

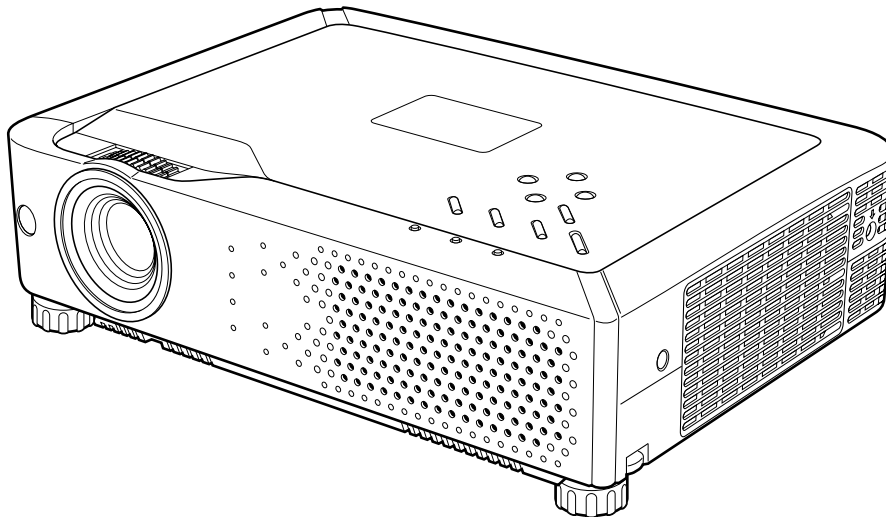
FILE NO.

SERVICE MANUAL Multimedia Projector

Model No. PLC-SU70

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

Original Version



Chassis No. MR5-SU7000

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

1 122 298 00 (MR5A)
1 122 299 00 (PR5A)
1 122 299 02 (PR5C)

REFERENCE NO. SM5110751-00

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Safety Instructions

SAFETY PRECAUTIONS

WARNING:

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

The following precautions must be observed.

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

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

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

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

PRODUCT SAFETY NOTICE

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

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing. Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts. Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	9.66" x 2.3" x 6.82" (294.5mm x 69.5mm x 208mm) (Not including adjustable feet)
Net Weight	5.3 lbs (2.4kgs)
Feet Adjustment	0° to 10.0°

Panel Resolution

LCD Panel System	0.6" TFT Active Matrix type, 3 panels
Panel Resolution	800 x 600 dots
Number of Pixels	1,440,000 (800 x 600 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 ~ 80 KHz, V-sync. 50 ~ 100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 40" to 300"
Projection Lens	F 1.65 ~ 1.81 lens with f 22.5 mm ~ 27 mm with manual zoom and focus
Throw Distance	4.6' - 43.3' (1.4m - 13.2m)
Projection Lamp	200W

Interface

Video Input Jack	RCA Type x 1
S-Video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Computer Input 1 / Component Input Terminal	Analog RGB (Mini D-sub 15 pin) Terminal X 1
Computer Input 2 / Monitor Output Terminal	Analog RGB (Mini D-sub 15 pin) Terminal X 1 (In / Out switchable)
Computer/ Component Audio Input Jack	Mini Jack (stereo) x 1
Service Port Connector	Mini DIN 8 pin x 1
USB Connector	USB Series B receptacle x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)

Audio

Internal Audio Amp	1.0W RMS
Built-in Speaker	1 speaker, ø1.1" (28mm)

Power

Voltage and Power Consumption	AC 100 ~ 120 V (3.2A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada)
	AC 200 ~ 240 V (1.6A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41 °F ~ 95 °F (5 °C ~ 35 °C)
Storage Temperature	14 °F ~ 140 °F (-10°C ~ 60 °C)

Remote Control

Battery	AA or LR6 1.5V ALKALINE TYPE x 2
Operating Range	16.4' (5m) / ±30°
Dimensions	1.9"(W) x 0.87"(H) x 5.7"(D) (49mm x 22mm x 145.3mm)
Net Weight	3.53 oz (100 g) (including batteries)

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.



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.

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.

Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 105°C, the thermal switch opens to stop the operation of the power supply circuit.

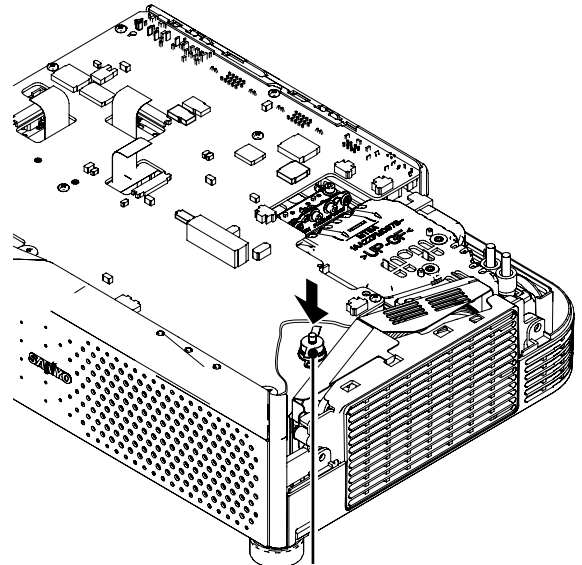
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.

How to reset the thermal switch

1. Remove the cabinet top, cabinet front and main board and then remove the power box top cover.
2. Press the reset button on the thermal switch in the power box.

CAUTION:

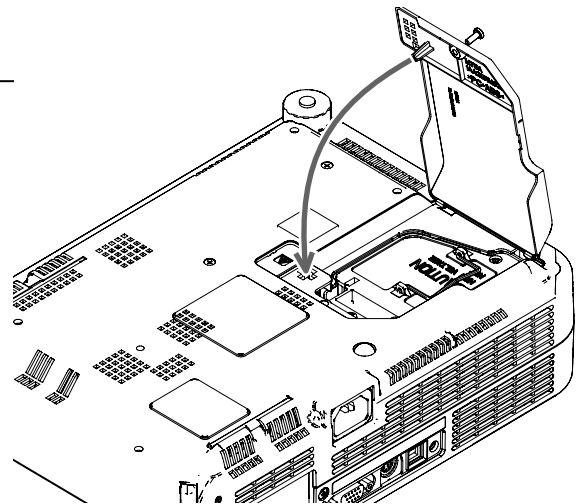
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.



Thermal switch (SW902)

Lamp cover switch

The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



Fuse

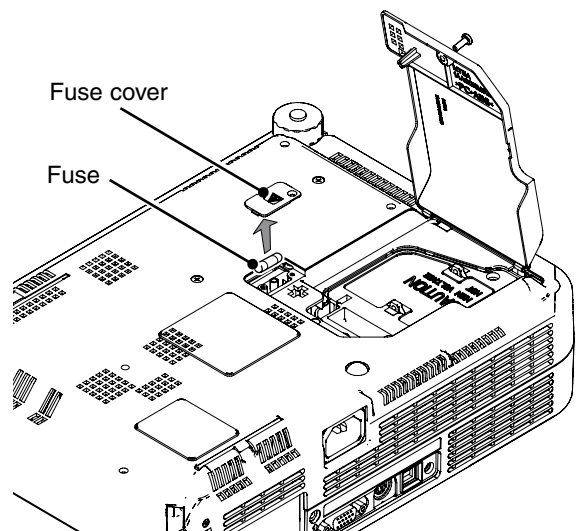
A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.

The fuse should be used with the following type;

Fuse Part No.: 423 021 7801
TYPE T6.3AH 250V FUSE
LITTLE FUSE INC. TYPE 21506.3

How to replace the fuse

1. Remove the lamp cover and fuse cover as shown in figure.
2. Take the fuse out from the aperture, and replace the new one with the specified type.



Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.

- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter “Power supply & protection circuit” in the Chassis Block Diagram section.

Possible causes

- Air filters are clogged with dust particles. Remove dust from the air filters 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

Air filters prevent dust from accumulating on the optical elements inside the projector. Should the air filters become clogged with dust particles, it will reduce cooling fans’ effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean the air filters following the steps below.

1. Turn off the projector, and disconnect the AC power cord from the AC outlet.
2. Turn over the projector and remove the air filters by pulling the latches upward.
3. Clean the air filters with a brush or rinse them softly.
4. When cleaning the air filters by rinsing, dry them well. Replace the air filters properly. Make sure that the air filters are fully inserted.

CAUTION:

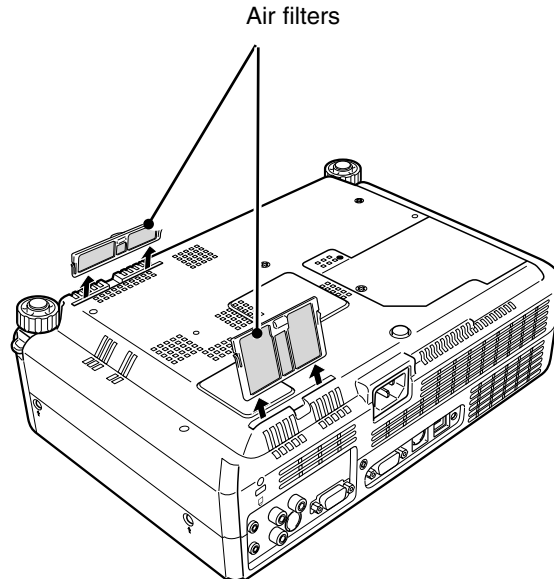
Do not operate the projector with the air filters removed. Dust may accumulate on the LCD panel and the projection mirror degrading picture quality. Do not put small parts into the air intake vents. It may result in malfunction of the projector.

RECOMMENDATION:

We recommend avoiding dusty/smoky environments when operating the projector. Usage in these environments may cause poor image quality.

When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector. This condition may degrade the quality of a projected image.

When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.



Lamp Replacement

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

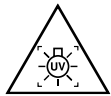
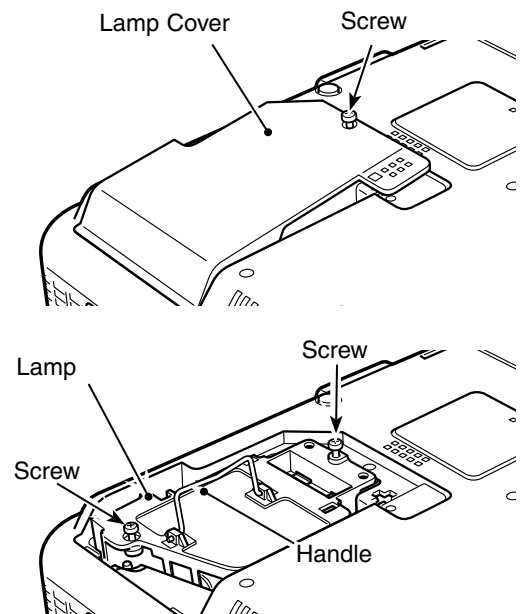
- 1 Turn off the projector and disconnect the AC cord.
- 2 Remove 1 screw with a screwdriver and remove the lamp cover.
- 3 Loosen 2 screws and pull out the lamp assembly by grasping the handle.
- 4 Replace the lamp with a new one and tighten the 2 screws back into position. Make sure that the lamp is set properly. Replace the lamp cover and tighten the screw.
- 5 Connect the AC cord to the projector and turn on.
- 6 Reset the lamp replacement counter, see below explanation.

Note

- The projector cannot be turned-on with lamp cover removed, because when the lamp cover is removed, the lamp cover switch is also released to switch off the lamp circuit.

ORDER REPLACEMENT LAMP

Type No. _____ Service Parts No. _____
POA-LMP90 610 323 0726



**WARNING : TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER.
USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICEING.**

How to reset Lamp Replace Counter

- 1 Turn the projector on, press the **MENU** button and the On-Screen Menu will appear. Press the **Point Left/Right** button to move the red frame pointer to the Setting Menu icon.
- 2 Press the **Point Down** button to move the red frame pointer to the Lamp counter reset item and then press the **SELECT** button. Select "Reset" and press the **SELECT** button. The message "Lamp replace counter Reset?" is displayed. Move the pointer to [Yes] and then press the **SELECT** button.

* Refer to owner's manual for further information.

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".

How to check Lamp used time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 2000 hours. This is to indicate that lamp replacement is required.

The total lamp used time is calculated by using the below expression,

Total lamp used time = $T_{eco} + T_{normal} \times 2$

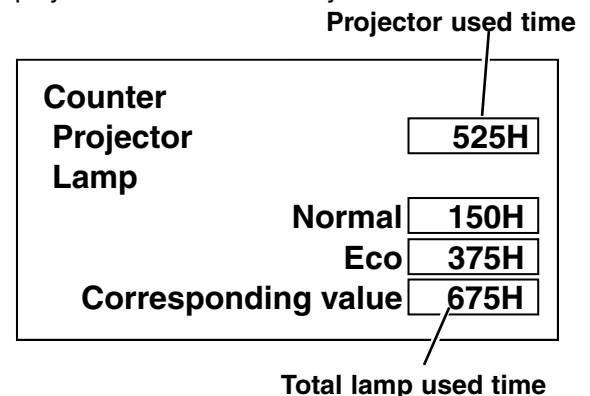
T_{eco} : used time in the Eco mode

T_{normal} : used time in the Normal mode

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

- 1 Press and hold the **POWER ON-OFF** button on the projector for more than 20 seconds.

- 2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



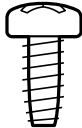
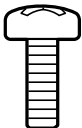
Mechanical Disassembly

Mechanical disassembly 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.

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

1 Cabinet Top & Fans (FN901, FN902) removal

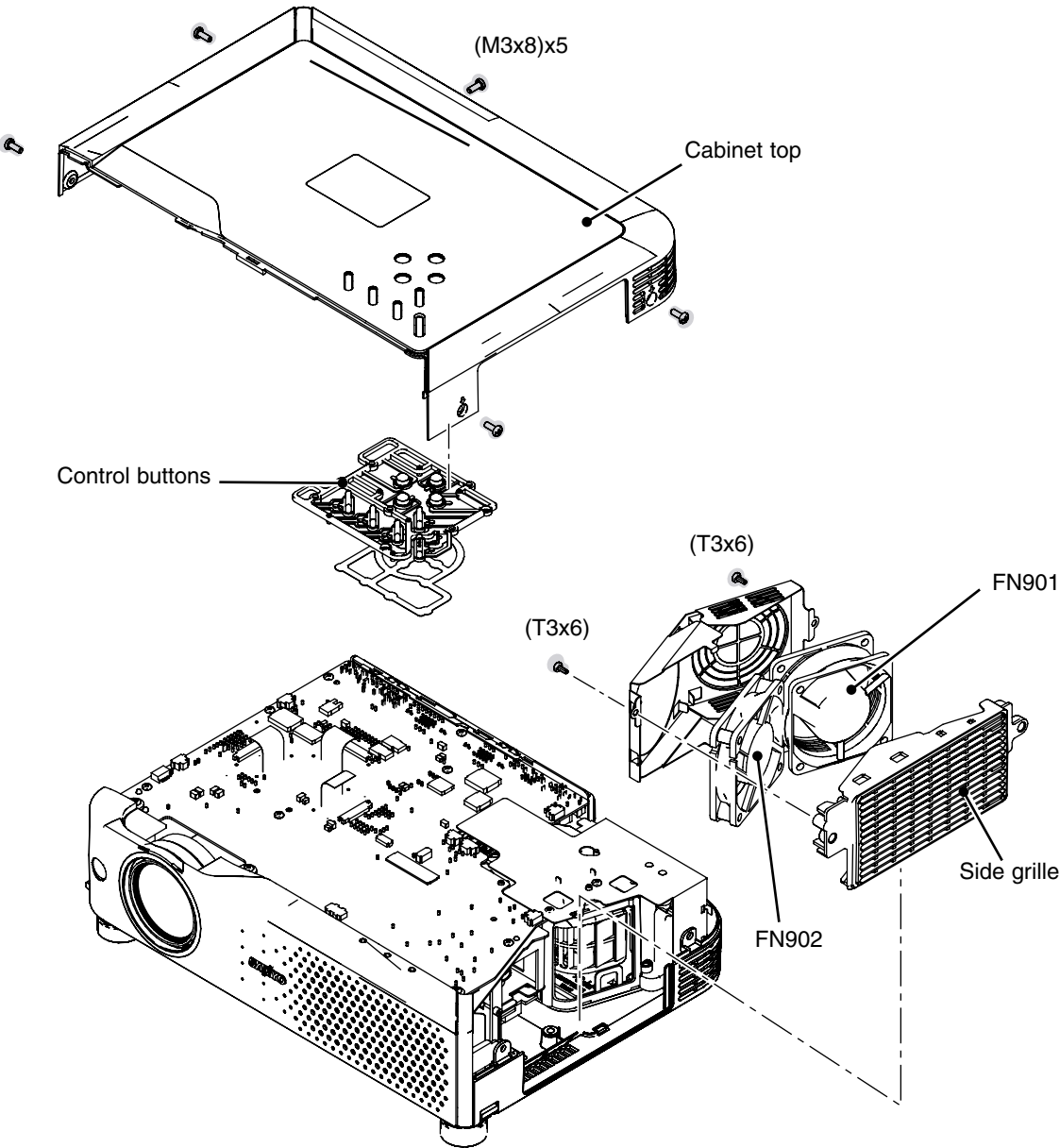


Fig.1

2 Cabinet Front, R/C Board, Main Board, Fans(FN905,FN906), SP901 removal

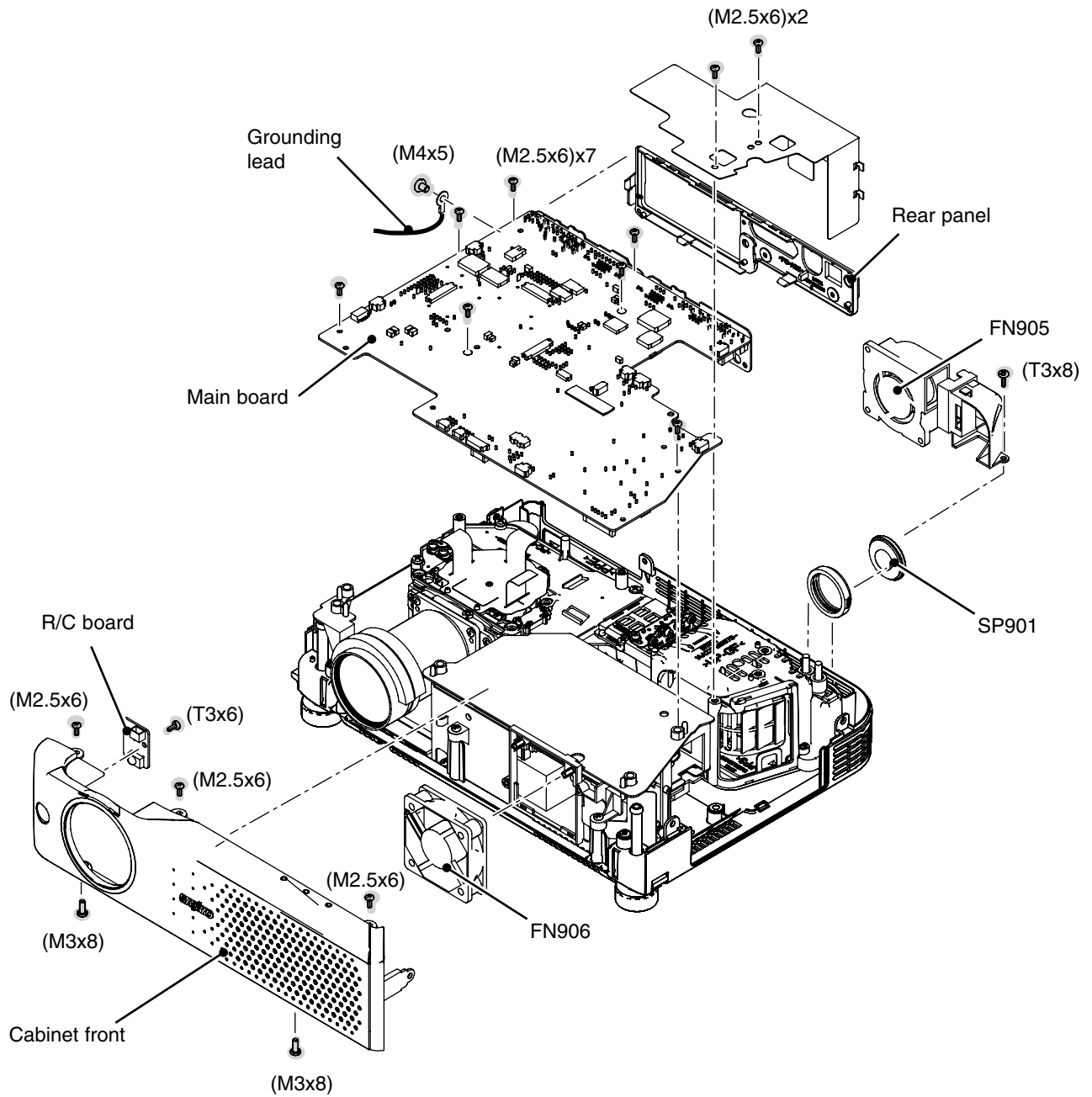


Fig.2

3 Power, Sub-Power, Line Filter Board, Ballast Board, Thermal Sw(SW902) removal

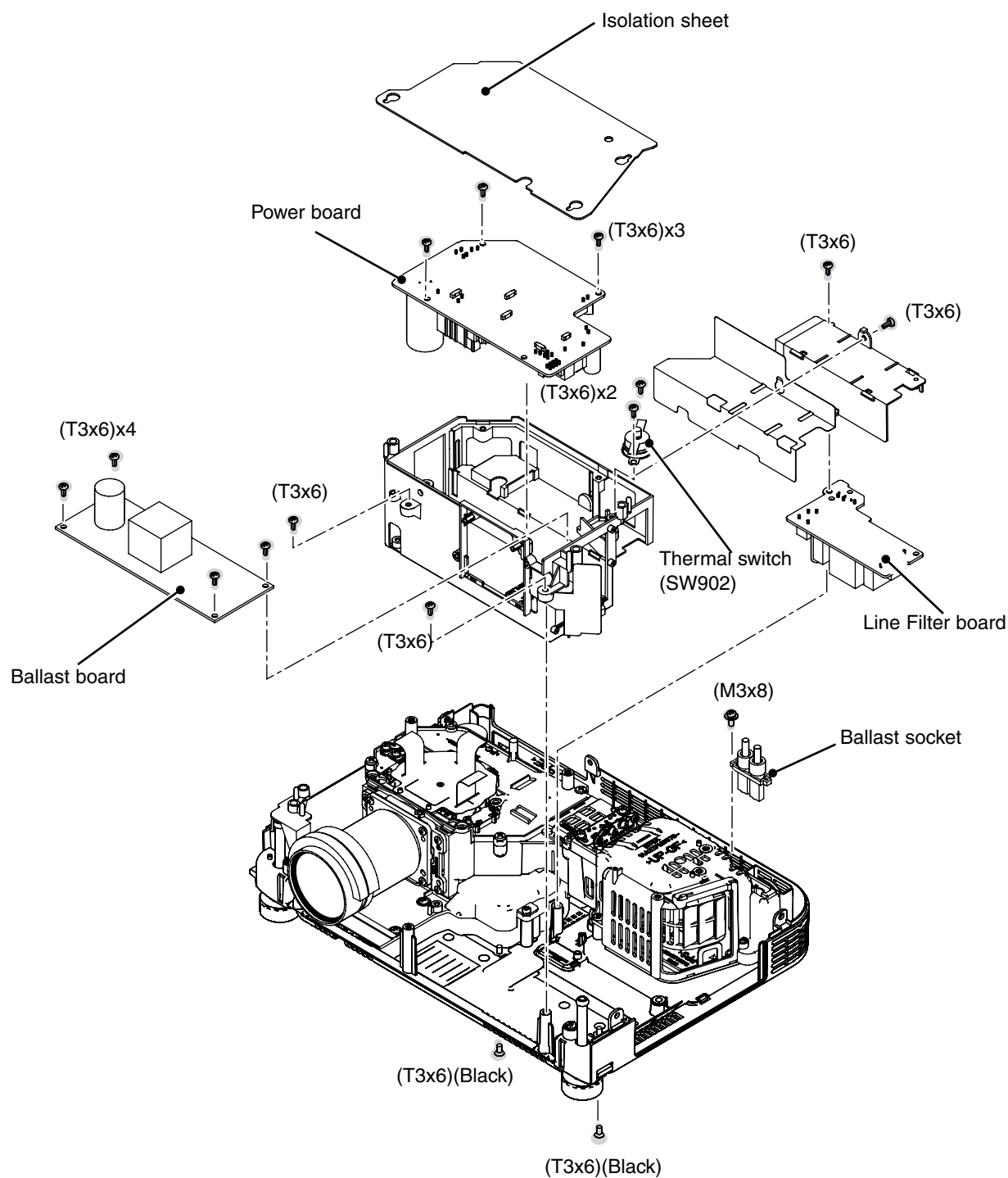


Fig.3

4 Optical Unit, Sub-Power Board, Fans(FN903, FN904), Noise Filter removal

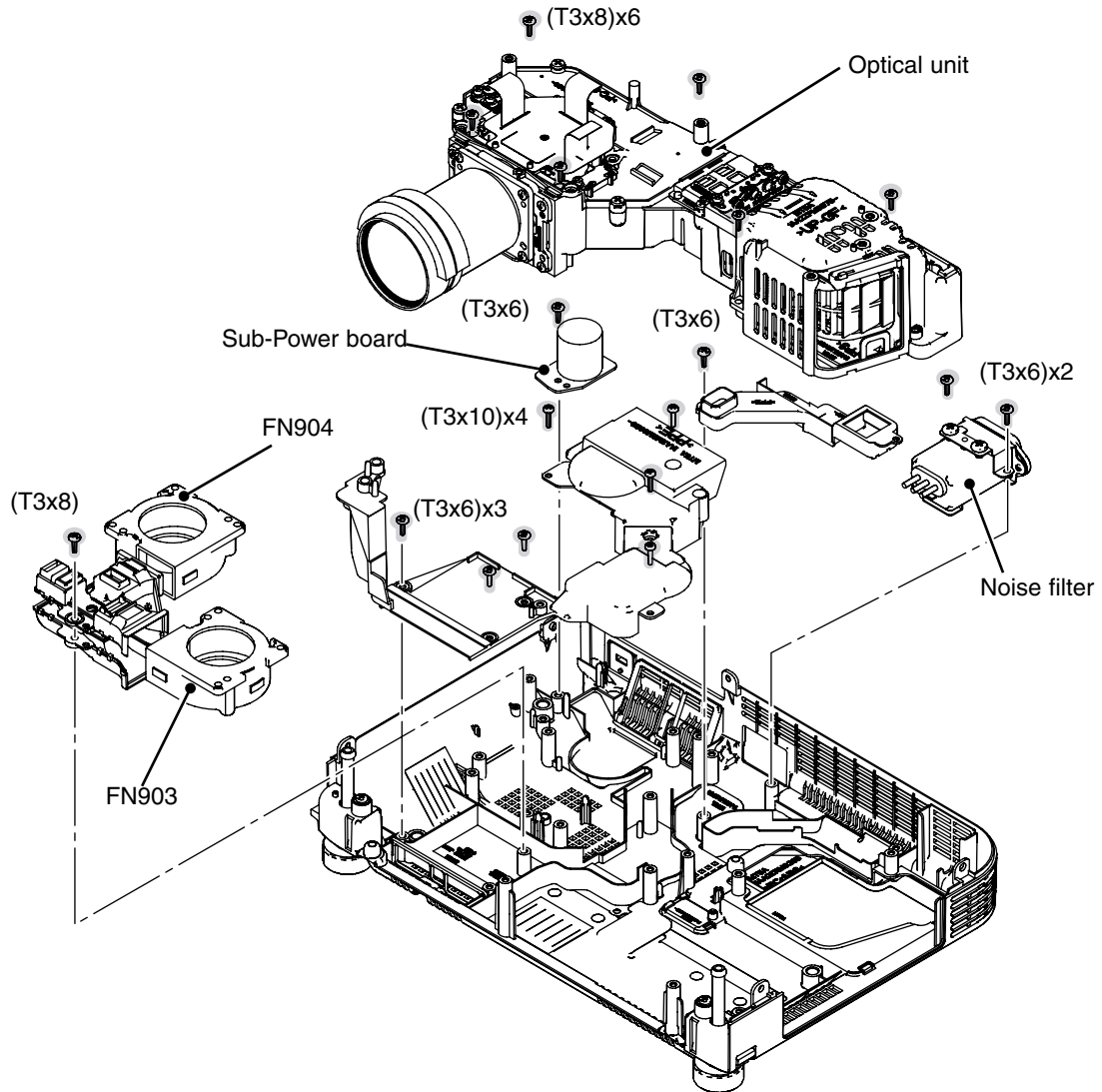


Fig.4

Optical Parts Disassembly

Before taking this procedure, remove Cabinet Top , Cabinet Front and Main Board following to the “Mechanical Disassembly”.

Disassembly requires a 2.0mm hex wrench.

1 Projection lens removal

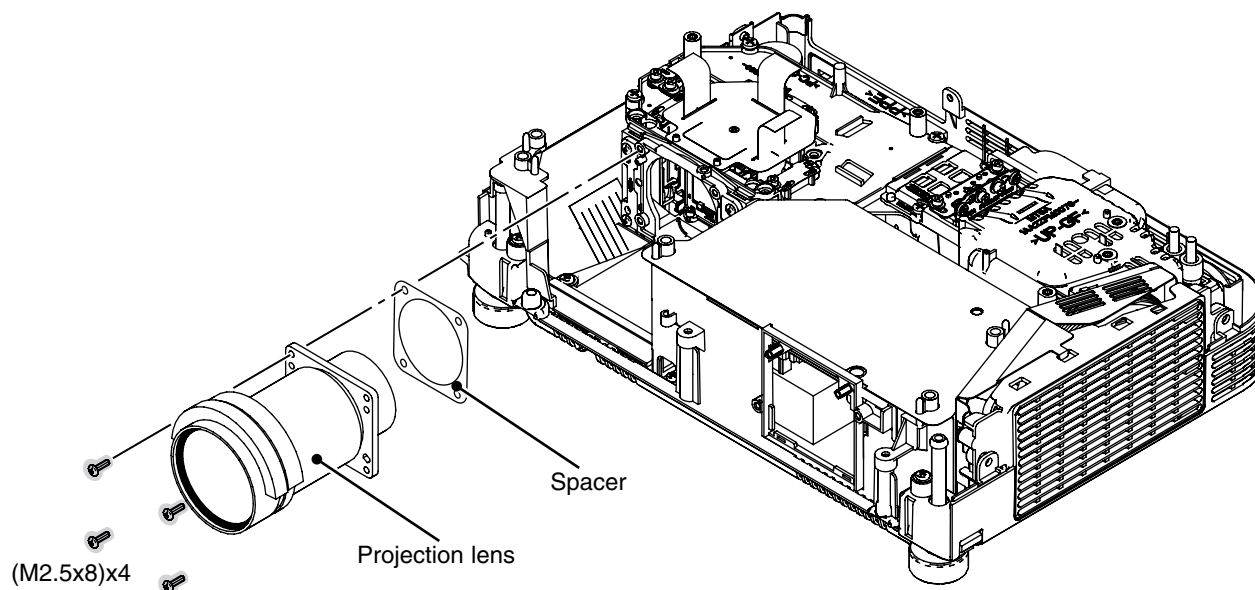


Fig.1

2 Integrator lens-in disassembly

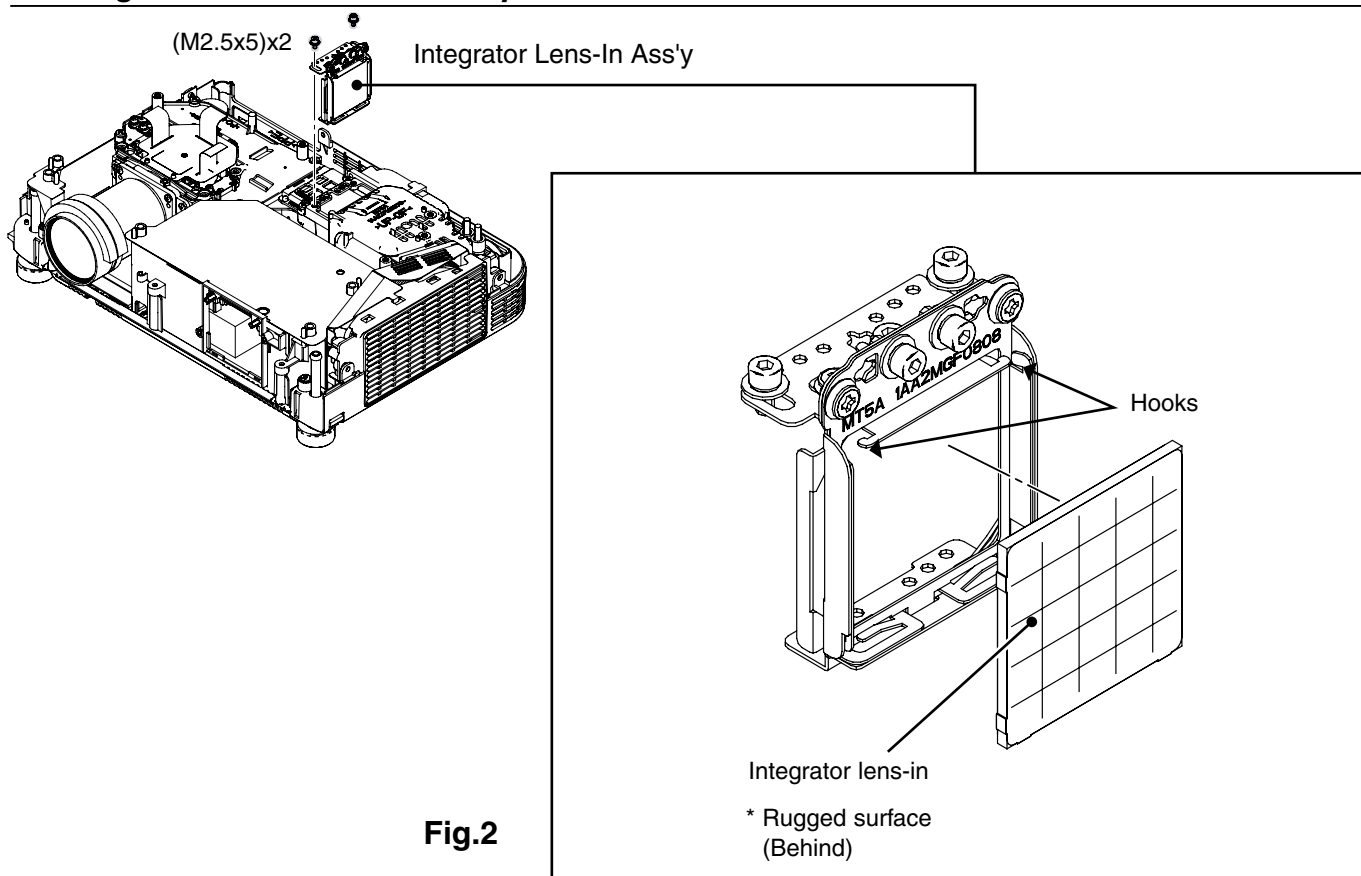


Fig.2

3 Relay lens disassembly

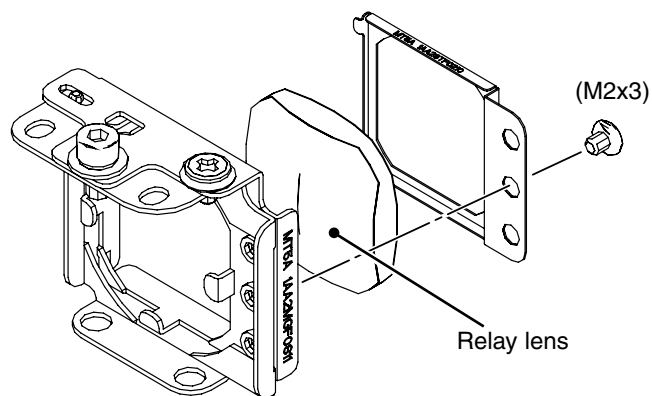
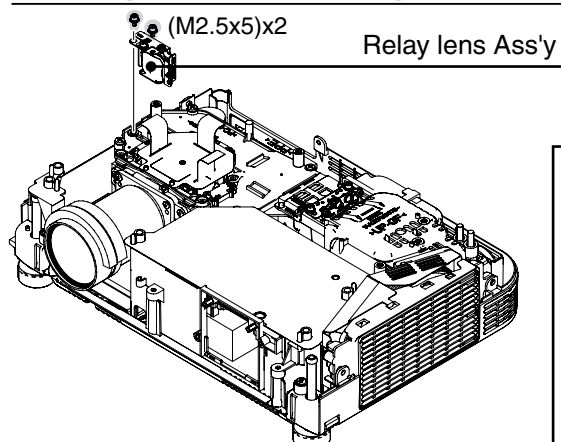


Fig.3

4 Polarized glass-in disassembly

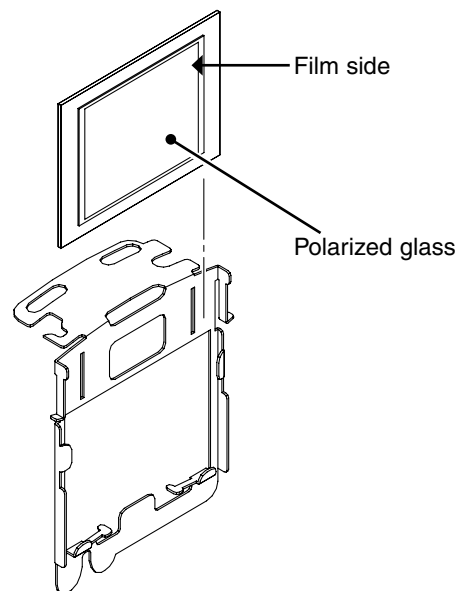
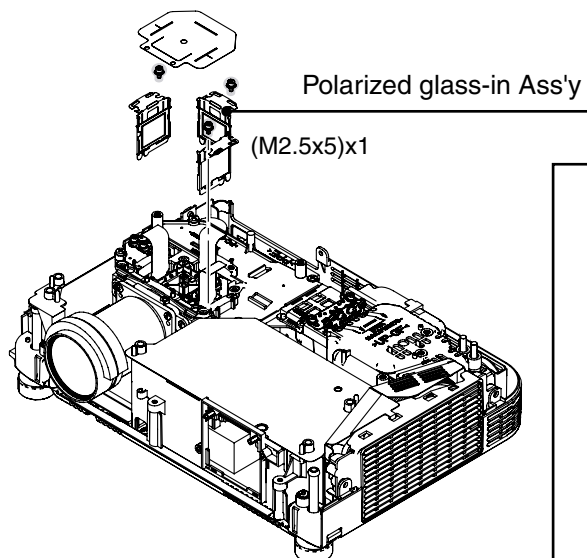


Fig.4

5 LCD Panel/Prism Ass'y removal

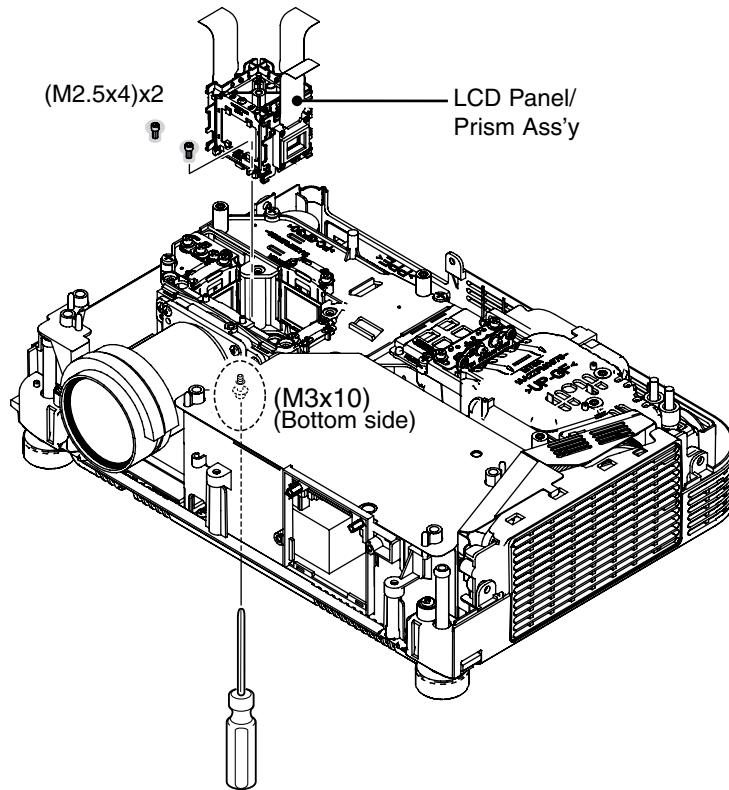


Fig.5

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", "Gamma Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.

