATOR (OUT)
17	610 301 5088	FILTER BASE A-MC3A	L6	645 055 1673	LENS,CONDENSER (OUT)
18	610 301 5095	FILTER BASE B-MC3A	L7	645 055 1703	LENS,CONDENSER
19	610 301 7280	FILTER BASE LAMP-MC3A	L8	645 055 1710	LENS,CONDENSER (R)
20	610 301 5101	HANDLE-MC3A	L9	645 055 1727	LENS,RELAY (IN)
21	610 301 5187	MOUNTING SP-MC3A	L10	645 055 1734	LENS,RELAY (OUT)
22	610 301 5194	MOUNTING COVER LENZ-MC3A	L11	645 055 2069	LENS,CONDENSER (IN)
23	610 302 7401	MOUNTING DUCT FRONT-MC3A	L12	645 055 5367	LENS,PROJECTION-SM (BASE)
24	610 301 5514	PANEL FRONT FIN-MC3A	L13	645 055 5503	LENS,CONDENSER (G)
25	610 293 9972	SPACER LEG-MA8A	L14	645 055 5374	MIRROR (W-COLD)
26	645 047 8031	BADGE,SANYO*26.2X5.7L26.0	L15	645 055 5381	MIRROR (B)
27	610 289 1812	BADGE V MARK S-MK6A	L16	645 055 5398	MIRROR (R)
CHASSIS PARTS			L17	645 055 1796	OPTICAL FILTER (UV CUT431)
M1	610 301 4920	COMPL,HOLDER LENS-MC3A (Including Key No. M1-a and M1-b)	L18	645 055 8191	POLARIZED GLASS (IN/R)
M1-a	645 056 7292	ASSY,MOTOR (MC3A)	L19	645 055 8214	POLARIZED GLASS (IN/G)
M1-b	645 059 1327	UNIT,MOUNTING LNS BASE MC	L20	645 055 8221	POLARIZED GLASS (IN/B)
M2	610 301 7174	ARM INTERLOCK-MC3A	L21	645 057 7994	PRE-POLARIZED GLASS (IN/B)
M3	610 301 5002	COVER DUCT FAN TOP-MC3A	L22	645 055 5404	DICHROIC MIRROR (G)
M4	610 301 5019	COVER DUCT FAN BTM-MC3A	L23	645 055 5411	DICHROIC MIRROR (B)
M5	610 301 5354	COVER DUCT IN A-MC3A			
M6	610 301 5361	COVER DUCT IN B-MC3A			
M7	610 301 5378	COVER DUCT PBS-MC3A			
M8	610 301 6092	COVER DUCT EXT BTM-MC3A			
M9	610 301 6108	COVER DUCT EXT TOP-MC3A			
M10	610 301 7211	COVER POWER PWB TOP-MC3A			
M11	610 301 7228	COVER POWER PWB BTM-MC3A			
M12	610 301 7235	COVER DUCT LAMP TOP-MC3A			
M13	610 301 7242	COVER DUCT LAMP BTM-MC3A			
M14	610 295 9635	DEC BACK-MS6A			
M15	610 301 5125	HOLDER HANDLE-MC3A			
M16	610 301 7327	HOLDER AC-MC3A			
M17	610 301 7334	HOLDER INTERLOCK-MC3A			
M18	610 301 5170	MOUNTING DUCT-MC3A			
M19	610 301 6153	MOUNTING DUCT LAMP-MC3A			
M20	610 301 6276	OPTICAL LAMP-MC3A (BASE)			
M21	610 301 7556	OPTICAL BASE BTM-MC3A			
M22	610 301 7563	OPTICAL BASE TOP-MC3A			

Mechanical Parts List



Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
PLC-XT15	MC3-XT1500
PLC-XT10	MD3-XT1000

These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. MC3-XT1500 and MD3-XT1000, models PLC-XT15 and PLC-XT10. File with the service manual No. SM5110412.

Note:

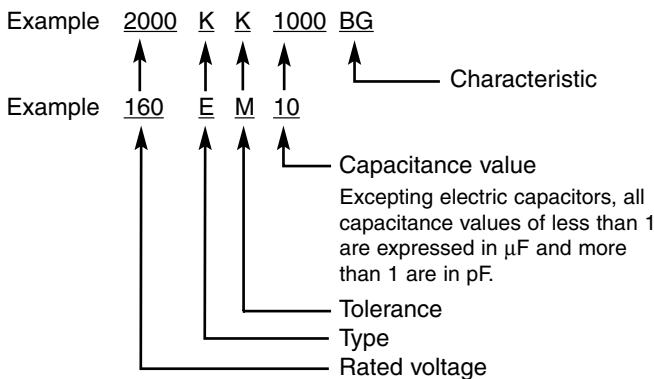
All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

MC3-XT1500, MD3-XT1000

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



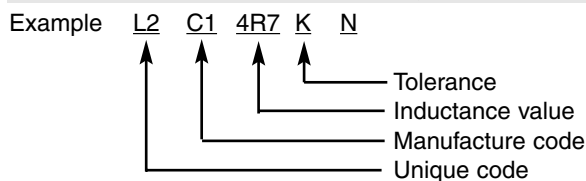
Material table

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

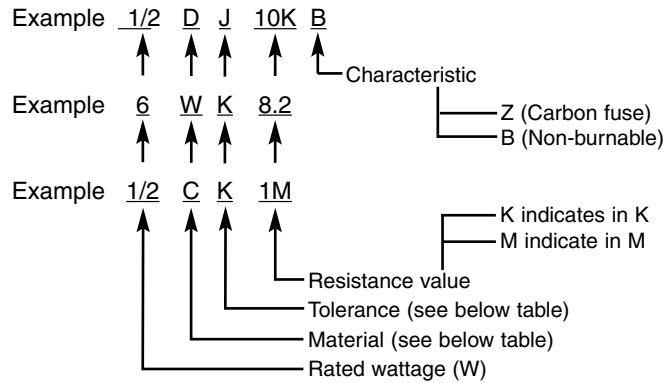
Mark	Tolerance
A	not specified
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
E	± 2.5
H	± 3
J	± 5
K	± 10
M	± 20
N	± 30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

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

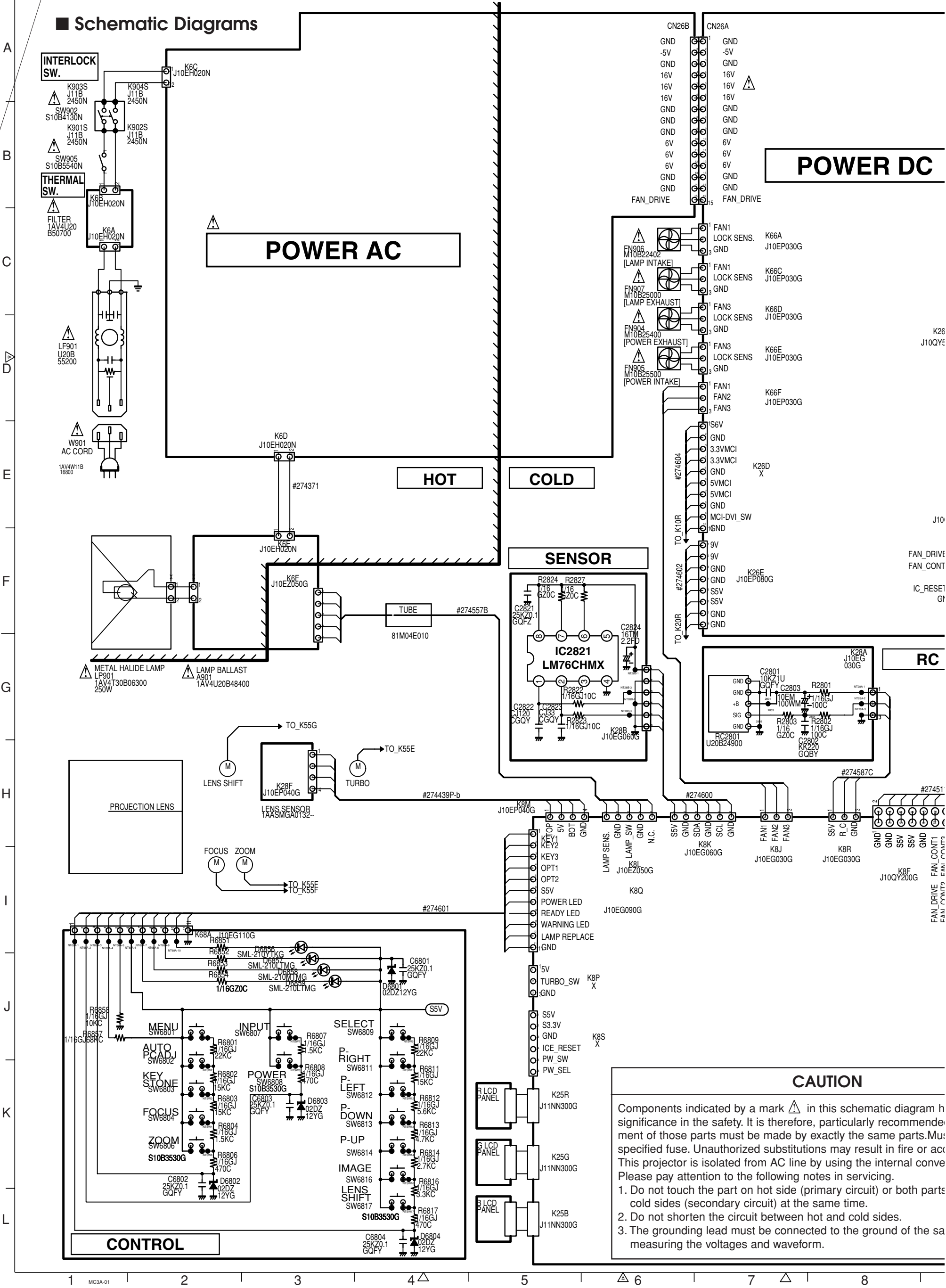
Mark	Type number
--	2SA608 2SA564A 2SA1015 2SA933S
AB	NF R Y, GR R
AC	NF Q, R O, Y, GR Q, R

(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 PLC-XT10 A3 [Left]