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

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

6 Polarized glass, Pre-polarized glass removal

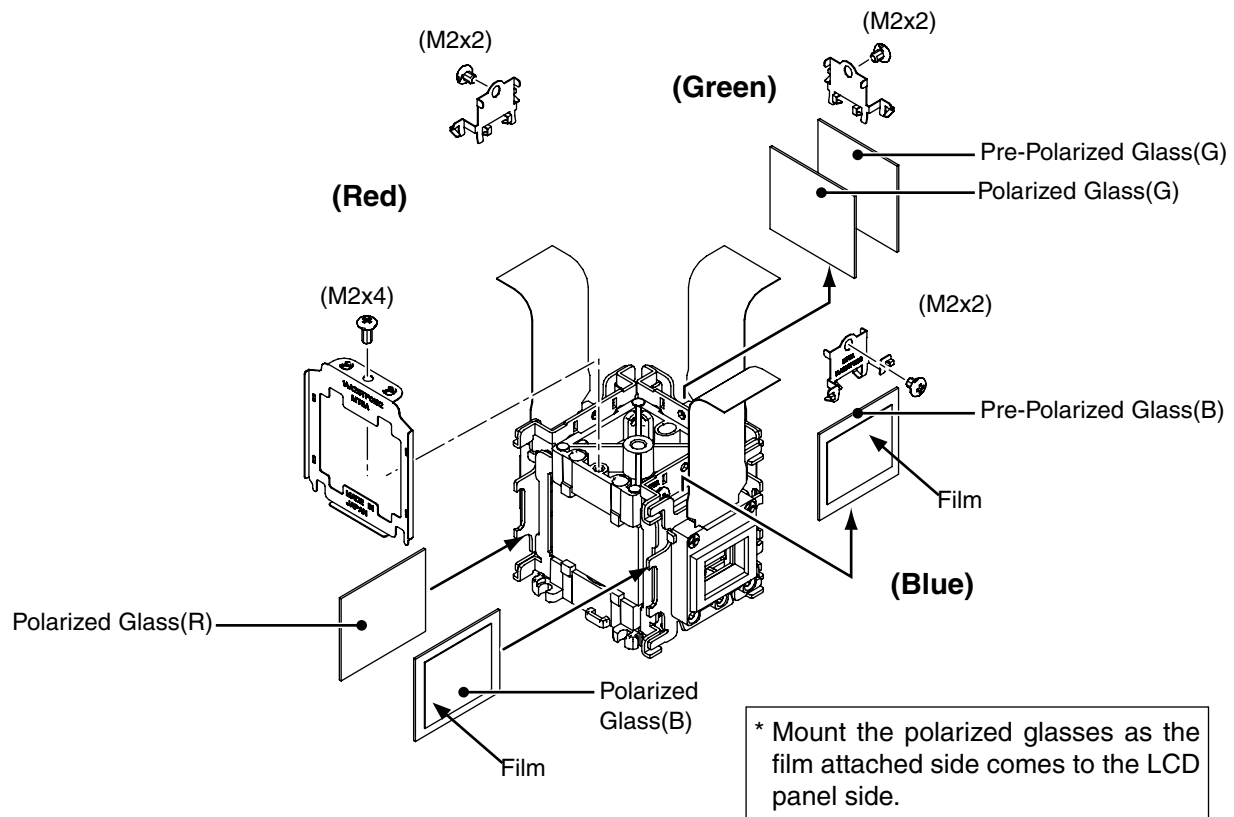


Fig.6

7 Optical Unit Top removal

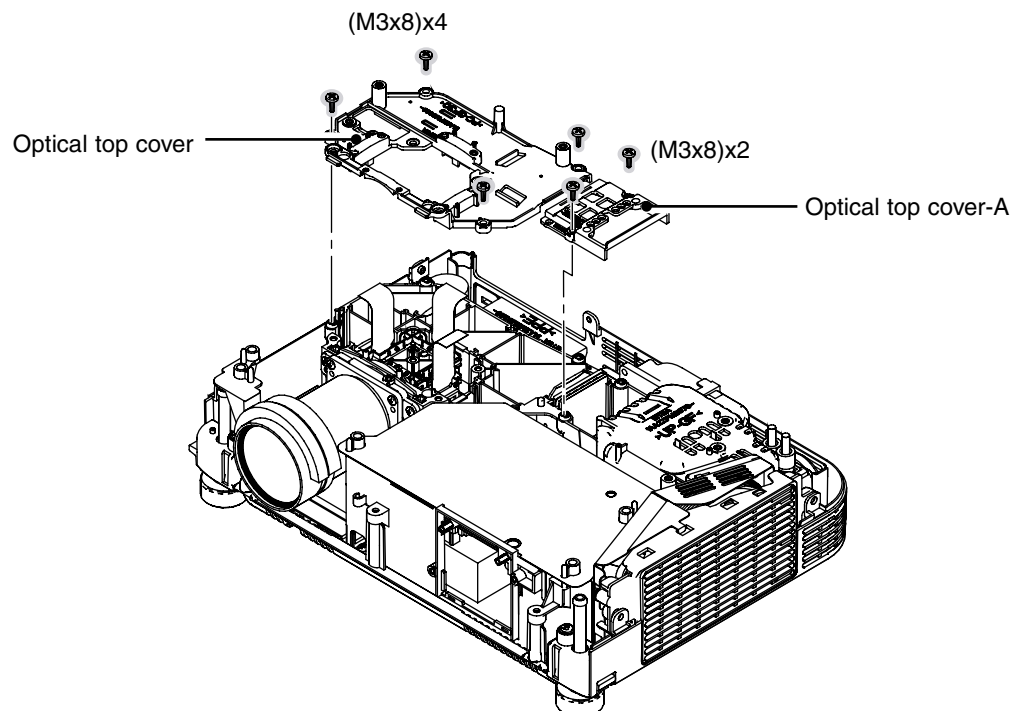


Fig.7

8 Locations and Directions

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

No.	Parts Name
1	Integrator lens (OUT)
2	Prism beam splitter (PBS)
3	Condenser lens (OUT)
4	Dichroic mirror (B)
5	Dichroic mirror (G)
6	Condenser lens (G)
7	Mirror (R)
8	Condenser lens (R)
9	Condenser lens (B)
10	Mirror (B)

The arrows in the figure indicate the mount direction of the part for the replacement. Check the number on the arrows and mount each part according to its note; A: The printed part no. comes to this side. B: Rugged surface comes to this side.

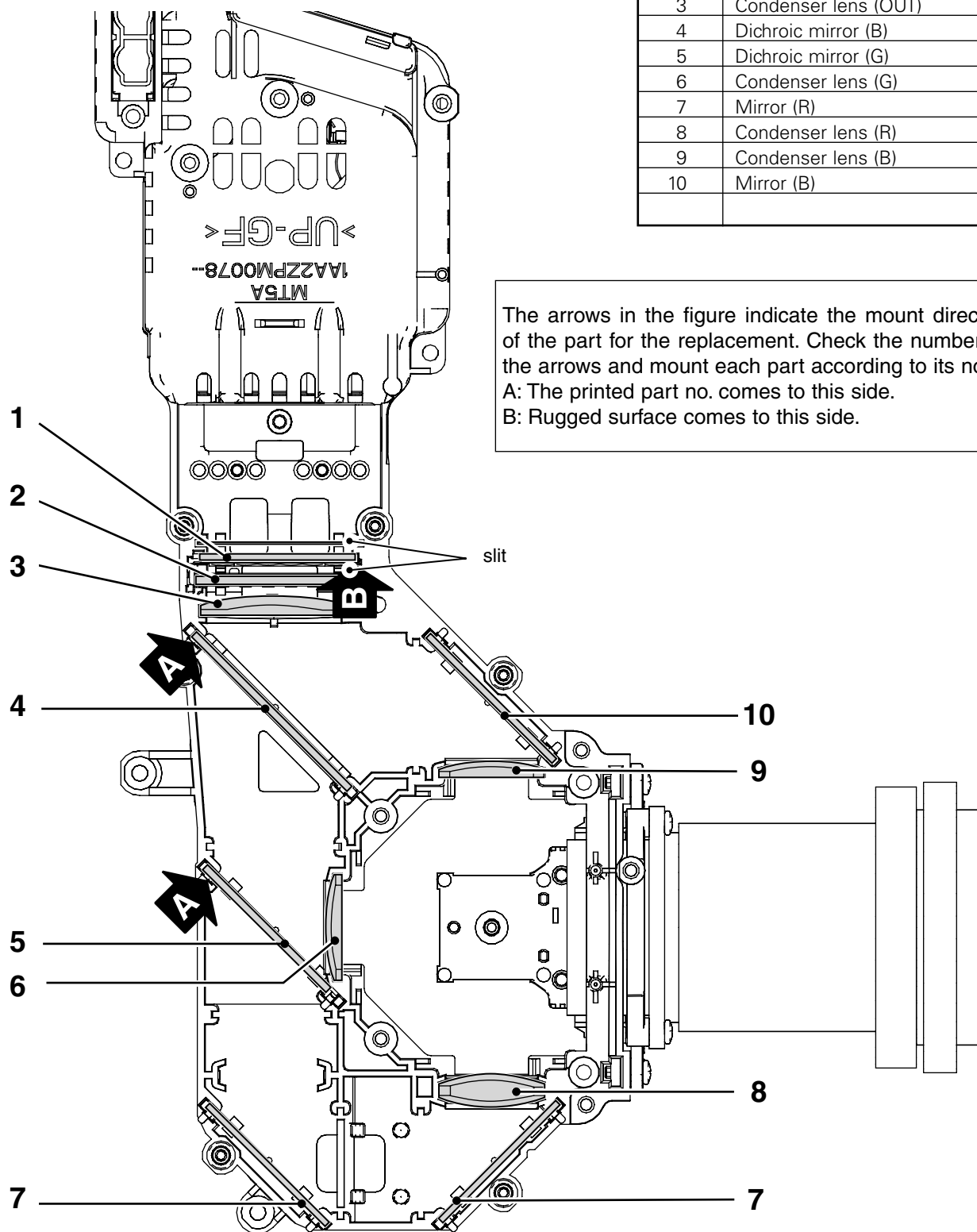


Fig.8

Adjustments

Turning On the Projector

If the PIN code is set on the projector, you cannot use the projector. The PIN code can be reset to the factory default setting (1234) according to the following procedure.

When you reset the PIN code, the Logo PIN code and key lock will be reset, as well.

1. Disconnect the AC power cord from the AC outlet.
2. As pressing the **SELECT** button on the projector, connect the AC power cord into an AC outlet again. Keep pressing the **SELECT** button until the POWER indicator lights continuously.
3. Turn the projector on with the **ON-OFF** button, enter the PIN code "1234" (the factory default setting).

Please refer to the owners manual for further information.

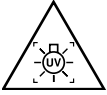
Adjustments after Parts Replacement

● : Adjustment necessary ○ : Check necessary

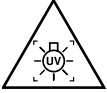
		Disassembly / Replaced Parts							
		LCD/ Prism Ass'y	Integrator Lens (OUT)	Relay Lens (OUT)	Polarized glass			Power Board	Main Board
					R	G	B		
Optical Adjustments	Contrast Adjustment								
	R-Contrast adjustment				●				
	G-Contrast adjustment					●			
	B-Contrast adjustment						●		
	Integrator lens adjustment	○	●						
	Relay lens-out adjustment	○		●					
Electrical Adjustments	Fan control adjustment							●	●
	Pedestal adjustment [PC]								●
	Gain adjustment [PC]								●
	Pedestal adjustment [1080i]								●
	Gain adjustment [1080i]								●
	Gain adjustment [Video]								●
	Black reference adjustment								●
	Common center adjustment	●							●
	50% white adjustment [PC]	●							●
	White balance adjustment [PC]	○							○
	50% white adjustment [Video]	●							●
	White balance adjustment [Video]	○							○
	White uniformity adjustment	○							○

Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the “Mechanical Disassembly”. Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board. Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICEING.



CAUTION:
To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

Contrast adjustment

[Before Adjustment]

- Input a 100% of black raster signal.

- 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.

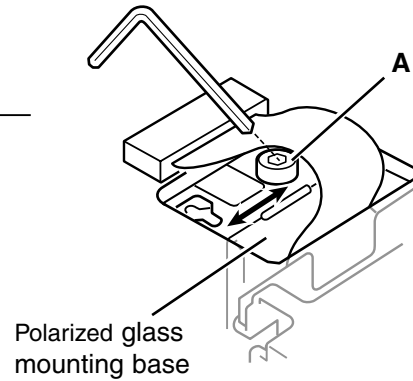


Fig.1-1

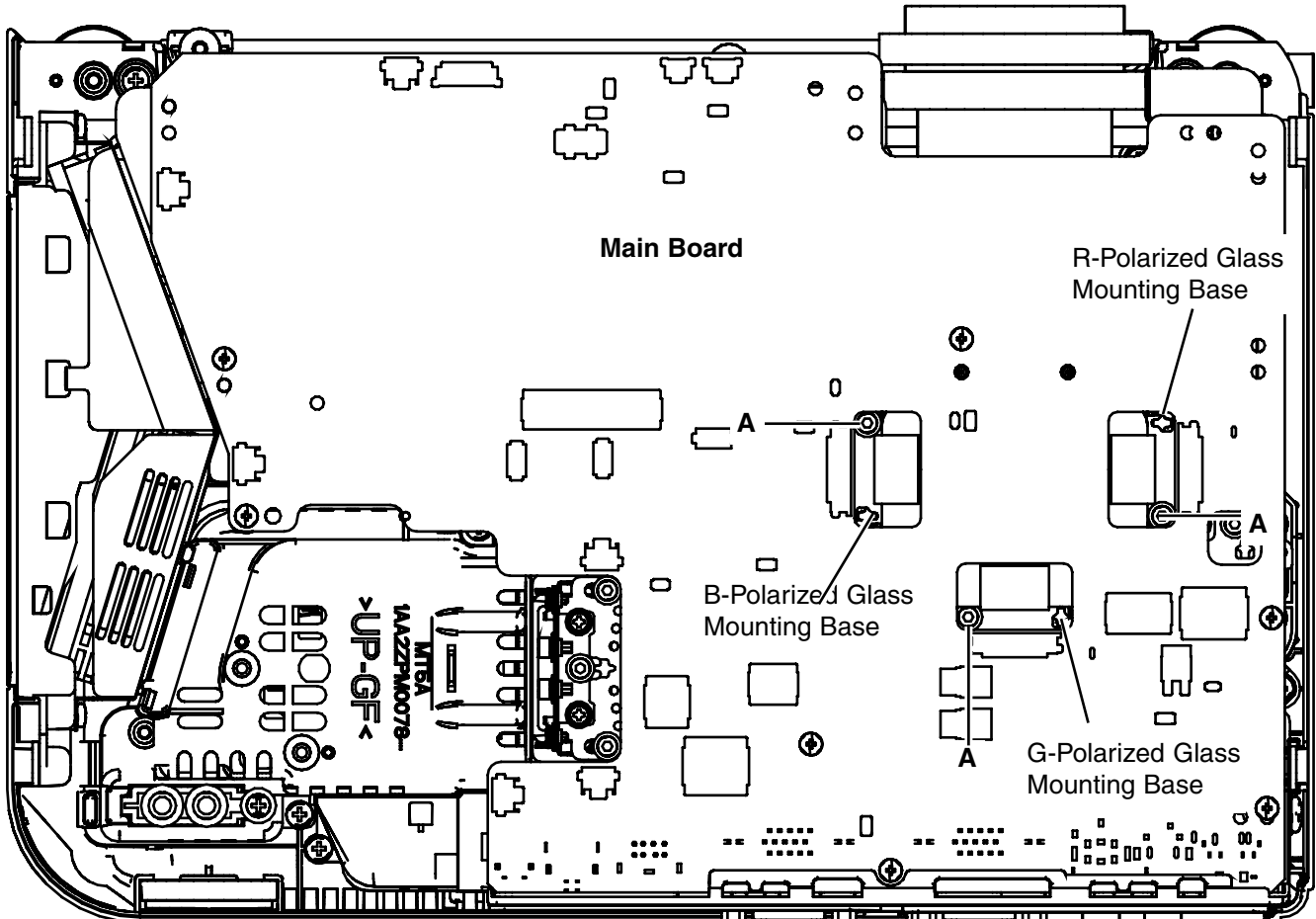


Fig.1-2

Integrator lens adjustment

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

Note:

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

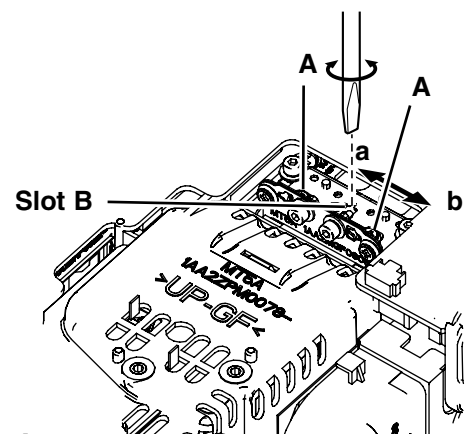
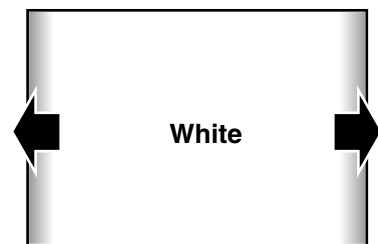
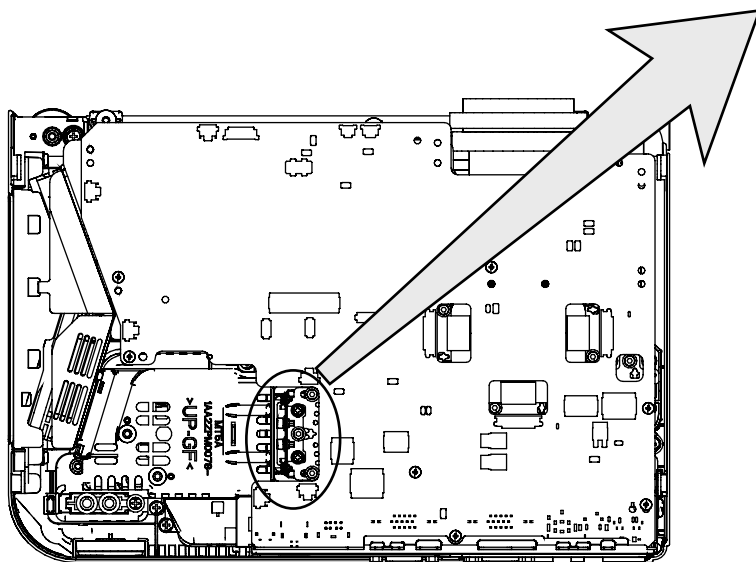


Fig.2-1
Moving of slot B

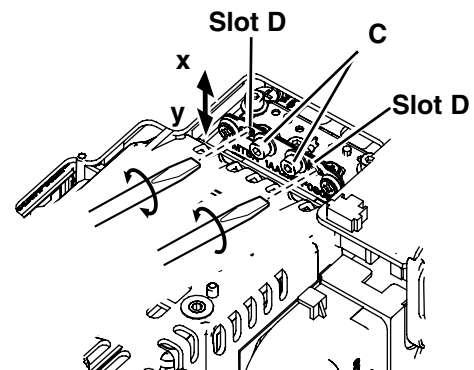
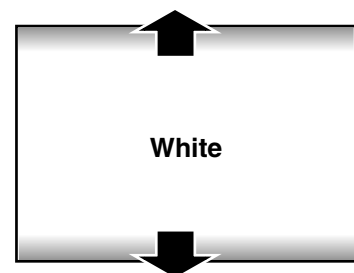


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

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

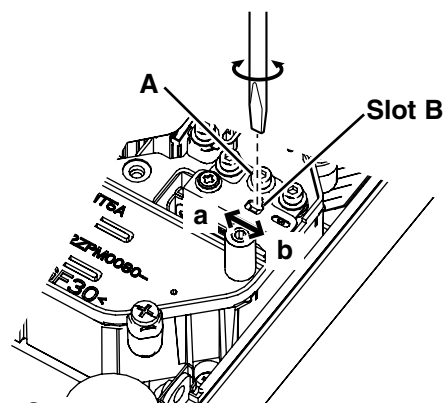
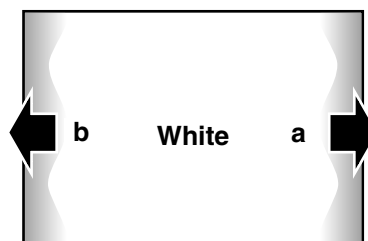
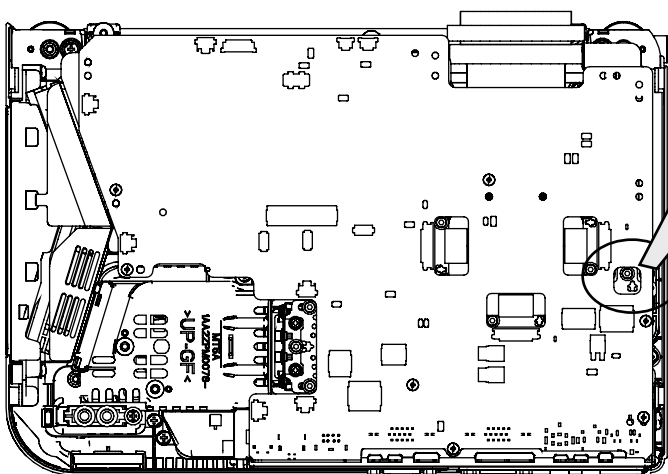


Fig.3
Moving of slot B

Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

To enter the "Service Mode", press and hold the **MENU** and **INPUT** buttons 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

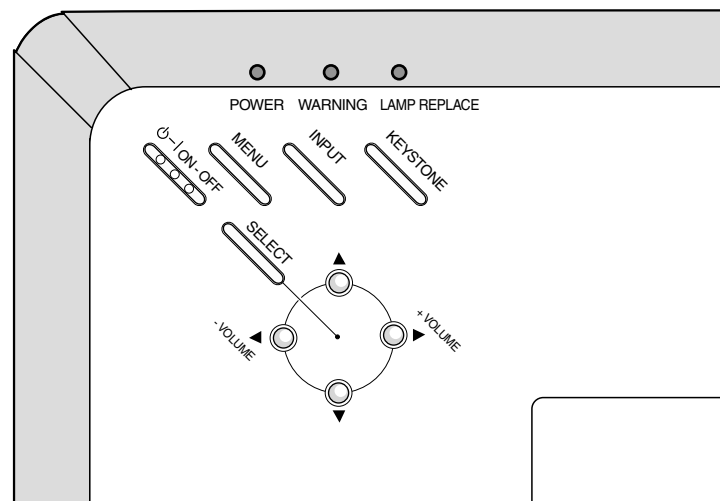
Select the adjustment group no. by pressing the **MENU (+)** or **KEystone (-)** button, and select the adjustment item no. by pressing the pointer **▲** or **▼** button, and change the data value by pressing the **◀** or **▶** button. Refer to the "Service Adjustment Data Table" for further description 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	Video	
Group	No.	Data
0	0	32
Ver.	1	00

Group No. Item No. Data value



Memory IC (IC1371) Replacement

Memory IC 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 Memory IC.

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

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

● Caution to memory IC replacement

When memory IC 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.

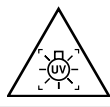
● Caution of Main Board replacement (in the case memory IC is not defective)

When the main board is replaced, memory IC 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".

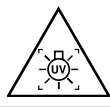
In this case, the lamp replace counter can be kept the value as before.

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.



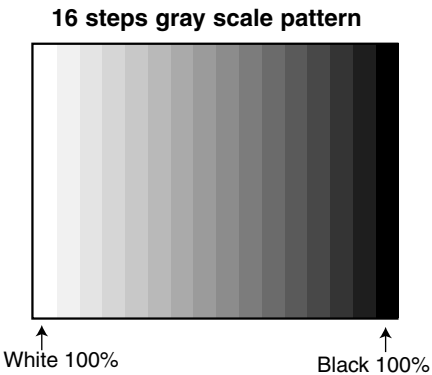
WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICEING.



CAUTION:
To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

[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
 - Component Video signal..... 0.7Vp-p/75Ω terminated, 16 steps gray scale (Component video signal with 480p, 575p, 720p or 1080i format)
- Picture control mode “STANDARD” mode unless otherwise noted.



Note:
* Please refer to “Service Adjustment Menu Operation” for entering the service mode and adjusting the service data.

Output Voltage adjustment

After replacing the Power Board readjust the Output voltage adjustment as follows.

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

AC Input	Reading
230V	380V ±2V

Caution:
Be sure to connect the lamp when taking this adjustment.

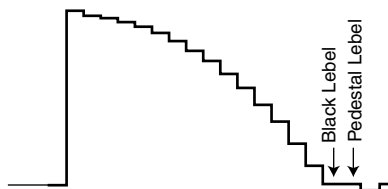
* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1 Fan Control adjustment

1. Set the lamp mode to "Normal" and then enter the service mode.
2. Connect a digital voltmeter to test point “**TPFANA**” (+) and chassis ground (-). Select group no. “**111**”, item no. “**94**” and change data value to adjust voltage to be **5.2 ±0.1V**.
3. Connect a digital voltmeter to test point “**TPFANB**” (+) and chassis ground (-). Select item no. “**96**” and change data value to adjust voltage to be **5.2 ±0.1V**.

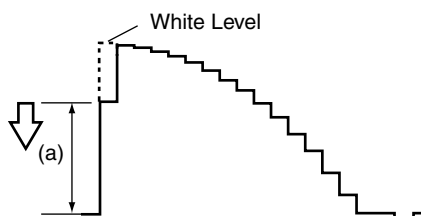
2 Pedestal adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



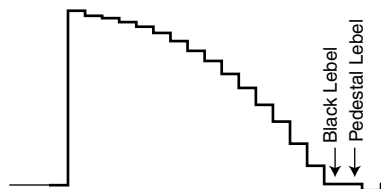
3 Gain adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select item no. "4" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.



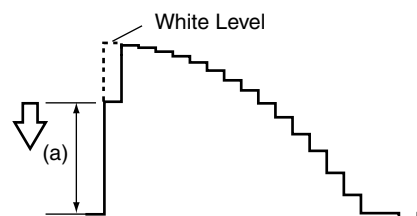
4 Pedestal adjustment [1080i]

1. Receive the 16-step grey scale component signal with **Video [Component1080i]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select group no. "0", item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select group no. "0", item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



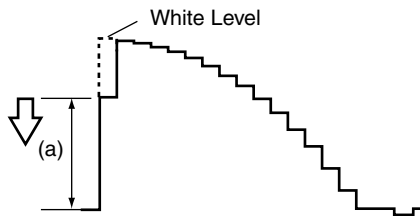
5 Gain adjustment [1080i]

1. Receive the 16-step grey scale component signal with **Video [Component1080i]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "9", item no. "0" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select item no. "1" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select item no. "2" and adjust the amplitude "a" to be minimum by changing the Data value.



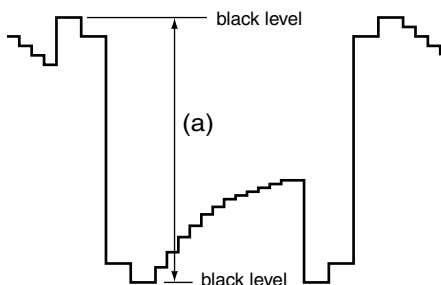
6 Gain adjustment [Video]

1. Receive the 16-step grey scale composite signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "9", item no. "0" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select item no. "1" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select item no. "2" and adjust the amplitude "a" to be minimum by changing the Data value.



7 Black Reference adjustment

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "9", item no. "124" and change data value to adjust amplitude "a" to be $10.0 \pm 0.1V$.
5. Connect an oscilloscope to test point "TPR1" (+) and chassis ground (-).
6. Select item no. "125" and change data value to adjust amplitude "a" to be $10.0 \pm 0.1V$.
7. Connect an oscilloscope to test point "TPB1" (+) and chassis ground (-).
8. Select item no. "126" and change data value to adjust amplitude "a" to be $9.0 \pm 0.1V$.

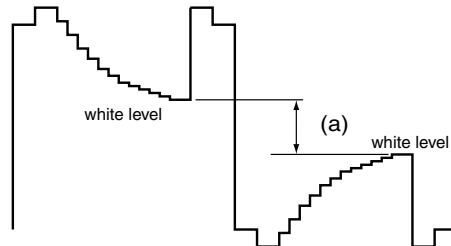


8 Common Center adjustment

1. Receive the 1 line black/white pattern computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Project only green light component to the screen.
4. Select group no. "9", item no. "127" and change data value to obtain the minimum flicker on the screen.
5. Project only red light component to the screen.
6. Select item no. "128" and change data value to obtain the minimum flicker on the screen.
7. Project only blue light component to the screen.
8. Select item no. "129" and change data value to obtain the minimum flicker on the screen.

9 50% White adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TPG1" (+) and chassis ground (-).
4. Select group no. "9", item no. "6" and change data value to adjust amplitude "a" to be $1.6 \pm 0.1V$.



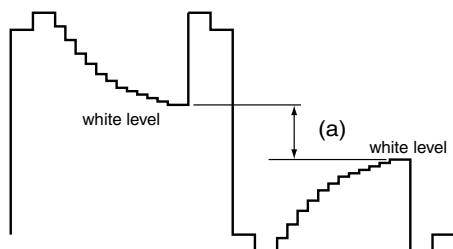
10 White Balance adjustment [PC]

1. Receive the 16-step gray scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode, select group no. "9" item no. "7" (Red) or "8" (Blue), and change Data values respectively to make a proper white balance.

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

11 50% White adjustment [Video]

1. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point “**TPG1**” (+) and chassis ground (-).
4. Select group no. “**9**”, item no. “**6**” and change data value to adjust amplitude “a” to be **2.2 ±0.1V**.



12 White Balance adjustment [Video]

1. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
2. Enter the service mode, select group no. “**9**” item no. “**7**” (Red) or “**8**” (Blue), and change Data values respectively to make a proper white balance.

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

NOTE ON WHITE UNIFORMITY ADJUSTMENT

If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and “Color Shading Correction” software supplied separately.

The software can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

Service Adjustment Data Table

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

Item No.	NAME	Device	SVGA					Range	Description
			PC	Component			Video		
				HDTV	480p	480i	NTSC	PAL	
Group 0	AD9883								
0	ADC G-OFFSET	AD9883	55	55		64		PC/AV 30KHz/AV 15KHz	
1	ADC R-OFFSET	AD9883	55	55		64		PC/AV 30KHz/AV 15KHz	
2	ADC B-OFFSET	AD9883	55	55		64		PC/AV 30KHz/AV 15KHz	
3	ADC G-GAIN	AD9883	70	128		128		PC/AV 30KHz/AV 15KHz	
4	ADC R-GAIN	AD9883	70	128		128		PC/AV 30KHz/AV 15KHz	
5	ADC B-GAIN	AD9883	70	128		128		PC/AV 30KHz/AV 15KHz	
6	ADC BANDWIDTH	AD9883	0	0		0			
10	VCO 0 Thresh MAX	AD9883			32			Maximum frequency to select VCO 0	
11	VCO 1 Thresh MAX	AD9883			58			Maximum frequency to select VCO 1	
12	VCO 2 Thresh MAX	AD9883			110			Maximum frequency to select VCO 2	
13	VCO 3 Thresh MAX	AD9883			255			Maximum frequency to select VCO 3	
20	CPC 0 Thresh MAX (VCO 0)	AD9883			0			Maximum frequency to select CPC0 at VCO 0	
21	CPC 1 Thresh MAX (VCO 0)	AD9883			0			Maximum frequency to select CPC1 at VCO 0	
22	CPC 2 Thresh MAX (VCO 0)	AD9883			15			Maximum frequency to select CPC2 at VCO 0	
23	CPC 3 Thresh MAX (VCO 0)	AD9883			18			Maximum frequency to select CPC3 at VCO 0	
24	CPC 4 Thresh MAX (VCO 0)	AD9883			23			Maximum frequency to select CPC4 at VCO 0	
25	CPC 5 Thresh MAX (VCO 0)	AD9883			32			Maximum frequency to select CPC5 at VCO 0	
26	CPC 6 Thresh MAX (VCO 0)	AD9883			255			Maximum frequency to select CPC6 at VCO 0	
27	CPC 7 Thresh MAX (VCO 0)	AD9883			255			Maximum frequency to select CPC7 at VCO 0	
30	CPC 0 Thresh MAX (VCO 1)	AD9883			0			Maximum frequency to select CPC0 at VCO 1	
31	CPC 1 Thresh MAX (VCO 1)	AD9883			0			Maximum frequency to select CPC1 at VCO 1	
32	CPC 2 Thresh MAX (VCO 1)	AD9883			0			Maximum frequency to select CPC2 at VCO 1	
33	CPC 3 Thresh MAX (VCO 1)	AD9883			0			Maximum frequency to select CPC3 at VCO 1	
34	CPC 4 Thresh MAX (VCO 1)	AD9883			0			Maximum frequency to select CPC4 at VCO 1	
35	CPC 5 Thresh MAX (VCO 1)	AD9883			48			Maximum frequency to select CPC5 at VCO 1	
36	CPC 6 Thresh MAX (VCO 1)	AD9883			65			Maximum frequency to select CPC6 at VCO 1	
37	CPC 7 Thresh MAX (VCO 1)	AD9883			255			Maximum frequency to select CPC7 at VCO 1	
40	CPC 0 Thresh MAX (VCO 2)	AD9883			0			Maximum frequency to select CPC0 at VCO 2	
41	CPC 1 Thresh MAX (VCO 2)	AD9883			0			Maximum frequency to select CPC1 at VCO 2	
42	CPC 2 Thresh MAX (VCO 2)	AD9883			0			Maximum frequency to select CPC2 at VCO 2	
43	CPC 3 Thresh MAX (VCO 2)	AD9883			0			Maximum frequency to select CPC3 at VCO 2	
44	CPC 4 Thresh MAX (VCO 2)	AD9883			0			Maximum frequency to select CPC4 at VCO 2	
45	CPC 5 Thresh MAX (VCO 2)	AD9883			75			Maximum frequency to select CPC5 at VCO 2	
46	CPC 6 Thresh MAX (VCO 2)	AD9883			95			Maximum frequency to select CPC6 at VCO 2	
47	CPC 7 Thresh MAX (VCO 2)	AD9883			255			Maximum frequency to select CPC7 at VCO 2	
50	CPC 0 Thresh MAX (VCO 3)	AD9883			0			Maximum frequency to select CPC0 at VCO 3	
51	CPC 1 Thresh MAX (VCO 3)	AD9883			0			Maximum frequency to select CPC1 at VCO 3	
52	CPC 2 Thresh MAX (VCO 3)	AD9883			0			Maximum frequency to select CPC2 at VCO 3	
53	CPC 3 Thresh MAX (VCO 3)	AD9883			0			Maximum frequency to select CPC3 at VCO 3	
54	CPC 4 Thresh MAX (VCO 3)	AD9883			0			Maximum frequency to select CPC4 at VCO 3	
55	CPC 5 Thresh MAX (VCO 3)	AD9883			0			Maximum frequency to select CPC5 at VCO 3	
56	CPC 6 Thresh MAX (VCO 3)	AD9883			140			Maximum frequency to select CPC6 at VCO 3	
57	CPC 7 Thresh MAX (VCO 3)	AD9883			255			Maximum frequency to select CPC7 at VCO 3	
60	PRECOAST (PC)	AD9883			3				
61	POSTCOAST(PC)	AD9883			3				
62	PRECOAST (PC Video)	AD9883			10				
63	POSTCOAST(PC Video)	AD9883			4				
64	PRECOAST (Component)	AD9883			10			Maximum frequency to select CPC6 at VCO 3	
65	POSTCOAST(Component)	AD9883			4			Maximum frequency to select CPC7 at VCO 3	
Group 1	UPD64012								
0	Version (R)	UPD64012			--			Read Only	
1	Set Color (R)	uPD64012			--			Read Only	
2	SIGINF (R)	uPD64012			--			Read Only	
3	INTPRG (R)	uPD64012			--			Read Only	
4	HSLCK (R)	uPD64012			--			Read Only	
5	ISIGINF (R)	uPD64012			--			Read Only	
6	PSIGINF (R)	uPD64012			--			Read Only	
7	IMODE	uPD64012			0				
8	RGB_MIX	uPD64012			0				
9	AUTOCLR	uPD64012			1				
10	SIGDETLV	uPD64012			1				
11	SIGON	uPD64012			1				
12	SIGOFF	uPD64012			0				
13	TV50F	uPD64012			0				
14	TV60F	uPD64012			0				
15	SETINT	uPD64012			1				
16	SETPRG	uPD64012			0				
17	COLORM	uPD64012			0				
18	KILOFFT	uPD64012			0				
19	UNLINC	uPD64012			0				

Electrical Adjustments

Item No.	NAME	Device	SVGA					Range	Description	
			PC	Component			Video			
				HDTV	480p	480i	NTSC			PAL
	20	DETOUT	uPD64012			3				
	21	DETTIM	uPD64012			3				
	22	CLKVA	uPD64012			1				
	23	CLKKLL	uPD64012			40				
	24	CODDEN	uPD64012			0				
	25	CRDLY	uPD64012			1				
	26	PHBDL	uPD64012			0				
	27	PHRDL	uPD64012			0				
	28	CBOFS	uPD64012			0				
	29	CROFS	uPD64012			0				
	30	FRCENY	uPD64012			0				
	31	FRCENC	uPD64012			0				
	32	DLYCTL	uPD64012			8				
	33	OUTBITW	uPD64012			0				
	34	CLKOINV	uPD64012			1				
	35	RDOSEL	uPD64012			0				
	36	SQCBCR	uPD64012			0				
	37	ACTVH	uPD64012			128				
	38	HPOSI	uPD64012			128				
	39	HSPOS	uPD64012			132				
	40	HSWID	uPD64012			64				
	41	FSTAV	uPD64012			0				
	42	VSPOS	uPD64012			64				
	43	VSWID	uPD64012			2				
	44	VBKFAL	uPD64012			260				
	45	VBKRIS	uPD64012			16				
	46	INBKENA	uPD64012			0				
	47	YBLK	uPD64012			0				
	48	SYNCSEL	uPD64012			1				
	49	VDSEL	uPD64012			1				
	50	HSPOL	uPD64012			1				
	51	VSPOL	uPD64012			1				
	52	FIELDPOL	uPD64012			1				
	53	INHBKST	uPD64012			715				
	54	INHBKEN	uPD64012			853				
	55	INVBKST	uPD64012			260				
	56	INVBKEN	uPD64012			16				
	57	FLDTHR	uPD64012			0				
	58	FILDIV	uPD64012			0				
	59	TSRTCNV	uPD64012			1				
				VIDEO NTSC/PAL	S-VIDEO NTSC/PAL	YCBCR 480i/575i	SCART 480i/575i			
	60	R_GAIN	uPD64012	22	22	22	10			
	61	G_GAIN	uPD64012	22	22	22	17			
	62	B_GAIN	uPD64012	22	22	22	10			
	63	FLTSEL	uPD64012			0				
	64	PEDIIRS2	uPD64012			0				
	65	SBCNT2	uPD64012			32				
	66	CBGAIN	uPD64012			32				
	67	CRGAIN	uPD64012			32				
	68	YGCAUTO	uPD64012			0				
	69	YGCVAL	uPD64012			58				
	70	YGCOFF	uPD64012			0				
	71	YGCMVS	uPD64012			0				
	72	YPGAINS	uPD64012			2				
	73	YGCAVAL	uPD64012			9				
	74	MAXIIRS	uPD64012			0				
	75	PEDIIRS	uPD64012			0				
	76	YGCMODE1	uPD64012			0				
	77	YGCMODE2	uPD64012			0				
	78	YGCIRS	uPD64012			1				
	79	YCSV	uPD64012			0				
	80	YCOMA	uPD64012			2				
	81	YCOMB	uPD64012			2				
	82	YCSHY	uPD64012			0				
	83	YCSHC	uPD64012			0				
	84	COBPFOFF	uPD64012			0				
	85	YCSCOF	uPD64012			4				
	86	YCSSY	uPD64012			0				
	87	VLTYPE	uPD64012			1				
	88	YCSCC	uPD64012			0				
	89	VAPONV	uPD64012			0				
	90	VAPG	uPD64012			4				
	91	VAPI	uPD64012			16				
	92	PALCFIL	uPD64012			0				
	93	YCSY2F	uPD64012			3				
	94	TRF	uPD64012			0				
	95	TRGAIN	uPD64012			0				
	96	TRPAL	uPD64012			0				
	97	APCGAIN	uPD64012			1				

Electrical Adjustments

Item No.	NAME	Device	SVGA					Range	Description	
			PC	Component			Video			
				HDTV	480p	480i	NTSC			PAL
	98	ACCGAIN	uPD64012	1						
	99	ACCLIM	uPD64012	8						
	100	STNTSCM	uPD64012	0						
	101	STPALD	uPD64012	0						
				VIDEO	S-VIDEO	YCBCR	SCART			
				NTSC / PAL	NSTC / PAL	480i / 575i	480i / 575i			
	102	SBCNT	uPD64012	109 / 111	106 / 108	119 / 118	118 / 118			
	103	SBCLRU	uPD64012	128	128	128	141			
	104	SBCLRV	uPD64012	128	128	128	141			
	105	YCONR	uPD64012	0						
	106	CCONR	uPD64012	0						
	107	YCORB	uPD64012	0						
	108	YCOREN	uPD64012	1						
	109	YCORH	uPD64012	0						
	110	CCORB	uPD64012	0						
	111	CCOREN	uPD64012	0						
	112	LTIGAIN	uPD64012	0						
	113	CTIGAIN	uPD64012	0						
	114	LTITAP	uPD64012	2						
	115	LTICORE	uPD64012	3						
	116	CTITAP	uPD64012	2						
	117	CTICORE	uPD64012	3						
	118	SHPGAIN	uPD64012	176						
	119	SHPCCHAR	uPD64012	2						
	120	SHPCORE	uPD64012	0						
	121	BRIGHT	uPD64012	512						
	122	OFRY	uPD64012	32						
	123	COLORG	uPD64012	128						
	124	HUE	uPD64012	128						
	125	CONT	uPD64012	128						
	126	APLWID	uPD64012	0						
	127	APLCOE	uPD64012	5						
	128	DCREGAIN	uPD64012	8						
	129	BLENGAIN	uPD64012	16						
	130	ABLENST	uPD64012	0						
	131	BLEXST	uPD64012	0						
	132	GAMGAIN	uPD64012	0						
	133	AGAMGAIN	uPD64012	0						
	134	GAMST	uPD64012	255						
	135	BLENCTL	uPD64012	0						
	136	YGACTL	uPD64012	0						
	137	ACLSEN	uPD64012	0						
	138	ACLST	uPD64012	255						
	139	YVBCTL	uPD64012	1						
	140	CRLPF	uPD64012	1						
	141	CBLPF	uPD64012	1						
	142	KILLV	uPD64012	8						
	143	KILLVCTL	uPD64012	9						
	144	VLIIM	uPD64012	0						
	145	VDCOR	uPD64012	0						
Group 9	PANEL CONTROL									
	0	G-SubGain	L3E7072K0A	512	640	525			When adjusting G, the value of R and B changes together	
	1	R-SubGain	L3E7072K0A	512	640	525				
	2	B-SubGain	L3E7072K0A	512	640	525				
	3	G-SubBright	L3E7072K0A			0				
	4	R-SubBright	L3E7072K0A			0				
	5	B-SubBright	L3E7072K0A			0				
	6	G-GammaShift	L3E7072K0A	512	512				When adjusting G, the value of R and B changes together DVI links PC, HDCP links AV	
	7	R-GammaShift	L3E7072K0A	512	512					
	8	B-GammaShift	L3E7072K0A	512	512					
	9	R_ReferH(NRS Level)	L3E7072K0A		Normal:880/Rear:880				When adjusting G, the value of R and B changes together	
	10	G_ReferH(NRS Level)	L3E7072K0A		Normal:880/Rear:880					
	11	B_ReferH(NRS Level)	L3E7072K0A		Normal:880/Rear:880					
	12	R_ReferL(NRS Level)	L3E7072K0A		Normal:287/Rear:287				When adjusting G, the value of R and B changes together	
	13	G_ReferL(NRS Level)	L3E7072K0A		Normal:287/Rear:287					
	14	B_ReferL(NRS Level)	L3E7072K0A		Normal:143/Rear:143					
	15	DXOUTR (H-Screen Position)	L3E7072K0A		322				Auto Ghost adjustment	
	16	DXOUTG (H-Screen Position)	L3E7072K0A		322				Auto Ghost adjustment	
	17	DXOUTB (H-Screen Position)	L3E7072K0A		322				Auto Ghost adjustment	
	18	ENBX*R Phase	L3E7072K0A		14					
	19	ENBX*G Phase	L3E7072K0A		14					
	20	ENBX*B Phase	L3E7072K0A		14					
	21	ENBX*(RGB) Width	L3E7072K0A		6					
	22	h_change_pos(CLY H-Position)	L3E7072K0A		20					
	23	DYOUTR (V-Screen Position)	L3E7072K0A		6					
	24	DYOUTG (V-Screen Position)	L3E7072K0A		6					
	25	DYOUTB (V-Screen Position)	L3E7072K0A		6					
	26	dxout_base_pos	L3E7072K0A		0				Auto Ghost adjustment	
	27	sh_base_pos_b(SH Position)	L3E7072K0A		819					

Electrical Adjustments

Item No.	NAME	Device	SVGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
28	NRG Position	L3E7072K0A			41					
29	NRG Width	L3E7072K0A			72					
30	OSD (Insert Position)	L3E7072K0A			2					
31	OSD (pattern Selection)	L3E7072K0A			0					
32	GAMMA(ON/OFF)	L3E7072K0A			1					
33	ref_gate_pos(NRS Position)	L3E7072K0A			45					
34	ref_gate_dur(NRS Width)	L3E7072K0A			109					
35	gray_on	L3E7072K0A			7					
36	Other Correction	L3E7072K0A			0					
37	Whole Area Crosstalk Corr. EN	L3E7072K0A			0					
38	DC Offset Corr. for V-line Shade E	L3E7072K0A			0					
39	Offset Corr. For V-line Shade EN	L3E7072K0A			Normal:1/Rear:1					
40	V-Line Shade BLSP_EN	L3E7072K0A			Normal:1/Rear:1					
41	Sequential Ghost Correction EN	L3E7072K0A			Normal:1/Rear:1					
42	Block Ghost Correction EN	L3E7072K0A			1					
43	Reverse Ghost Correction EN	L3E7072K0A			0					
44	Back Porch Crosstalk Corr. EN	L3E7072K0A			1					
45	R_base_pos	L3E7072K0A			4					When adjusting G, the value of R and B changes together
46	G_base_pos	L3E7072K0A			12					
47	B_base_pos	L3E7072K0A			4					
48	RGB_adjust	L3E7072K0A			0					
49	RGB_level	L3E7072K0A			0					
50	V-Line Shade Corr. Set [R0]	L3E7072K0A			7					
51	V-Line Shade Corr. Set [R1]	L3E7072K0A			3					
52	V-Line Shade Corr. Set [R2]	L3E7072K0A			1					
53	V-Line Shade Corr. Set [R3]	L3E7072K0A			0					
54	V-Line Shade Corr. Set [R4]	L3E7072K0A			253					
55	V-Line Shade Corr. Set [G0]	L3E7072K0A			252					
56	V-Line Shade Corr. Set [G1]	L3E7072K0A			252					
57	V-Line Shade Corr. Set [G2]	L3E7072K0A			255					
58	V-Line Shade Corr. Set [G3]	L3E7072K0A			0					
59	V-Line Shade Corr. Set [G4]	L3E7072K0A			253					
60	V-Line Shade Corr. Set [B0]	L3E7072K0A			7					
61	V-Line Shade Corr. Set [B1]	L3E7072K0A			3					
62	V-Line Shade Corr. Set [B2]	L3E7072K0A			1					
63	V-Line Shade Corr. Set [B3]	L3E7072K0A			0					
64	V-Line Shade Corr. Set [B4]	L3E7072K0A			253					
65	Ghost_R_pos (Sequence)	L3E7072K0A			4					When adjusting G, the value of R and B changes together
66	Ghost_G_pos (Sequence)	L3E7072K0A			4					
67	Ghost_B_pos (Sequence)	L3E7072K0A			4					
68	Ghost_R_center	L3E7072K0A			5					When adjusting G, the value of R and B changes together
69	Ghost_R_start	L3E7072K0A			128					
70	Ghost_R_end	L3E7072K0A			128					
71	Ghost_G_center	L3E7072K0A			5					When adjusting G, the value of R and B changes together
72	Ghost_G_start	L3E7072K0A			128					
73	Ghost_G_end	L3E7072K0A			128					
74	Ghost_B_center	L3E7072K0A			5					When adjusting G, the value of R and B changes together
75	Ghost_B_start	L3E7072K0A			128					
76	Ghost_B_end	L3E7072K0A			128					
77	R-Block Ghost	L3E7072K0A			3					When adjusting G, the value of R and B changes together
78	G-Block Ghost	L3E7072K0A			3					
79	B-Block Ghost	L3E7072K0A			3					
80	R_base_level (Block)	L3E7072K0A			80					Reserved
81	G_base_level (Block)	L3E7072K0A			0					Reserved
82	B_base_level (Block)	L3E7072K0A			0					Reserved
83	Ghost_R_pos (Reverse)	L3E7072K0A			3					When adjusting G, the value of R and B changes together
84	Ghost_G_pos (Reverse)	L3E7072K0A			3					
85	Ghost_B_pos (Reverse)	L3E7072K0A			3					
86	R_base_level (Reverse)	L3E7072K0A			0					
87	G_base_level (Reverse)	L3E7072K0A			0					
88	B_base_level (Reverse)	L3E7072K0A			0					
89	C_TALK R	L3E7072K0A			1022					
90	C_TALK G	L3E7072K0A			1022					
91	C_TALK B	L3E7072K0A			1022					
92	C_TALK_R_level	L3E7072K0A			730					
93	C_TALK_G_level	L3E7072K0A			730					
94	C_TALK_B_level	L3E7072K0A			730					
95	C_TALK R_CENT	L3E7072K0A			5					When adjusting G, the value of R and B changes together
96	C_TALK R_START	L3E7072K0A			128					
97	C_TALK R_END	L3E7072K0A			128					
98	C_TALK G_CENT	L3E7072K0A			5					When adjusting G, the value of R and B changes together
99	C_TALK G_START	L3E7072K0A			128					
100	C_TALK G_END	L3E7072K0A			128					
101	C_TALK B_CENT	L3E7072K0A			5					When adjusting G, the value of R and B changes together
102	C_TALK B_START	L3E7072K0A			128					
103	C_TALK B_END	L3E7072K0A			128					
104	lccorn_correct_select	L3E7072K0A			16					
105	Hori Start	L3E7072K0A			187					
106	Vert Start	L3E7072K0A			15					
107	Hori End	L3E7072K0A			985					

Electrical Adjustments

Item No.	NAME	Device	SVGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
	108	Vert End	L3E7072K0A			614				
	109	R_MIN	L3E7072K0A			335				
	110	R_MID2	L3E7072K0A			508				
	111	R_MID1	L3E7072K0A			636				
	112	R_MAX	L3E7072K0A			700				
	113	G_MIN	L3E7072K0A			335				
	114	G_MID2	L3E7072K0A			508				
	115	G_MID1	L3E7072K0A			636				
	116	G_MAX	L3E7072K0A			700				
	117	B_MIN	L3E7072K0A			335				
	118	B_MID2	L3E7072K0A			508				
	119	B_MID1	L3E7072K0A			636				
	120	B_MAX	L3E7072K0A			700				
	121	G_V1 (DAC)	M62398FP			100				
	122	R_V1 (DAC)	M62398FP			100				
	123	B_V1 (DAC)	M62398FP			100				
	124	REF_G (DAC)	M62398FP			203				
	125	REF_R (DAC)	M62398FP			203				
	126	REF_B (DAC)	M62398FP			198				
	127	G_LCCOM (L3E06100)	L3E6100			90				
	128	R_LCCOM (L3E06100)	L3E6100			90				
	129	B_LCCOM (L3E06100)	L3E6100			90				
	130	SyncPosition	L3E7072K0A			0				Link with 9-131
	131	SyncVideoPosition	L3E7072K0A			0				Link with 9-130
	132	Color Shading SW	L3E7072K0A			1				Color Shading Correction, 0: Off, 1: On (Not memorized)
Group 100	OPTION (Lamo Time, Service Port etc)									
	1	RS232C Baudrate	PW185B			0				0 : 19200bps 1: 9600bps
	5	PW Debug Command Enable	PW185B			1				0:Disable 1:Enable(Sanyo Serial Command Disable)(Not memorized)
	6	Device Refresh Disable	PW185B			0				0:Enable 1:Disable(Not memorized)
	10	Syukka SW	EEPROM			0				Reset all user controls to default when value becomes 10.
	12	RC Enable/Disable	RC			0				Remote Control 0:On 1:Off
	20	Projector Time Reset	PW185B			0			0-20	Resets Projector time when the value is set to 10.
	21	Lamp Warning Time (NORMAL)	PW185B			1000			0-10000	Normal lamp warning time
	22	Lamp Warning Time (ECO)	PW185B			2000			0-10000	Eco lamp warning time
	30	Lamp life test enable	PW185B			0				0: Disable 1: Enable
	31	Lamp On time (for lamp test)	PW185B			1				
	32	Lamp Off time (for lamp test)	PW185B			4				
	33	Lamp total time (forlamp test)	OW185B			0				
Group 101	OPTION (Signal Processing)									
	0	HDCP Option	EEPROM			0				0: Use DDC data of DVI, 1:Use DDC data of HDCP
	1	HDCP Reset	EEPROM			0				Write EDID data for HDCP when value becomes 10.
	2	Shoot Out Mode	PW185B			0				1: Shoot Out Mode Enable0: Disable
	3	Frame Lock SW	PW185B			0				0:Not V-Sync, 1:V-Sync
	4	Auto PC Adjust Disable	PW185B			0				0:Enable 1:Disable(Not memorized)
	5	Non Brand	PW185B			0				0:Normal1:Non Brand
	6	Monitor Error Count	PW185B			5				Threshold value of Monitor error count
	7	CABLE SW	PW185B			0				Cable switch
Group 103	PW185B Image Control									
				PC	COMPONENT			VIDEO		
				PC	HDTV	480i	VIDEO	SCART		
	0	Center Contrast	PW185B	512	512	512	512	512		PW185B CONTRAST Center adjustment
	1	Center Brightness	PW185B	512	512	512	512	512		PW185B BRIGHTNESS Center adjustment
	2	Center Color	PW185B	512	475	475	475	425		PW185B COLOR Center adjustment
	3	Center Tint	PW185B	90	82	82	82	82		PW185B TINT Center adjustment
	4	Center Sharpness	PW185B	16	16	16	16	16		PW185B SHARPNESS Center adjustment
	5	Alpha Contrast	PW185B	40	40	40	40	40		PW185B CONTRAST Range adjustment
	6	Alpha Brightness	PW185B	140	140	140	140	140		PW185B BRIGHTNESS Range adjustment
	7	Alpha Color	PW185B	70	70	70	70	70		PW185B COLOR Range adjustment
	8	Alpha Tint	PW185B	10	10	10	10	10		PW185B TINT Range adjustment
	9	Alpha Sharpness	PW185B	10	10	10	10	10		PW185B SHARPNESS Range adjustment
Group 104	PW185B Auto PC Adjust Control									
	0	AutoPCAdjustEnable	PW185B			0			0-1	0:Auto1:Prohibit Auto PC Adj.
	1	Frequency Step	PW185B			2			0-3	
	2	Frequency Threshold	PW185B			5			0-10	
	3	Fine Phase	PW185B			1			0-1	
	4	BLKDET	PW185B			1			0-3	Black Level Detecte Area
	5	PHASEMSK	PW185B			0			0-3	Phase Detection Filter0:Effect all bits1:Disable lower 1 bit2:Disable lower 2 bits 3:Disable lower 3 bits
Group 105	Custom Mode									
	0	Connecting to H/V	PW185B			0			0-1	Link H and V, 1: On, 0: Off
	1	Vertical Scaler	PW185B			100			0-200	Vertical Scaler Edit (Unit %)
	2	Vertical Position	PW185B			100			0-200	Vertical Position Correction (Unit %)
	3	RESET/STORE	PW185B			0			0-1	Reset Vertical Aspect 0:Reset, 1:Save0
	4	Horizontal Scaler	PW185B			100			0-200	Horizontal Scaler Edit (Unit %)
	5	Horizontal Position	PW185B			100			0-200	Horizontal Position Correction (Unit %)
	6	RESET/STORE	PW185B			0			0-1	Reset Horizontal Aspect 0:Reset, 1:Save0
	7	CUSTOM ON/OFF	PW185B			0			0-1	Custom function On/Off 1: On, 0:Off
Group 110	Dimmer Processing for Ballast type									
	0	DIMMER_CTRL_LEVEL1	PW185B			18				Luminance Level1:Dimmer Level1 when less than the value. Link with 100-7
	1	DIMMER_CTRL_LEVEL2	PW185B			35				Luminance Level2:Dimmer Level2 when less than the value

Electrical Adjustments

Item No.	NAME	Device	SVGA					Range	Description	
			PC	Component			Video			
				HDTV	480p	480i	NTSC			PAL
	2	DIMMER_CTRL_LEVEL3	PW185B				53			Luminance Level3:Dimmer Level3 when less than the value.
	3	DIMMER_CTRL_LEVEL4	PW185B				70			Luminance Level4:Dimmer Level4 when less than the value.
	4	DIMMER_CTRL_LEVEL5	PW185B				88			Luminance Level5:Dimmer Level5 when less than the value.
	5	DIMMER_CTRL_LEVEL6	PW185B				105			Luminance Level6:Dimmer Level6 when less than the value.
	6	DIMMER_CTRL_LEVEL7	PW185B				255			Luminance Level7:Dimmer Level7 when less than the value.
	7	DIMMER_CTRL_LEVEL8	PW185B				255			Luminance Level8:Dimmer Level8 when less than the value.
	8	DIMMER_CTRL_LEVEL9	PW185B				255			Luminance Level9:Dimmer Level9 when less than the value.
	9	DIMMER_CTRL_LEVEL10	PW185B				255			Luminance Level10:Dimmer Level10 when less than the value.
	10	DIMMER_CTRL_LEVEL11	PW185B				255			Luminance Level11:Dimmer Level11 when less than the value.
	11	DIMMER_CTRL_LEVEL12	PW185B				255			Luminance Level12:Dimmer Level12 when less than the value.
	12	DIMMER_CTRL_LEVEL13	PW185B				255			Luminance Level13:Dimmer Level13 when less than the value.(Not used for PH)
	13	DIMMER_CTRL_LEVEL14	PW185B				255			Luminance Level14:Dimmer Level14 when less than the value.(Not used for PH)
	14	DIMMER_CTRL_LEVEL15	PW185B				255			Luminance Level15:Dimmer Level15 when less than the value.(Not used for PH)
	15	DIMMER_AVERAGE_POINT	PW185B				4			Avarage point of Luminance data for Dimmer
	16	DIMMER_AVERAGE_DATA	PW185B				-			Average value of Luminance data for Dimmer, Read only
	17	DIMMER_LEVEL_AUTO	PW185B				-			Present Dimmer Lavel
	18	DIMMER_LEVEL_NORMAL	PW185B				6			Dimmer Level at Normal
	19	DIMMER_LEVEL_ECO	PW185B				0			Dimmer Level at Eco
	20	Lamp check enable	PW185B				1			1: Lamp Fail Detection On (White 50% back), 0: Off (Blue 100% back)
	21	VOLTAGE_LEVEL	PW185B				-			Lamp Voltage, Read only 8bit value
Group 111	FAN CONTROL									
				Normal	Ceiling	Normal/Ceiling	Ceiling/Hi-land			
	0	FAN_TEMP_A_WARNING	PW185B	49	55	43	48	30-100		Temp A to judge temperature Error (Memorized)for Outside temp.
	1	FAN_TEMP_B_WARNING	PW185B	63	68	54	62	30-100		Temp B to judge temperature Error (Memorized)for Panel temp.
	2	FAN_TEMP_C_WARNING	PW185B	67	65	61	67	30-100		Temp C to judge temperature Error (Memorized)for Lamp temp.
	3	FAN_TEMP_B-A_WARNING	PW185B	100	100	100	100	0-100		Temp B-A to judge temperature Error (Memorized)for Filter cloggle detection
	4	FAN_TEMP_C-A_WARNING	PW185B	100	100	100	100	0-100		Temp C-A to judge temperature Error (Memorized)for Filter cloggle detection
	5	FAN_1_SPEED_MONI	PW185B			-		0-255		Fan Speed Monitor (Read only)
	6	FAN_2_SPEED_MONI	PW185B			-		0-255		Fan Speed Monitor (Read only)
	7	FAN_TEMP_A_MONI	PW185B			-				
	8	FAN_TEMP_B_MONI	PW185B			-		-		
	9	FAN_TEMP_C_MONI	PW185B			-		-		
	10	Lamp Mode	PW185B			Auto		0-2		Normal/Auto/Eco
	11	Fan Ctrl Mode	PW185B			Normal		0-1		Normal/Ceiling Switching
	12	FAN_CONTROL_SW	PW185B			0		0-3		0:Auto, 1:Max, 2:Min, 3:Manual Auto/Max/Min/ManualSwitching
	13	Hi-Land SW	M62398FP			0		0-5		0: Normal mode 1:Highland mode 2~4: Highland mode 1~3 5:Fixed
	14	Safety FAN Control Fix SW	M62398FP			0				For Safety Test FAN Control 0:Normal, 1:Normal Min, 2:Normal Max, 3:Eco Min, 4:Eco Max (Not Memorized),1-4 Temp Error at 100°C
	15	FAN_1_SPEED_CTRL	PW185B			135		0-255		Manual Adj. mode at FAN_CONTROL_SW=3 Normal
	16	FAN_2_SPEED_CTRL	PW185B			135		0-255		Manual Adj. mode at FAN_CONTROL_SW=3 Normal
	17	TEMP_UPWARNING_TIME_A (OUTSIDE)	PW185B			3		0-5		Setup Error Temp. for a duration of X minites started from Power ON
	18	TEMP_UPWARNING_TIME_B (PANEL)	PW185B			3		0-5		Setup Error Temp. for a duration of X minites started from Power ON
	19	TEMP_UPWARNING_TIME_C (LAMP)	PW185B			3		0-5		Setup Error Temp. for a duration of X minites started from Power ON
	20	TEMP_UPWARNING_TIME_B-A	PW185B			3		0-5		Setup Error Temp. for a duration of X minites started from Power ON
	21	TEMP_UPWARNING_TIME_C-A	PW185B			3		0-5		Setup Error Temp. for a duration of X minites started from Power ON
	22	UPWARNING_TEMP_A (OUTSIDE)	PW185B			8				Increase X°C for Error Temp. for a limited time started from Power ON
	23	UPWARNING_TEMP_B (PANEL)	PW185B			5				Increase X°C for Error Temp. for a limited time started from Power ON
	24	UPWARNING_TEMP_C (LAMP)	PW185B			8				Increase X°C for Error Temp. for a limited time started from Power ON
	25	UPWARNING_TEMP_B-A	PW185B			8				Increase X°C for Error Temp. for a limited time started from Power ON
	26	UPWARNING_TEMP_C-A	PW185B			8				Increase X°C for Error Temp. for a limited time started from Power ON
	27	FAN_1_START_SPEED	PW185B			80		0-255		Start Volotage 8V Fan sereis 1
	28	FAN_2_START_SPEED	PW185B			80		0-255		Start Volotage 8V Fan sereis 1
	29	FAN_1_START_SPEED_CHANGE_RATE	PW185B			2		?		Variation per 1 sec. for Fan series 1 0.1V/Sec
	30	FAN_2_START_SPEED_CHANGE_RATE	PW185B			2		?		Variation per 1 sec. for Fan series 2 0.1V/Sec
	31	FAN_1_COOLING_SPEED	PW185B			100		0-255		Fan series 1 Voltage at PowerOFF(Fan Model1)
	32	FAN_2_COOLING_SPEED	PW185B			100		0-255		Fan series 2 Voltage at PowerOFF(Fan Model1)
	33	FAN_1_TEMPERROR_SPEED	PW185B			135		0-255		Fan series 1 Voltage at Temp Error
	34	FAN_2_TEMPERROR_SPEED	PW185B			135		0-255		Fan series 2 Voltage at Temp Error
	35	Cooling Time L1	M62398FP			3		1-15		Cooling time setting for Fan Mode L1 (x30sec)1:30sec3:90sec15:450sec
	36	Cooling Time L2	M62398FP			4		1-15		Cooling time setting for Fan Mode L2 (x30sec)1:30sec3:90sec15:450sec
	37	IGNORE_TEMP_CHANGE_RATE	PW185B			10		5-50		Margin setting
	38	IGNORE_TEMP_CHANGE_TIMES	PW185B			5		1-9		Margin setting
	39									
	40									
	41									
	42	NOR_TEMP_FAN1_MIN	PW185B			41				FAN1 Control start temp.at Normal
	43	NOR_TEMP_FAN1_MAX	PW185B			45				FAN1 Control end temp. at Normal
	44	NOR_TEMP_FAN2_MIN	PW185B			41		0-255		FAN2 Control start temp.at Normal
	45	NOR_TEMP_FAN2_MAX	PW185B			45				FAN2 Control end temp. at Normal