Schematic Diagrams



POWER DC

POWER AC

HOT

COLD

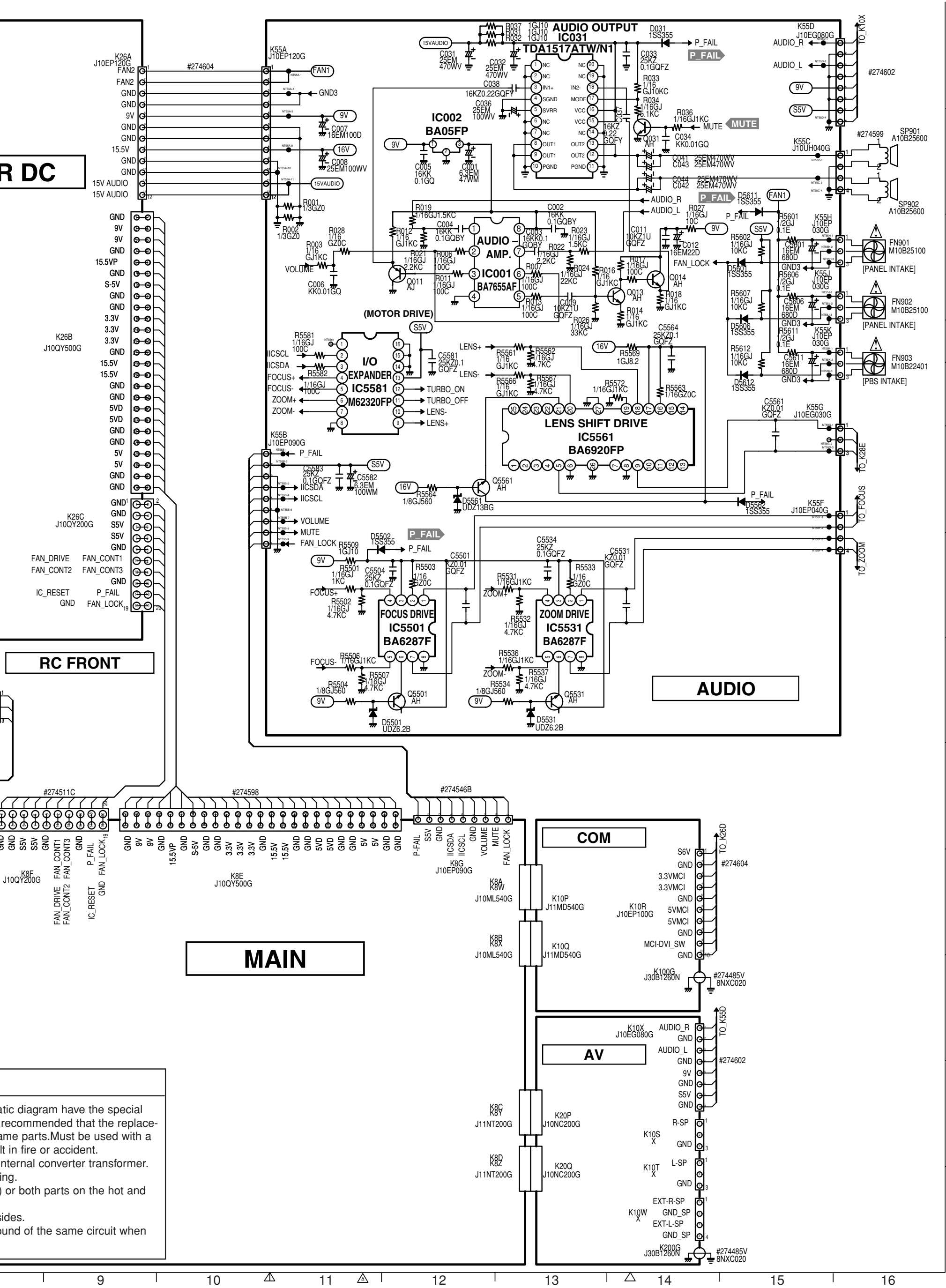
SENSOR

RC

CAUTION

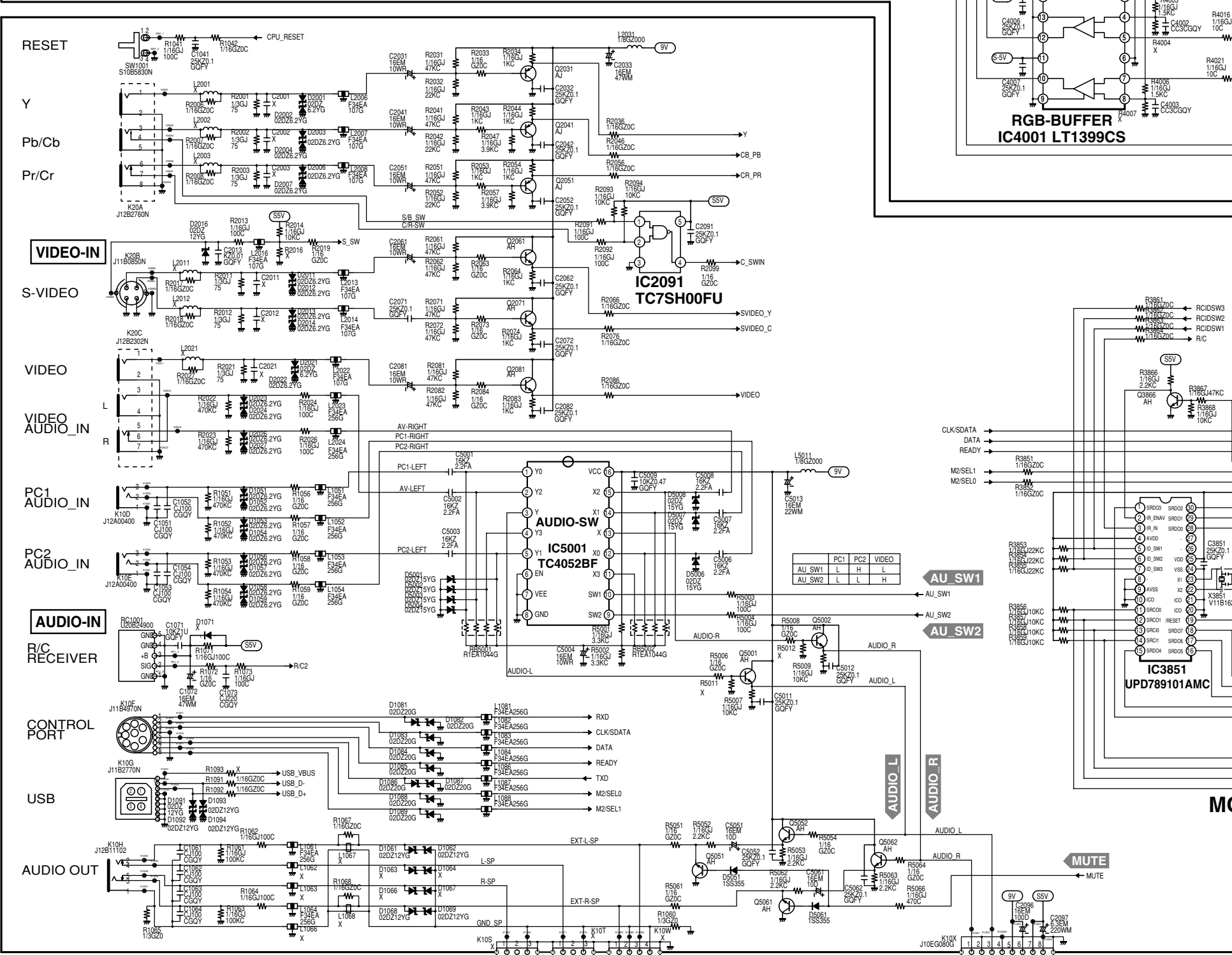
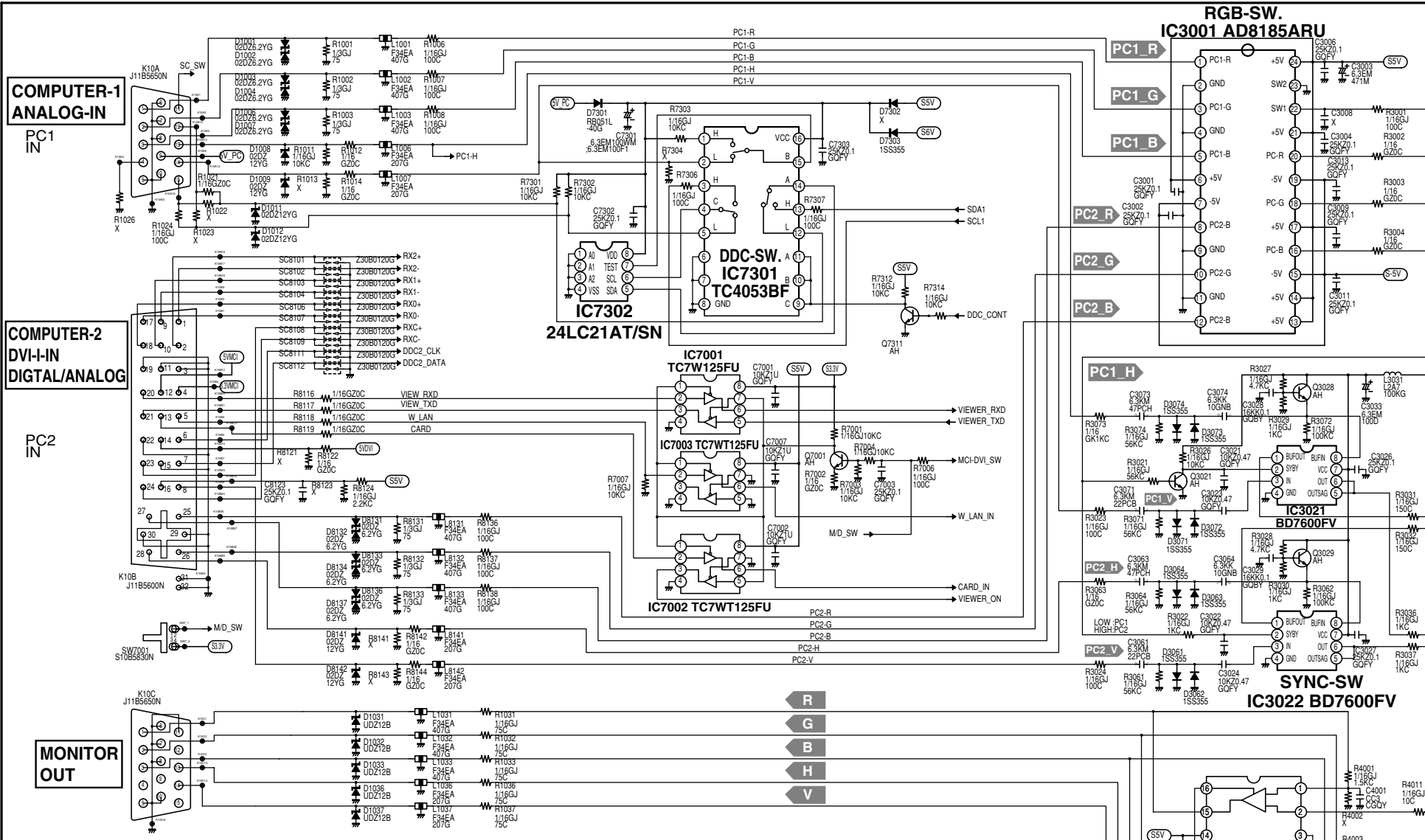
Components indicated by a mark  in this schematic diagram have significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts. Must be replaced with the same specified fuse. Unauthorized substitutions may result in fire or accident. This projector is isolated from AC line by using the internal conventional 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 safety earth when measuring the voltages and waveform.

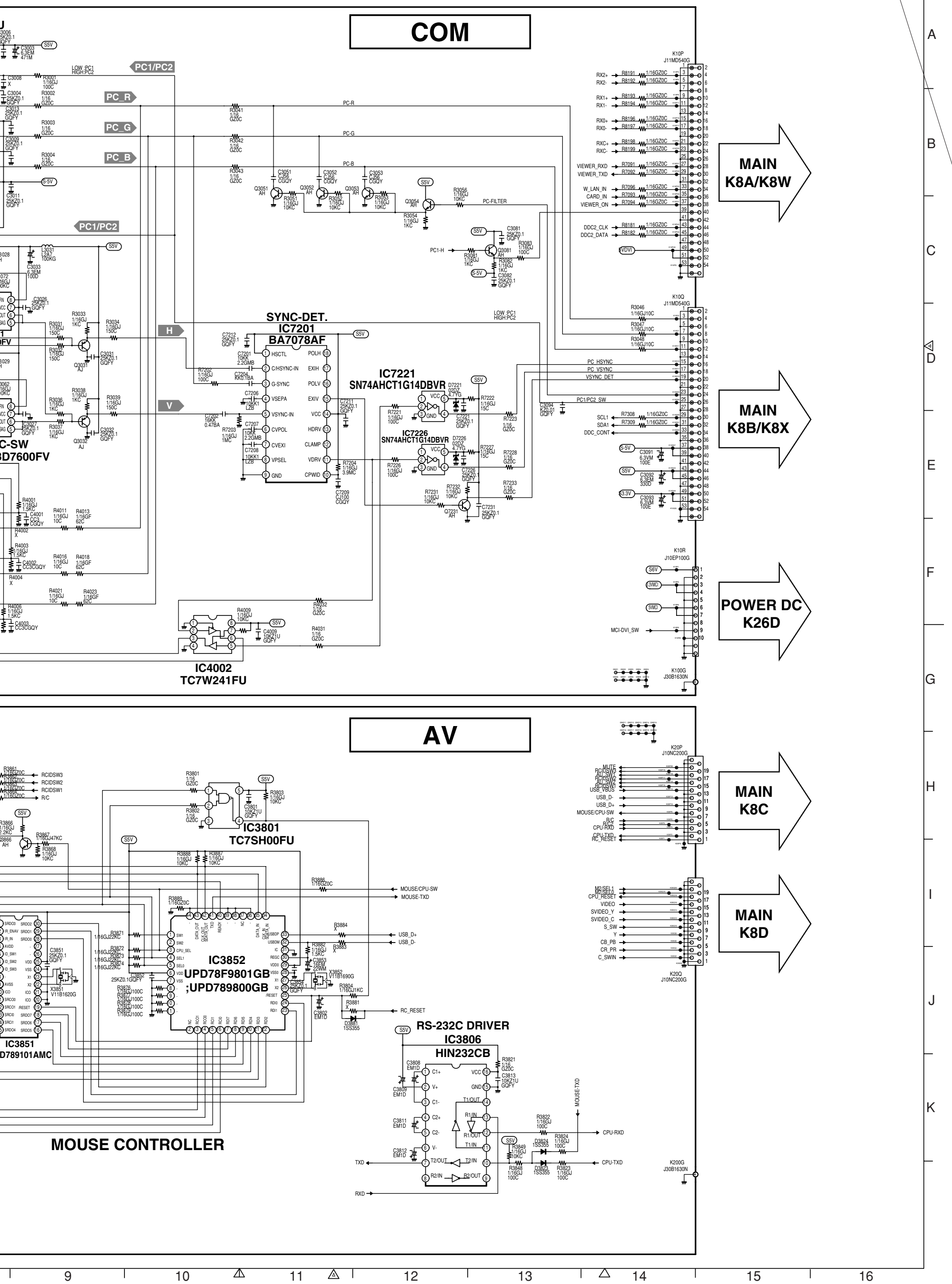


Schematic Diagrams PLC-XT10 A4 [Left]

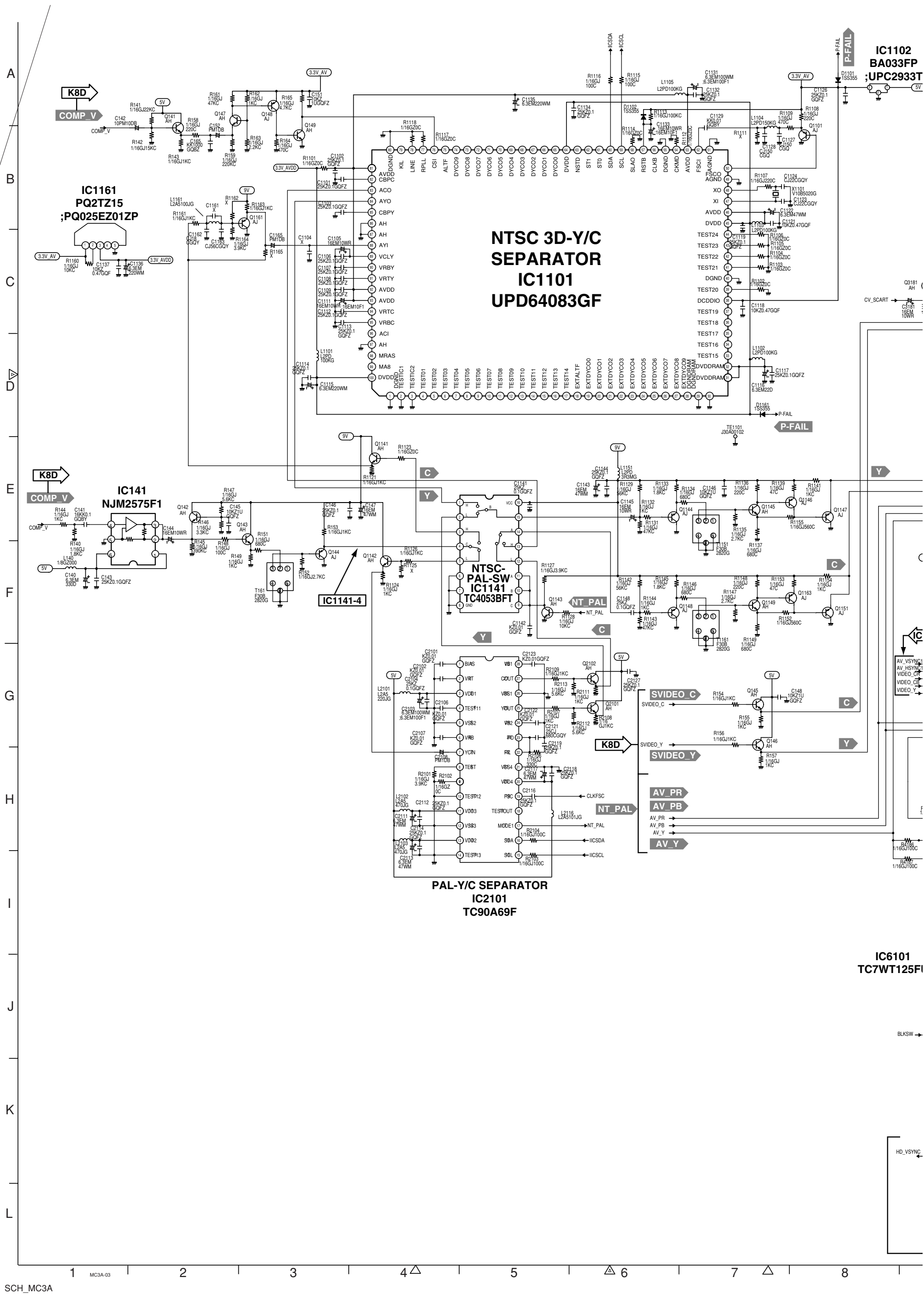
A
B
C
D
E
F
G
H
I
J
K
L



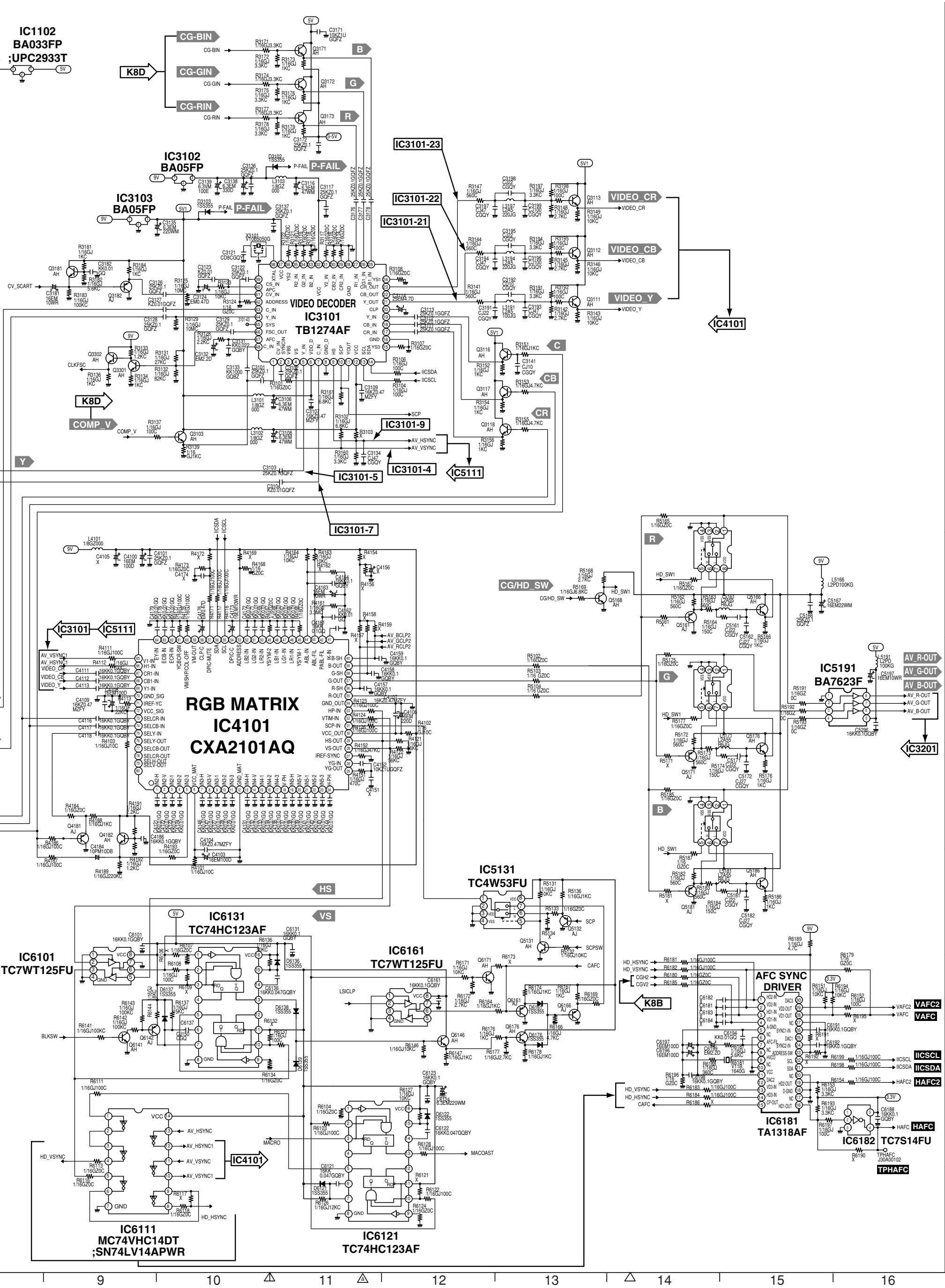
Schematic Diagrams PLC-XT10 A4 [Right]



A5 [Left]



Schematic Diagrams PLC-XT10 A5 [Right]



Schematic Diagrams PLC-XT10 A6 [Left]