Electrical Adjustments

Item No.	NAME	Device	SVGA						Range	Description	
			PC	Component			Video				
				HDTV	480p	480i	NTSC	PAL			
	46	NOR_VALU_FAN1_MIN	M62398FP			68					FAN1 Control Min at Nromal (0:0V, 255:25.5V)
	47	NOR_VALU_FAN1_MAX	M62398FP			135					FAN1 Control Max at Normal
	48	NOR_VALU_FAN2_MIN	M62398FP			68			0-255		FAN2 Control Min at Normal
	49	NOR_VALU_FAN2_MAX	M62398FP			113					FAN2 Control Max at Normal
	50	ECO_TEMP_FAN1_MIN	PW185B			42					FAN1 Control start temp.at Eco
	51	ECO_TEMP_FAN1_MAX	PW185B			46					FAN1 Control end temp. at Eco
	52	ECOTEMP_FAN2_MIN	PW185B			42			0-255		FAN2 Control start temp.at Eco
	53	ECO_TEMP_FAN2_MAX	PW185B			46					FAN2 Control end temp. at Eco
	54	ECO_VALU_FAN1_MIN	PW185B			52					FAN1 Control Min at Eco
	55	ECO_VALU_FAN1_MAX	PW185B			115					FAN1 Control Max at Eco
	56	ECO_VALU_FAN2_MIN	PW185B			62			0-255		FAN2 Control Min at Eco
	57	ECO_VALU_FAN2_MAX	PW185B			85					FAN2 Control Max at Eco
	58	HINOR_TEMP_FAN1_MIN	PW185B			43					FAN1 Control start temp.at Highland Normal
	59	HINOR_TEMP_FAN1_MAX	PW185B			43					FAN1 Control end temp. at Highland Normal
	60	HINOR_TEMP_FAN2_MIN	PW185B			43			0-255		FAN2 Control start temp.at Highland Normal
	61	HINOR_TEMP_FAN2_MAX	PW185B			43					FAN2 Control end temp. at Highland Normal
	62	HINOR_VALU_FAN1_MIN	M62398FP			135					FAN1 Control Min at Highland Nromal (0:0V, 255:25.5V)
	63	HINOR_VALU_FAN1_MAX	M62398FP			135					FAN1 Control Max at Highland Normal
	64	HINOR_VALU_FAN2_MIN	M62398FP			119			0-255		FAN2 Control Min at Highland Normal
	65	HINOR_VALU_FAN2_MAX	M62398FP			119					FAN2 Control Max at Highland Normal
	66	HIECO_TEMP_FAN1_MIN	PW185B			44					FAN1 Control start temp.at Highland Eco
	67	HIECO_TEMP_FAN1_MAX	PW185B			44					FAN1 Control end temp. at Highland Eco
	68	HIECOTEMP_FAN2_MIN	PW185B			44			0-255		FAN2 Control start temp.at Highland Eco
	69	HIECO_TEMP_FAN2_MAX	PW185B			44					FAN2 Control end temp. at Highland Eco
	70	HIECO_VALU_FAN1_MIN	M62398FP			120					FAN1 Control Min at Highland Eco
	71	HIECO_VALU_FAN1_MAX	M62398FP			120					FAN1 Control Max at Highland Eco
	72	HIECO_VALU_FAN2_MIN	M62398FP			91			0-255		FAN2 Control Min at Highland Eco
	73	HIECO_VALU_FAN2_MAX	M62398FP			91					FAN2 Control Max at Highland Eco
	74	CLNOR_TEMP_FAN1_MIN	PW185B			41					FAN1 Control start temp.at Ceiling Normal
	75	CINOR_TEMP_FAN1_MAX	PW185B			53					FAN1 Control end temp. at Ceiling Normal
	76	CLNOR_TEMP_FAN2_MIN	PW185B			41			0-255		FAN2 Control start temp.at Ceiling Normal
	77	CLNOR_TEMP_FAN2_MAX	PW185B			53					FAN2 Control end temp. at Ceiling Normal
	78	CLNOR_VALU_FAN1_MIN	M62398FP			68					FAN1 Control Min at Ceiling Nromal (0:0V, 255:25.5V)
	79	CLNOR_VALU_FAN1_MAX	M62398FP			135					FAN1 Control Max at Ceiling Normal
	80	CLNOR_VALU_FAN2_MIN	M62398FP			68			0-255		FAN2 Control Min at Ceiling Normal
	81	CLNOR_VALU_FAN2_MAX	M62398FP			113					FAN2 Control Max at Ceiling Normal
	82	CLECO_TEMP_FAN1_MIN	PW185B			42					FAN1 Control start temp.at Ceiling Eco
	83	CLECO_TEMP_FAN1_MAX	PW185B			52					FAN1 Control end temp. at Ceiling Eco
	84	CLECOTEMP_FAN2_MIN	PW185B			42			0-255		FAN2 Control start temp.at Ceiling Eco
	85	CLECO_TEMP_FAN2_MAX	PW185B			52					FAN2 Control end temp. at Ceiling Eco
	86	CLECO_VALU_FAN1_MIN	M62398FP			52					FAN1 Control Min at Ceiling Eco
	87	CLECO_VALU_FAN1_MAX	M62398FP			115					FAN1 Control Max at Ceiling Eco
	88	CLECO_VALU_FAN2_MIN	M62398FP			62			0-255		FAN2 Control Min at Ceiling Eco
	89	CLECO_VALU_FAN2_MAX	M62398FP			85					FAN2 Control Max at Ceiling Eco
	90	FAN_1_AUTO_ADJ	PW185B			0			0-1		0: OFF(Manual) 1:ON(Auto)
	91	FAN_2_AUTO_ADJ	PW185B			0			0-1		0: OFF(Manual) 1:ON(Auto)
	92	FACTORY_STD_FAN_VOL_MIN	PW185B			52			0-255		For Factory
	93	FACTORY_STD_FAN_VOL_MAX	PW185B			135			0-255		For Factory
	94	FAN1_ADJUST_VOLT_MIN	M62398FP			15					For Factory
	95	FAN1_ADJUST_VOLT_MAX	M62398FP			203					For Factory
	96	FAN2_ADJUST_VOLT_MIN	M62398FP			15			0-255		For Factory
	97	FAN2_ADJUST_VOLT_MAX	M62398FP			203					For Factory
	98	TEMP_ERROR_DETECT_MAX_TIMES				5			1-9		Detecting times for Temp Error
	99	FAN_1_MIN_VOL_LAMP_DIFF				0			0-20		
	100	FAN_2_MIN_VOL_LAMP_DIFF				0			0-20		
	101	LAMP_VOL_BORDER_LINE				70			30-90		
	102	LAMP_VOL				-			0-255		Present Lamp Voltage
	103	Dimmer Voltage Change Cycle				3					Change cycle of voltage at Dimmer
	104	Dimmer Avarage Check Period				10					Measurement time of Dimmer average
	105	Dimmer Voltage Change Rate				1					Voltage change rate ta Dimmer
	106	Dimmer Average				-					Dimmer average
	107	Last Voltage Difference				-					Last voltage difference
	108	Voltage Difference Goal				-					Target voltage difference at Dimmer
Group 200	Auto Calibration										
	0	Execute Calibration	PW185B			0			0 - 255		Auto executiing when value changes
	1	Loop Count	PW185B			3			1 - 30		Loop times of Auto Calibration
	2	OFFSET AREA H START	PW185B			25			0 - 4095		Black Level Acquire area H-Start Position
	3	OFFSET AREA V START	PW185B			500			0 - 4095		Black Level Acquire area V-Start Position
	4	GAIN AREA H START	PW185B			975			0 - 4095		White Level Acquire area H-Start Position
	5	GAIN AREA V START	PW185B			500			0 - 4095		White Level Acquire area V-Start Position
	6	Image AREA H WIDTH	PW185B			13			0 - 4095		Black/White Level Acquire area
	7	Image AREA V HIGHT	PW185B			9			0 - 4095		Black/White Level Acquire area Height
	8	OFFSET target	PW185B			1			0 - 127		Target for Black Level Adj.
	9	OFFSET torelance	PW185B			1			1 - 127		Allowence Range for Black Level Adj
	10	GAIN target	PW185B			244			0 - 255		Target for White Level Adj.
	11	GAIN torelance	PW185B			1			1 - 255		Allowence Range for White Level Adj
	12	Offset Area Average [Red]	PW185B			0			0 - 255		Read Only
	13	Offset Area Average [Green]	PW185B			0			0 - 255		Read Only

Item No.	NAME	Device	SVGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
	14	Offset Area Average [Blue]	PW185B		0				0 - 255	Read Only
	15	Gain Area Average [Red]	PW185B		0				0 - 255	Read Only
	16	Gain Area Average [Green]	PW185B		0				0 - 255	Read Only
	17	Gain Area Average [Blue]	PW185B		0				0 - 255	Read Only
	18	Image LevelUpdate [OFFSET]	PW185B		0				0 - 255	Upadte item 12/13, Link to item 14
Group 300	General DeInterlacer									
	1	3:2 PullDown Mode	PW185B		1				1 - 3	bit 0 : Global Motion Enable (FILMODEN23 GMD) bit 1 : Video Motion(VOFMODEN)
	2	Detect Film Mode Enable	PW185B		0				0 - 2	0 : 2:3pull down & 2:2pull down, 1 : 2:3pull down, 2 : 2:2pull down * Adjust at Film Mode with Menu
Group 301	Motion Adaptive									
	0	Motion Adaptive Weight Value L1	PW185B		30				0 - 255	KDEINT
	1	Motion Adaptive Weight Value L2	PW185B		0				0 - 255	KDEINT
	2	Motion Adaptive Weight Value FILM	PW185B		30				0 - 255	KDEINT
Group 302	Low Angle Interporation (LAI)									
	0	Angle Interpolation Level L1	PW185B		4				0 - 4	
	1	Angle Interpolation Level L2	PW185B		2				0 - 4	
	2	Angle Interpolation Level FILM	PW185B		4				0 - 4	
Group 311	Noise Reduction L1									
	0	Noise Pixel Range	PW185B		1				0 - 3	<NSRANGEY> / <NSRANGEUV>
	1	Noise Region 0	PW185B		12				0 - 1023	<NSREGIONY0> / <NSREGIONUV0>
	2	Noise Region 1	PW185B		24				0 - 1023	<NSREGIONY1> / <NSREGIONUV1>
	3	Noise Region 2	PW185B		40				0 - 1023	<NSREGIONY2> / <NSREGIONUV2>
	4	Noise Gain Level	PW185B		90				0 - 1023	<NSFILTERY**> / <NSFILTERUV**>
Group 313	Noise Reduction L2									
	0	Noise Pixel Range	PW185B		1				0 - 3	<NSRANGEY> / <NSRANGEUV>
	1	Noise Region 0	PW185B		12				0 - 1023	<NSREGIONY0> / <NSREGIONUV0>
	2	Noise Region 1	PW185B		24				0 - 1023	<NSREGIONY1> / <NSREGIONUV1>
	3	Noise Region 2	PW185B		40				0 - 1023	<NSREGIONY2> / <NSREGIONUV2>
	4	Noise Gain Level	PW185B		110				0 - 1023	<NSFILTERY**> / <NSFILTERUV**>
Group 320	2:2 Pull Down									
	0	22Film Mode Sensitivity	PW185B		4				1 - 5	Film Detection Sensitivity <FILMSTVT22>
	1	22Film Mode Threshold Low	PW185B		80				0 - 32767	<FILMTHRD22A>
	2	22Film Mode Threshold High	PW185B		120				0 - 32767	<FILMTHRD22B>
	3	VOFTHR13	PW185B		124				0 - 1023	<VOFTHR13>
	4	VOFTHR12	PW185B		124				0 - 1023	<VOFTHR12>
	5	VOFTHR23	PW185B		124				0 - 1023	<VOFTHR23>
	6	Video Motion Window Start X	PW185B		10				0 - 2047	Window Setting of 22PullDown & Video Motion Sum calib.
	7	Video Motion Window StopX	PW185B		10				0 - 2047	
	8	Video Motion Window Start Y	PW185B		10				0 - 1023	
	9	Video Motion Window StopY	PW185B		10				0 - 1023	
	10	VOFLNTHR	PW185B		100				0 - 2047	
									<VOFLNTHR>	
Group 321	3:2 PullDown									
	0	Global Motion Sensitivity	PW185B		4				1 - 5	Film Detection Sensitivity <FILMSTVT23>
	1	Video Motion Sensitivity	PW185B		4				1 - 5	Film Detection Sensitivity <VOFSTVT>
	2	Video Motion Threshold Low	PW185B		120				0 - 32767	<VOFTHRDA>
	3	Video Motion Threshold High	PW185B		180				0 - 32767	<VOFTHRDB>
	4	Global Motion Threshold	PW185B		124				0 - 1023	<GMDTHRD>
	5	23Film Mode Threshold	PW185B		100				0 - 32767	<FILMTHRD23>
	6	Global Motion Window Start X	PW185B		10				0 - 2047	Window Setting of Global Motion Sum Calib.
	7	Global Motion Window Stop X	PW185B		10				0 - 2047	
	8	Global Motion Window Start Y	PW185B		10				0 - 1023	
	9	Global Motion Window Stop Y	PW185B		10				0 - 1023	
	10	GMDLNTHR	PW185B		100				0 - 2047	
									GMDLNTHR	
Group 500	OverScan Video 480i									
	0	Total Dots (HTOTAL)	AD9883		0					AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B		668					Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		78					Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		48					Vertical Back Porch
	4	Disp Line (VRES)	PW185B		458					Vertical Resolution
	5	Clamp Pos	AD9883		0					AD9883 Clamp Placement
	6	Clamp Width	AD9883		0					AD9883 Clamp Duration
Group 501	OverScan Video 480iIP									
	0	Total Dots (HTOTAL)	AD9883		0					AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B		668					Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		78					Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		48					Vertical Back Porch
	4	Disp Line (VRES)	PW185B		458					Vertical Resolution
	5	Clamp Pos	AD9883		0					AD9883 Clamp Placement
	6	Clamp Width	AD9883		0					AD9883 Clamp Duration
Group 502	OverScan Video 575i									
	0	Total Dots (HTOTAL)	AD9883		0					AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B		658					Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		94					Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		64					Vertical Back Porch
	4	Disp Line (VRES)	PW185B		536					Vertical Resolution
	5	Clamp Pos	AD9883		0					AD9883 Clamp Placement
	6	Clamp Width	AD9883		0					AD9883 Clamp Duration

Item No.	NAME	Device	SVGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
Group 503	OverScan Video 575iIP									
0	Total Dots(HTOTAL)	AD9883			0					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			658					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			94					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			64					Vertical Back Porch
4	Disp Line (VRES)	PW185B			536					Vertical Resolution
5	Clamp Pos	AD9883			0					AD9883 Clamp Placement
6	Clamp Width	AD9883			0					AD9883 Clamp Duration
Group 520	OverScan HDTV 480i									
0	Total Dots(HTOTAL)	AD9883			0					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			670					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			78					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			50					Vertical Back Porch
4	Disp Line (VRES)	PW185B			454					Vertical Resolution
5	Clamp Pos	AD9883			0					AD9883 Clamp Placement
6	Clamp Width	AD9883			0					AD9883 Clamp Duration
Group 521	OverScan HDTV 480iIP									
0	Total Dots(HTOTAL)	AD9883			0					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			670					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			78					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			50					Vertical Back Porch
4	Disp Line (VRES)	PW185B			454					Vertical Resolution
5	Clamp Pos	AD9883			0					AD9883 Clamp Placement
6	Clamp Width	AD9883			0					AD9883 Clamp Duration
Group 522	OverScan HDTV 575i									
0	Total Dots(HTOTAL)	AD9883			0					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			650					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			96					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			64					Vertical Back Porch
4	Disp Line (VRES)	PW185B			532					Vertical Resolution
5	Clamp Pos	AD9883			0					AD9883 Clamp Placement
6	Clamp Width	AD9883			0					AD9883 Clamp Duration
Group 523	OverScan HDTV 575iIP									
0	Total Dots(HTOTAL)	AD9883			0					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			650					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			96					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			62					Vertical Back Porch
4	Disp Line (VRES)	PW185B			534					Vertical Resolution
5	Clamp Pos	AD9883			0					AD9883 Clamp Placement
6	Clamp Width	AD9883			0					AD9883 Clamp Duration
Group 524	OverScan HDTV 480p									
0	Total Dots(HTOTAL)	AD9883			1317					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1050					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			211					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			48					Vertical Back Porch
4	Disp Line (VRES)	PW185B			460					Vertical Resolution
5	Clamp Pos	AD9883			1					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 526	OverScan HDTV 575p									
0	Total Dots(HTOTAL)	AD9883			1253					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			956					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			234					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			62					Vertical Back Porch
4	Disp Line (VRES)	PW185B			536					Vertical Resolution
5	Clamp Pos	AD9883			1					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 528	OverScan HDTV 720p									
0	Total Dots(HTOTAL)	AD9883			1650					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1250					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			306					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			34					Vertical Back Porch
4	Disp Line (VRES)	PW185B			702					Vertical Resolution
5	Clamp Pos	AD9883			42					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 530	OverScan HDTV 1035i									
0	Total Dots(HTOTAL)	AD9883			2200					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1876					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			248					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			92					Vertical Back Porch
4	Disp Line (VRES)	PW185B			1012					Vertical Resolution
5	Clamp Pos	AD9883			50					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 531	OverScan HDTV 1035iIP									
0	Total Dots(HTOTAL)	AD9883			2200					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1816					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			276					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			76					Vertical Back Porch
4	Disp Line (VRES)	PW185B			1020					Vertical Resolution
5	Clamp Pos	AD9883			50					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration

Item No.	NAME	Device	SVGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
Group 532	OverScan HDTV 1080i 50Hz									
0	Total Dots(HTOTAL)	AD9883			2640					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1874					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			250					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			56					Vertical Back Porch
4	Disp Line (VRES)	PW185B			1050					Vertical Resolution
5	Clamp Pos	AD9883			50					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 533	OverScan HDTV 1080i 50Hz IP									
0	Total Dots(HTOTAL)	AD9883			2663					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1886					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			243					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			56					Vertical Back Porch
4	Disp Line (VRES)	PW185B			1050					Vertical Resolution
5	Clamp Pos	AD9883			50					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 534	OverScan HDTV 1080i 60Hz									
0	Total Dots(HTOTAL)	AD9883			2200					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1874					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			250					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			54					Vertical Back Porch
4	Disp Line (VRES)	PW185B			1054					Vertical Resolution
5	Clamp Pos	AD9883			50					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 535	OverScan HDTV 1080i 60Hz IP									
0	Total Dots(HTOTAL)	AD9883			2200					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1816					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			276					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			76					Vertical Back Porch
4	Disp Line (VRES)	PW185B			1020					Vertical Resolution
5	Clamp Pos	AD9883			50					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 540	OverScan RGB 480i									
0	Total Dots(HTOTAL)	AD9883			780					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			616					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			130					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			54					Vertical Back Porch
4	Disp Line (VRES)	PW185B			460					Vertical Resolution
5	Clamp Pos	AD9883			1					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 542	OverScan RGB 575i									
0	Total Dots(HTOTAL)	AD9883			944					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			718					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			180					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			66					Vertical Back Porch
4	Disp Line (VRES)	PW185B			536					Vertical Resolution
5	Clamp Pos	AD9883			1					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 544	OverScan RGB 480p									
0	Total Dots(HTOTAL)	AD9883			1200					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			958					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			192					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			48					Vertical Back Porch
4	Disp Line (VRES)	PW185B			460					Vertical Resolution
5	Clamp Pos	AD9883			1					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 546	OverScan RGB 575p									
0	Total Dots(HTOTAL)	AD9883			1200					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			912					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			224					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			62					Vertical Back Porch
4	Disp Line (VRES)	PW185B			540					Vertical Resolution
5	Clamp Pos	AD9883			1					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 548	OverScan RGB 720p									
0	Total Dots(HTOTAL)	AD9883			1650					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1250					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			306					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			34					Vertical Back Porch
4	Disp Line (VRES)	PW185B			702					Vertical Resolution
5	Clamp Pos	AD9883			48					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration
Group 550	OverScan RGB 1035i									
0	Total Dots(HTOTAL)	AD9883			2200					AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1874					Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			250					Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			92					Vertical Back Porch
4	Disp Line (VRES)	PW185B			1012					Vertical Resolution
5	Clamp Pos	AD9883			48					AD9883 Clamp Placement
6	Clamp Width	AD9883			31					AD9883 Clamp Duration

Item No.	NAME	Device	SVGA					Range	Description
			PC	Component			Video		
				HDTV	480p	480i	NTSC	PAL	
Group 552	OverScan RGB 1080i 50Hz								
0	Total Dots(HTOTAL)	AD9883			2640				AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1874				Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			250				Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			56				Vertical Back Porch
4	Disp Line (VRES)	PW185B			1052				Vertical Resolution
5	Clamp Pos	AD9883			48				AD9883 Clamp Placement
6	Clamp Width	AD9883			31				AD9883 Clamp Duration
Group 554	OverScan RGB 1080i 60Hz								
0	Total Dots(HTOTAL)	AD9883			2200				AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			1874				Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			250				Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			54				Vertical Back Porch
4	Disp Line (VRES)	PW185B			1054				Vertical Resolution
5	Clamp Pos	AD9883			48				AD9883 Clamp Placement
6	Clamp Width	AD9883			31				AD9883 Clamp Duration
Group 560	OverScan Scart 480i								
0	Total Dots(HTOTAL)	AD9883			0				AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			674				Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			78				Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			46				Vertical Back Porch
4	Disp Line (VRES)	PW185B			458				Vertical Resolution
5	Clamp Pos	AD9883			0				AD9883 Clamp Placement
6	Clamp Width	AD9883			0				AD9883 Clamp Duration
Group 561	OverScan Scart 480iP								
0	Total Dots(HTOTAL)	AD9883			0				AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			674				Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			78				Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			46				Vertical Back Porch
4	Disp Line (VRES)	PW185B			458				Vertical Resolution
5	Clamp Pos	AD9883			0				AD9883 Clamp Placement
6	Clamp Width	AD9883			0				AD9883 Clamp Duration
Group 562	OverScan Scart 575i								
0	Total Dots(HTOTAL)	AD9883			0				AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			656				Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			96				Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			62				Vertical Back Porch
4	Disp Line (VRES)	PW185B			536				Vertical Resolution
5	Clamp Pos	AD9883			0				AD9883 Clamp Placement
6	Clamp Width	AD9883			0				AD9883 Clamp Duration
Group 563	OverScan Scart 575iP								
0	Total Dots(HTOTAL)	AD9883			0				AD9883 PLL Div
1	Disp Dots (HRES)	PW185B			656				Horizontal Resolution
2	Horz Back Porch (HPOS)	PW185B			96				Horizontal Back Porch
3	Vert Back Porch (VPOS)	PW185B			62				Vertical Back Porch
4	Disp Line (VRES)	PW185B			536				Vertical Resolution
5	Clamp Pos	AD9883			0				AD9883 Clamp Placement
6	Clamp Width	AD9883			0				AD9883 Clamp Duration

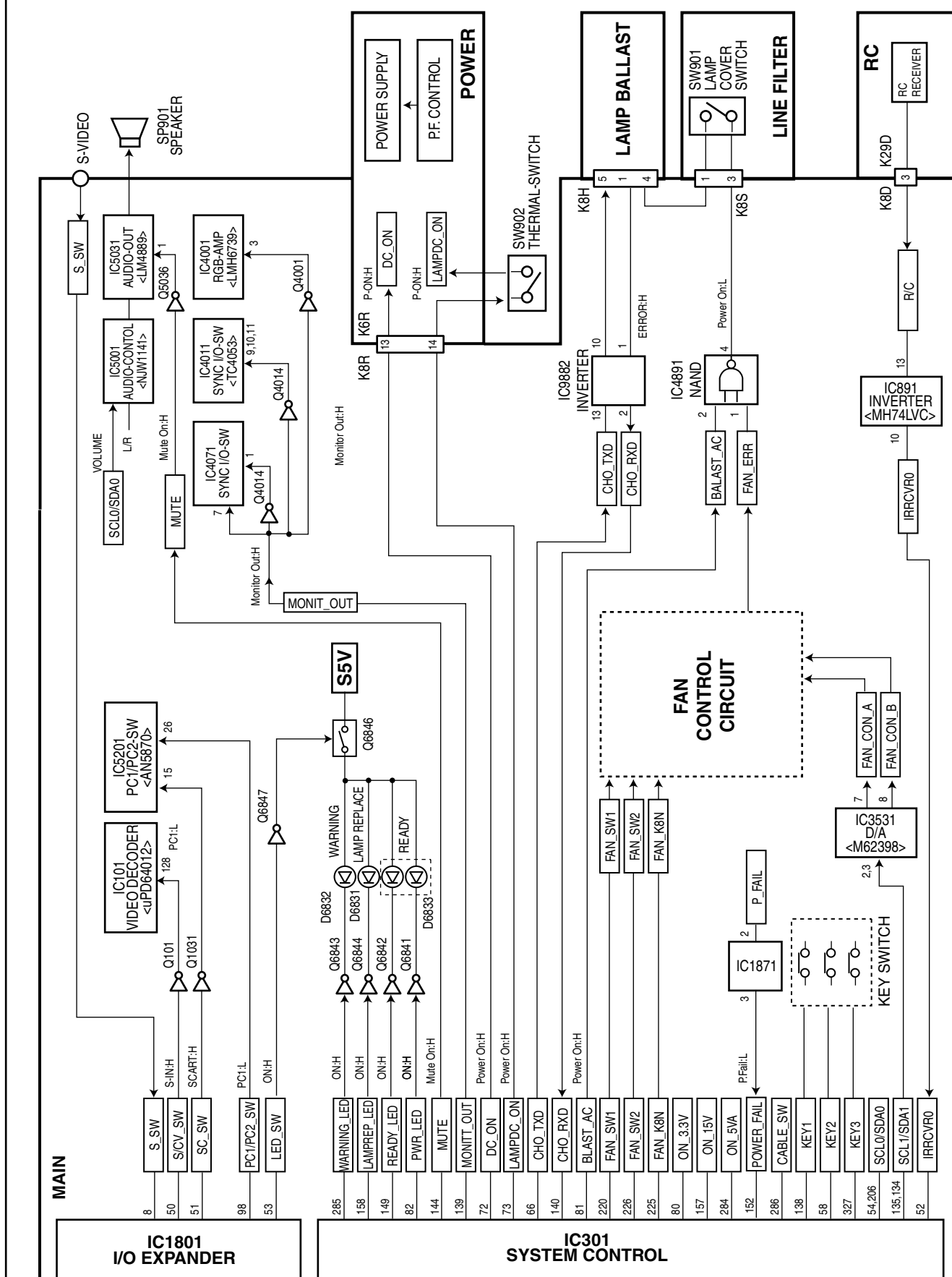
Chassis over view

The diagram illustrates the chassis overview, showing the interconnections between various components. Key components include:

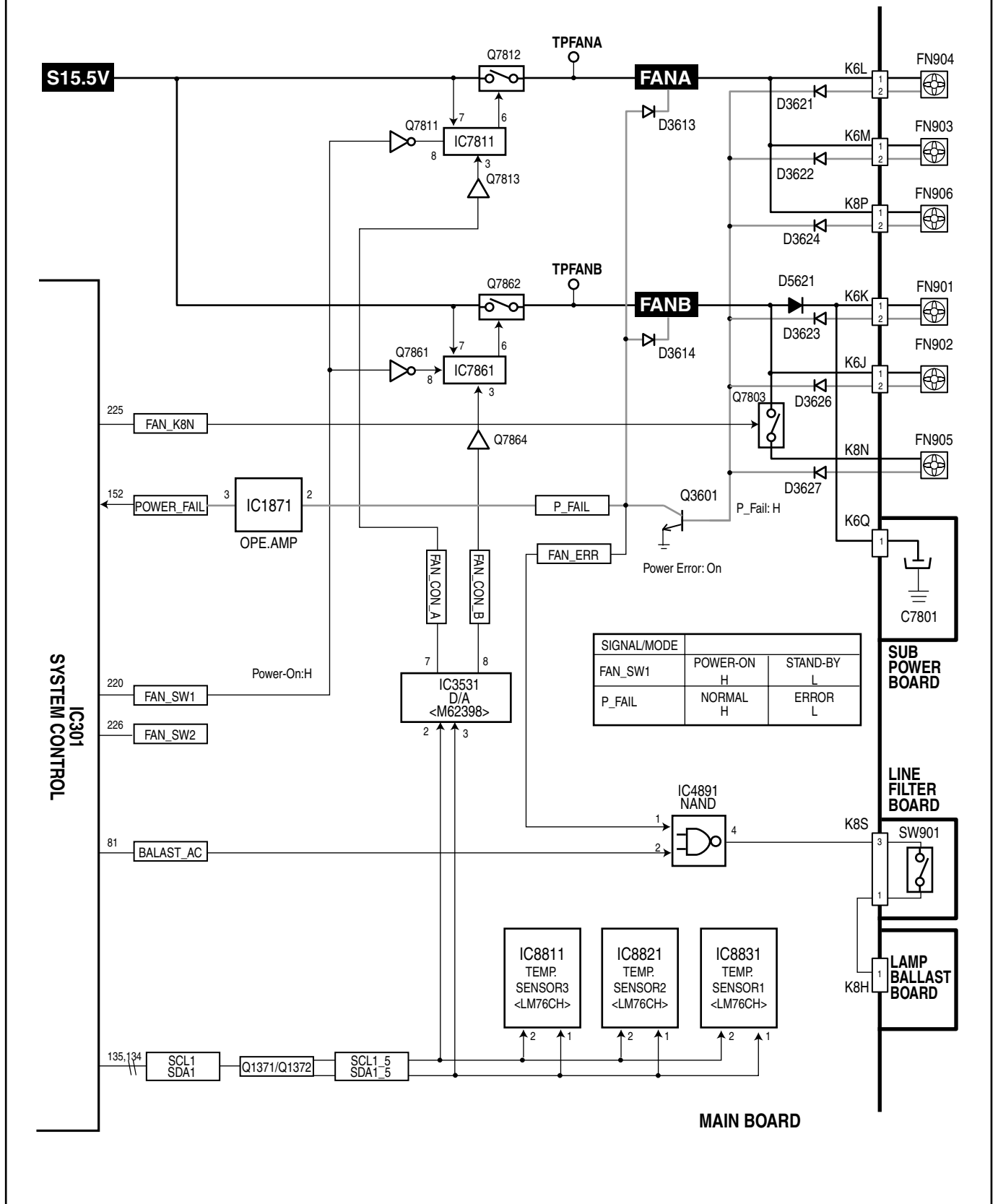
- Input/Output:** PC1 INPUT [RGB] [COMPONENT] [SCART], PC2 INPUT/OUTPUT [RGB], C-VIDEO, S-VIDEO, AUDIO (L/R, VIDEO, OUTPUT), R/C, TXD1/RXD1, CONTROL PORT, and USB.
- Control Logic:** IC4001 (RGB/HV switch), IC5201 (PC1/PC2-SW <AN5870>), IC301 (SCAN CONVERTER SYSTEM CONTROL), IC8201 (A/D), IC101 (VIDEO DECODER <UPD64012>), IC5301 (SYNC SEP. <BA7078>), IC501 (B-D/A S&H <L3E06100>), IC531 (G-D/A S&H <L3E06100>), IC561 (R-D/A S&H <L3E06100>), IC401 (LCD DRIVER & GAMMA CORRECTION <L3E0702>), IC1801 (I/O EXPANDER <TE7783>), IC891 (INVERTER), and IC3801 (RS232C DRIVER <SP232>).
- Memory:** IC1301/IC311 RAM, IC801 FLASH ROM, and IC501 (B-D/A S&H <L3E06100>).
- Display:** B-LCD PANEL, G-LCD PANEL, and R-LCD PANEL.
- Audio:** SP901 SPEAKER, IC5031 AUDIO OUTPUT <LM4889>, and IC5001 AUDIO CONTROL <NJW1141>.

The diagram shows the flow of data and control signals between these components, including signals like RGB, HV, PC1/PC2-SW, S_SW, VHS, VHS.VBLK, VUV, VY, VY0, VY1, VY2, VY3, VY4, VY5, VY6, VY7, VY8, VY9, VY10, VY11, VY12, VY13, VY14, VY15, VY16, VY17, VY18, VY19, VY20, VY21, VY22, VY23, VY24, VY25, VY26, VY27, VY28, VY29, VY30, VY31, VY32, VY33, VY34, VY35, VY36, VY37, VY38, VY39, VY40, VY41, VY42, VY43, VY44, VY45, VY46, VY47, VY48, VY49, VY50, VY51, VY52, VY53, VY54, VY55, VY56, VY57, VY58, VY59, VY60, VY61, VY62, VY63, VY64, VY65, VY66, VY67, VY68, VY69, VY70, VY71, VY72, VY73, VY74, VY75, VY76, VY77, VY78, VY79, VY80, VY81, VY82, VY83, VY84, VY85, VY86, VY87, VY88, VY89, VY90, VY91, VY92, VY93, VY94, VY95, VY96, VY97, VY98, VY99, VY100, VY101, VY102, VY103, VY104, VY105, VY106, VY107, VY108, VY109, VY110, VY111, VY112, VY113, VY114, VY115, VY116, VY117, VY118, VY119, VY120, VY121, VY122, VY123, VY124, VY125, VY126, VY127, VY128, VY129, VY130, VY131, VY132, VY133, VY134, VY135, VY136, VY137, VY138, VY139, VY140, VY141, VY142, VY143, VY144, VY145, VY146, VY147, VY148, VY149, VY150, VY151, VY152, VY153, VY154, VY155, VY156, VY157, VY158, VY159, VY160, VY161, VY162, VY163, VY164, VY165, VY166, VY167, VY168, VY169, VY170, VY171, VY172, VY173, VY174, VY175, VY176, VY177, VY178, VY179, VY180, VY181, VY182, VY183, VY184, VY185, VY186, VY187, VY188, VY189, VY190, VY191, VY192, VY193, VY194, VY195, VY196, VY197, VY198, VY199, VY200, VY201, VY202, VY203, VY204, VY205, VY206, VY207, VY208, VY209, VY210, VY211, VY212, VY213, VY214, VY215, VY216, VY217, VY218, VY219, VY220, VY221, VY222, VY223, VY224, VY225, VY226, VY227, VY228, VY229, VY230, VY231, VY232, VY233, VY234, VY235, VY236, VY237, VY238, VY239, VY240, VY241, VY242, VY243, VY244, VY245, VY246, VY247, VY248, VY249, VY250, VY251, VY252, VY253, VY254, VY255, VY256, VY257, VY258, VY259, VY260, VY261, VY262, VY263, VY264, VY265, VY266, VY267, VY268, VY269, VY270, VY271, VY272, VY273, VY274, VY275, VY276, VY277, VY278, VY279, VY280, VY281, VY282, VY283, VY284, VY285, VY286, VY287, VY288, VY289, VY290, VY291, VY292, VY293, VY294, VY295, VY296, VY297, VY298, VY299, VY300, VY301, VY302, VY303, VY304, VY305, VY306, VY307, VY308, VY309, VY310, VY311, VY312, VY313, VY314, VY315, VY316, VY317, VY318, VY319, VY320, VY321, VY322, VY323, VY324, VY325, VY326, VY327, VY328, VY329, VY330, VY331, VY332, VY333, VY334, VY335, VY336, VY337, VY338, VY339, VY340, VY341, VY342, VY343, VY344, VY345, VY346, VY347, VY348, VY349, VY350, VY351, VY352, VY353, VY354, VY355, VY356, VY357, VY358, VY359, VY360, VY361, VY362, VY363, VY364, VY365, VY366, VY367, VY368, VY369, VY370, VY371, VY372, VY373, VY374, VY375, VY376, VY377, VY378, VY379, VY380, VY381, VY382, VY383, VY384, VY385, VY386, VY387, VY388, VY389, VY390, VY391, VY392, VY393, VY394, VY395, VY396, VY397, VY398, VY399, VY400, VY401, VY402, VY403, VY404, VY405, VY406, VY407, VY408, VY409, VY410, VY411, VY412, VY413, VY414, VY415, VY416, VY417, VY418, VY419, VY420, VY421, VY422, VY423, VY424, VY425, VY426, VY427, VY428, VY429, VY430, VY431, VY432, VY433, VY434, VY435, VY436, VY437, VY438, VY439, VY440, VY441, VY442, VY443, VY444, VY445, VY446, VY447, VY448, VY449, VY450, VY451, VY452, VY453, VY454, VY455, VY456, VY457, VY458, VY459, VY460, VY461, VY462, VY463, VY464, VY465, VY466, VY467, VY468, VY469, VY470, VY471, VY472, VY473, VY474, VY475, VY476, VY477, VY478, VY479, VY480, VY481, VY482, VY483, VY484, VY485, VY486, VY487, VY488, VY489, VY490, VY491, VY492, VY493, VY494, VY495, VY496, VY497, VY498, VY499, VY500, VY501, VY502, VY503, VY504, VY505, VY506, VY507, VY508, VY509, VY510, VY511, VY512, VY513, VY514, VY515, VY516, VY517, VY518, VY519, VY520, VY521, VY522, VY523, VY524, VY525, VY526, VY527, VY528, VY529, VY530, VY531, VY532, VY533, VY534, VY535, VY536, VY537, VY538, VY539, VY540, VY541, VY542, VY543, VY544, VY545, VY546, VY547, VY548, VY549, VY550, VY551, VY552, VY553, VY554, VY555, VY556, VY557, VY558, VY559, VY560, VY561, VY562, VY563, VY564, VY565, VY566, VY567, VY568, VY569, VY570, VY571, VY

System control



Fan control circuit



Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER red/green	WARNING red	LAMP REPLACE yellow	
			The projector is off. (The AC power cord is unplugged.)
			The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.
			The projector is ready to be turned on with the POWER ON-OFF button.
			The projector is operating normally.
			The projector is in the Power management mode.
			The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator emits a red light and the projector can be turned on. (The WARNING indicator keeps blinking.) Check and clean the air filters.
			The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filters.
			The projector detects an abnormal condition and cannot be turned on. Check power supply circuit and fans control circuit.