A

B

C

D

E

F

G

H

I

J

K

L

1 MC3A-04

2

3

4

5

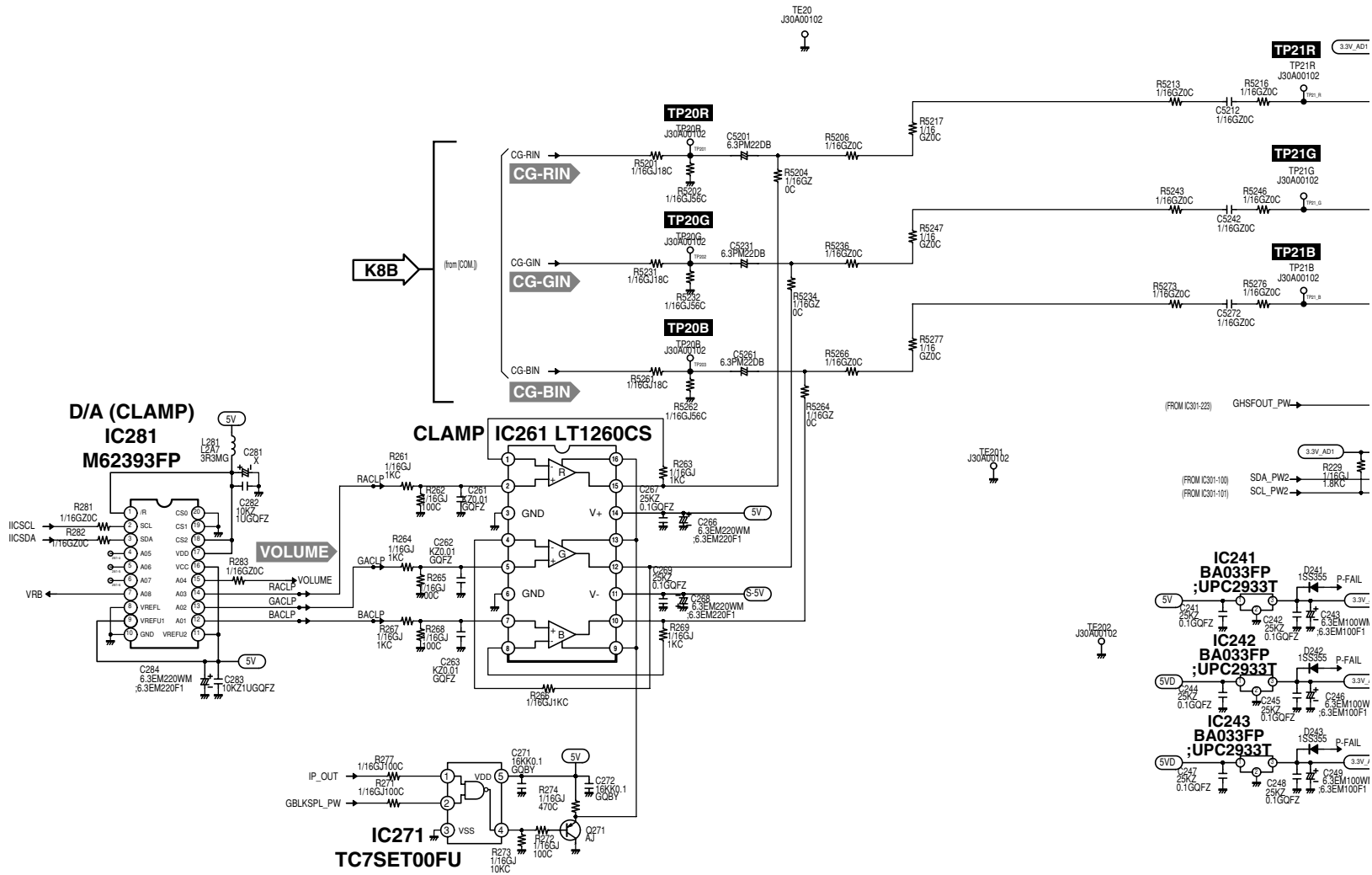
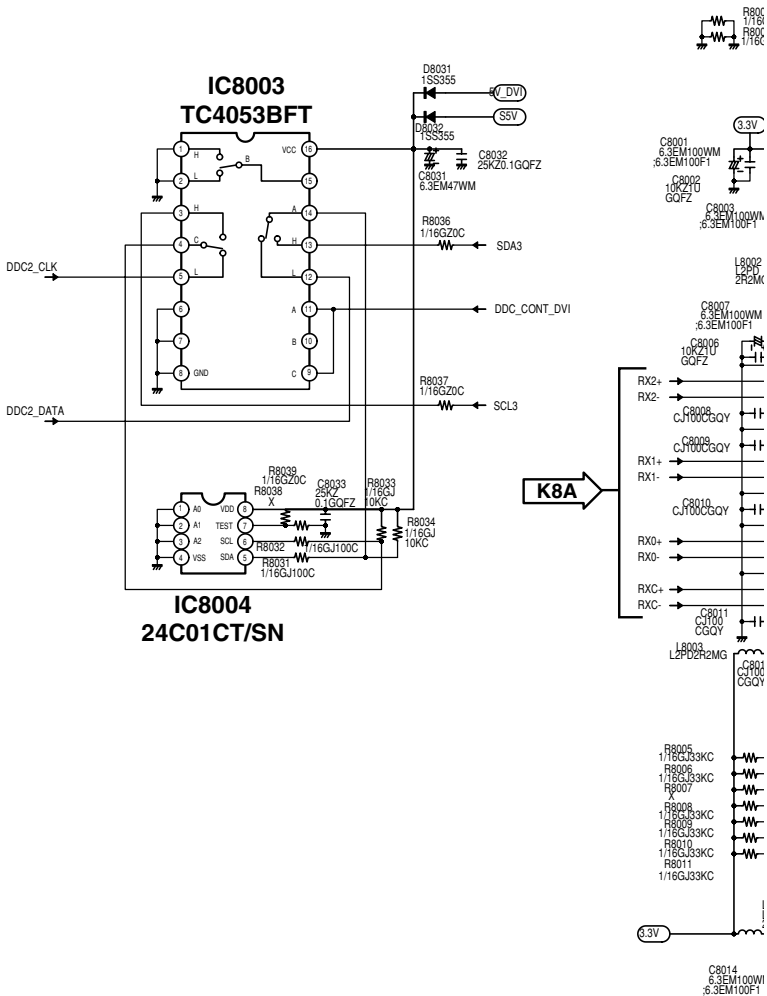
6

7

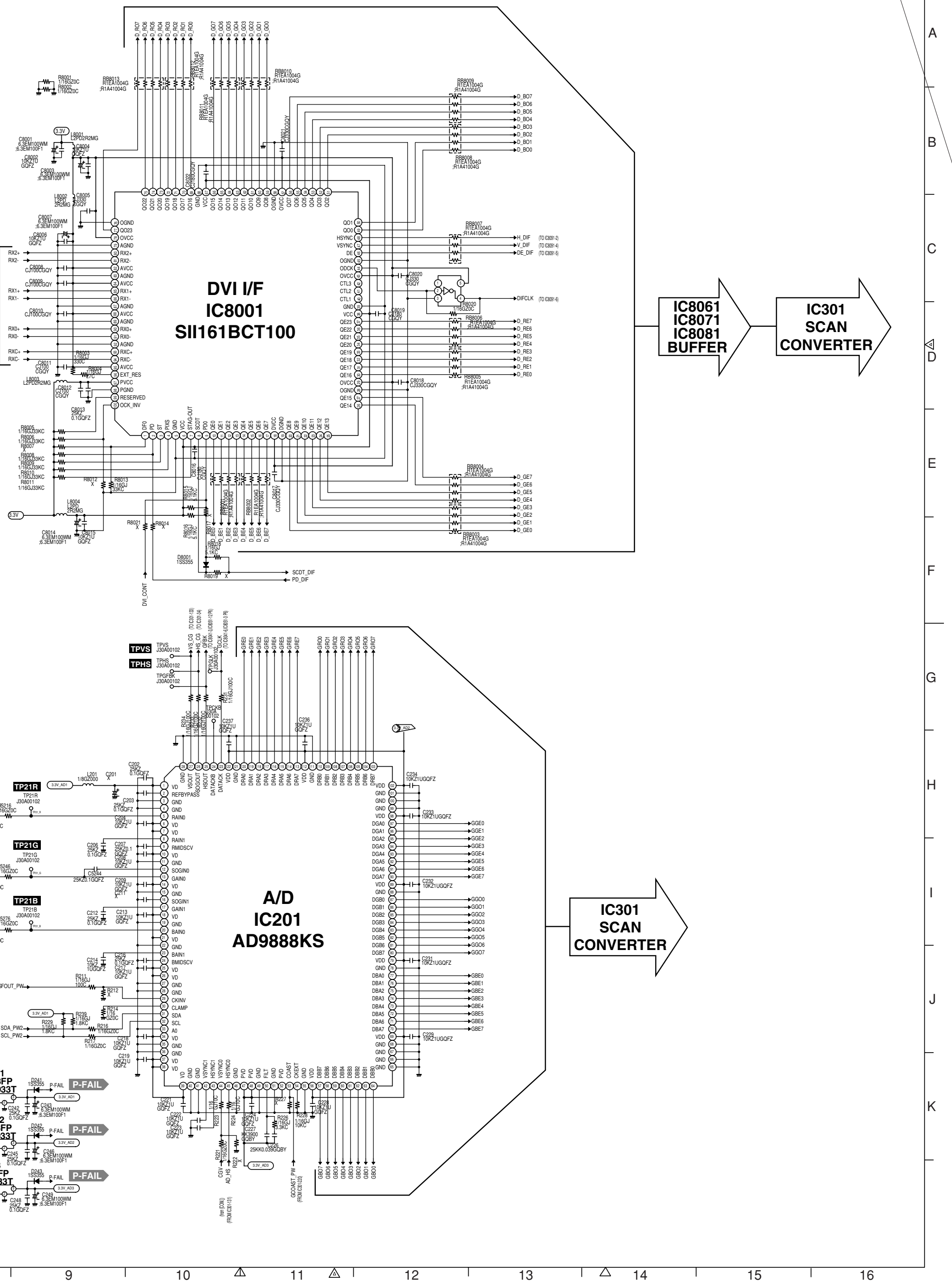
8

9

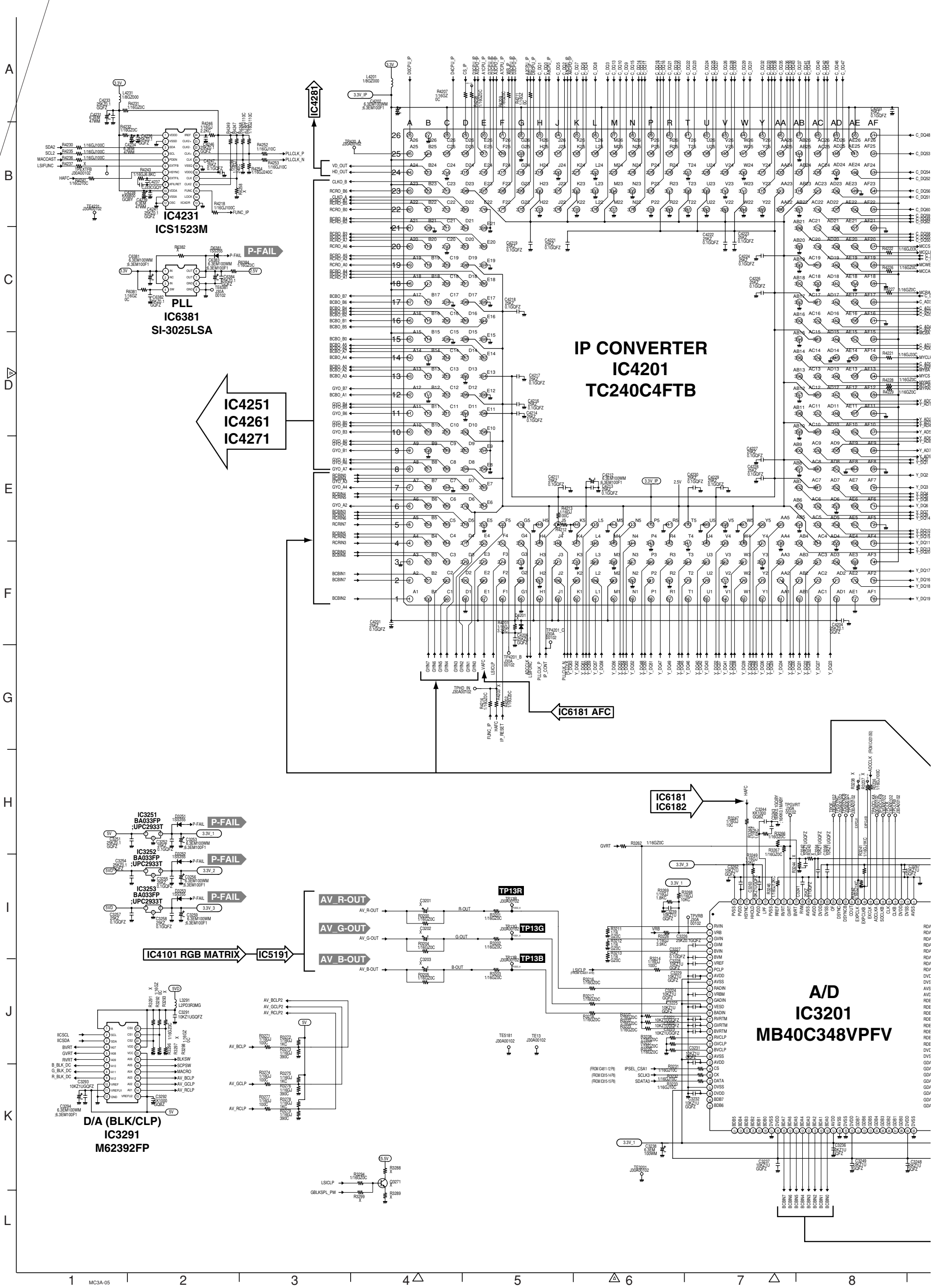
A6



Schematic Diagrams PLC-XT10 A6 [Right]



Schematic Diagrams PLC-XT10 A7 [Left]

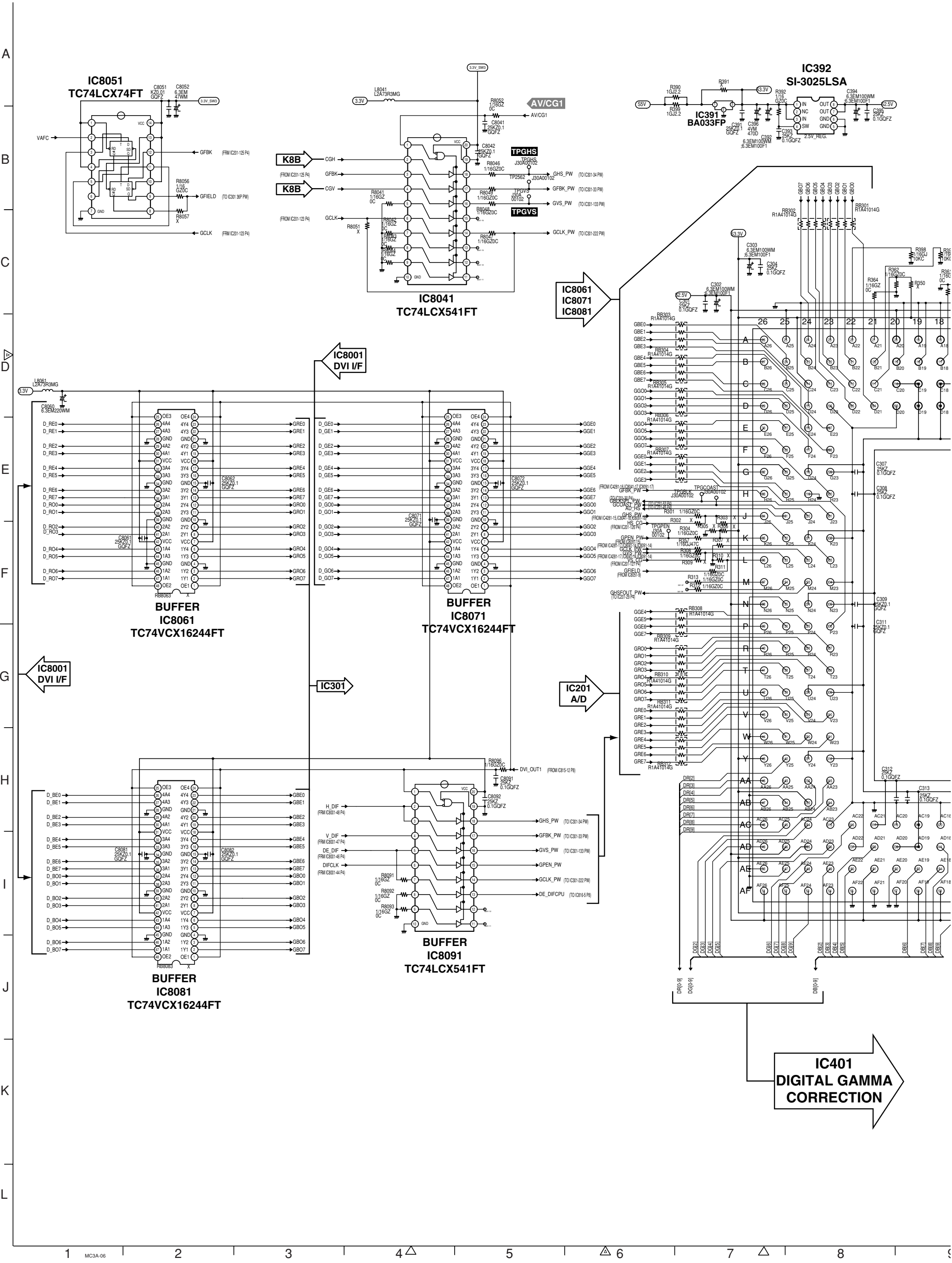


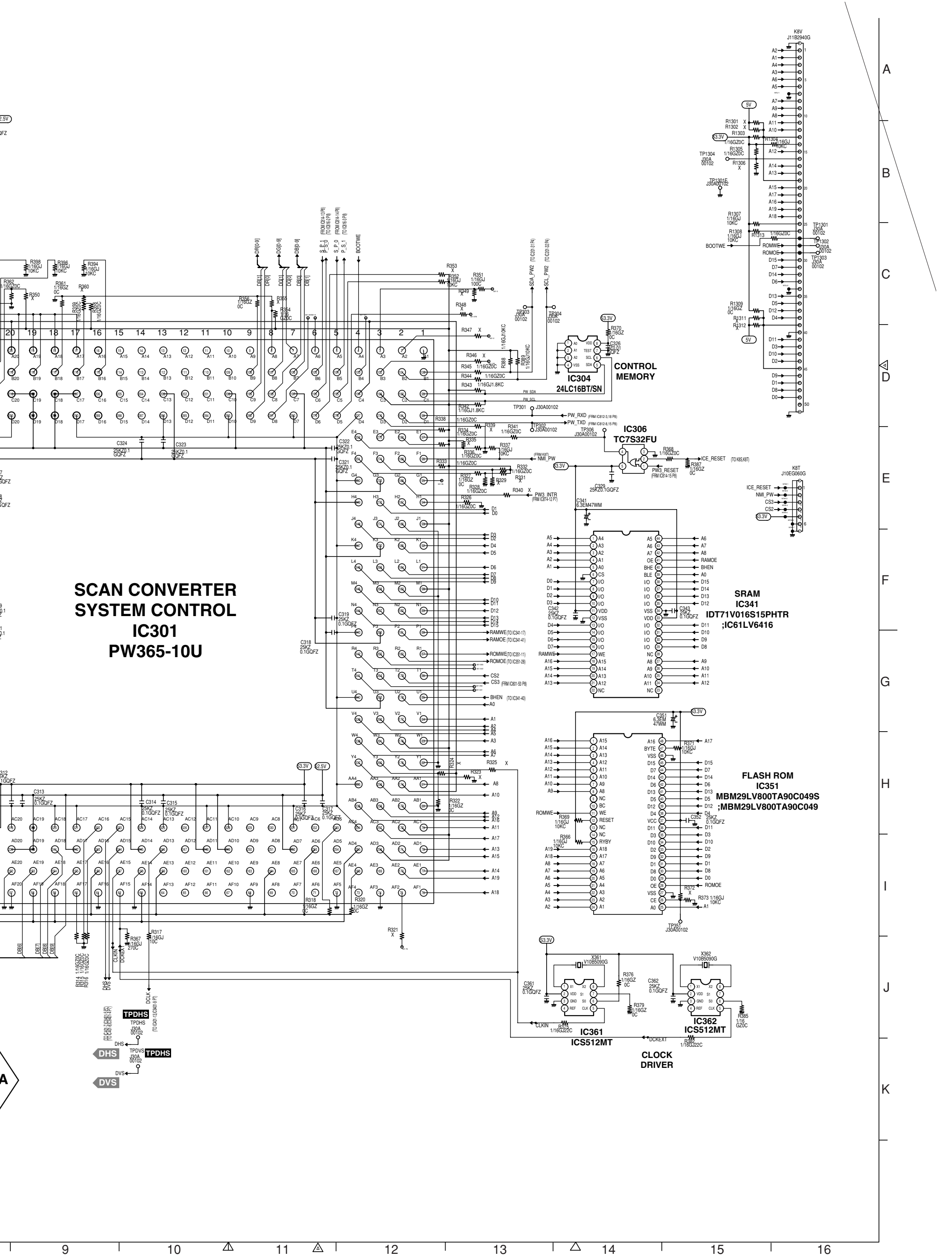
PLC-XT10

A7 [Right]

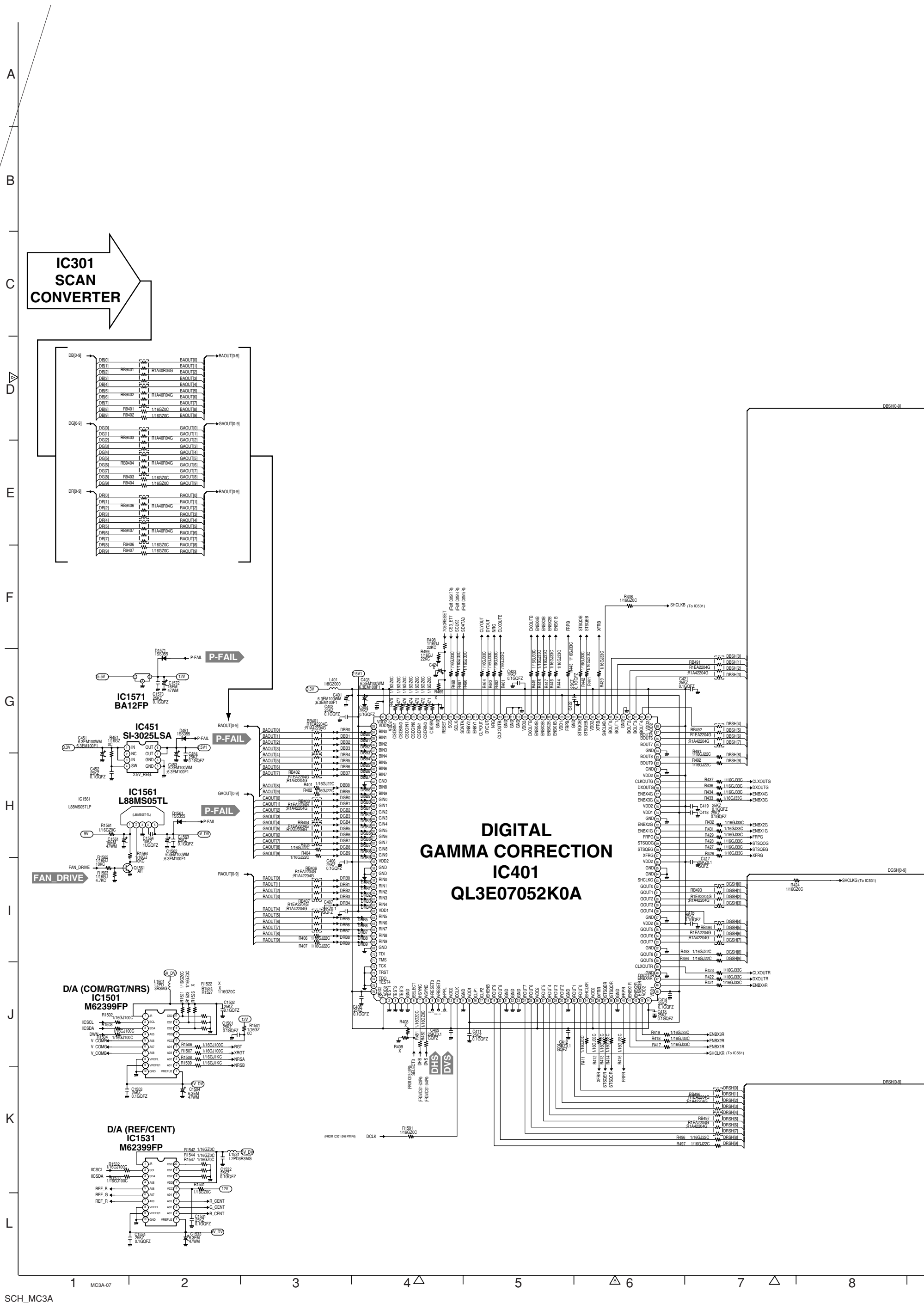


Schematic Diagrams PLC-XT10 A8 [Left]