 ... green.

 ... red

 ... off

 ... blinks green.

 ... blinks red.

* When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

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

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

- AC cord
- F601 (Fuse)
- Power board
- SW902 (Thermal sw.).....short in normal
- SW902 opens when the surrounding temperature of the switch exceeds 105°C.

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

The internal temperature is monitored by sensor ICs, IC8801, IC8821 and IC8831 on the Main board.

- **When the WARNING indicator lights red**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.

The POWER_FAIL signal (Error: L) is sent to pin 152 of IC301<SYSTEM CONTROL> when the abnormality occurred inside the projector, and then the IC301 sends the shut down signals, DC_ON and LAMPDC_ON, to the power supply circuit to stop its operation, and signal BALAST_AC to the lamp ballast board via IC4891 and SW901<lamp cover switch> to stop operation of the lamp circuit.

An abnormality occurs on the secondary power supply;

Check power supplies 15.5V, S15.5V, S6V, S-5V. P_FAIL signal becomes "Low" when the abnormality occurs on any of the power supply lines.

An abnormality occurs on the fan control circuit;

Check FN901, FN902, FN903, FN904, FN905, FN906 and peripheral circuit.

If any of the fans has an error, the fan lock signal drives Q3601 becomes on. As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.

An abnormality occurs on the drive signals;

DC_ON signal (Power-on: H) is output from pin 72 of IC301 and supplied to power supply circuit.

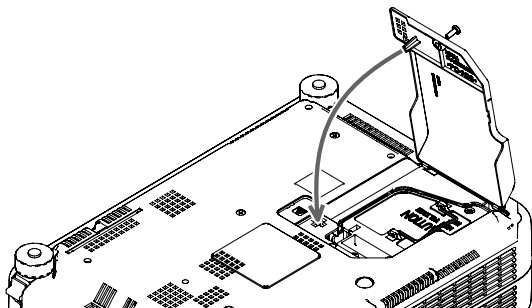
LAMPDC_ON signal (Power-on: H) is output from pin 73 of IC301 and supplied to the P.F Control IC, IC621, on the power supply board through Q651, and PC643.

BLAST_AC signal (Power-on: H) is output from pin 81 of IC301 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through the Lamp Cover switch(SW901).

CHO_RXD signal at the pin 140 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, CHO_RXD signal becomes "High" and then IC301 shuts down the power supply circuit.

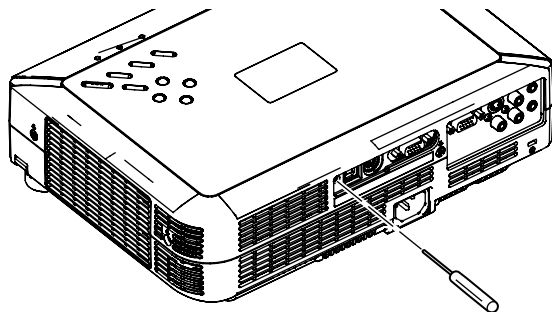
Lamp Cover switch

Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



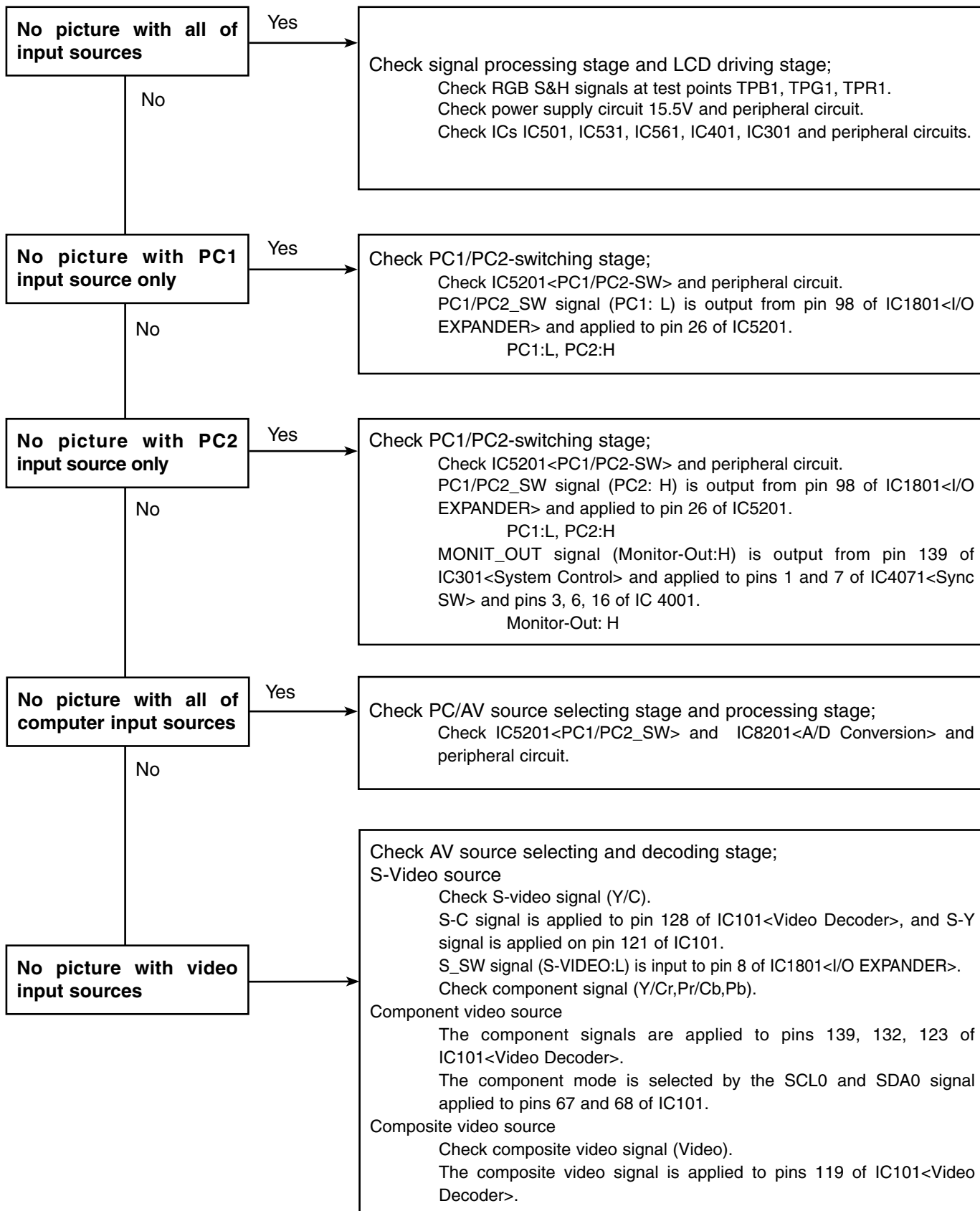
Reset switch

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



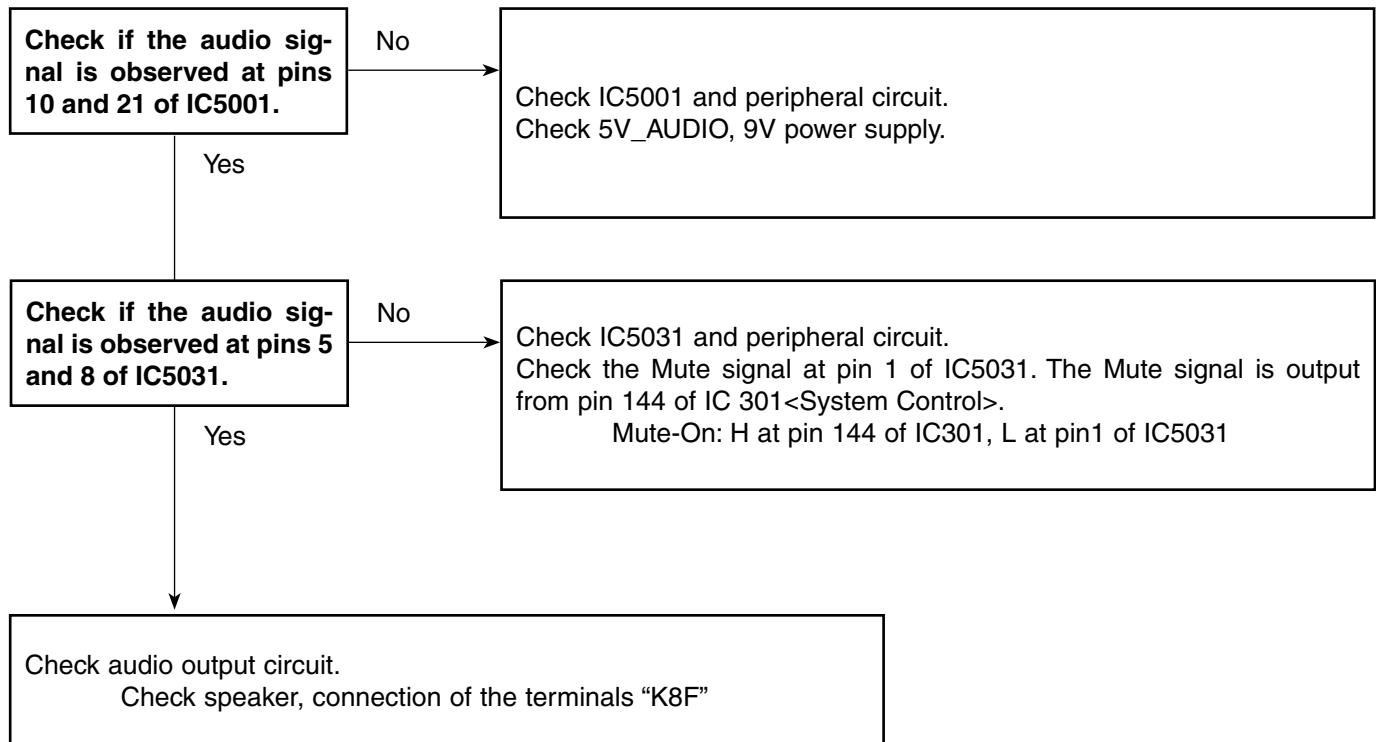
No Picture

Check following steps.



No Sound

Check following steps.



Control Port Functions

System Control I/O Port Functions (IC301)

PIN No.	PIN NAME	PORT	SIGNAL	DESCRIPTION	I/O
52	D1	IN0RO5	PWR_LED	POWER LED Drive On: H	O
53	E1	IN0GO3	BLAST_AC	Ballast Drive Power-On: H	O
54	E2	IN0RO3	LAMPREP_LED	LAMP REPLACE LED Drive On: H	O
55	F1	IN0GO7	ON_3.3V	3.3V Drive On: H	O
56	F2	IN0GO5	15V_ON	15V Drive On: H	O
58	F3	IN0RO9	FAN_SW2	Fan Control Switch	O
59	G1	IN0BO3	PANEL_OPT	Panel Optioin H: XGA, L:SVGA	I
60	G3	IN0GO9	FAN_K8N	Fan Drive On: H	O
61	G4	IN0RO6	CABLE_SW	Cable Switch On: H	O
63	H1	IN0BO7	NETWORK_OPT	Network Option	I
65	H2	IN0BO4	CARD_IN		I
66	H4	IN0RO2	WARINIG_LED	WARNING LED Drive On: H	O
67	J1	IN0VS	GVS		I
72	J3	IN0HS	GFBK		I
73	J4	IN0GO8	ON_5VA	5VA Drive On: H	O
75	K1	IN0BO5	W_LAN_IN	Wireless LAN Option	I
76	K2	IN0CST	GCOAST		I
77	K3	IN0CLP	GBLKSPL		I
78	L1	IN0AHS	GHS		I
79	L2	IN0BO2	P_FAIL	Power Failure Detection Input	I
80	L4	IN0CLK	GCLK		I
81	M3	IN0RO8	FAN_SW1	Fan Control Switch	O
82	N1	IN0GO6	LAMPDC_ON	On: H	O
126	P1	IN0GO2	DC_ON	On: H	O
134	P2	IN0RO4	READY_LED	READY LED Drive On: H	O
135	R4	IN1PEN	VPEN		I
138	T3	IN1R9	IRM_STB_PW		
139	U3	IN1CLK	VCLK		I
140	V6	ADC2	KEY3	Key Input	I
141	V7	XO	XO		O
144	V17	DCLK	DCLK		O
149	V18	DHS	DHS		O
152	V19	DVS	DVS		O
155	W1	IN1R3	SH_G_STB_PW		O
157	W2	IN1R5	AUDIO_MUTE	Audio Mute Output Mute-On: H	O
158	W4	IN1R2	SH_R_STB_PW		O
163	W7	XI	XI		I
202	W9	PORTA6	SDA3		I/O
206	W10	PORTA7	SCL3		O
207	W12	PORTB5	SCLK		O
209	W13	TXD	TXD_PW	Serial Control TXD	O
211	Y1	TXD1	CHO_TXD	Ballast Control TXD	O
212	Y3	IN1FIELD	VFIELD		I
214	Y4	IN1VBI	VBLK		I
215	Y6	LVDSSEN	LVDSSEN		
216	Y8	NMI	NMI		I
218	Y9	PORTA0	SDA0		I/O
220	Y13	RXD	RXD_PW	Serial Control RXD	O
222	AA1	IN1AHS	VHS		I
223	AA3	IN1R7	IRM_RST_PW		O
223	AA4	RXD1	CHO_RXD	Ballast Control RXD	O
226	AA5	IN1R6	MONIT_OUT	Monitor Out Switch Montor-Out: H	O
258	AA6	ADC0	KEY1	Key Input	I
265	AA8	RESETB	RESET	Reset Input	I
266	AA9	PORTA3	SCL1		O
268	AA10	PORTA2	SDA1		I/O
269	AB2	IN1VS	VVS		I
271	AB4	IN1R8	3L_EN		O
282	AB5	IN1R4	SH_B_STB_PW		O
284	AB6	IN1HS	VHS		I
285	AB7	ADC1	KEY2	Key Input	I
286	AB9	PORTB4	SDATA_I/O		I/O
315	AB10	PORTA5	SCL2		O
316	AB11	PORTA1	SCL0		O
326	AB12	PORTA4	SDA2		I/O
327	AB13	IRRCVR0	RC	Remote Contro Signal Input	I

Control Port Functions

I/O Expander Port Functions (IC1801)

PIN NO.	NAME	FUNCTION	ACTION	I/O
8	P7	S_SW	Scart switch H: Scart	O
20	XCS	CS0		I
21	XRD	RD		I
22	XWR	WR		I
34	WAKEUP	WAKEUP		I
36	RST	RESET	L- H: Reset	I
38	XI	XTAL IN		I
39	XO	XTAL OUT		O
48	P21	DDC_SW2	n/a	O
49	P22	ECO_SW	n/a	O
50	P23	S/CV_SW	S-Video/Video Switch H: Composite Video-in	O
51	P24	SC_SW	SCART In Switch H: Scart In	O
52	P25	RESET_N		O
53	P26	LED_SW	LED Drive Switch H: On	O
54	P27	USB_VBUS		I
61	AIN1	Option Switch		I
62	AIN2	Option Switch		I
63	AIN3	Option Switch		I
64	AIN4	Option Switch		I
65	AIN5	Option Switch		I
66	AIN6	Option Switch		I
67	AIN7	Option Switch		I
68	AIN8	Option Switch		I
79	P39	I/O_R/C		I
81	DMINUS	USB_D-		I
82	DPLUS	ISB_D+		I
91	P11	SCLK_I/O		I/O
92	P12	SDATA_I/O		O
98	P16	PC1/PC2_SW	L: PC1, H: PC2	O
99	P17	PCAV_SW	n/a	O
100	P18	DVI_SW	n/a	O

IIC Bus DA Converter Port Functions (IC3531)

PIN NO.	NAME	FUNCTION	ACTION	I/O
1	R	Reset	"H": Fixed	I
2	SCL	IIC SCL	"L": Active	I/O
3	SDA	IIC SDA	"L": Active	I/O
4	Ao7	REF_R		O
5	Ao8	REF_G		O
6	Ao9	REF_B		O
7	Ao10	FAN_CONT_A	0xFFh:min 0x00h:Max	O
8	Ao11	FAN_CONT_2	0xFFh:min 0x00h:Max	O
9	Ao12	Not used		O
10	VrefL		Lower Ref. Voltage for D/A Convertor GND	I
11	VrefU1		Lower Ref. Voltage for D/A Converter(CH7~CH12)Vcc(Standby 5V)	I
12	GND	GND	GND	I
13	VrefU2		Upper Ref. Voltage for D/A Convertor CH1~CH6)Vcc(Standby 5V)	I
14	Ao1	Not used		O
15	Ao2	Not used		O
16	Ao3	Not used		O
17	Ao4	R_V1	Video signal reference voltage R	O
18	Ao5	G_V1	Video signal reference voltage B	O
19	Ao6	B_V1	Video signal reference voltage B	O
20	Vcc	Power for Digital	Vcc(Standby 5V)	I
21	Vdd	Power for Analog	Vcc(Standby 5V)	I
22	CS2	Chip Select 2	"H": Fixed	I
23	CS1	Chip Select 1	"H": Fixed	I
24	CS0	Chip Select 0	"L": Fixed	I

[illegible]

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 considerable 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.

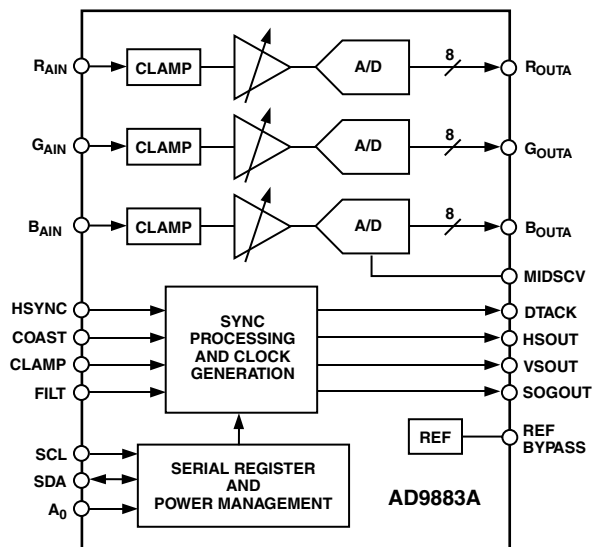
Caution:

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.

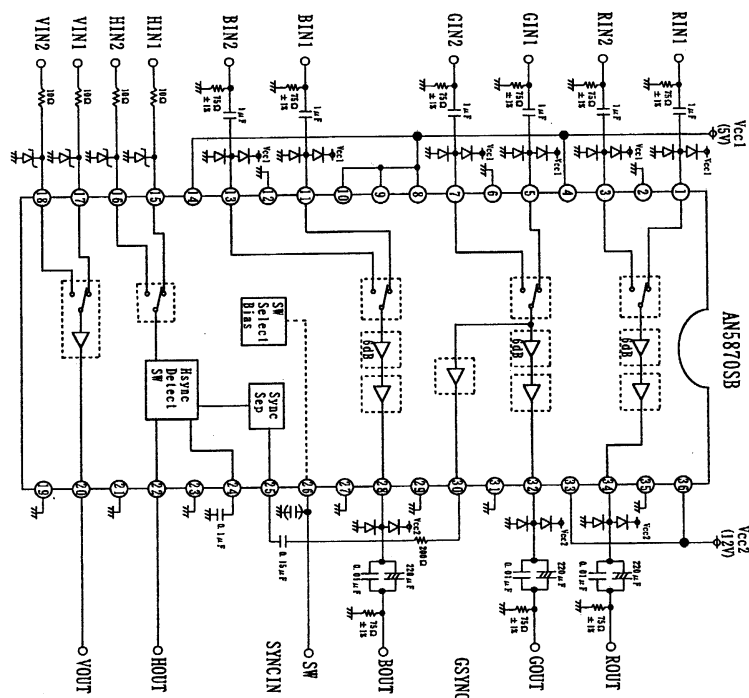
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