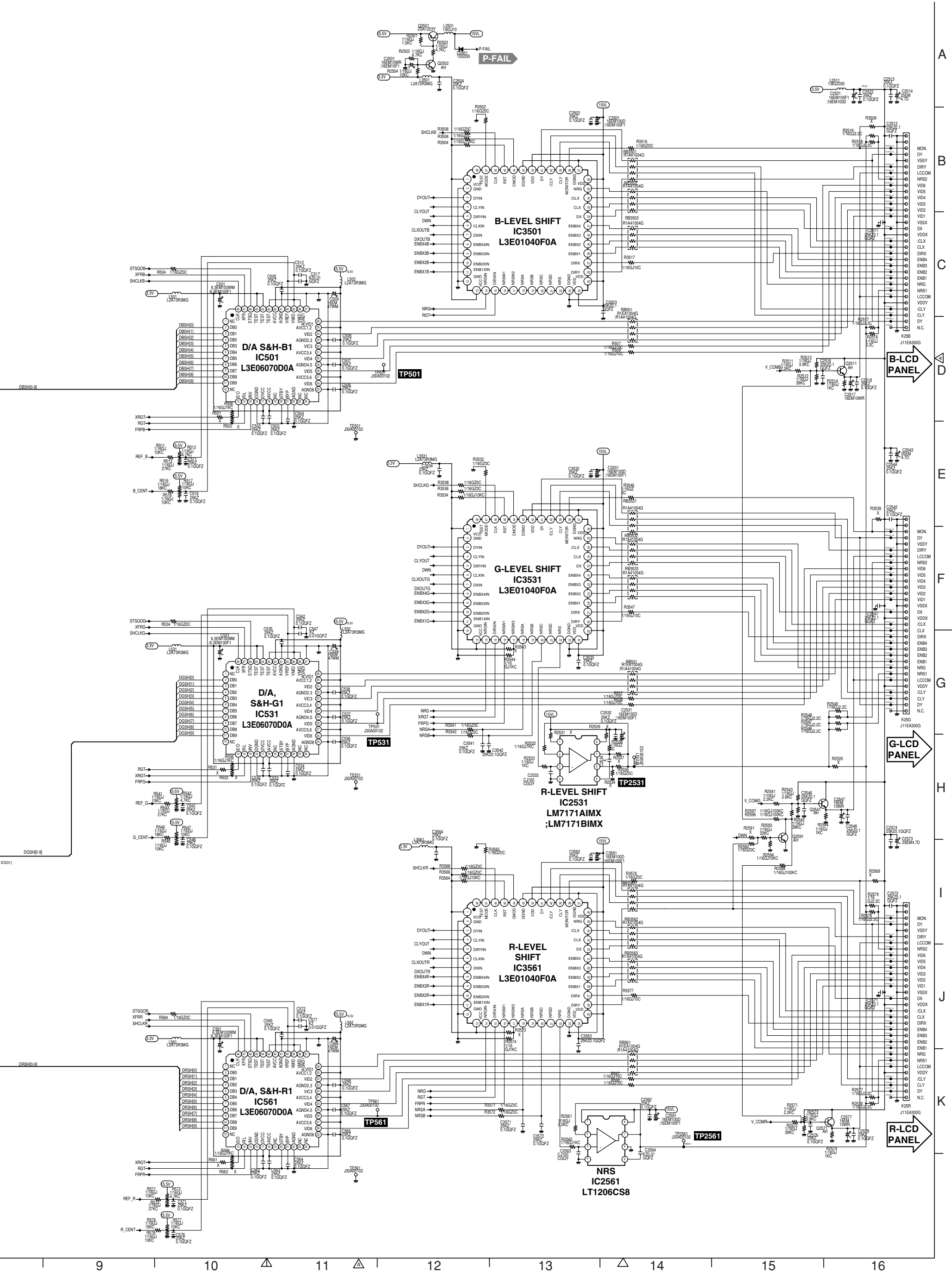




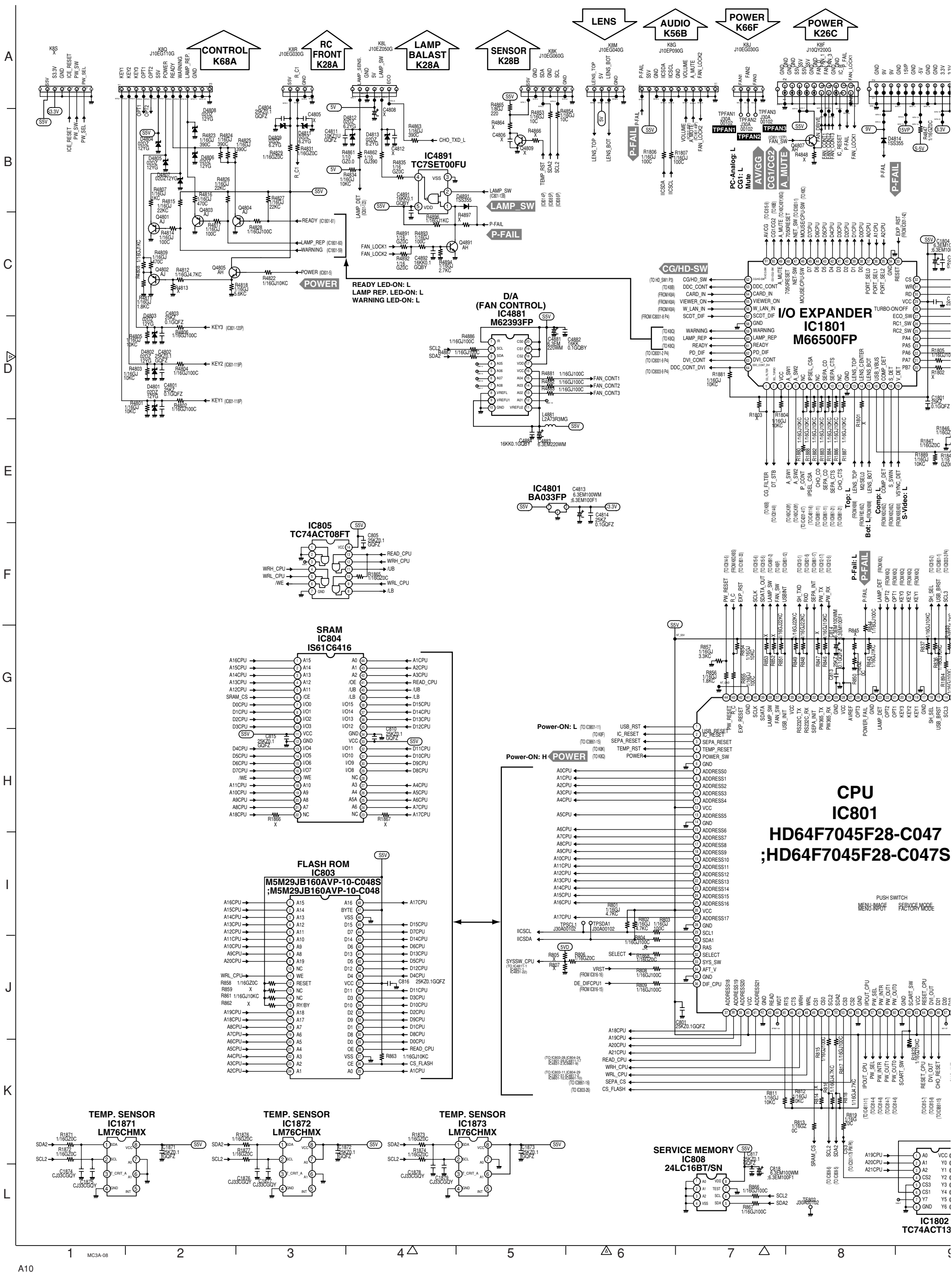
A9 [Left]



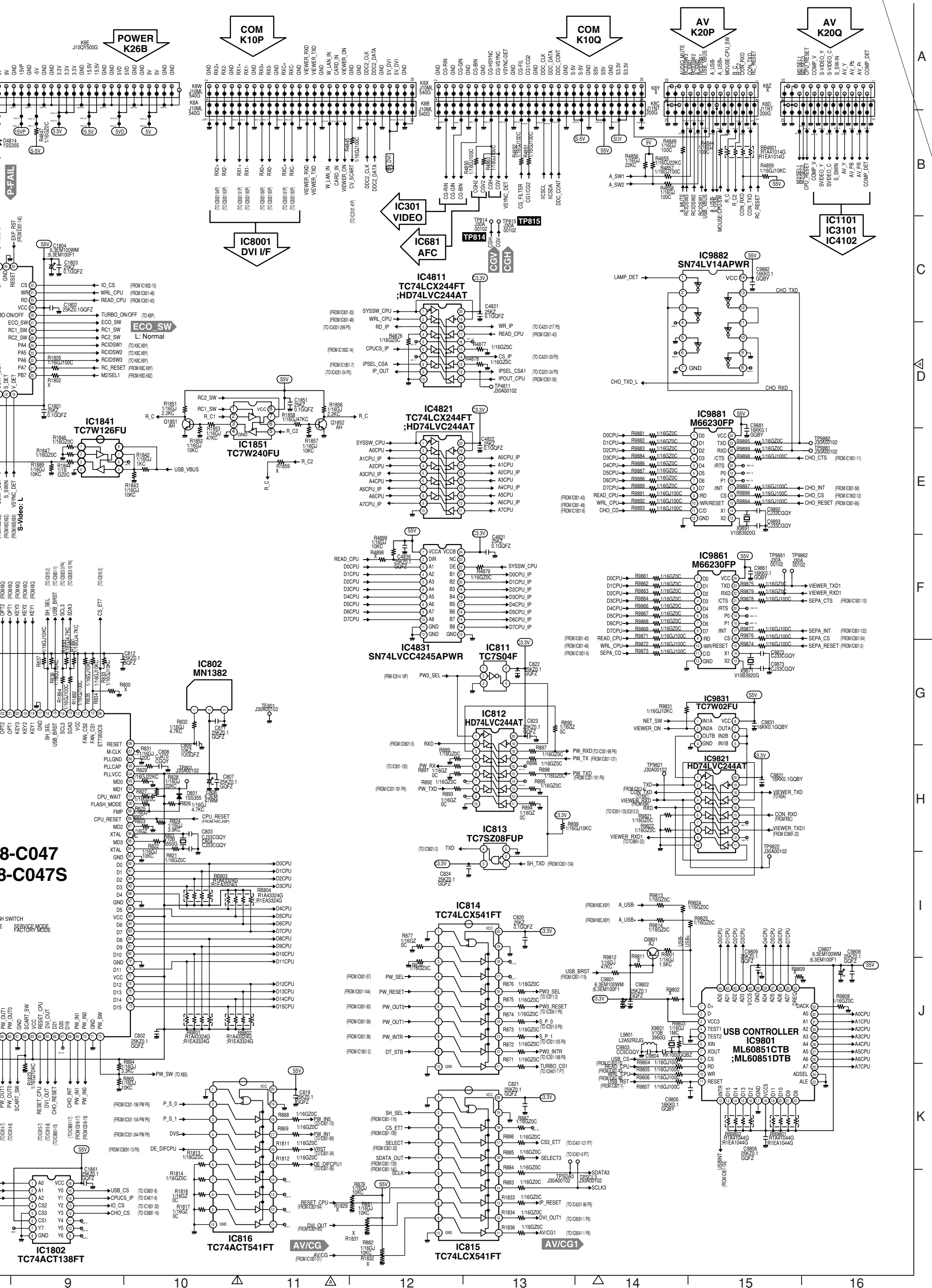
Schematic Diagrams PLC-XT10 A9 [Right]