IC Block Diagrams

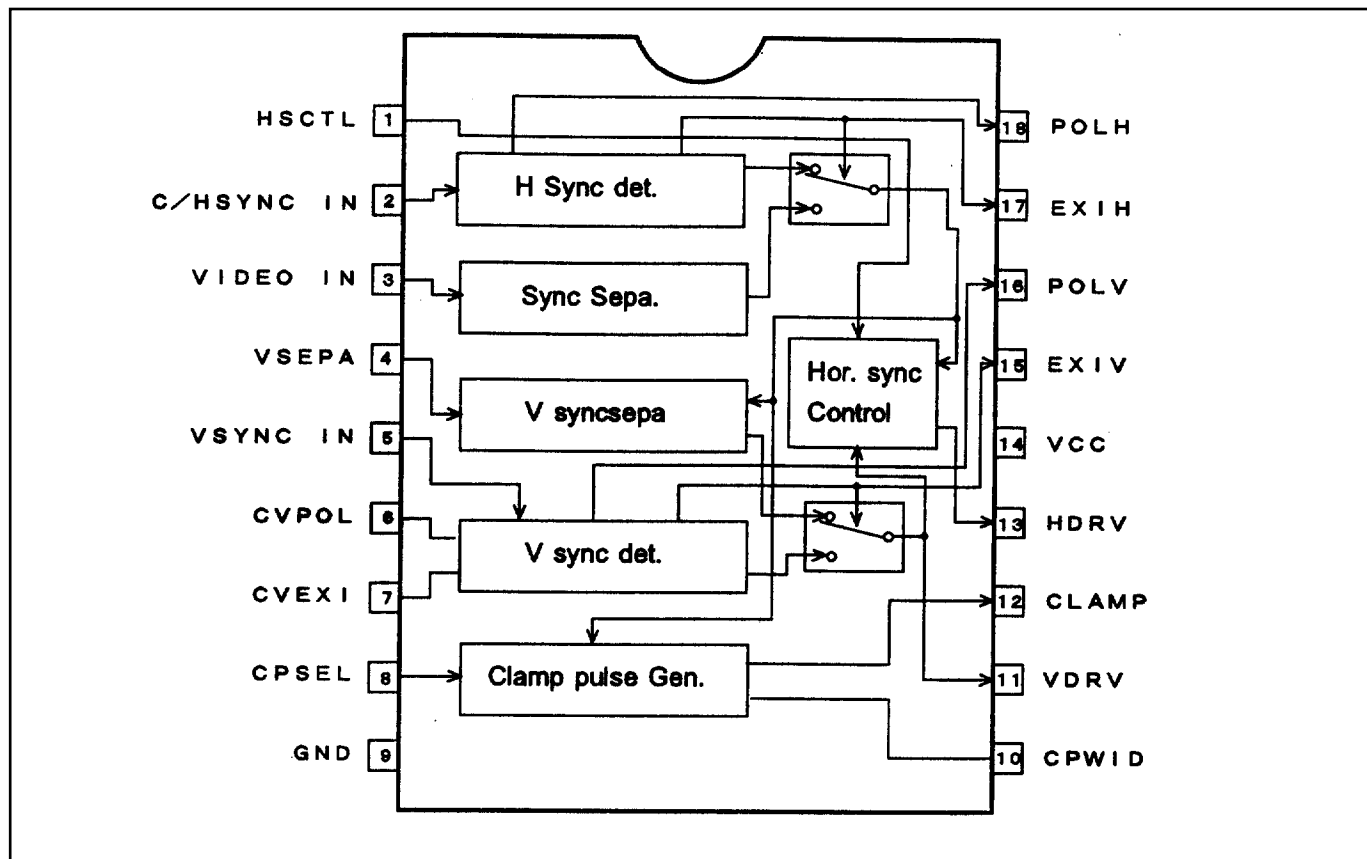
● AD9883 <A/D, IC8201>



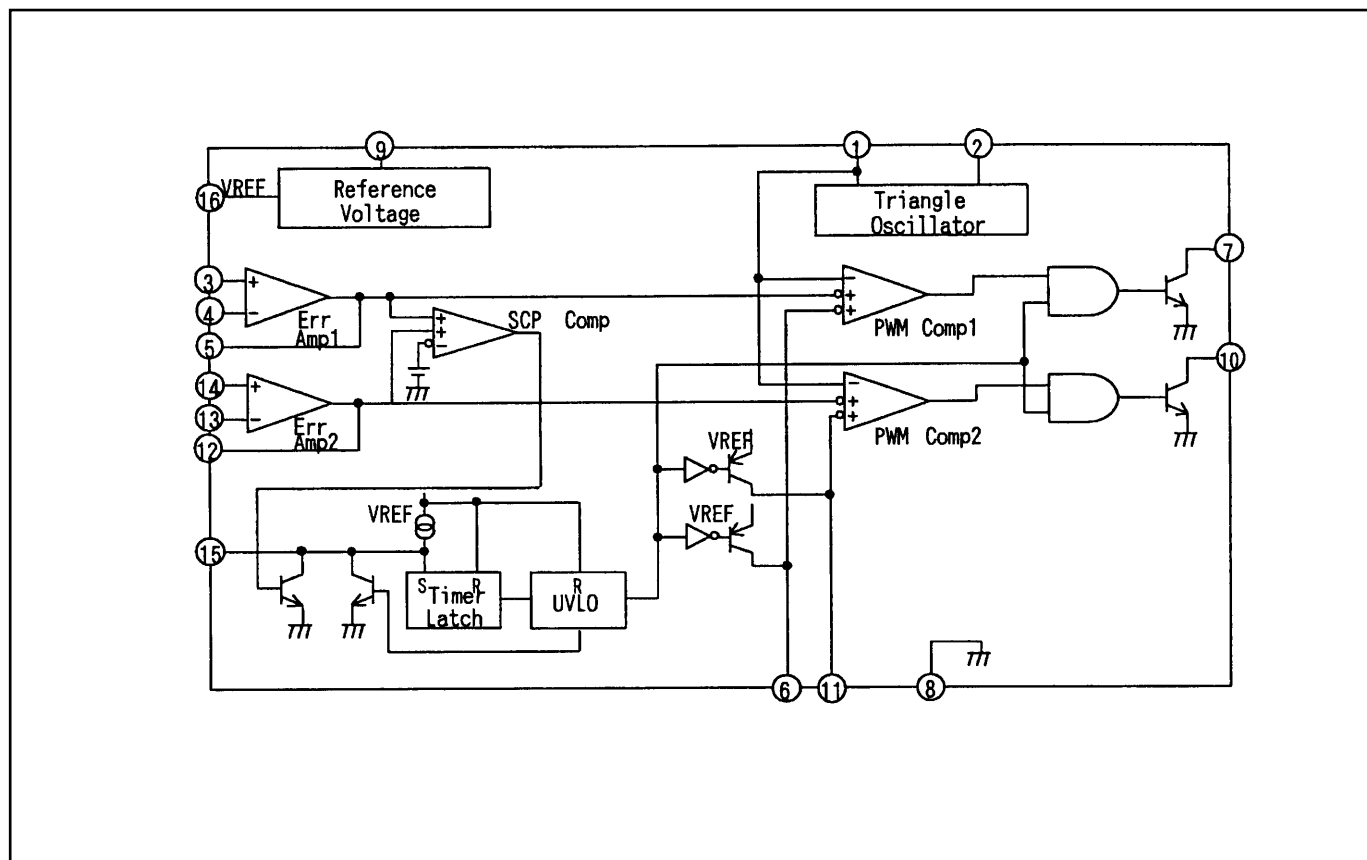
● AN5870 <RGB, SYNC-SW, IC5201>



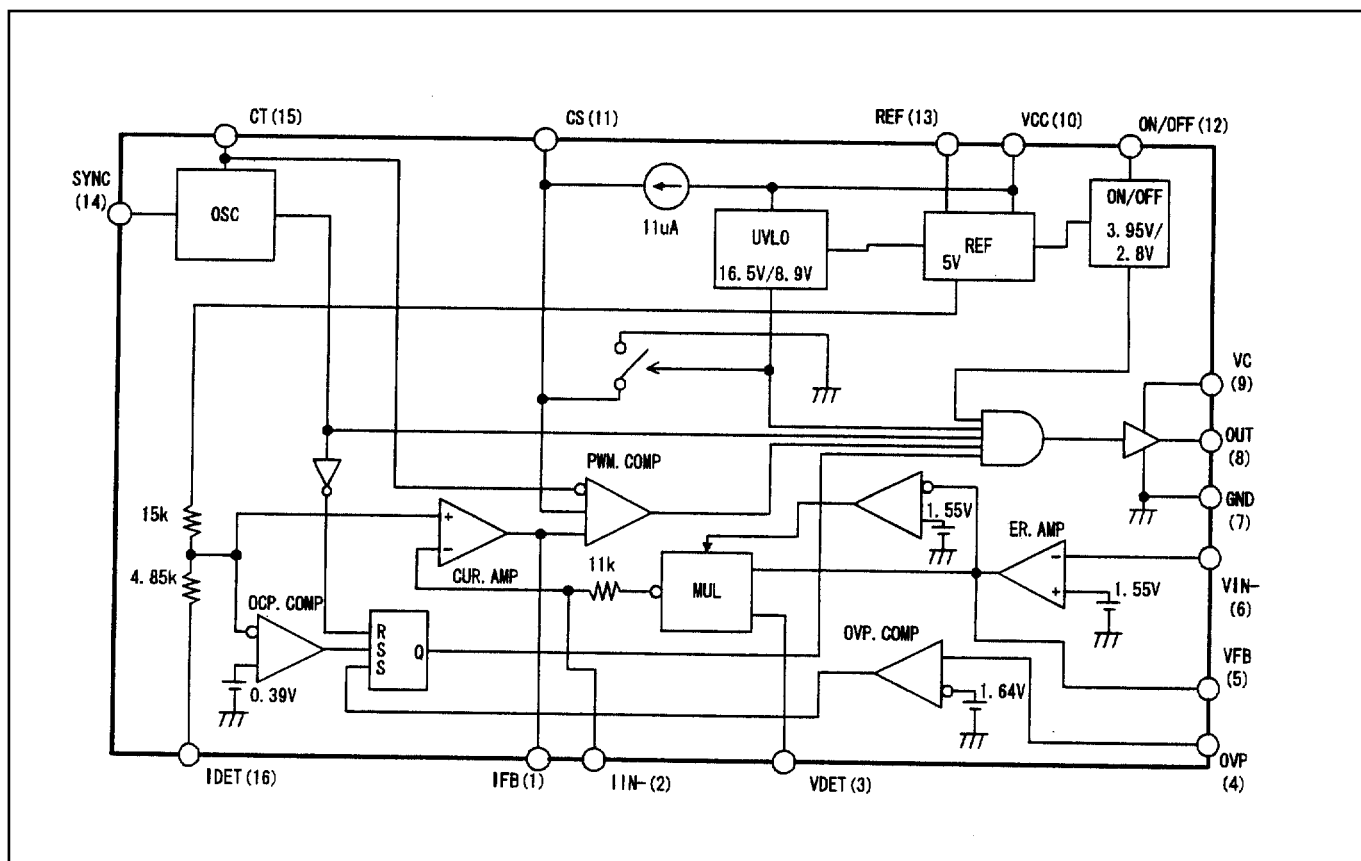
● BA7078 <Sync Separator, IC5301>



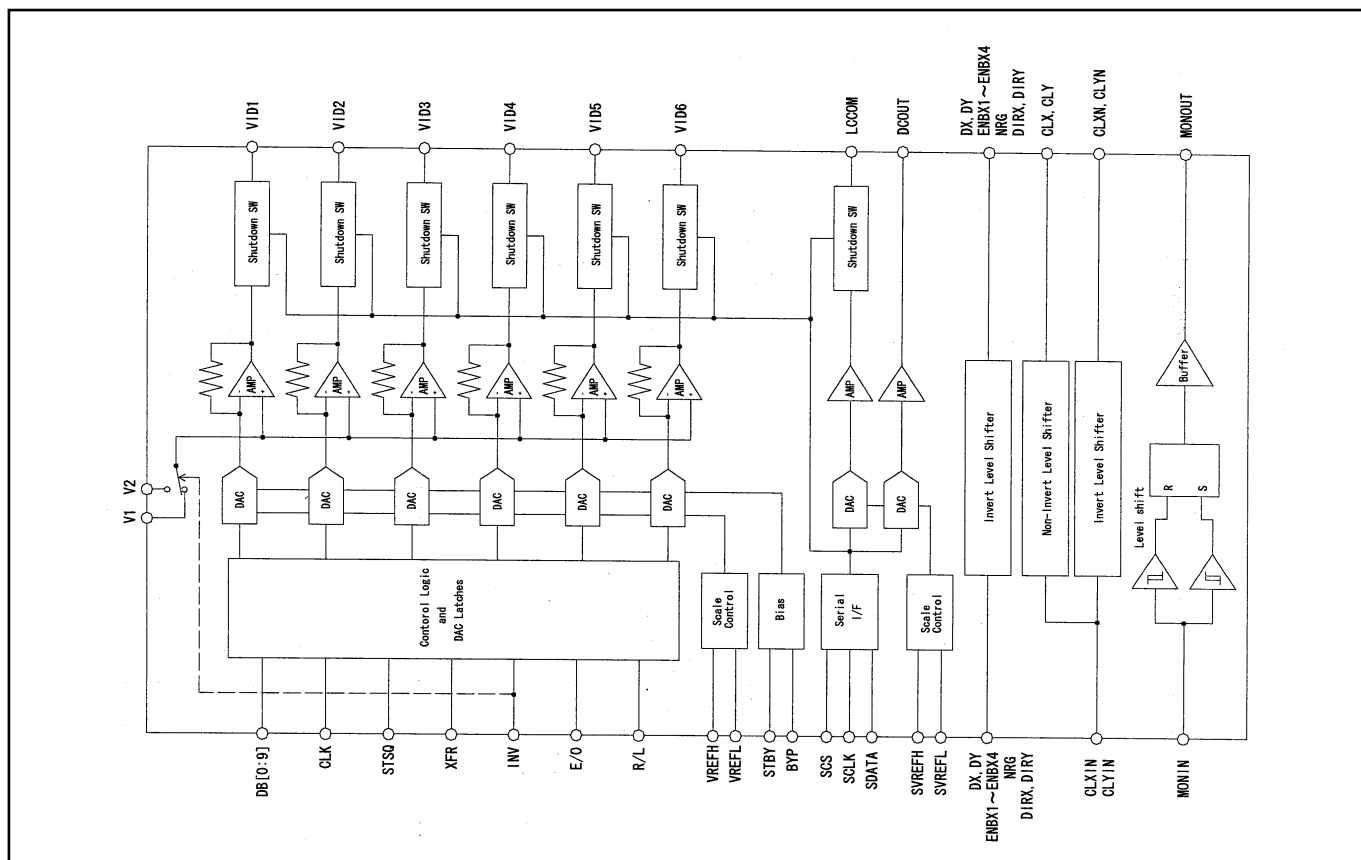
● BA9743<DDC Control, IC5651>



● FA5502 <P.F. Control, IC621>

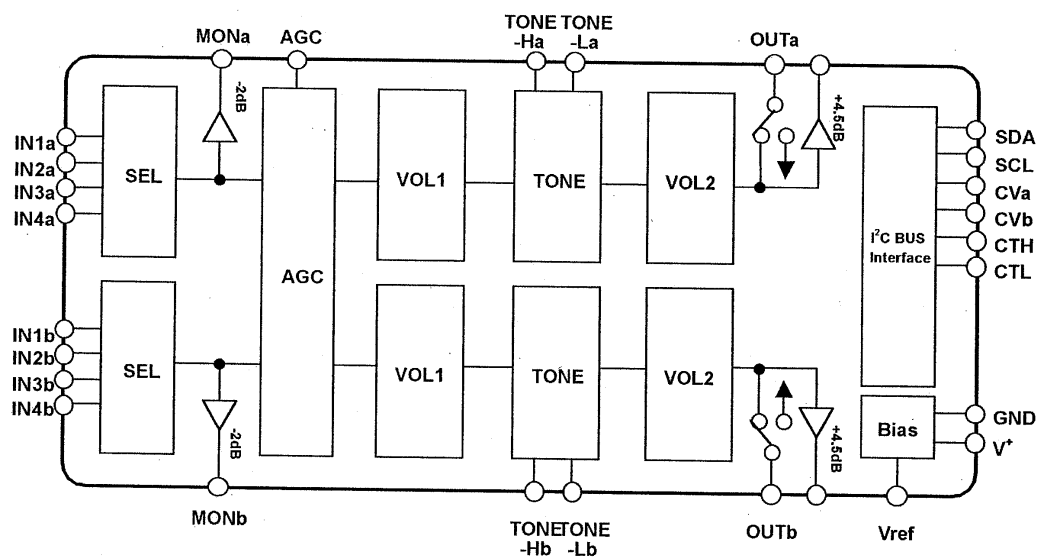


● L3E6100D <D/A, S/H-LCD Driver, IC501, IC531, IC561>

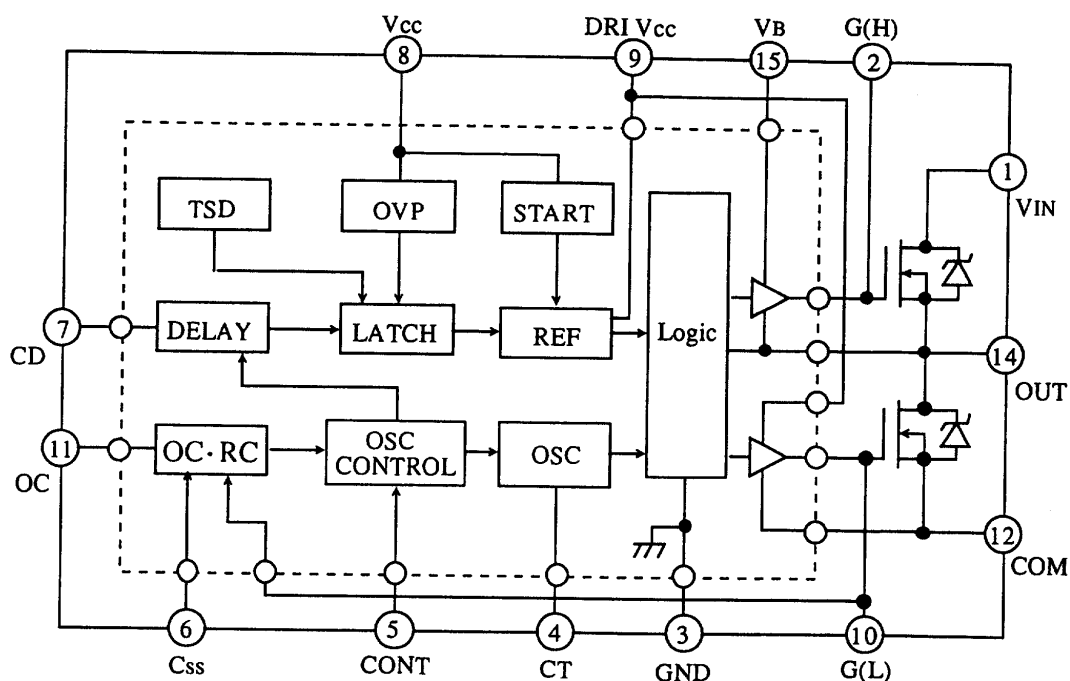




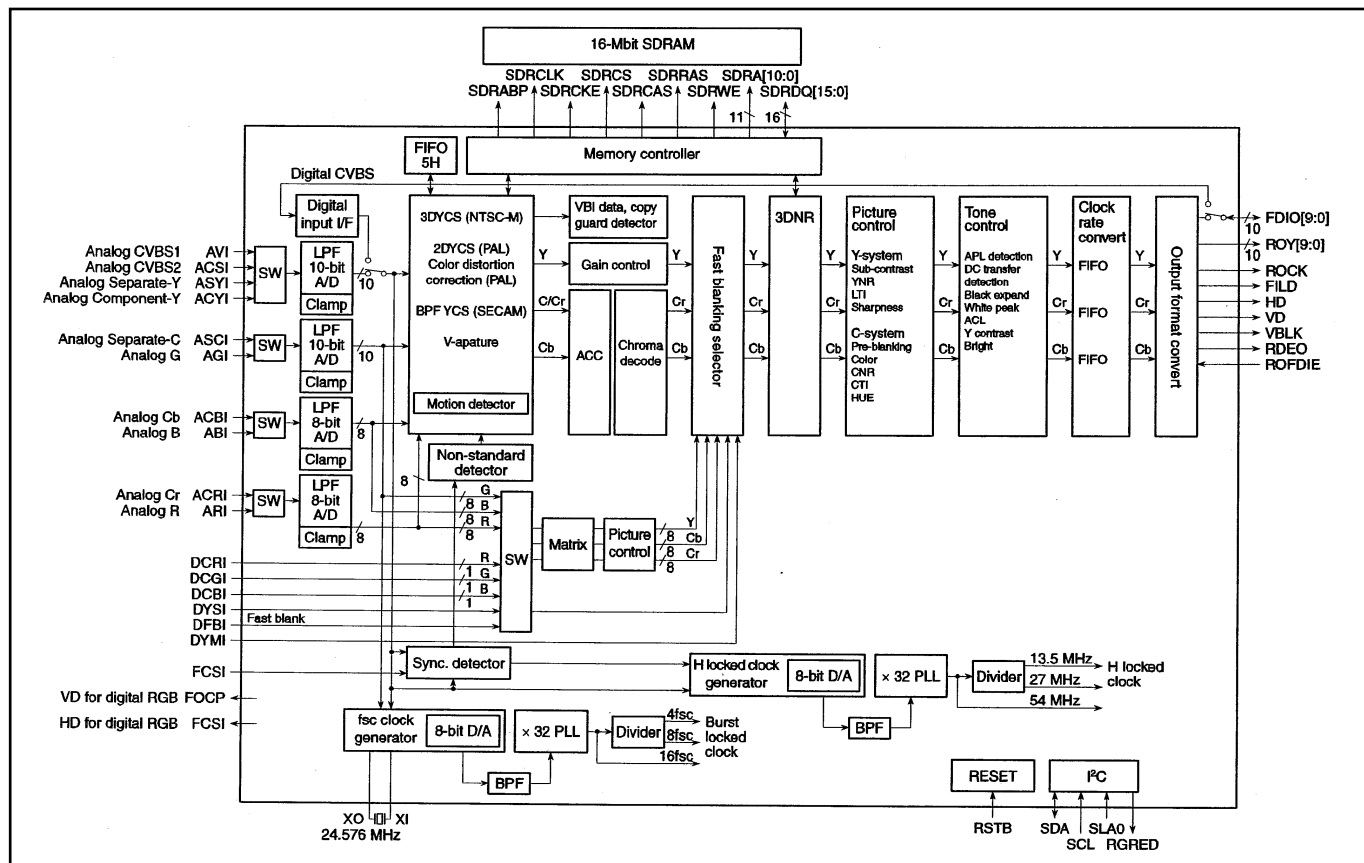
● NJW1141 <Audio Control, IC5001>



● STR-Z2156A <Power Switching, IC631>



● uPD64012 <Video Decoder, IC101>



Electrical Parts List

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

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

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

Material:

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

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

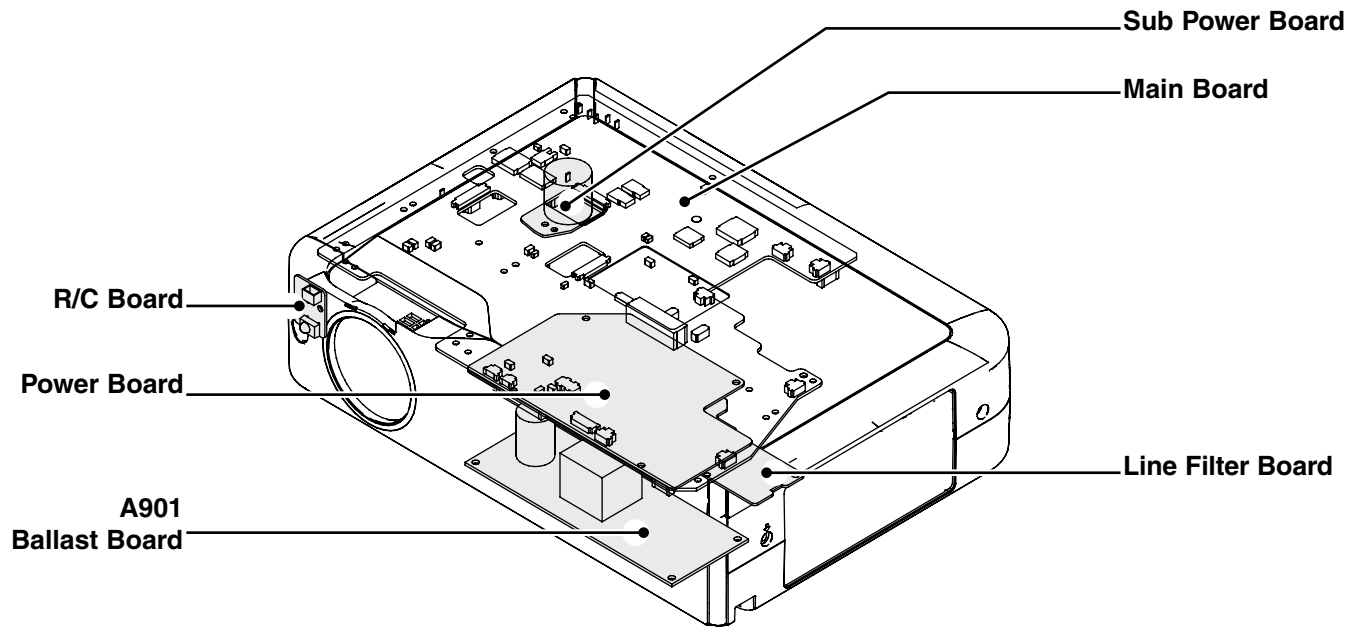
Material:

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

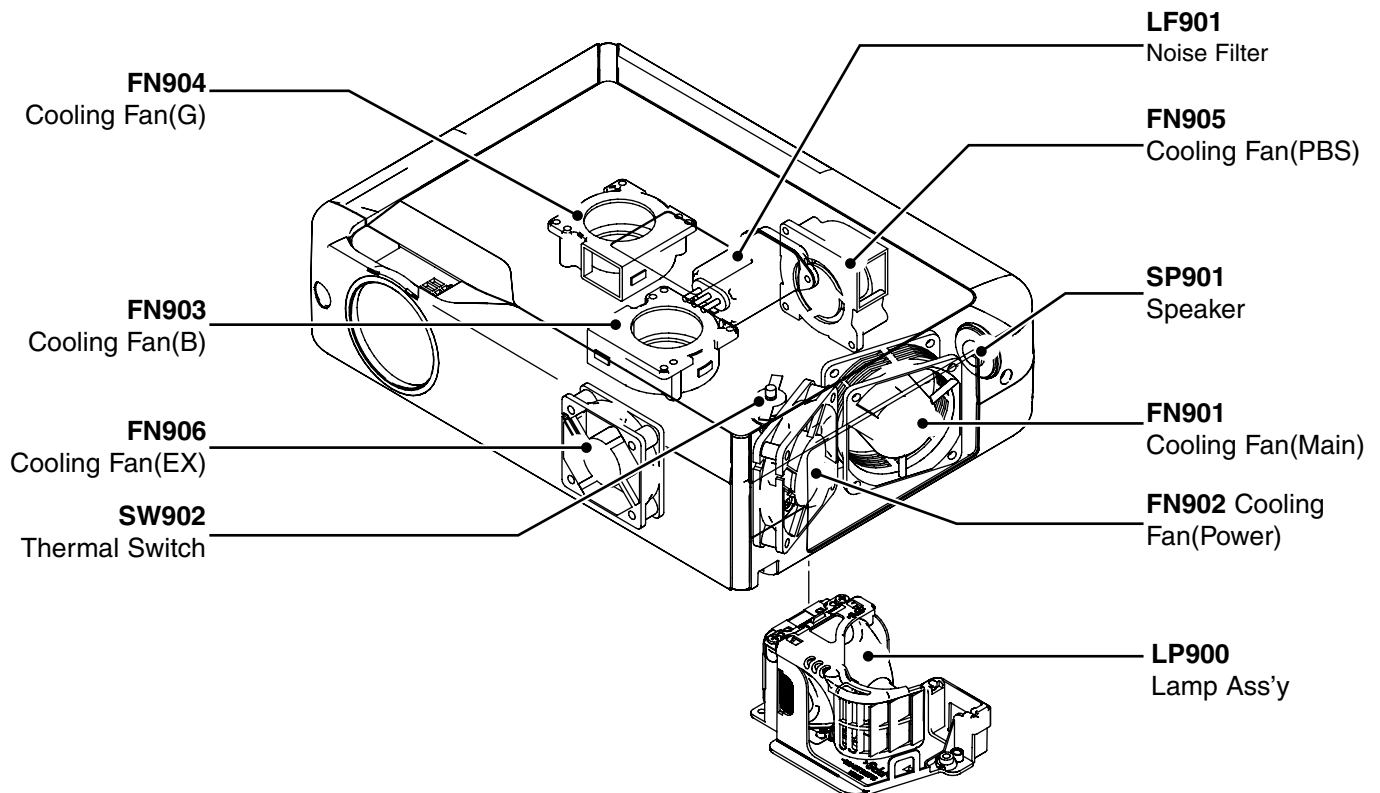
Electrical Parts List

Electrical Parts Location

● Assembled Boards



● OUT OF CIRCUIT BOARD



Electrical Parts List

Electrical Parts List

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

Key No.	Part No.	Description	Key No.	Part No.	Description
ASSEMBLED BOARDS					
△ 610 321 9677	ASSY,PWB,SUB-POWER MS5A		Q602	405 173 9615	TR 2SA1235A1E
△ 610 323 0498	ASSY,PWB,POWER MT5A			405 173 9714	TR 2SA1235A1F
△ 610 326 1836	ASSY,PWB,LINE FILTER MT5A			405 014 4519	TR 2SC2412K T146 R
△ 610 325 1653	ASSY,PWB,MAIN MR5A			405 014 4618	TR 2SC2412K T146 S
△ 610 325 1806	ASSY,PWB,R/CS. MR5A			405 015 8724	TR 2SC2812-L6-TB
				405 015 8922	TR 2SC2812-L7-TB
				405 163 1612	TR 2SC2812N-L6-TB0
				405 173 9813	TR 2SC3928A1R
				405 173 9912	TR 2SC3928A1S
			Q611	405 140 3704	TR 2SK2698
			Q621	405 014 4519	TR 2SC2412K T146 R
				405 014 4618	TR 2SC2412K T146 S
				405 015 8724	TR 2SC2812-L6-TB
				405 015 8922	TR 2SC2812-L7-TB
				405 163 1612	TR 2SC2812N-L6-TB0
				405 173 9813	TR 2SC3928A1R
				405 173 9912	TR 2SC3928A1S
			Q622	405 134 5925	TR 2SA1037AK-T146-R
				405 147 2215	TR 2SA1037AK-S-T146
				405 002 0318	TR 2SA1037K T146 R
				405 002 0417	TR 2SA1037K T146 S
				405 002 6726	TR 2SA1179-M6-TB
				405 002 6924	TR 2SA1179-M7-TB
				405 163 1513	TR 2SA1179N-M6-TB
				405 173 9615	TR 2SA1235A1E
				405 173 9714	TR 2SA1235A1F
			Q642	405 014 4519	TR 2SC2412K T146 R
				405 014 4618	TR 2SC2412K T146 S
				405 015 8724	TR 2SC2812-L6-TB
				405 015 8922	TR 2SC2812-L7-TB
				405 163 1612	TR 2SC2812N-L6-TB0
				405 173 9813	TR 2SC3928A1R
				405 173 9912	TR 2SC3928A1S
			Q643	405 211 5804	TR 2SK3561
			Q651	405 014 4519	TR 2SC2412K T146 R
				405 014 4618	TR 2SC2412K T146 S
				405 015 8724	TR 2SC2812-L6-TB
				405 015 8922	TR 2SC2812-L7-TB
				405 163 1612	TR 2SC2812N-L6-TB0
				405 173 9813	TR 2SC3928A1R
				405 173 9912	TR 2SC3928A1S
			Q661	405 047 9017	TR 2SB1204-S-TL
				405 047 9116	TR 2SB1204-T-TL
			Q662	405 014 4519	TR 2SC2412K T146 R
				405 014 4618	TR 2SC2412K T146 S
				405 015 8724	TR 2SC2812-L6-TB
				405 015 8922	TR 2SC2812-L7-TB
				405 163 1612	TR 2SC2812N-L6-TB0
				405 173 9813	TR 2SC3928A1R
				405 173 9912	TR 2SC3928A1S
OUT OF CIRCUIT BOARD					
△LF901	645 078 6471	UNIT,NOISE FILTER			
△LP900	610 323 0726	COMPL,OPTICAL LAMP MT5A			
△A901	645 076 4790	UNIT,BALLAST			
A901A	610 322 7092	CABLE,BALLAST MS5A			
△FN901	645 054 9120	MOTOR,FAN DC 2.64W			
△FN902	645 079 7194	MOTOR,FAN DC 1.92W			
△FN903	645 062 3103	MOTOR,FAN DC 3.6W			
△FN904	645 062 3103	MOTOR,FAN DC 3.6W			
△FN905	645 062 3103	MOTOR,FAN DC 3.6W			
△FN906	645 078 5665	MOTOR,FAN DC 1.56W			
SP901	645 078 6105	SPEAKER,8			
SP901A	610 323 6766	HOLDER SPEAKER-MT5A			
SW902	645 079 2526	SWITCH,THERMAL(105DEG)			
WK8D-28D	645 053 2566	CORD,ID CONNECTOR			
610 321 9677 ASSY,PWB,SUB-POWER MS5A					
TRANSISTOR					
Q7801	405 128 9615	TR 2SC2411K-T146-Q			
Q7802	405 128 9615	TR 2SC2411K-T146-Q			
CAPACITOR					
C7801	404 102 7200	DL-ELECT 0.47F Z 11V			
RESISTOR					
R7801	401 162 3619	MT-GLAZE 470 JA 1/10W			
R7802	401 102 7615	MT-GLAZE 27 JA 1W			
R7803	401 152 3216	MT-GLAZE 330 JA 1/10W			
R7804	401 102 7516	MT-GLAZE 22 JA 1W			
DIODE					
D7801	407 208 9713	ZD UDZS-TE-175.6B			
D7802	407 208 9713	ZD UDZS-TE-175.6B			
D7803	407 210 5413	DIODE RB551V-30-TE-17			
D7804	407 209 1211	ZD UDZS-TE-176.2B			
D7806	407 210 5413	DIODE RB551V-30-TE-17			
610 323 0498 ASSY,PWB,POWER MT5A					
TRANSISTOR					
Q601	405 134 5925	TR 2SA1037AK-T146-R			
	405 147 2215	TR 2SA1037AK-S-T146			
	405 002 0318	TR 2SA1037K T146 R			
	405 002 0417	TR 2SA1037K T146 S			
	405 002 6726	TR 2SA1179-M6-TB			
	405 002 6924	TR 2SA1179-M7-TB			
	405 163 1513	TR 2SA1179N-M6-TB			
INTEGRATED CIRCUIT					
IC621	409 523 1410	IC FA5502M			
IC631	409 558 4209	IC STR-Z2156A			
IC651	409 344 6529	IC UPC1093T-E1			
CAPACITOR					
C605	403 164 0214	CERAMIC 0.1U Z 25V			
C611	403 222 1323	CERAMIC 1000P K 1K			
C612	403 222 1323	CERAMIC 1000P K 1K			
C613	403 427 2016	MT-POLYEST 1U K 400V			
C614	403 427 2016	MT-POLYEST 1U K 400V			
C615	404 102 7101	ELECT 120U M 420V			
C616	403 427 1811	MT-POLYEST 0.1U K 450V			
C62A	403 157 3314	CERAMIC 68P J 50V			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C62B	403 157 6612	CERAMIC 470P K 50V	R62J	401 162 2711	MT-GLAZE 180 JA 1/10W
C62C	403 374 4217	CERAMIC 0.33U K 10V	R62L	401 256 2610	MT-GLAZE 2.4K JA 1/10W
C62D	403 164 0214	CERAMIC 0.1U Z 25V	R62M	401 256 7516	MT-GLAZE 390 JA 1/10W
C62E	403 164 0214	CERAMIC 0.1U Z 25V	R62P	401 256 6311	MT-GLAZE 47K JA 1/10W
C62F	403 370 9117	CERAMIC 0.068U K 50V	R62Q	401 255 8712	MT-GLAZE 22 JA 1/10W
C62I	403 149 9218	CERAMIC 0.01U Z 50V	R62R	401 256 4713	MT-GLAZE 5.6M JA 1/10W
C62J	403 169 2817	CERAMIC 330P J 50V	R62T	401 255 9511	MT-GLAZE 220K JA 1/10W
C62K	403 323 3612	CERAMIC 0.047U K 50V	△R631	424 006 1302	FUSE 250V 2.5A
C62M	403 164 0214	CERAMIC 0.1U Z 25V	R633	401 323 4615	MT(LEADFREE 15 JA 3/4W
C62R	403 417 9919	CERAMIC 4.7U K 25V	R634	401 238 4519	MT-GLAZE 47 JA 1/3W
C62T	403 164 0214	CERAMIC 0.1U Z 25V	R635	401 150 6219	MT-GLAZE 1K JA 1/10W
C631	403 268 7010	TA-SOLID 2.2U M 35V	R636	401 257 7416	MT-GLAZE 120 JA 1/3W
C633	403 113 3815	CERAMIC 1000P K 50V	R637	401 162 3718	MT-GLAZE 4.7K JA 1/10W
C634	403 247 3316	CERAMIC 330P K 2K	R638	401 150 5915	MT-GLAZE 10K JA 1/10W
C635	403 167 8613	CERAMIC 220P K 2K	R639	401 256 2610	MT-GLAZE 2.4K JA 1/10W
C636	403 070 2616	CERAMIC 0.1U Z 50V	R641	401 188 0715	MT-GLAZE 220K JA 1/4W
C637	403 157 6810	CERAMIC 680P K 50V	R646	401 150 5915	MT-GLAZE 10K JA 1/10W
C638	403 208 1412	TA-SOLID 1U M 25V	R647	401 256 5918	MT-GLAZE 2.7K JA 1/10W
	403 411 5719	TA-SOLID 1U M 25V	R648	401 256 3617	MT-GLAZE 15K JA 1/10W
C639	403 410 7605	ELECT 220U M 35V	R651	401 150 6219	MT-GLAZE 1K JA 1/10W
C640	403 164 0214	CERAMIC 0.1U Z 25V	R652	401 162 2216	MT-GLAZE 10 JA 1/10W
C641	403 352 8213	CERAMIC 0.47U Z 16V	R653	401 326 1710	MT-GLAZE 10K DA 1/10W
C642	403 084 0318	POLYPRO 0.022U J 630V	R654	401 152 3216	MT-GLAZE 330 JA 1/10W
C643	403 256 2416	CERAMIC 0.22U Z 50V	R655	401 256 7318	MT-GLAZE 6.8K JA 1/10W
C644	403 437 4611	CERAMIC 10U K 25V	R656	401 256 6212	MT-GLAZE 270 JA 1/10W
C651	403 400 6809	ELECT 1000U M 25V	R657	401 150 6219	MT-GLAZE 1K JA 1/10W
C652	403 427 6202	ELECT 1000U M 10V	R658	401 150 6219	MT-GLAZE 1K JA 1/10W
C653	403 437 4700	ELECT 470U M 16V	R659	401 150 6219	MT-GLAZE 1K JA 1/10W
C654	403 164 0214	CERAMIC 0.1U Z 25V	R660	401 162 3718	MT-GLAZE 4.7K JA 1/10W
C655	403 164 0214	CERAMIC 0.1U Z 25V	R661	401 150 5915	MT-GLAZE 10K JA 1/10W
C656	403 345 9616	CERAMIC 0.47U K 10V	R662	401 230 8010	MT-GLAZE 1K JA 1/3W
C657	403 157 6414	CERAMIC 330P K 50V	R663	401 162 3718	MT-GLAZE 4.7K JA 1/10W
C658	403 157 6414	CERAMIC 330P K 50V	R664	401 150 5915	MT-GLAZE 10K JA 1/10W
C659	403 400 6809	ELECT 1000U M 25V	VARIABLE RESISTOR		
C660	403 164 0214	CERAMIC 0.1U Z 25V	VR611	645 025 7414	VR, SEMI, 1K S
C661	403 358 3212	CERAMIC 10U K 6.3V	TRANSFORMER		
	403 368 7316	CERAMIC 10U K 6.3V	△T651	645 077 6311	TRANS, POWER, PULSE
C691	403 400 7103	ELECT 330U M 25V	COIL		
C693	403 400 5000	ELECT 1000U M 10V	△L611	645 077 6571	LINE FILTER
C694	403 400 3907	ELECT 1000U M 6.3V	L612	645 077 6564	INDUCTOR, 900U
RESISTOR					
R603	401 255 8514	MT-GLAZE 9.1K JA 1/10W	DIODE		
R604	401 256 6618	MT-GLAZE 68K JA 1/10W	D611	407 191 3900	DIODE FML-G16S
R606	401 162 4012	MT-GLAZE 560 JA 1/10W	D612	407 164 4012	DIODE RB160L-40-TE25
R607	401 162 2414	MT-GLAZE 1.2K JA 1/10W		407 149 6324	DIODE SFPB-54V
R611	402 088 0109	RESISTER 0.15 KA 2W	D616	407 149 0817	DIODE 1SS355-TE-17
R612	402 088 0109	RESISTER 0.15 KA 2W	D617	407 149 0817	DIODE 1SS355-TE-17
R615	401 242 3911	MT-GLAZE 240K JA 1/2W	D618	407 149 0817	DIODE 1SS355-TE-17
R616	401 242 3911	MT-GLAZE 240K JA 1/2W	D619	407 149 0817	DIODE 1SS355-TE-17
R617	401 259 9012	MT-GLAZE 150K FA 1/2W	D62R	407 149 0817	DIODE 1SS355-TE-17
R618	401 259 9012	MT-GLAZE 150K FA 1/2W	D631	407 190 4116	DIODE SFPL-52V
R619	401 259 9012	MT-GLAZE 150K FA 1/2W	D633	407 221 7116	ZENER DIODE UDZS-TE-1712B
R61A	401 275 2912	MT-GLAZE 68K JA 1W	D636	407 226 7111	DIODE SC311-06
R61B	401 275 2912	MT-GLAZE 68K JA 1W	D651	407 222 9604	DIODE FMB-2306
R61E	401 275 2912	MT-GLAZE 68K JA 1W		407 250 2400	DIODE RB225T-60
R61F	401 275 2912	MT-GLAZE 68K JA 1W	D652	407 222 9703	DIODE FMJ-23L
R620	401 259 9012	MT-GLAZE 150K FA 1/2W		407 250 2509	DIODE RSX1001T3
R623	401 162 3718	MT-GLAZE 4.7K JA 1/10W	D653	407 247 8824	DIODE RF101L2S
R62A	401 256 3815	MT-GLAZE 1.5K JA 1/10W		407 190 4116	DIODE SFPL-52V
R62B	401 150 5915	MT-GLAZE 10K JA 1/10W	D654	407 209 1211	ZD UDZS-TE-176.2B
R62C	401 162 3817	MT-GLAZE 470K JA 1/10W	DB611	407 202 7705	DIODE D10XB60
R62D	401 255 6817	MT-GLAZE 30K JA 1/10W	MISCELLANEOUS		
R62E	401 256 3716	MT-GLAZE 750 JA 1/10W	FB611	610 244 3974	CORE
R62F	401 264 2817	MT-GLAZE 1.2K FA 1/10W	FB613	610 244 3974	CORE
R62G	401 255 6510	MT-GLAZE 100 JA 1/10W	FB691	610 244 3974	CORE
R62H	401 152 3216	MT-GLAZE 330 JA 1/10W	FB693	610 244 3974	CORE
R62I	401 265 0911	MT-GLAZE 4.7 JA 1/10W			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
FB694	407 210 5413	DIODE RB551V-30-TE-17		405 173 9714	TR 2SA1235A1F
△PC641	407 223 7312	PC TLP421F(D4-GB-TP4)	Q1071	405 134 5925	TR 2SA1037AK-T146-R
	407 223 8319	PC TLP421F(D4-GR-TP4)		405 147 2215	TR 2SA1037AK-S-T146
△PC642	407 223 7312	PC TLP421F(D4-GB-TP4)		405 002 0318	TR 2SA1037K T146 R
	407 223 8319	PC TLP421F(D4-GR-TP4)		405 002 0417	TR 2SA1037K T146 S
△PC643	407 223 7312	PC TLP421F(D4-GB-TP4)		405 002 6726	TR 2SA1179-M6-TB
	407 223 8319	PC TLP421F(D4-GR-TP4)		405 002 6924	TR 2SA1179-M7-TB
PTH611	408 037 5508	THERMISTOR NTH11D5R0LC		405 163 1513	TR 2SA1179N-M6-TB
PTH612	408 053 9108	THERMISTOR PTFM04BC222Q2N34B		405 173 9615	TR 2SA1235A1E
				405 173 9714	TR 2SA1235A1F
610 326 1836 ASSY,PWB,LINE FILTER MT5A			Q1351	405 045 8725	TR 2SK536-TB
CAPACITOR			Q1352	405 045 8725	TR 2SK536-TB
△C601	404 104 9608	MT-POLYEST 0.22U K 275V	Q1371	405 045 8725	TR 2SK536-TB
	404 104 9707	MT-POLYEST 0.22U M 275V	Q1372	405 045 8725	TR 2SK536-TB
△C602	404 104 9608	MT-POLYEST 0.22U K 275V	Q2011	405 014 4519	TR 2SC2412K T146 R
	404 104 9707	MT-POLYEST 0.22U M 275V		405 014 4618	TR 2SC2412K T146 S
RESISTOR				405 015 8724	TR 2SC2812-L6-TB
△R601	401 287 9015	MT-GLAZE 470K JA 1W		405 015 8922	TR 2SC2812-L7-TB
△R602	401 287 9015	MT-GLAZE 470K JA 1W	Q2021	405 163 1612	TR 2SC2812N-L6-TB0
VARIABLE RESISTOR				405 173 9813	TR 2SC3928A1R
△VA601	408 018 9808	VARISTOR ENC471D-14AS		405 173 9912	TR 2SC3928A1S
COIL				405 014 4519	TR 2SC2412K T146 R
△L601	645 050 2231	LINE FILTER		405 014 4618	TR 2SC2412K T146 S
MISCELLANEOUS				405 015 8724	TR 2SC2812-L6-TB
△F601	423 021 7801	FUSE 250V 6.3A		405 015 8922	TR 2SC2812-L7-TB
SW901	645 063 8077	SWITCH,PUSH 2P-2TX3		405 163 1612	TR 2SC2812N-L6-TB0
				405 173 9813	TR 2SC3928A1R
610 325 1653 ASSY,PWB,MAIN MR5A				405 173 9912	TR 2SC3928A1S
TRANSISTOR			Q2501	405 002 8324	TR 2SA1203-Y-TE12L
Q101	405 014 4519	TR 2SC2412K T146 R	Q2502	405 014 4519	TR 2SC2412K T146 R
	405 014 4618	TR 2SC2412K T146 S		405 014 4618	TR 2SC2412K T146 S
	405 015 8724	TR 2SC2812-L6-TB		405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB		405 015 8922	TR 2SC2812-L7-TB
	405 163 1612	TR 2SC2812N-L6-TB0		405 163 1612	TR 2SC2812N-L6-TB0
	405 173 9813	TR 2SC3928A1R		405 173 9813	TR 2SC3928A1R
	405 173 9912	TR 2SC3928A1S		405 173 9912	TR 2SC3928A1S
Q1031	405 014 4519	TR 2SC2412K T146 R	Q3051	405 014 4519	TR 2SC2412K T146 R
	405 014 4618	TR 2SC2412K T146 S		405 014 4618	TR 2SC2412K T146 S
	405 015 8724	TR 2SC2812-L6-TB		405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB		405 015 8922	TR 2SC2812-L7-TB
	405 163 1612	TR 2SC2812N-L6-TB0		405 163 1612	TR 2SC2812N-L6-TB0
	405 173 9813	TR 2SC3928A1R		405 173 9813	TR 2SC3928A1R
	405 173 9912	TR 2SC3928A1S		405 173 9912	TR 2SC3928A1S
Q1051	405 134 5925	TR 2SA1037AK-T146-R	Q3581	405 014 4519	TR 2SC2412K T146 R
	405 147 2215	TR 2SA1037AK-S-T146		405 014 4618	TR 2SC2412K T146 S
	405 002 0318	TR 2SA1037K T146 R		405 015 8724	TR 2SC2812-L6-TB
	405 002 0417	TR 2SA1037K T146 S		405 015 8922	TR 2SC2812-L7-TB
	405 002 6726	TR 2SA1179-M6-TB		405 163 1612	TR 2SC2812N-L6-TB0
	405 002 6924	TR 2SA1179-M7-TB		405 173 9813	TR 2SC3928A1R
	405 163 1513	TR 2SA1179N-M6-TB		405 173 9912	TR 2SC3928A1S
	405 173 9615	TR 2SA1235A1E	Q3582	405 002 8324	TR 2SA1203-Y-TE12L
	405 173 9714	TR 2SA1235A1F	Q3601	405 014 4519	TR 2SC2412K T146 R
Q1061	405 134 5925	TR 2SA1037AK-T146-R		405 014 4618	TR 2SC2412K T146 S
	405 147 2215	TR 2SA1037AK-S-T146		405 015 8724	TR 2SC2812-L6-TB
	405 002 0318	TR 2SA1037K T146 R		405 015 8922	TR 2SC2812-L7-TB
	405 002 0417	TR 2SA1037K T146 S		405 163 1612	TR 2SC2812N-L6-TB0
	405 002 6726	TR 2SA1179-M6-TB		405 173 9813	TR 2SC3928A1R
	405 002 6924	TR 2SA1179-M7-TB		405 173 9912	TR 2SC3928A1S
	405 163 1513	TR 2SA1179N-M6-TB	Q3801	405 045 8725	TR 2SK536-TB
	405 173 9615	TR 2SA1235A1E	Q4001	405 134 5925	TR 2SA1037AK-T146-R
				405 147 2215	TR 2SA1037AK-S-T146

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q4011	405 002 0318	TR 2SA1037K T146 R	Q5062	405 015 8922	TR 2SC2812-L7-TB
	405 002 0417	TR 2SA1037K T146 S		405 163 1612	TR 2SC2812N-L6-TB0
	405 002 6726	TR 2SA1179-M6-TB		405 173 9813	TR 2SC3928A1R
	405 002 6924	TR 2SA1179-M7-TB		405 173 9912	TR 2SC3928A1S
	405 163 1513	TR 2SA1179N-M6-TB		405 014 4519	TR 2SC2412K T146 R
	405 173 9615	TR 2SA1235A1E		405 014 4618	TR 2SC2412K T146 S
	405 173 9714	TR 2SA1235A1F		405 015 8724	TR 2SC2812-L6-TB
	405 134 5925	TR 2SA1037AK-T146-R		405 015 8922	TR 2SC2812-L7-TB
	405 147 2215	TR 2SA1037AK-S-T146		405 163 1612	TR 2SC2812N-L6-TB0
	405 002 0318	TR 2SA1037K T146 R	Q5063	405 173 9813	TR 2SC3928A1R
Q4014	405 002 0417	TR 2SA1037K T146 S		405 173 9912	TR 2SC3928A1S
	405 002 6726	TR 2SA1179-M6-TB		405 014 4519	TR 2SC2412K T146 R
	405 002 6924	TR 2SA1179-M7-TB		405 014 4618	TR 2SC2412K T146 S
	405 163 1513	TR 2SA1179N-M6-TB		405 015 8724	TR 2SC2812-L6-TB
	405 173 9615	TR 2SA1235A1E		405 015 8922	TR 2SC2812-L7-TB
	405 173 9714	TR 2SA1235A1F		405 163 1612	TR 2SC2812N-L6-TB0
	405 014 4519	TR 2SC2412K T146 R		405 173 9813	TR 2SC3928A1R
	405 014 4618	TR 2SC2412K T146 S		405 173 9912	TR 2SC3928A1S
	405 015 8724	TR 2SC2812-L6-TB	Q5064	405 014 4519	TR 2SC2412K T146 R
	405 015 8922	TR 2SC2812-L7-TB		405 014 4618	TR 2SC2412K T146 S
Q4071	405 163 1612	TR 2SC2812N-L6-TB0		405 015 8724	TR 2SC2812-L6-TB
	405 173 9813	TR 2SC3928A1R		405 015 8922	TR 2SC2812-L7-TB
	405 173 9912	TR 2SC3928A1S		405 163 1612	TR 2SC2812N-L6-TB0
	405 014 4519	TR 2SC2412K T146 R		405 173 9813	TR 2SC3928A1R
	405 014 4618	TR 2SC2412K T146 S		405 173 9912	TR 2SC3928A1S
	405 015 8724	TR 2SC2812-L6-TB	Q5081	405 014 4519	TR 2SC2412K T146 R
	405 015 8922	TR 2SC2812-L7-TB		405 014 4618	TR 2SC2412K T146 S
	405 163 1612	TR 2SC2812N-L6-TB0		405 015 8724	TR 2SC2812-L6-TB
	405 173 9813	TR 2SC3928A1R		405 015 8922	TR 2SC2812-L7-TB
	405 173 9912	TR 2SC3928A1S		405 163 1612	TR 2SC2812N-L6-TB0
Q5031	405 014 4519	TR 2SC2412K T146 R		405 173 9813	TR 2SC3928A1R
	405 014 4618	TR 2SC2412K T146 S		405 173 9912	TR 2SC3928A1S
	405 015 8724	TR 2SC2812-L6-TB	Q5203	405 014 4519	TR 2SC2412K T146 R
	405 015 8922	TR 2SC2812-L7-TB		405 014 4618	TR 2SC2412K T146 S
	405 163 1612	TR 2SC2812N-L6-TB0		405 015 8724	TR 2SC2812-L6-TB
	405 173 9813	TR 2SC3928A1R		405 015 8922	TR 2SC2812-L7-TB
	405 173 9912	TR 2SC3928A1S		405 163 1612	TR 2SC2812N-L6-TB0
Q5032	405 014 4519	TR 2SC2412K T146 R		405 173 9813	TR 2SC3928A1R
	405 014 4618	TR 2SC2412K T146 S		405 173 9912	TR 2SC3928A1S
	405 015 8724	TR 2SC2812-L6-TB	Q5251	405 134 5925	TR 2SA1037AK-T146-R
	405 015 8922	TR 2SC2812-L7-TB		405 147 2215	TR 2SA1037AK-S-T146
	405 163 1612	TR 2SC2812N-L6-TB0		405 002 0318	TR 2SA1037K T146 R
	405 173 9813	TR 2SC3928A1R		405 002 0417	TR 2SA1037K T146 S
	405 173 9912	TR 2SC3928A1S		405 002 6726	TR 2SA1179-M6-TB
Q5033	405 014 4519	TR 2SC2412K T146 R		405 002 6924	TR 2SA1179-M7-TB
	405 014 4618	TR 2SC2412K T146 S		405 163 1513	TR 2SA1179N-M6-TB
	405 015 8724	TR 2SC2812-L6-TB		405 173 9615	TR 2SA1235A1E
	405 015 8922	TR 2SC2812-L7-TB		405 173 9714	TR 2SA1235A1F
	405 163 1612	TR 2SC2812N-L6-TB0	Q5252	405 134 5925	TR 2SA1037AK-T146-R
	405 173 9813	TR 2SC3928A1R		405 147 2215	TR 2SA1037AK-S-T146
	405 173 9912	TR 2SC3928A1S		405 002 0318	TR 2SA1037K T146 R
Q5034	405 014 4519	TR 2SC2412K T146 R		405 002 0417	TR 2SA1037K T146 S
	405 014 4618	TR 2SC2412K T146 S		405 002 6726	TR 2SA1179-M6-TB
	405 015 8724	TR 2SC2812-L6-TB		405 002 6924	TR 2SA1179-M7-TB
	405 015 8922	TR 2SC2812-L7-TB		405 163 1513	TR 2SA1179N-M6-TB
	405 163 1612	TR 2SC2812N-L6-TB0		405 173 9615	TR 2SA1235A1E
	405 173 9813	TR 2SC3928A1R		405 173 9714	TR 2SA1235A1F
	405 173 9912	TR 2SC3928A1S	Q5261	405 134 5925	TR 2SA1037AK-T146-R
Q5036	405 014 4519	TR 2SC2412K T146 R		405 147 2215	TR 2SA1037AK-S-T146
	405 014 4618	TR 2SC2412K T146 S		405 002 0318	TR 2SA1037K T146 R
	405 015 8724	TR 2SC2812-L6-TB		405 002 0417	TR 2SA1037K T146 S
	405 015 8922	TR 2SC2812-L7-TB		405 002 6726	TR 2SA1179-M6-TB
	405 163 1612	TR 2SC2812N-L6-TB0		405 002 6924	TR 2SA1179-M7-TB
	405 173 9813	TR 2SC3928A1R		405 163 1513	TR 2SA1179N-M6-TB
	405 173 9912	TR 2SC3928A1S		405 173 9615	TR 2SA1235A1E
Q5061	405 014 4519	TR 2SC2412K T146 R		405 173 9714	TR 2SA1235A1F
	405 014 4618	TR 2SC2412K T146 S	Q5262	405 134 5925	TR 2SA1037AK-T146-R
	405 015 8724	TR 2SC2812-L6-TB		405 147 2215	TR 2SA1037AK-S-T146

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q5271	405 002 0318	TR 2SA1037K T146 R	Q5301	405 014 4618	TR 2SC2412K T146 S
	405 002 0417	TR 2SA1037K T146 S		405 015 8724	TR 2SC2812-L6-TB
	405 002 6726	TR 2SA1179-M6-TB		405 015 8922	TR 2SC2812-L7-TB
	405 002 6924	TR 2SA1179-M7-TB		405 163 1612	TR 2SC2812N-L6-TB0
	405 163 1513	TR 2SA1179N-M6-TB		405 173 9813	TR 2SC3928A1R
	405 173 9615	TR 2SA1235A1E		405 173 9912	TR 2SC3928A1S
	405 173 9714	TR 2SA1235A1F		405 014 4519	TR 2SC2412K T146 R
	405 134 5925	TR 2SA1037AK-T146-R		405 014 4618	TR 2SC2412K T146 S
	405 147 2215	TR 2SA1037AK-S-T146		405 015 8724	TR 2SC2812-L6-TB
	405 002 0318	TR 2SA1037K T146 R		405 015 8922	TR 2SC2812-L7-TB
Q5272	405 002 0417	TR 2SA1037K T146 S	Q5302	405 163 1612	TR 2SC2812N-L6-TB0
	405 002 6726	TR 2SA1179-M6-TB		405 173 9813	TR 2SC3928A1R
	405 002 6924	TR 2SA1179-M7-TB		405 173 9912	TR 2SC3928A1S
	405 163 1513	TR 2SA1179N-M6-TB		405 134 5925	TR 2SA1037AK-T146-R
	405 173 9615	TR 2SA1235A1E		405 147 2215	TR 2SA1037AK-S-T146
	405 173 9714	TR 2SA1235A1F		405 002 0318	TR 2SA1037K T146 R
	405 134 5925	TR 2SA1037AK-T146-R		405 002 0417	TR 2SA1037K T146 S
	405 147 2215	TR 2SA1037AK-S-T146		405 002 6726	TR 2SA1179-M6-TB
	405 002 0318	TR 2SA1037K T146 R		405 002 6924	TR 2SA1179-M7-TB
	405 002 0417	TR 2SA1037K T146 S		405 163 1513	TR 2SA1179N-M6-TB
Q5281	405 002 6726	TR 2SA1179-M6-TB	Q5303	405 173 9615	TR 2SA1235A1E
	405 002 6924	TR 2SA1179-M7-TB		405 173 9714	TR 2SA1235A1F
	405 163 1513	TR 2SA1179N-M6-TB		405 134 5925	TR 2SA1037AK-T146-R
	405 173 9615	TR 2SA1235A1E		405 147 2215	TR 2SA1037AK-S-T146
	405 173 9714	TR 2SA1235A1F		405 002 0318	TR 2SA1037K T146 R
	405 014 4519	TR 2SC2412K T146 R		405 002 0417	TR 2SA1037K T146 S
	405 014 4618	TR 2SC2412K T146 S		405 002 6726	TR 2SA1179-M6-TB
	405 015 8724	TR 2SC2812-L6-TB		405 002 6924	TR 2SA1179-M7-TB
	405 015 8922	TR 2SC2812-L7-TB		405 163 1513	TR 2SA1179N-M6-TB
	405 163 1612	TR 2SC2812N-L6-TB0		405 173 9615	TR 2SA1235A1E
Q5282	405 173 9813	TR 2SC3928A1R	Q5304	405 173 9714	TR 2SA1235A1F
	405 173 9912	TR 2SC3928A1S		405 014 4519	TR 2SC2412K T146 R
	405 014 4519	TR 2SC2412K T146 R		405 014 4618	TR 2SC2412K T146 S
	405 014 4618	TR 2SC2412K T146 S		405 015 8724	TR 2SC2812-L6-TB
	405 015 8724	TR 2SC2812-L6-TB		405 015 8922	TR 2SC2812-L7-TB
	405 015 8922	TR 2SC2812-L7-TB		405 163 1612	TR 2SC2812N-L6-TB0
	405 163 1612	TR 2SC2812N-L6-TB0		405 173 9813	TR 2SC3928A1R
	405 173 9813	TR 2SC3928A1R		405 173 9912	TR 2SC3928A1S
	405 173 9912	TR 2SC3928A1S		406 017 8402	TR RTQ025P02-TR
	405 014 4519	TR 2SC2412K T146 R	Q5611	406 017 8402	TR RTQ025P02-TR
Q5283	405 014 4618	TR 2SC2412K T146 S	Q6841	405 014 4519	TR 2SC2412K T146 R
	405 015 8724	TR 2SC2812-L6-TB	Q6842	405 014 4618	TR 2SC2412K T146 S
	405 015 8922	TR 2SC2812-L7-TB		405 015 8724	TR 2SC2812-L6-TB
	405 163 1612	TR 2SC2812N-L6-TB0		405 015 8922	TR 2SC2812-L7-TB
	405 173 9813	TR 2SC3928A1R		405 163 1612	TR 2SC2812N-L6-TB0
	405 173 9912	TR 2SC3928A1S		405 173 9813	TR 2SC3928A1R
	405 014 4519	TR 2SC2412K T146 R		405 173 9912	TR 2SC3928A1S
	405 014 4618	TR 2SC2412K T146 S		405 014 4519	TR 2SC2412K T146 R
	405 015 8724	TR 2SC2812-L6-TB		405 014 4618	TR 2SC2412K T146 S
	405 015 8922	TR 2SC2812-L7-TB		405 015 8724	TR 2SC2812-L6-TB
	405 163 1612	TR 2SC2812N-L6-TB0		405 015 8922	TR 2SC2812-L7-TB
Q5284	405 173 9813	TR 2SC3928A1R	Q6843	405 163 1612	TR 2SC2812N-L6-TB0
	405 173 9912	TR 2SC3928A1S		405 173 9813	TR 2SC3928A1R
	405 014 4519	TR 2SC2412K T146 R		405 173 9912	TR 2SC3928A1S
	405 014 4618	TR 2SC2412K T146 S		405 014 4519	TR 2SC2412K T146 R
	405 015 8724	TR 2SC2812-L6-TB		405 014 4618	TR 2SC2412K T146 S
	405 015 8922	TR 2SC2812-L7-TB		405 015 8724	TR 2SC2812-L6-TB
	405 163 1612	TR 2SC2812N-L6-TB0		405 015 8922	TR 2SC2812-L7-TB
	405 173 9813	TR 2SC3928A1R		405 163 1612	TR 2SC2812N-L6-TB0
	405 173 9912	TR 2SC3928A1S		405 173 9813	TR 2SC3928A1R
	405 014 4519	TR 2SC2412K T146 R		405 173 9912	TR 2SC3928A1S
Q5286	405 014 4618	TR 2SC2412K T146 S	Q6844	405 014 4519	TR 2SC2412K T146 R
	405 015 8724	TR 2SC2812-L6-TB		405 014 4618	TR 2SC2412K T146 S
	405 015 8922	TR 2SC2812-L7-TB		405 015 8724	TR 2SC2812-L6-TB
	405 163 1612	TR 2SC2812N-L6-TB0		405 015 8922	TR 2SC2812-L7-TB
	405 173 9813	TR 2SC3928A1R		405 163 1612	TR 2SC2812N-L6-TB0
	405 173 9912	TR 2SC3928A1S		405 173 9813	TR 2SC3928A1R
	405 014 4519	TR 2SC2412K T146 R		405 173 9912	TR 2SC3928A1S
	405 014 4618	TR 2SC2412K T146 S		405 014 4519	TR 2SC2412K T146 R
	405 015 8724	TR 2SC2812-L6-TB		405 014 4618	TR 2SC2412K T146 S
	405 015 8922	TR 2SC2812-L7-TB		405 015 8724	TR 2SC2812-L6-TB
Q5287	405 163 1612	TR 2SC2812N-L6-TB0		405 015 8922	TR 2SC2812-L7-TB
	405 173 9813	TR 2SC3928A1R		405 163 1612	TR 2SC2812N-L6-TB0
	405 173 9912	TR 2SC3928A1S		405 173 9813	TR 2SC3928A1R
	405 014 4519	TR 2SC2412K T146 R		405 173 9912	TR 2SC3928A1S
	405 014 4618	TR 2SC2412K T146 S		405 014 4519	TR 2SC2412K T146 R
	405 015 8724	TR 2SC2812-L6-TB		405 014 4618	TR 2SC2412K T146 S
	405 015 8922	TR 2SC2812-L7-TB		405 015 8724	TR 2SC2812-L6-TB
	405 163 1612	TR 2SC2812N-L6-TB0		405 015 8922	TR 2SC2812-L7-TB
	405 173 9813	TR 2SC3928A1R		405 163 1612	TR 2SC2812N-L6-TB0
	405 173 9912	TR 2SC3928A1S		405 173 9813	TR 2SC3928A1R
Q5288	405 014 4519	TR 2SC2412K T146 R		405 173 9912	TR 2SC3928A1S