Schematic Diagrams PLC-XT10 A10 [Left]



Schematic Diagrams PLC-XT10 A10 [Right]



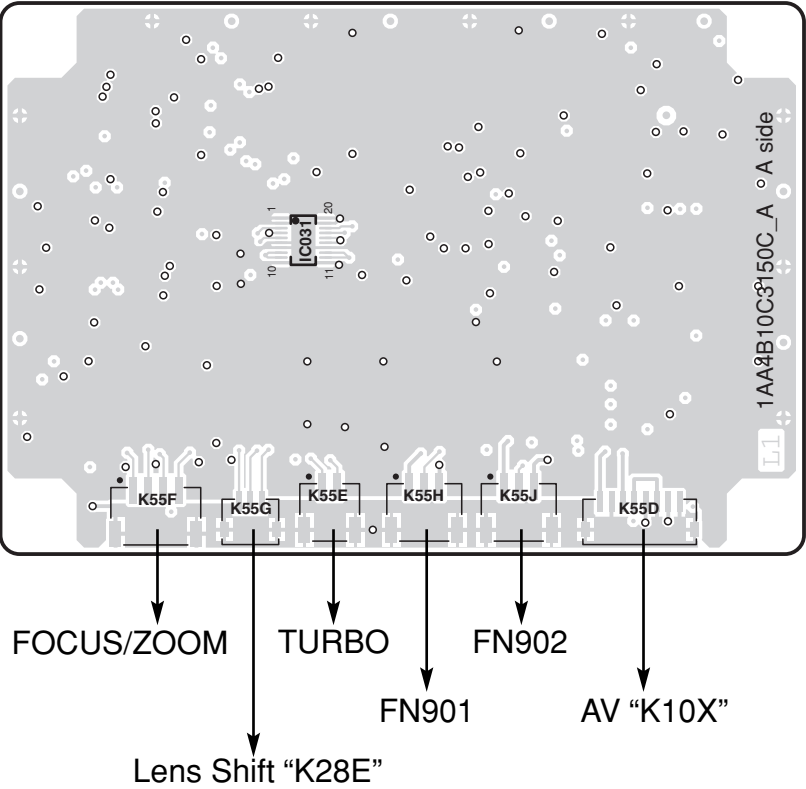
■ Printed Wiring Board Diagrams

⚠ 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.

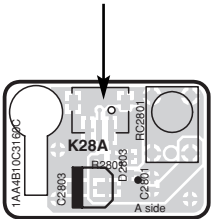
Audio (SIDE:A)



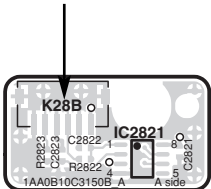
RC Front (SIDE:A)

Sensor (SIDE:A)

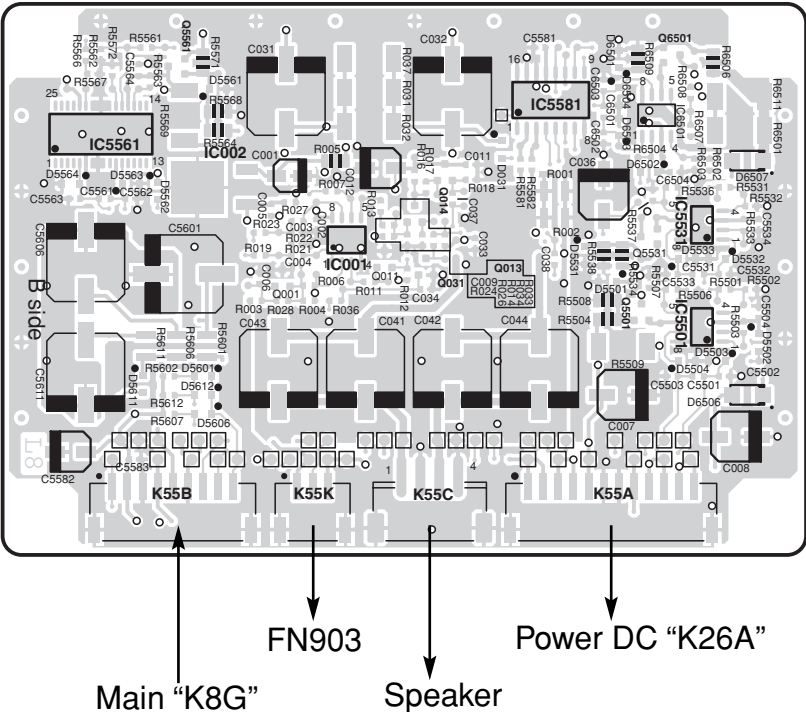
Main "K8K"



Main "K8R"

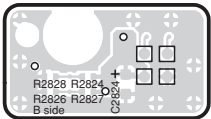
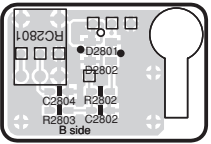


Audio (SIDE:B)

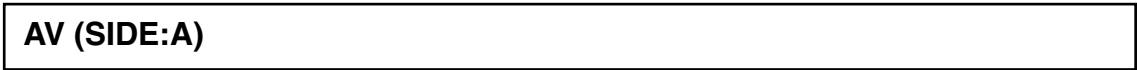


RC Front (SIDE:B)

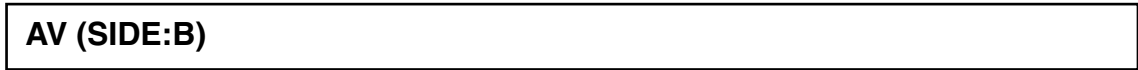
Sensor (SIDE:B)



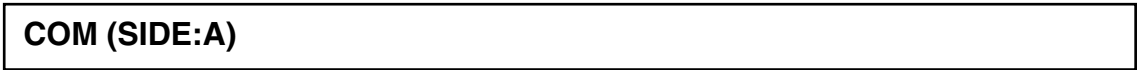
AV (SIDE:A)



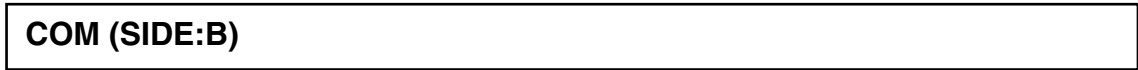
AV (SIDE:B)

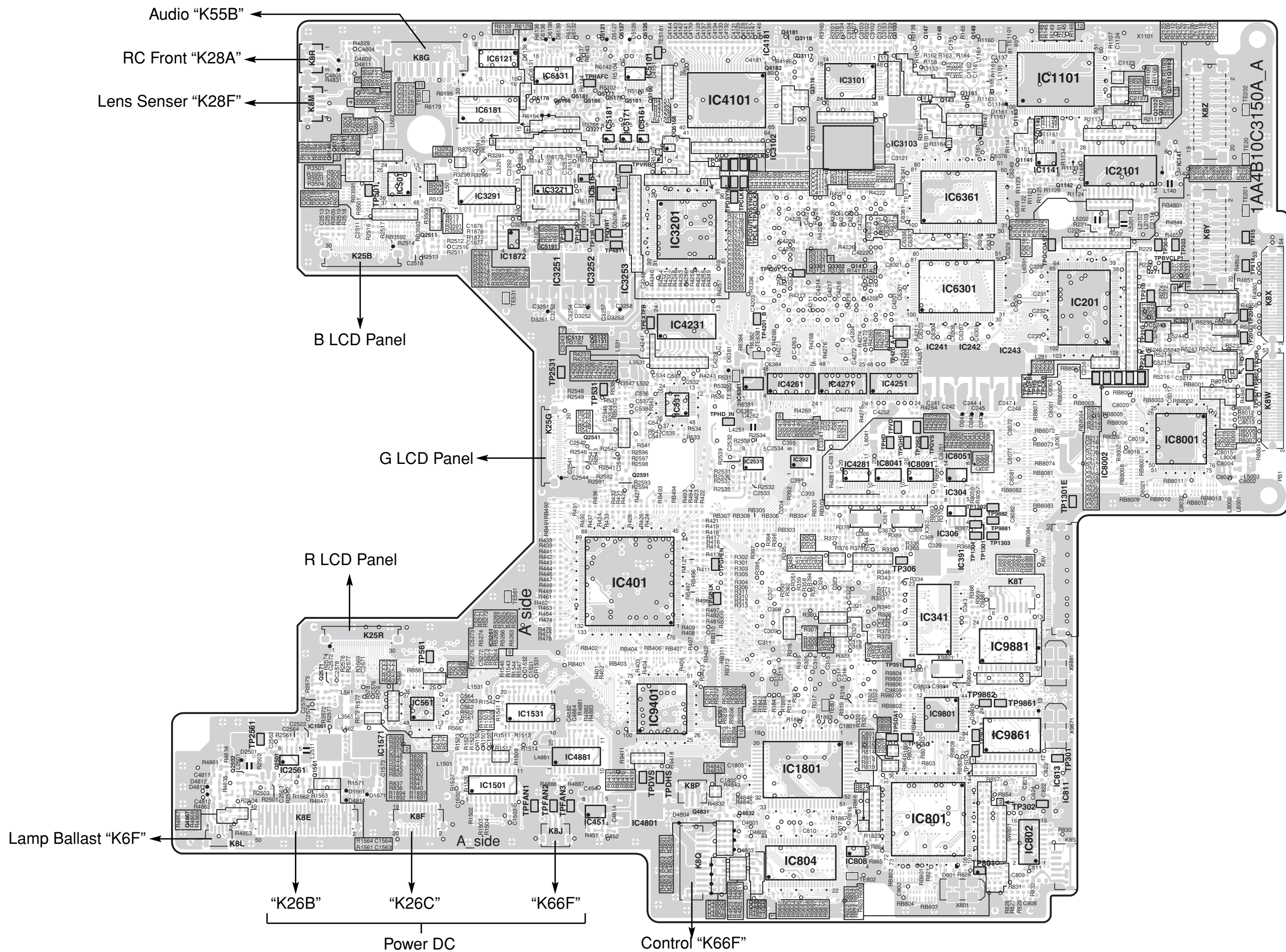


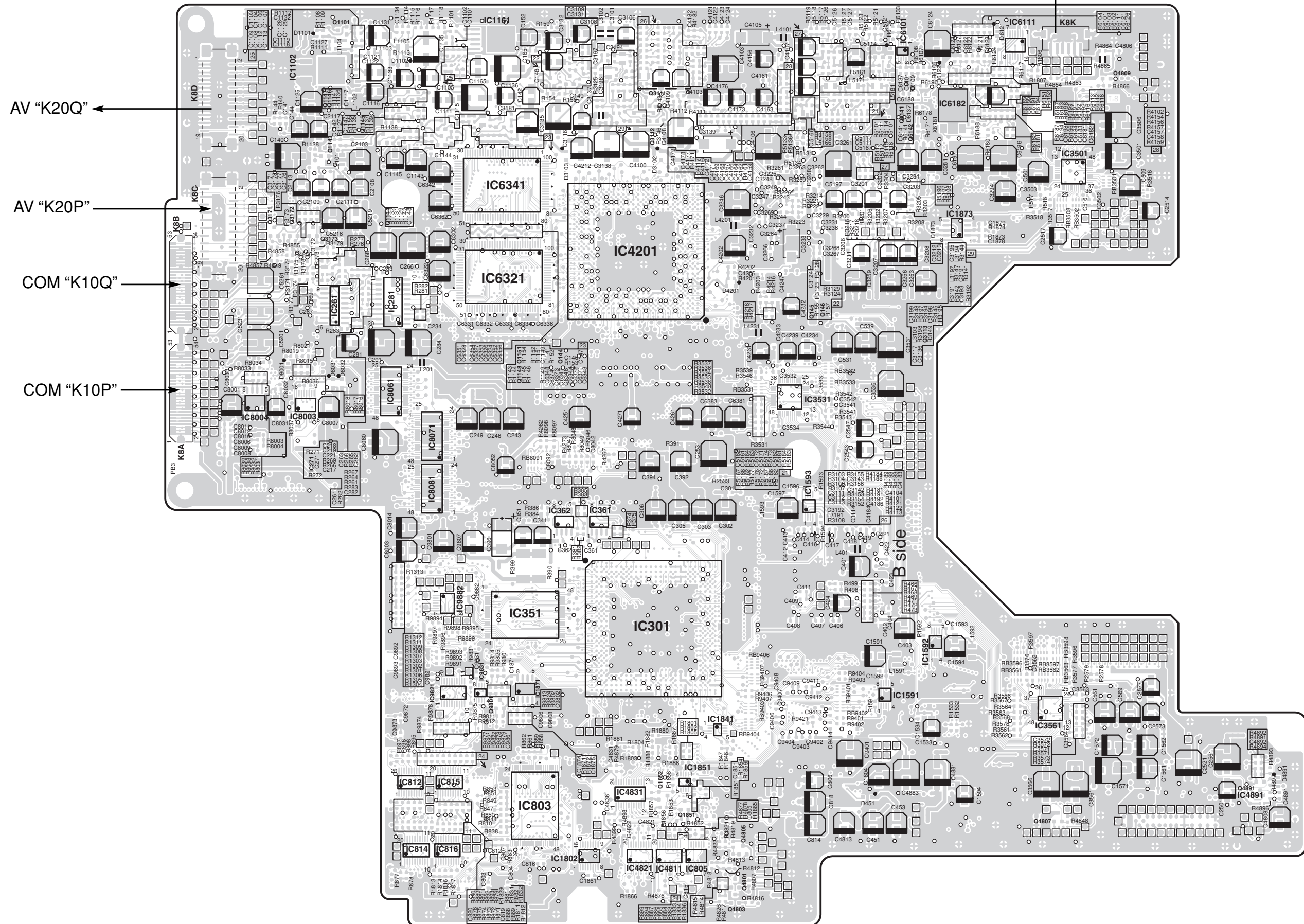
COM (SIDE:A)



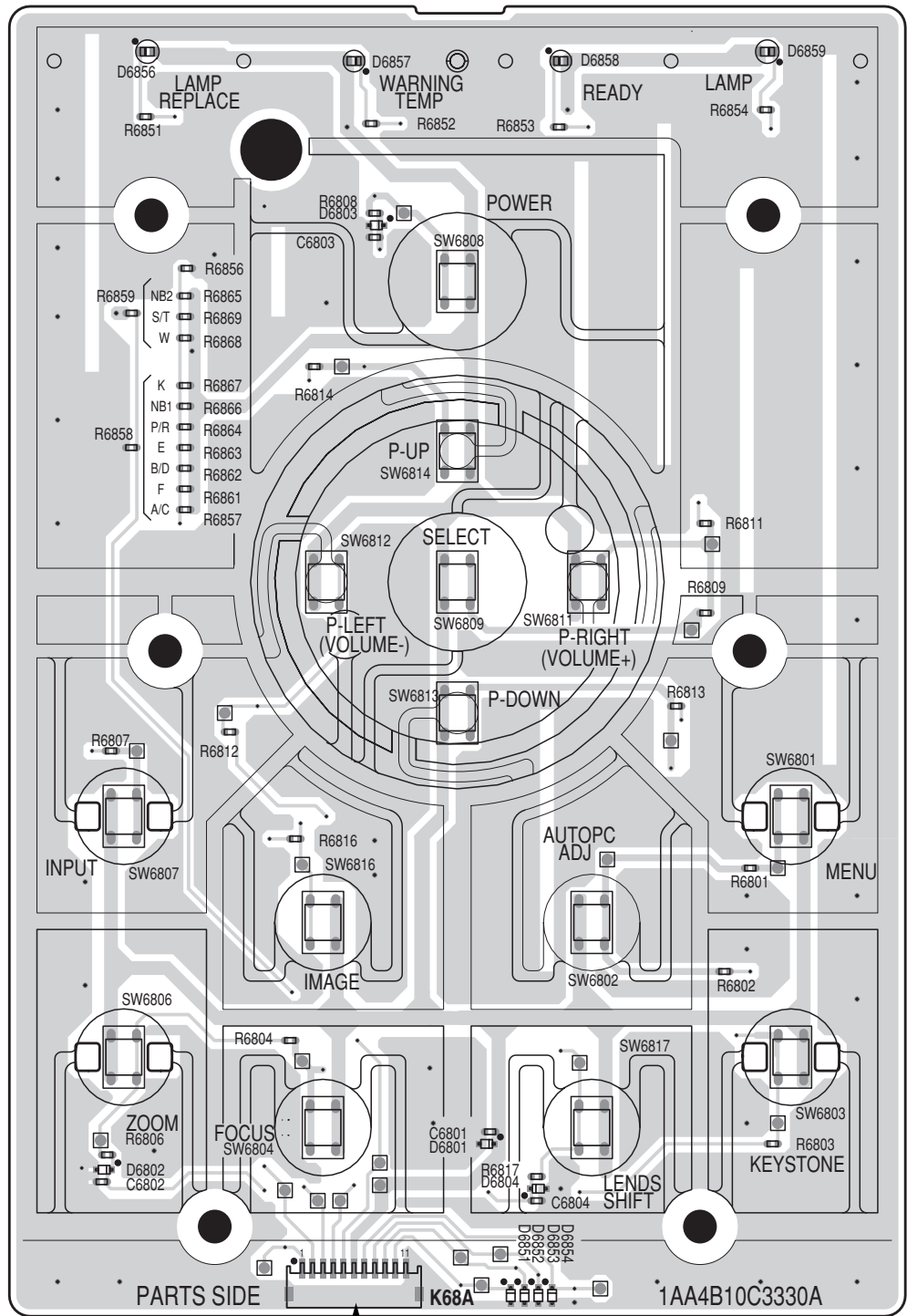
COM (SIDE:B)





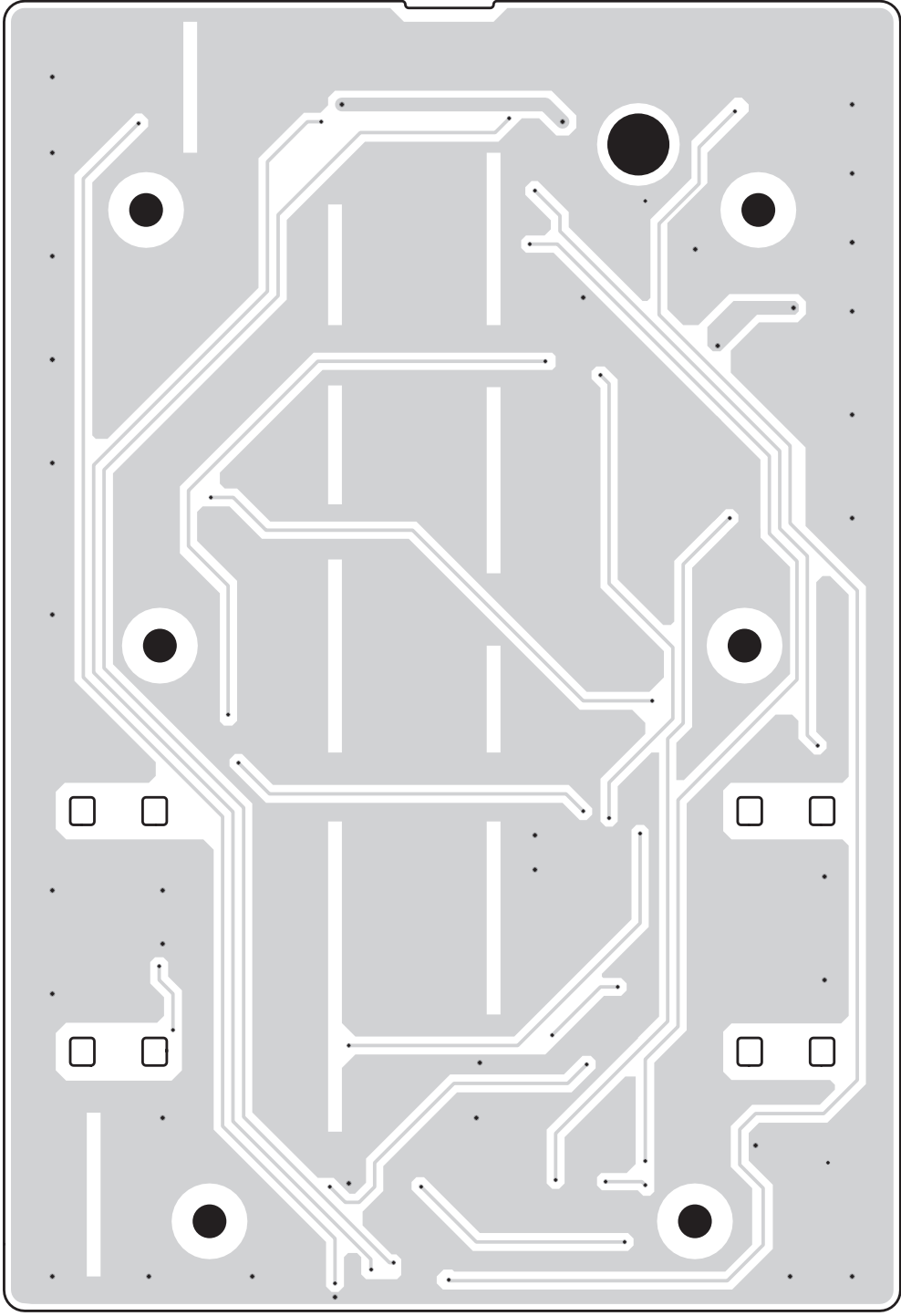


Control (SIDE:A)



Main "K8Q"

Control (SIDE:B)



● |C