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q6846	405 002 8324	TR 2SA1203-Y-TE12L	IC5301	409 484 2013	IC BA7078AF-E2
Q6847	405 014 4519	TR 2SC2412K T146 R	IC5302	409 439 8916	IC TC7WH125FU
	405 014 4618	TR 2SC2412K T146 S	IC5601	409 416 6515	IC BA05FP-E2
	405 015 8724	TR 2SC2812-L6-TB		409 591 8618	IC BA50BC0FP
	405 015 8922	TR 2SC2812-L7-TB	IC5631	409 555 6513	IC SI-3033ZD-TL
	405 163 1612	TR 2SC2812N-L6-TB0	IC5641	409 563 9612	IC SI-3012KS-TL
	405 173 9813	TR 2SC3928A1R	IC5642	409 497 6312	IC BA09FP-E2
	405 173 9912	TR 2SC3928A1S	IC5651	409 555 6315	IC BA9743AFV-E2
Q7801	405 014 4519	TR 2SC2412K T146 R	IC5681	409 563 9612	IC SI-3012KS-TL
	405 014 4618	TR 2SC2412K T146 S	IC7811	409 531 6226	IC FA7701V-TE1
	405 015 8724	TR 2SC2812-L6-TB	IC7861	409 531 6226	IC FA7701V-TE1
	405 015 8922	TR 2SC2812-L7-TB	IC801	410 585 3707	IC S29JL032H70TFI010-0668
	405 163 1612	TR 2SC2812N-L6-TB0	IC8201	410 528 7007	IC AD9883AKSTZ-110
	405 173 9813	TR 2SC3928A1R	IC8291	409 592 8518	IC BA15BC0FP
	405 173 9912	TR 2SC3928A1S	IC841	409 480 1327	IC PST573IM
Q7803	405 128 9615	TR 2SC2411K-T146-Q	IC842	409 350 2918	IC TC7W126FU- (TE12L)
Q7811	405 014 4519	TR 2SC2412K T146 R	IC844	409 155 8016	IC TC7S04F-TE85L
	405 014 4618	TR 2SC2412K T146 S	IC8811	409 481 8612	IC LM76CHMX-5
	405 015 8724	TR 2SC2812-L6-TB	IC8821	409 481 8612	IC LM76CHMX-5
	405 015 8922	TR 2SC2812-L7-TB	IC8831	409 481 8612	IC LM76CHMX-5
	405 163 1612	TR 2SC2812N-L6-TB0	IC891	410 337 0602	IC HD74LVC14T
	405 173 9813	TR 2SC3928A1R	IC9882	409 464 1418	IC TC74ACT14FT
	405 173 9912	TR 2SC3928A1S	CAPACITOR		
Q7812	406 017 8402	TR RTQ025P02-TR	C101	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
Q7813	405 139 7716	TR IMZ1A-T108	C102	403 379 6711	CERAMIC 10U K 16V
Q7861	405 014 4519	TR 2SC2412K T146 R	C103	403 164 0234	CERAMIC 0.1U Z 25V
	405 014 4618	TR 2SC2412K T146 S	C104	403 380 0111	CERAMIC 47U M 6.3V
	405 015 8724	TR 2SC2812-L6-TB	C1041	403 215 2914	CERAMIC 0.022U K 25V
	405 015 8922	TR 2SC2812-L7-TB	C105	403 164 0234	CERAMIC 0.1U Z 25V
	405 163 1612	TR 2SC2812N-L6-TB0	C1091	403 215 2914	CERAMIC 0.022U K 25V
	405 173 9813	TR 2SC3928A1R	C130	403 307 7018	CERAMIC 0.068U K 16V
	405 173 9912	TR 2SC3928A1S	C1301	403 164 0234	CERAMIC 0.1U Z 25V
Q7862	406 017 8402	TR RTQ025P02-TR	C1302	403 164 0234	CERAMIC 0.1U Z 25V
Q7864	405 139 7716	TR IMZ1A-T108	C1303	403 164 0234	CERAMIC 0.1U Z 25V
Q841	405 134 5925	TR 2SA1037AK-T146-R	C1304	403 164 0234	CERAMIC 0.1U Z 25V
	405 147 2215	TR 2SA1037AK-S-T146	C1306	403 164 0234	CERAMIC 0.1U Z 25V
	405 002 0318	TR 2SA1037K T146 R	C1307	403 164 0234	CERAMIC 0.1U Z 25V
	405 002 0417	TR 2SA1037K T146 S	C1308	403 164 0234	CERAMIC 0.1U Z 25V
	405 002 6726	TR 2SA1179-M6-TB	C1309	403 164 0234	CERAMIC 0.1U Z 25V
	405 002 6924	TR 2SA1179-M7-TB	C131	403 307 7018	CERAMIC 0.068U K 16V
	405 163 1513	TR 2SA1179N-M6-TB	C1311	403 164 0234	CERAMIC 0.1U Z 25V
	405 173 9615	TR 2SA1235A1E	C1312	403 164 0234	CERAMIC 0.1U Z 25V
	405 173 9714	TR 2SA1235A1F	C1313	403 164 0234	CERAMIC 0.1U Z 25V
INTEGRATED CIRCUIT			C1314	403 164 0234	CERAMIC 0.1U Z 25V
IC101	409 635 1216	IC UPD64012GJ	C1316	403 164 0234	CERAMIC 0.1U Z 25V
IC1301	410 522 0905	IC EDD2516AKTA-5C	C1317	403 164 0234	CERAMIC 0.1U Z 25V
IC1311	410 522 0905	IC EDD2516AKTA-5C	C1318	403 164 0234	CERAMIC 0.1U Z 25V
IC1321	409 458 2315	IC TC7SZ32FU-TE85L	C1319	403 164 0234	CERAMIC 0.1U Z 25V
IC1371	410 538 4904	IC 24LC64T-I/SNG	C132	403 307 7018	CERAMIC 0.068U K 16V
IC161	409 416 6416	IC BA033FP-E2	C1321	403 164 0234	CERAMIC 0.1U Z 25V
	409 588 6313	IC BA33BC0FP	C1322	403 164 0234	CERAMIC 0.1U Z 25V
IC1801	409 633 6114	IC TE7783PF	C133	403 307 7018	CERAMIC 0.068U K 16V
IC1802	409 534 1713	IC SI-3025LSA-TL	C1331	403 139 7118	CERAMIC 12P J 50V
IC1871	409 347 5410	IC M51204FP-600C	C1332	403 139 7118	CERAMIC 12P J 50V
IC301	409 636 2113	IC PW185B-10L	C134	403 307 7018	CERAMIC 0.068U K 16V
IC3501	409 246 9717	IC LA6358NM-TE-L	C135	403 307 7018	CERAMIC 0.068U K 16V
IC3531	409 422 5816	IC M62398FP	C136	403 307 7018	CERAMIC 0.068U K 16V
IC3541	409 545 5717	IC XC6202P502M	C137	403 307 7018	CERAMIC 0.068U K 16V
IC3801	409 466 6916	IC SP232ECT-L	C1371	403 164 0234	CERAMIC 0.1U Z 25V
IC4011	410 358 1503	IC TC74HC4053AFT (EL)	C138	403 307 7018	CERAMIC 0.068U K 16V
IC4071	410 348 7508	IC TC7WT241FU (TE12L)	C139	403 307 7018	CERAMIC 0.068U K 16V
IC4891	409 404 7210	IC TC7SET00FU- (TE85L)	C140	403 379 6711	CERAMIC 10U K 16V
IC491	409 555 6414	IC SI-3018KS-TL	C141	403 164 0234	CERAMIC 0.1U Z 25V
IC5001	409 564 1516	IC NJW1141M	C142	403 164 0234	CERAMIC 0.1U Z 25V
IC5031	409 594 1913	IC LM4889MM	C143	403 164 0234	CERAMIC 0.1U Z 25V
IC5081	409 398 1911	IC L88MS05TL-TL	C144	403 164 0234	CERAMIC 0.1U Z 25V
IC5201	409 530 7214	IC AN5870SB	C145	403 164 0234	CERAMIC 0.1U Z 25V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C146	403 164 0234	CERAMIC 0.1U Z 25V	C2527	403 164 0234	CERAMIC 0.1U Z 25V
C147	403 164 0234	CERAMIC 0.1U Z 25V	C2531	403 164 0234	CERAMIC 0.1U Z 25V
C148	403 164 0234	CERAMIC 0.1U Z 25V	C2532	403 164 0234	CERAMIC 0.1U Z 25V
C149	403 164 0234	CERAMIC 0.1U Z 25V	C2533	403 379 6711	CERAMIC 10U K 16V
C150	403 164 0234	CERAMIC 0.1U Z 25V	C2534	403 164 0234	CERAMIC 0.1U Z 25V
C151	403 164 0234	CERAMIC 0.1U Z 25V	C2536	403 398 3913	ELECT 33U M 16V
C152	403 164 0234	CERAMIC 0.1U Z 25V	C2537	403 164 0234	CERAMIC 0.1U Z 25V
C153	403 164 0234	CERAMIC 0.1U Z 25V	C2541	403 164 0234	CERAMIC 0.1U Z 25V
C154	403 164 0234	CERAMIC 0.1U Z 25V	C2542	403 164 0234	CERAMIC 0.1U Z 25V
C155	403 164 0234	CERAMIC 0.1U Z 25V	C2543	403 164 0234	CERAMIC 0.1U Z 25V
C156	403 164 0234	CERAMIC 0.1U Z 25V	C2544	403 379 6711	CERAMIC 10U K 16V
C157	403 164 0234	CERAMIC 0.1U Z 25V	C2546	403 398 3913	ELECT 33U M 16V
C158	403 164 0234	CERAMIC 0.1U Z 25V	C2547	403 164 0234	CERAMIC 0.1U Z 25V
C159	403 164 0234	CERAMIC 0.1U Z 25V	C2891	403 164 0234	CERAMIC 0.1U Z 25V
C160	403 164 0234	CERAMIC 0.1U Z 25V	C2892	403 157 2911	CERAMIC 47P J 50V
C161	403 164 0234	CERAMIC 0.1U Z 25V	C3001	403 323 8815	CERAMIC 2.2U Z 16V
C162	403 153 9112	CERAMIC 5P C 50V	C3002	403 391 5112	ELECT 100U M 16V
C163	403 153 9112	CERAMIC 5P C 50V	C301	403 164 0234	CERAMIC 0.1U Z 25V
C164	403 164 0234	CERAMIC 0.1U Z 25V	C3011	403 323 8815	CERAMIC 2.2U Z 16V
C165	403 164 0234	CERAMIC 0.1U Z 25V	C302	403 164 0234	CERAMIC 0.1U Z 25V
C166	403 164 0234	CERAMIC 0.1U Z 25V	C303	403 164 0234	CERAMIC 0.1U Z 25V
C170	403 281 5215	CERAMIC 0.22U Z 16V	C304	403 164 0234	CERAMIC 0.1U Z 25V
C171	403 281 5215	CERAMIC 0.22U Z 16V	C3051	403 157 3611	CERAMIC 100P J 50V
C172	403 281 5215	CERAMIC 0.22U Z 16V	C3052	403 372 7517	CERAMIC 2.2U K 6.3V
C173	403 281 5215	CERAMIC 0.22U Z 16V	C3053	403 283 6339	CERAMIC 1U Z 10V
C174	403 281 5215	CERAMIC 0.22U Z 16V	C306	403 164 0234	CERAMIC 0.1U Z 25V
C175	403 394 1319	ELECT 100U M 6.3V	C3061	403 157 3611	CERAMIC 100P J 50V
C1801	403 164 0234	CERAMIC 0.1U Z 25V	C307	403 164 0234	CERAMIC 0.1U Z 25V
C1802	403 164 0234	CERAMIC 0.1U Z 25V	C308	403 164 0234	CERAMIC 0.1U Z 25V
C1803	403 164 0234	CERAMIC 0.1U Z 25V	C309	403 164 0234	CERAMIC 0.1U Z 25V
C1804	403 113 3835	CERAMIC 1000P K 50V	C3091	403 164 0234	CERAMIC 0.1U Z 25V
C1805	403 139 7316	CERAMIC 18P J 50V	C311	403 164 0234	CERAMIC 0.1U Z 25V
C1806	403 164 0234	CERAMIC 0.1U Z 25V	C312	403 164 0234	CERAMIC 0.1U Z 25V
C1807	403 164 0234	CERAMIC 0.1U Z 25V	C313	403 164 0234	CERAMIC 0.1U Z 25V
C1808	403 164 0234	CERAMIC 0.1U Z 25V	C314	403 164 0234	CERAMIC 0.1U Z 25V
C1809	403 164 0234	CERAMIC 0.1U Z 25V	C316	403 164 0234	CERAMIC 0.1U Z 25V
C1810	403 164 0234	CERAMIC 0.1U Z 25V	C317	403 164 0234	CERAMIC 0.1U Z 25V
C1811	403 164 0234	CERAMIC 0.1U Z 25V	C318	403 164 0234	CERAMIC 0.1U Z 25V
C1812	403 164 0234	CERAMIC 0.1U Z 25V	C319	403 164 0234	CERAMIC 0.1U Z 25V
C1820	403 164 0234	CERAMIC 0.1U Z 25V	C321	403 164 0234	CERAMIC 0.1U Z 25V
C1821	403 164 0234	CERAMIC 0.1U Z 25V	C322	403 164 0234	CERAMIC 0.1U Z 25V
C1822	403 164 0234	CERAMIC 0.1U Z 25V	C323	403 164 0234	CERAMIC 0.1U Z 25V
C1823	403 164 0234	CERAMIC 0.1U Z 25V	C324	403 164 0234	CERAMIC 0.1U Z 25V
C1830	403 380 0111	CERAMIC 47U M 6.3V	C326	403 164 0234	CERAMIC 0.1U Z 25V
C1831	403 164 0234	CERAMIC 0.1U Z 25V	C327	403 164 0234	CERAMIC 0.1U Z 25V
C1832	403 394 9315	ELECT 220U M 6.3V	C329	403 364 5811	CERAMIC 1U K 10V
C1833	403 164 0234	CERAMIC 0.1U Z 25V	C331	403 164 0234	CERAMIC 0.1U Z 25V
C1834	403 164 0234	CERAMIC 0.1U Z 25V	C332	403 164 0234	CERAMIC 0.1U Z 25V
C1835	403 164 0234	CERAMIC 0.1U Z 25V	C336	403 364 5811	CERAMIC 1U K 10V
C1836	403 164 0234	CERAMIC 0.1U Z 25V	C340	403 347 5517	POS-SOLID 470U M 4V
C1837	403 157 1617	CERAMIC 6P D 50V	C3502	403 298 9619	CERAMIC 0.1U K 16V
C1871	403 283 6339	CERAMIC 1U Z 10V	C3503	403 298 9619	CERAMIC 0.1U K 16V
C1872	403 283 6339	CERAMIC 1U Z 10V	C3506	403 298 9619	CERAMIC 0.1U K 16V
C1873	403 283 6339	CERAMIC 1U Z 10V	C3531	403 164 0234	CERAMIC 0.1U Z 25V
C2001	403 298 9619	CERAMIC 0.1U K 16V	C3532	403 164 0234	CERAMIC 0.1U Z 25V
C2002	403 380 0111	CERAMIC 47U M 6.3V	C3541	403 379 6711	CERAMIC 10U K 16V
C2013	403 164 0234	CERAMIC 0.1U Z 25V	C3543	403 394 1319	ELECT 100U M 6.3V
C2023	403 391 5419	ELECT 22U M 6.3V	C3544	403 164 0234	CERAMIC 0.1U Z 25V
C2033	403 391 5419	ELECT 22U M 6.3V	C3555	403 341 3915	POS-SOLID 100U M 6.3V
C2041	403 323 8815	CERAMIC 2.2U Z 16V	C3581	403 394 1319	ELECT 100U M 6.3V
C2051	403 323 8815	CERAMIC 2.2U Z 16V	C3801	403 372 7517	CERAMIC 2.2U K 6.3V
C2506	403 398 3814	ELECT 220U M 16V	C3802	403 372 7517	CERAMIC 2.2U K 6.3V
C2507	403 164 0234	CERAMIC 0.1U Z 25V	C3803	403 372 7517	CERAMIC 2.2U K 6.3V
C2521	403 164 0234	CERAMIC 0.1U Z 25V	C3804	403 372 7517	CERAMIC 2.2U K 6.3V
C2522	403 164 0234	CERAMIC 0.1U Z 25V	C3806	403 283 6339	CERAMIC 1U Z 10V
C2523	403 164 0234	CERAMIC 0.1U Z 25V	C4001	403 298 9619	CERAMIC 0.1U K 16V
C2524	403 379 6711	CERAMIC 10U K 16V	C4002	403 298 9619	CERAMIC 0.1U K 16V
C2526	403 398 3913	ELECT 33U M 16V	C4003	403 164 0234	CERAMIC 0.1U Z 25V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C401	403 380 0111	CERAMIC 47U M 6.3V	C5041	403 215 2211	CERAMIC 0.01U K 50V
C4011	403 164 0234	CERAMIC 0.1U Z 25V	C506	403 298 9619	CERAMIC 0.1U K 16V
C4012	403 164 0234	CERAMIC 0.1U Z 25V	C5061	403 391 5518	ELECT 10U M 16V
C4013	403 164 0234	CERAMIC 0.1U Z 25V	C5069	403 391 5518	ELECT 10U M 16V
C402	403 380 0111	CERAMIC 47U M 6.3V	C508	403 298 9619	CERAMIC 0.1U K 16V
C403	403 355 9910	CERAMIC 2.2U K 10V	C5081	403 379 6711	CERAMIC 10U K 16V
C404	403 215 2211	CERAMIC 0.01U K 50V	C5083	403 394 1319	ELECT 100U M 6.3V
C4057	403 380 0111	CERAMIC 47U M 6.3V	C5084	403 164 0234	CERAMIC 0.1U Z 25V
C406	403 215 2211	CERAMIC 0.01U K 50V	C5086	403 394 1319	ELECT 100U M 6.3V
C407	403 215 2211	CERAMIC 0.01U K 50V	C5087	403 394 9315	ELECT 220U M 6.3V
C408	403 215 2211	CERAMIC 0.01U K 50V	C5088	403 394 9315	ELECT 220U M 6.3V
C409	403 215 2211	CERAMIC 0.01U K 50V	C509	403 298 9619	CERAMIC 0.1U K 16V
C411	403 215 2211	CERAMIC 0.01U K 50V	C511	403 298 9619	CERAMIC 0.1U K 16V
C412	403 215 2211	CERAMIC 0.01U K 50V	C512	403 298 9619	CERAMIC 0.1U K 16V
C413	403 215 2211	CERAMIC 0.01U K 50V	C513	403 298 9619	CERAMIC 0.1U K 16V
C414	403 215 2211	CERAMIC 0.01U K 50V	C514	403 298 9619	CERAMIC 0.1U K 16V
C416	403 215 2211	CERAMIC 0.01U K 50V	C518	403 298 9619	CERAMIC 0.1U K 16V
C417	403 215 2211	CERAMIC 0.01U K 50V	C519	403 298 9619	CERAMIC 0.1U K 16V
C418	403 380 0111	CERAMIC 47U M 6.3V	C5201	403 323 8815	CERAMIC 2.2U Z 16V
C419	403 380 0111	CERAMIC 47U M 6.3V	C5202	403 323 8815	CERAMIC 2.2U Z 16V
C421	403 215 2211	CERAMIC 0.01U K 50V	C5203	403 323 8815	CERAMIC 2.2U Z 16V
C422	403 215 2211	CERAMIC 0.01U K 50V	C5204	403 323 8815	CERAMIC 2.2U Z 16V
C423	403 215 2211	CERAMIC 0.01U K 50V	C5206	403 283 6339	CERAMIC 1U Z 10V
C424	403 215 2211	CERAMIC 0.01U K 50V	C5207	403 314 5915	CERAMIC 0.47U K 16V
C426	403 215 2211	CERAMIC 0.01U K 50V	C5208	403 323 8815	CERAMIC 2.2U Z 16V
C427	403 215 2211	CERAMIC 0.01U K 50V	C5209	403 323 8815	CERAMIC 2.2U Z 16V
C428	403 215 2211	CERAMIC 0.01U K 50V	C521	403 298 9619	CERAMIC 0.1U K 16V
C429	403 215 2211	CERAMIC 0.01U K 50V	C5212	403 298 9619	CERAMIC 0.1U K 16V
C431	403 215 2211	CERAMIC 0.01U K 50V	C5214	403 215 2211	CERAMIC 0.01U K 50V
C432	403 215 2211	CERAMIC 0.01U K 50V	C5219	403 207 0317	CERAMIC 1U Z 16V
C441	403 215 2211	CERAMIC 0.01U K 50V	C522	403 298 9619	CERAMIC 0.1U K 16V
C442	403 215 2211	CERAMIC 0.01U K 50V	C5221	403 379 6711	CERAMIC 10U K 16V
C443	403 215 2211	CERAMIC 0.01U K 50V	C5222	403 283 6339	CERAMIC 1U Z 10V
C4808	403 378 3117	CERAMIC 47U Z 6.3V	C5223	403 394 9315	ELECT 220U M 6.3V
C4891	403 298 9619	CERAMIC 0.1U K 16V	C524	403 113 3835	CERAMIC 1000P K 50V
C491	403 149 9248	CERAMIC 0.01U Z 50V	C5241	403 164 0234	CERAMIC 0.1U Z 25V
C492	403 164 0234	CERAMIC 0.1U Z 25V	C5301	403 380 0111	CERAMIC 47U M 6.3V
C493	403 394 1319	ELECT 100U M 6.3V	C5302	403 283 6339	CERAMIC 1U Z 10V
C5001	403 298 9619	CERAMIC 0.1U K 16V	C5303	403 355 9910	CERAMIC 2.2U K 10V
C5002	403 215 2211	CERAMIC 0.01U K 50V	C5304	403 314 5915	CERAMIC 0.47U K 16V
C5003	403 215 2211	CERAMIC 0.01U K 50V	C5306	403 316 5418	CERAMIC 1U K 10V
C5004	403 298 9619	CERAMIC 0.1U K 16V	C5307	403 314 5915	CERAMIC 0.47U K 16V
C5006	403 298 9619	CERAMIC 0.1U K 16V	C5308	403 355 9910	CERAMIC 2.2U K 10V
C5007	403 215 2211	CERAMIC 0.01U K 50V	C5309	403 364 5811	CERAMIC 1U K 10V
C5008	403 215 2211	CERAMIC 0.01U K 50V	C531	403 380 0111	CERAMIC 47U M 6.3V
C5009	403 298 9619	CERAMIC 0.1U K 16V	C5311	403 157 3611	CERAMIC 100P J 50V
C501	403 380 0111	CERAMIC 47U M 6.3V	C5312	403 323 8815	CERAMIC 2.2U Z 16V
C5011	403 071 8112	CERAMIC 2200P K 50V	C5313	403 380 0111	CERAMIC 47U M 6.3V
C5012	403 298 9619	CERAMIC 0.1U K 16V	C5314	403 283 6339	CERAMIC 1U Z 10V
C5013	403 283 6339	CERAMIC 1U Z 10V	C5315	403 283 6339	CERAMIC 1U Z 10V
C5014	403 283 6339	CERAMIC 1U Z 10V	C5316	403 207 0317	CERAMIC 1U Z 16V
C5016	403 071 8112	CERAMIC 2200P K 50V	C5317	403 283 6339	CERAMIC 1U Z 10V
C5017	403 298 9619	CERAMIC 0.1U K 16V	C532	403 164 0234	CERAMIC 0.1U Z 25V
C5018	403 279 4312	CERAMIC 0.33U K 16V	C533	403 398 3814	ELECT 220U M 16V
C5019	403 283 6339	CERAMIC 1U Z 10V	C534	403 298 9619	CERAMIC 0.1U K 16V
C502	403 164 0234	CERAMIC 0.1U Z 25V	C536	403 298 9619	CERAMIC 0.1U K 16V
C5021	403 283 6339	CERAMIC 1U Z 10V	C538	403 298 9619	CERAMIC 0.1U K 16V
C5022	403 283 6339	CERAMIC 1U Z 10V	C539	403 298 9619	CERAMIC 0.1U K 16V
C5023	403 283 6339	CERAMIC 1U Z 10V	C541	403 298 9619	CERAMIC 0.1U K 16V
C5024	403 379 6711	CERAMIC 10U K 16V	C542	403 298 9619	CERAMIC 0.1U K 16V
C5031	403 323 8815	CERAMIC 2.2U Z 16V	C543	403 298 9619	CERAMIC 0.1U K 16V
C5032	403 314 5915	CERAMIC 0.47U Z 16V	C544	403 298 9619	CERAMIC 0.1U K 16V
C5033	403 283 6339	CERAMIC 1U Z 10V	C548	403 298 9619	CERAMIC 0.1U K 16V
C5037	403 283 6339	CERAMIC 1U Z 10V	C549	403 298 9619	CERAMIC 0.1U K 16V
C5038	403 215 2211	CERAMIC 0.01U K 50V	C551	403 298 9619	CERAMIC 0.1U K 16V
C5039	403 215 2211	CERAMIC 0.01U K 50V	C552	403 298 9619	CERAMIC 0.1U K 16V
C503TM	403 403 5809	ELECT 220U M 16V	C554	403 113 3835	CERAMIC 1000P K 50V
C504	403 298 9619	CERAMIC 0.1U K 16V	C5601	403 394 9315	ELECT 220U M 6.3V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C5602	403 164 0234	CERAMIC 0.1U Z 25V	C8203	403 372 7517	CERAMIC 2.2U K 6.3V
C5603	403 394 9315	ELECT 220U M 6.3V	C8204	403 157 2911	CERAMIC 47P J 50V
C5604	403 164 0234	CERAMIC 0.1U Z 25V	C8206	403 398 3814	ELECT 220U M 16V
C5606	403 391 5112	ELECT 100U M 16V	C8213	403 372 7517	CERAMIC 2.2U K 6.3V
C5607	403 391 5112	ELECT 100U M 16V	C8214	403 157 2911	CERAMIC 47P J 50V
C5608	403 394 9315	ELECT 220U M 6.3V	C8216	403 398 3814	ELECT 220U M 16V
C5609	403 391 5112	ELECT 100U M 16V	C8223	403 372 7517	CERAMIC 2.2U K 6.3V
C561	403 380 0111	CERAMIC 47U M 6.3V	C8224	403 157 2911	CERAMIC 47P J 50V
C5612	403 398 1810	ELECT 220U M 6.3V	C8226	403 398 3814	ELECT 220U M 16V
C562	403 164 0234	CERAMIC 0.1U Z 25V	C8251	403 380 0111	CERAMIC 47U M 6.3V
C5632	403 380 0111	CERAMIC 47U M 6.3V	C8252	403 164 0234	CERAMIC 0.1U Z 25V
C5633	403 347 5517	POS-SOLID 470U M 4V	C8253	403 164 0234	CERAMIC 0.1U Z 25V
C5634	403 394 1319	ELECT 100U M 6.3V	C8254	403 164 0234	CERAMIC 0.1U Z 25V
C5635	403 164 0234	CERAMIC 0.1U Z 25V	C8256	403 283 2915	CERAMIC 0.082U K 16V
C563TM	403 403 5809	ELECT 220U M 16V	C8257	403 157 7312	CERAMIC 6800P K 50V
C564	403 298 9619	CERAMIC 0.1U K 16V	C8259	403 164 0234	CERAMIC 0.1U Z 25V
C5641	403 374 8413	OS-SOLID 39U M 16V	C8261	403 164 0234	CERAMIC 0.1U Z 25V
C5642	403 164 0234	CERAMIC 0.1U Z 25V	C8262	403 380 0111	CERAMIC 47U M 6.3V
C5643	403 391 5112	ELECT 100U M 16V	C8263	403 164 0234	CERAMIC 0.1U Z 25V
C5651	403 169 2817	CERAMIC 330P J 50V	C8264	403 164 0234	CERAMIC 0.1U Z 25V
C5652	403 215 2112	CERAMIC 8200P K 50V	C8266	403 164 0234	CERAMIC 0.1U Z 25V
C5653	403 348 5823	CERAMIC 0.47U K 10V	C8267	403 164 0234	CERAMIC 0.1U Z 25V
C5654	403 164 0234	CERAMIC 0.1U Z 25V	C8268	403 164 0234	CERAMIC 0.1U Z 25V
C5655	403 164 0234	CERAMIC 0.1U Z 25V	C8269	403 164 0234	CERAMIC 0.1U Z 25V
C5656	403 298 9619	CERAMIC 0.1U K 16V	C8271	403 164 0234	CERAMIC 0.1U Z 25V
C5657	403 281 5215	CERAMIC 0.22U Z 16V	C8272	403 164 0234	CERAMIC 0.1U Z 25V
C5658	403 113 4119	CERAMIC 2200P K 50V	C8273	403 164 0234	CERAMIC 0.1U Z 25V
C5659	403 155 2319	CERAMIC 4700P K 50V	C8274	403 164 0234	CERAMIC 0.1U Z 25V
C566	403 298 9619	CERAMIC 0.1U K 16V	C8291	403 380 0111	CERAMIC 47U M 6.3V
C5660	403 155 2319	CERAMIC 4700P K 50V	C8292	403 164 0234	CERAMIC 0.1U Z 25V
C5661	403 394 9315	ELECT 220U M 6.3V	C8293	403 394 9315	ELECT 220U M 6.3V
C5666	403 215 2112	CERAMIC 8200P K 50V	C8294	403 164 0234	CERAMIC 0.1U Z 25V
C5667	403 347 5517	POS-SOLID 470U M 4V	C841	403 283 6339	CERAMIC 1U Z 10V
C5669	403 164 0234	CERAMIC 0.1U Z 25V	C842	403 283 6339	CERAMIC 1U Z 10V
C5671	403 394 9315	ELECT 220U M 6.3V	C843	403 380 0111	CERAMIC 47U M 6.3V
C5676	403 215 2112	CERAMIC 8200P K 50V	C846	403 164 0234	CERAMIC 0.1U Z 25V
C568	403 298 9619	CERAMIC 0.1U K 16V	C847	403 149 9248	CERAMIC 0.01U Z 50V
C5680	403 348 5823	CERAMIC 0.47U K 10V	C848	403 149 9248	CERAMIC 0.01U Z 50V
C5681	403 347 5517	POS-SOLID 470U M 4V	C849	403 149 9248	CERAMIC 0.01U Z 50V
C5682	403 164 0234	CERAMIC 0.1U Z 25V	C851	403 113 3835	CERAMIC 1000P K 50V
C5684	403 164 0234	CERAMIC 0.1U Z 25V	C852	403 283 6339	CERAMIC 1U Z 10V
C5687	403 394 1319	ELECT 100U M 6.3V	C871	403 164 0234	CERAMIC 0.1U Z 25V
C569	403 298 9619	CERAMIC 0.1U K 16V	C8811	403 155 1619	CERAMIC 33P J 50V
C571	403 298 9619	CERAMIC 0.1U K 16V	C8812	403 155 1619	CERAMIC 33P J 50V
C572	403 298 9619	CERAMIC 0.1U K 16V	C8813	403 164 0234	CERAMIC 0.1U Z 25V
C573	403 298 9619	CERAMIC 0.1U K 16V	C8821	403 155 1619	CERAMIC 33P J 50V
C574	403 298 9619	CERAMIC 0.1U K 16V	C8822	403 155 1619	CERAMIC 33P J 50V
C578	403 298 9619	CERAMIC 0.1U K 16V	C8823	403 164 0234	CERAMIC 0.1U Z 25V
C579	403 298 9619	CERAMIC 0.1U K 16V	C8831	403 155 1619	CERAMIC 33P J 50V
C581	403 298 9619	CERAMIC 0.1U K 16V	C8832	403 155 1619	CERAMIC 33P J 50V
C582	403 298 9619	CERAMIC 0.1U K 16V	C8833	403 164 0234	CERAMIC 0.1U Z 25V
C584	403 113 3835	CERAMIC 1000P K 50V	C891	403 164 0234	CERAMIC 0.1U Z 25V
C6801	403 164 0234	CERAMIC 0.1U Z 25V	C9882	403 164 0234	CERAMIC 0.1U Z 25V
C6802	403 164 0234	CERAMIC 0.1U Z 25V	RESISTOR		
C6803	403 164 0234	CERAMIC 0.1U Z 25V	R1001	401 260 4112	MT-GLAZE 75 JA 1/3W
C7811	403 314 6219	CERAMIC 2.2U K 16V	R1002	401 255 6510	MT-GLAZE 100 JA 1/10W
C7813	403 381 5313	ELECT 100U M 16V	R101	401 162 2216	MT-GLAZE 10 JA 1/10W
C7814	403 381 5313	ELECT 100U M 16V	R1011	401 260 4112	MT-GLAZE 75 JA 1/3W
C7817	403 164 0234	CERAMIC 0.1U Z 25V	R1012	401 255 6510	MT-GLAZE 100 JA 1/10W
C7818	403 155 2319	CERAMIC 4700P K 50V	R1021	401 260 4112	MT-GLAZE 75 JA 1/3W
C7822	401 256 7219	MT-GLAZE 18K JA 1/10W	R1022	401 255 6510	MT-GLAZE 100 JA 1/10W
C7861	403 314 6219	CERAMIC 2.2U K 16V	R103	401 150 6219	MT-GLAZE 1K JA 1/10W
C7863	403 381 5313	ELECT 100U M 16V	R1031	401 256 6311	MT-GLAZE 47K JA 1/10W
C7864	403 381 5313	ELECT 100U M 16V	R1032	401 255 6510	MT-GLAZE 100 JA 1/10W
C7867	403 164 0234	CERAMIC 0.1U Z 25V	R1034	401 150 6219	MT-GLAZE 1K JA 1/10W
C7868	403 155 2319	CERAMIC 4700P K 50V	R1036	401 150 6219	MT-GLAZE 1K JA 1/10W
C7872	401 256 7219	MT-GLAZE 18K JA 1/10W	R1037	401 255 6510	MT-GLAZE 100 JA 1/10W
C801	403 164 0234	CERAMIC 0.1U Z 25V			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R1038	401 255 6510	MT-GLAZE 100 JA 1/10W	R1426	401 162 2216	MT-GLAZE 10 JA 1/10W
R1041	401 256 6311	MT-GLAZE 47K JA 1/10W	R1427	401 162 2216	MT-GLAZE 10 JA 1/10W
R1042	401 255 6510	MT-GLAZE 100 JA 1/10W	R1428	401 162 2216	MT-GLAZE 10 JA 1/10W
R1048	401 255 6510	MT-GLAZE 100 JA 1/10W	R1429	401 162 2216	MT-GLAZE 10 JA 1/10W
R1051	401 260 4211	MT-GLAZE 82 JA 1/3W	R143	401 150 5915	MT-GLAZE 10K JA 1/10W
R1052	401 256 2719	MT-GLAZE 75 JA 1/10W	R1431	401 162 2216	MT-GLAZE 10 JA 1/10W
R1053	401 162 2919	MT-GLAZE 220 JA 1/10W	R1432	401 162 2216	MT-GLAZE 10 JA 1/10W
R1054	401 150 6219	MT-GLAZE 1K JA 1/10W	R1433	401 162 2216	MT-GLAZE 10 JA 1/10W
R1056	401 255 6510	MT-GLAZE 100 JA 1/10W	R1434	401 162 2216	MT-GLAZE 10 JA 1/10W
R106	401 162 3619	MT-GLAZE 470 JA 1/10W	R1436	401 162 2216	MT-GLAZE 10 JA 1/10W
R1061	401 260 4211	MT-GLAZE 82 JA 1/3W	R1437	401 162 2216	MT-GLAZE 10 JA 1/10W
R1062	401 256 2719	MT-GLAZE 75 JA 1/10W	R1438	401 256 0715	MT-GLAZE 33 JA 1/10W
R1063	401 162 2919	MT-GLAZE 220 JA 1/10W	R1439	401 162 2216	MT-GLAZE 10 JA 1/10W
R1064	401 150 6219	MT-GLAZE 1K JA 1/10W	R1441	401 162 2216	MT-GLAZE 10 JA 1/10W
R1066	401 255 6510	MT-GLAZE 100 JA 1/10W	R1442	401 162 2216	MT-GLAZE 10 JA 1/10W
R1071	401 260 4211	MT-GLAZE 82 JA 1/3W	R1443	401 255 8712	MT-GLAZE 22 JA 1/10W
R1072	401 256 2719	MT-GLAZE 75 JA 1/10W	R1444	401 255 8712	MT-GLAZE 22 JA 1/10W
R1073	401 162 2919	MT-GLAZE 220 JA 1/10W	R1446	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1074	401 150 6219	MT-GLAZE 1K JA 1/10W	R1447	401 162 2216	MT-GLAZE 10 JA 1/10W
R1076	401 255 6510	MT-GLAZE 100 JA 1/10W	R1448	401 162 2216	MT-GLAZE 10 JA 1/10W
R1081	401 256 6311	MT-GLAZE 47K JA 1/10W	R1449	401 162 2216	MT-GLAZE 10 JA 1/10W
R1082	401 255 6510	MT-GLAZE 100 JA 1/10W	R1451	401 162 2216	MT-GLAZE 10 JA 1/10W
R1084	401 150 6219	MT-GLAZE 1K JA 1/10W	R1452	401 162 2216	MT-GLAZE 10 JA 1/10W
R1091	401 256 6311	MT-GLAZE 47K JA 1/10W	R1453	401 162 2216	MT-GLAZE 10 JA 1/10W
R1092	401 255 6510	MT-GLAZE 100 JA 1/10W	R1454	401 162 2216	MT-GLAZE 10 JA 1/10W
R117	401 162 2216	MT-GLAZE 10 JA 1/10W	R1456	401 162 2216	MT-GLAZE 10 JA 1/10W
R119	401 162 2216	MT-GLAZE 10 JA 1/10W	R1457	401 162 2216	MT-GLAZE 10 JA 1/10W
R122	401 162 2216	MT-GLAZE 10 JA 1/10W	R1458	401 162 2216	MT-GLAZE 10 JA 1/10W
R130	401 256 6311	MT-GLAZE 47K JA 1/10W	R1459	401 162 2216	MT-GLAZE 10 JA 1/10W
R131	401 256 6311	MT-GLAZE 47K JA 1/10W	R1461	401 162 2216	MT-GLAZE 10 JA 1/10W
R132	401 256 6311	MT-GLAZE 47K JA 1/10W	R1462	401 162 2216	MT-GLAZE 10 JA 1/10W
R1321	401 150 6219	MT-GLAZE 1K JA 1/10W	R1463	401 256 0715	MT-GLAZE 33 JA 1/10W
R1322	401 150 6219	MT-GLAZE 1K JA 1/10W	R1464	401 162 2216	MT-GLAZE 10 JA 1/10W
R1331	401 255 6015	MT-GLAZE 1M JA 1/10W	R1466	401 255 8712	MT-GLAZE 22 JA 1/10W
R134	401 150 5915	MT-GLAZE 10K JA 1/10W	R1467	401 255 8712	MT-GLAZE 22 JA 1/10W
R1371	401 162 3114	MT-GLAZE 3.3K JA 1/10W	R1468	401 255 6510	MT-GLAZE 100 JA 1/10W
R1372	401 162 3114	MT-GLAZE 3.3K JA 1/10W	R147	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1373	401 162 3114	MT-GLAZE 3.3K JA 1/10W	R148	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1374	401 162 3114	MT-GLAZE 3.3K JA 1/10W	R149	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1376	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R150	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1377	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R1501	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R138	401 162 2216	MT-GLAZE 10 JA 1/10W	R1502	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1383	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R1503	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1384	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R1504	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1386	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R1506	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1387	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R1507	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R139	401 162 2216	MT-GLAZE 10 JA 1/10W	R1508	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1401	401 162 2216	MT-GLAZE 10 JA 1/10W	R1509	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1402	401 162 2216	MT-GLAZE 10 JA 1/10W	R151	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1403	401 162 2216	MT-GLAZE 10 JA 1/10W	R1511	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1404	401 162 2216	MT-GLAZE 10 JA 1/10W	R1512	401 150 6219	MT-GLAZE 1K JA 1/10W
R1406	401 162 2216	MT-GLAZE 10 JA 1/10W	R1513	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1407	401 162 2216	MT-GLAZE 10 JA 1/10W	R1514	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1408	401 162 2216	MT-GLAZE 10 JA 1/10W	R1531	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1409	401 162 2216	MT-GLAZE 10 JA 1/10W	R1532	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1411	401 162 2216	MT-GLAZE 10 JA 1/10W	R1533	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1412	401 162 2216	MT-GLAZE 10 JA 1/10W	R1534	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1413	401 162 2216	MT-GLAZE 10 JA 1/10W	R1536	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1414	401 162 2216	MT-GLAZE 10 JA 1/10W	R1537	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1416	401 162 2216	MT-GLAZE 10 JA 1/10W	R1538	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1417	401 162 2216	MT-GLAZE 10 JA 1/10W	R1539	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1418	401 162 2216	MT-GLAZE 10 JA 1/10W	R154	401 150 5915	MT-GLAZE 10K JA 1/10W
R1419	401 256 0715	MT-GLAZE 33 JA 1/10W	R1541	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R142	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R1542	401 150 6219	MT-GLAZE 1K JA 1/10W
R1421	401 162 2216	MT-GLAZE 10 JA 1/10W	R1543	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1422	401 255 8712	MT-GLAZE 22 JA 1/10W	R1544	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1423	401 255 8712	MT-GLAZE 22 JA 1/10W	R1561	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1424	401 162 2216	MT-GLAZE 10 JA 1/10W	R1562	401 150 6011	MT-GLAZE 0.000 ZA 1/10W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R1563	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R2004	401 256 3617	MT-GLAZE 15K JA 1/10W
R1564	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R2006	401 035 4316	MT-GLAZE 10 JA 1/8W
R1566	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R2012	401 278 0113	MT-GLAZE 62 JA 1/3W
R1567	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R2013	401 256 6311	MT-GLAZE 47K JA 1/10W
R1568	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R2014	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1569	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R2016	401 150 6219	MT-GLAZE 1K JA 1/10W
R1571	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R2018	401 256 6311	MT-GLAZE 47K JA 1/10W
R1572	401 150 6219	MT-GLAZE 1K JA 1/10W	R2019	401 256 2818	MT-GLAZE 15 JA 1/10W
R1573	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R2022	401 278 0113	MT-GLAZE 62 JA 1/3W
R1574	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R2023	401 256 6311	MT-GLAZE 47K JA 1/10W
R161	401 276 4717	MT-GLAZE 0.000 ZA 1/3W	R2024	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1802	401 150 5915	MT-GLAZE 10K JA 1/10W	R2026	401 150 6219	MT-GLAZE 1K JA 1/10W
R1803	401 150 5915	MT-GLAZE 10K JA 1/10W	R2028	401 256 6311	MT-GLAZE 47K JA 1/10W
R1804	401 150 5915	MT-GLAZE 10K JA 1/10W	R2029	401 256 2818	MT-GLAZE 15 JA 1/10W
R1805	401 150 5915	MT-GLAZE 10K JA 1/10W	R2032	401 278 0113	MT-GLAZE 62 JA 1/3W
R1806	401 150 5915	MT-GLAZE 10K JA 1/10W	R2033	401 256 6311	MT-GLAZE 47K JA 1/10W
R1807	401 150 5915	MT-GLAZE 10K JA 1/10W	R2034	401 256 7318	MT-GLAZE 6.8K JA 1/10W
R1808	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R2036	401 150 6219	MT-GLAZE 1K JA 1/10W
R1811	401 162 3114	MT-GLAZE 3.3K JA 1/10W	R2038	401 256 6311	MT-GLAZE 47K JA 1/10W
R1812	401 255 6015	MT-GLAZE 1M JA 1/10W	R2039	401 256 2818	MT-GLAZE 15 JA 1/10W
R1813	401 255 7012	MT-GLAZE 51 JA 1/10W	R2041	401 150 5816	MT-GLAZE 100K JA 1/10W
R1814	401 150 5915	MT-GLAZE 10K JA 1/10W	R2042	401 256 6311	MT-GLAZE 47K JA 1/10W
R1815	401 150 5915	MT-GLAZE 10K JA 1/10W	R2043	401 255 6510	MT-GLAZE 100 JA 1/10W
R1817	401 150 5915	MT-GLAZE 10K JA 1/10W	R2044	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1818	401 150 5915	MT-GLAZE 10K JA 1/10W	R2051	401 150 5816	MT-GLAZE 100K JA 1/10W
R1819	401 162 3114	MT-GLAZE 3.3K JA 1/10W	R2052	401 256 6311	MT-GLAZE 47K JA 1/10W
R1828	401 150 5915	MT-GLAZE 10K JA 1/10W	R2053	401 255 6510	MT-GLAZE 100 JA 1/10W
R1830	401 150 5915	MT-GLAZE 10K JA 1/10W	R2054	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1831	401 256 2511	MT-GLAZE 24K JA 1/10W	R2501	401 256 3815	MT-GLAZE 1.5K JA 1/10W
R1832	401 150 5915	MT-GLAZE 10K JA 1/10W	R2502	401 162 3718	MT-GLAZE 4.7K JA 1/10W
R1833	401 150 5915	MT-GLAZE 10K JA 1/10W	R2503	401 162 3718	MT-GLAZE 4.7K JA 1/10W
R1834	401 150 5915	MT-GLAZE 10K JA 1/10W	R2504	401 150 5915	MT-GLAZE 10K JA 1/10W
R1836	401 150 5915	MT-GLAZE 10K JA 1/10W	R2522	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1837	401 150 5915	MT-GLAZE 10K JA 1/10W	R2523	401 150 5816	MT-GLAZE 100K JA 1/10W
R1838	401 256 3815	MT-GLAZE 1.5K JA 1/10W	R2532	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1841	401 256 3617	MT-GLAZE 15K JA 1/10W	R2533	401 150 5816	MT-GLAZE 100K JA 1/10W
R1842	401 150 5915	MT-GLAZE 10K JA 1/10W	R2542	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1844	401 150 5915	MT-GLAZE 10K JA 1/10W	R2543	401 150 5816	MT-GLAZE 100K JA 1/10W
R1846	401 150 5915	MT-GLAZE 10K JA 1/10W	R2890	401 255 8712	MT-GLAZE 22 JA 1/10W
R1847	401 150 5915	MT-GLAZE 10K JA 1/10W	R2891	401 255 8712	MT-GLAZE 22 JA 1/10W
R1848	401 256 5512	MT-GLAZE 27 JA 1/10W	R2892	401 255 6510	MT-GLAZE 100 JA 1/10W
R1849	401 256 5512	MT-GLAZE 27 JA 1/10W	R3000	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
R1851	401 150 5915	MT-GLAZE 10K JA 1/10W	R3001	401 150 5816	MT-GLAZE 100K JA 1/10W
R1852	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R3002	401 255 6510	MT-GLAZE 100 JA 1/10W
R1853	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R3003	401 256 6311	MT-GLAZE 47K JA 1/10W
R1854	401 150 5915	MT-GLAZE 10K JA 1/10W	R3008	401 230 8010	MT-GLAZE 1K JA 1/3W
R1855	401 150 5915	MT-GLAZE 10K JA 1/10W	R3011	401 150 5816	MT-GLAZE 100K JA 1/10W
R1856	401 150 5915	MT-GLAZE 10K JA 1/10W	R3012	401 255 6510	MT-GLAZE 100 JA 1/10W
R1857	401 150 5915	MT-GLAZE 10K JA 1/10W	R3013	401 256 6311	MT-GLAZE 47K JA 1/10W
R1858	401 150 5915	MT-GLAZE 10K JA 1/10W	R302	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1859	401 150 5915	MT-GLAZE 10K JA 1/10W	R304	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1860	401 035 4118	MT-GLAZE 0.000 ZA 1/8W	R3051	401 150 5816	MT-GLAZE 100K JA 1/10W
R1861	401 150 5915	MT-GLAZE 10K JA 1/10W	R3052	401 255 6510	MT-GLAZE 100 JA 1/10W
R1862	401 150 5915	MT-GLAZE 10K JA 1/10W	R3053	401 150 5816	MT-GLAZE 100K JA 1/10W
R1863	401 150 5915	MT-GLAZE 10K JA 1/10W	R3054	401 150 5816	MT-GLAZE 100K JA 1/10W
R1864	401 150 5915	MT-GLAZE 10K JA 1/10W	R3056	401 255 6015	MT-GLAZE 1M JA 1/10W
R1866	401 150 5915	MT-GLAZE 10K JA 1/10W	R3057	401 162 3015	MT-GLAZE 22K JA 1/10W
R1867	401 150 5915	MT-GLAZE 10K JA 1/10W	R306	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1871	401 150 5915	MT-GLAZE 10K JA 1/10W	R3061	401 150 5816	MT-GLAZE 100K JA 1/10W
R1872	401 162 2216	MT-GLAZE 10 JA 1/10W	R3062	401 255 6510	MT-GLAZE 100 JA 1/10W
R1873	401 256 0418	MT-GLAZE 12K JA 1/10W	R3073	401 162 2216	MT-GLAZE 10 JA 1/10W
R1874	401 255 6114	MT-GLAZE 20K JA 1/10W	R308	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1876	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R3091	401 255 6510	MT-GLAZE 100 JA 1/10W
R1877	401 150 5915	MT-GLAZE 10K JA 1/10W	R310	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1880	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R312	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R1881	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R314	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R2002	401 255 6510	MT-GLAZE 100 JA 1/10W	R321	401 150 5915	MT-GLAZE 10K JA 1/10W
R2003	401 150 5915	MT-GLAZE 10K JA 1/10W	R322	401 256 6915	MT-GLAZE 680 JA 1/10W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R323	401 152 3216	MT-GLAZE 330 JA 1/10W	R402	401 150 6219	MT-GLAZE 1K JA 1/10W
R327	401 150 5915	MT-GLAZE 10K JA 1/10W	R4021	401 162 2216	MT-GLAZE 10 JA 1/10W
R334	401 150 5915	MT-GLAZE 10K JA 1/10W	R4022	401 162 2216	MT-GLAZE 10 JA 1/10W
R350	401 150 5915	MT-GLAZE 10K JA 1/10W	R4023	401 150 5915	MT-GLAZE 10K JA 1/10W
R3501	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R4024	401 256 6311	MT-GLAZE 47K JA 1/10W
R3502	401 256 3419	MT-GLAZE 7.5K JA 1/10W	R403	401 255 6510	MT-GLAZE 100 JA 1/10W
R3503	401 256 3419	MT-GLAZE 7.5K JA 1/10W	R4032	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3504	401 256 7615	MT-GLAZE 3.9K JA 1/10W	R404	401 255 6510	MT-GLAZE 100 JA 1/10W
R3506	401 150 5915	MT-GLAZE 10K JA 1/10W	R406	401 255 6510	MT-GLAZE 100 JA 1/10W
R3507	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R407	401 255 6510	MT-GLAZE 100 JA 1/10W
R3508	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R4071	401 255 6510	MT-GLAZE 100 JA 1/10W
R351	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R4072	401 255 6510	MT-GLAZE 100 JA 1/10W
R352	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R4073	401 150 6219	MT-GLAZE 1K JA 1/10W
R3531	401 255 6510	MT-GLAZE 100 JA 1/10W	R4074	401 150 5915	MT-GLAZE 10K JA 1/10W
R3532	401 255 6510	MT-GLAZE 100 JA 1/10W	R4076	401 150 6219	MT-GLAZE 1K JA 1/10W
R3536	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R4077	401 255 6510	MT-GLAZE 100 JA 1/10W
R357	401 150 5915	MT-GLAZE 10K JA 1/10W	R408	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R358	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R410	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3581	401 150 6219	MT-GLAZE 1K JA 1/10W	R411	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3582	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R412	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3583	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R413	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3584	401 256 3815	MT-GLAZE 1.5K JA 1/10W	R414	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3601	401 150 6219	MT-GLAZE 1K JA 1/10W	R415	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3602	401 162 4111	MT-GLAZE 5.6K JA 1/10W	R416	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3603	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R417	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3605	401 256 5512	MT-GLAZE 27 JA 1/10W	R418	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3606	401 256 6212	MT-GLAZE 270 JA 1/10W	R419	401 255 6510	MT-GLAZE 100 JA 1/10W
R361	401 255 8712	MT-GLAZE 22 JA 1/10W	R421	401 255 6510	MT-GLAZE 100 JA 1/10W
R362	401 255 8712	MT-GLAZE 22 JA 1/10W	R422	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3621	401 150 5915	MT-GLAZE 10K JA 1/10W	R424	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3622	401 150 5915	MT-GLAZE 10K JA 1/10W	R426	401 255 6114	MT-GLAZE 20K JA 1/10W
R3623	401 150 5915	MT-GLAZE 10K JA 1/10W	R427	401 256 2719	MT-GLAZE 75 JA 1/10W
R3624	401 150 5915	MT-GLAZE 10K JA 1/10W	R428	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3626	401 150 5915	MT-GLAZE 10K JA 1/10W	R429	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R3627	401 150 5915	MT-GLAZE 10K JA 1/10W	R432	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R363	401 255 8712	MT-GLAZE 22 JA 1/10W	R4834	401 150 5915	MT-GLAZE 10K JA 1/10W
R364	401 255 8712	MT-GLAZE 22 JA 1/10W	R4861	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
R365	401 255 8712	MT-GLAZE 22 JA 1/10W	R4862	401 038 5013	MT-GLAZE 390 JA 1/10W
R366	401 255 8712	MT-GLAZE 22 JA 1/10W	R4863	401 256 7516	MT-GLAZE 390 JA 1/10W
R368	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5001	401 276 4311	MT-GLAZE 4.7 JA 1/3W
R369	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5002	401 256 2917	MT-GLAZE 150 JA 1/10W
R371	401 255 8712	MT-GLAZE 22 JA 1/10W	R5003	401 256 2917	MT-GLAZE 150 JA 1/10W
R372	401 255 8712	MT-GLAZE 22 JA 1/10W	R5004	401 255 6510	MT-GLAZE 100 JA 1/10W
R373	401 255 8712	MT-GLAZE 22 JA 1/10W	R5006	401 255 6510	MT-GLAZE 100 JA 1/10W
R374	401 255 8712	MT-GLAZE 22 JA 1/10W	R5007	401 255 6510	MT-GLAZE 100 JA 1/10W
R375	401 255 8712	MT-GLAZE 22 JA 1/10W	R5008	401 255 6510	MT-GLAZE 100 JA 1/10W
R376	401 255 8712	MT-GLAZE 22 JA 1/10W	R501	401 255 6510	MT-GLAZE 100 JA 1/10W
R377	401 255 8712	MT-GLAZE 22 JA 1/10W	R5011	401 256 6311	MT-GLAZE 47K JA 1/10W
R378	401 255 8712	MT-GLAZE 22 JA 1/10W	R5012	401 256 6311	MT-GLAZE 47K JA 1/10W
R379	401 255 8712	MT-GLAZE 22 JA 1/10W	R5013	401 256 6311	MT-GLAZE 47K JA 1/10W
R3801	401 162 2216	MT-GLAZE 10 JA 1/10W	R5014	401 256 6311	MT-GLAZE 47K JA 1/10W
R3802	401 162 2216	MT-GLAZE 10 JA 1/10W	R502	401 255 6510	MT-GLAZE 100 JA 1/10W
R3803	401 255 6510	MT-GLAZE 100 JA 1/10W	R503	401 255 6510	MT-GLAZE 100 JA 1/10W
R3804	401 256 2016	MT-GLAZE 430 JA 1/10W	R5031	401 162 3619	MT-GLAZE 470 JA 1/10W
R3805	401 256 6915	MT-GLAZE 680 JA 1/10W	R5032	401 162 3619	MT-GLAZE 470 JA 1/10W
R3806	401 150 5915	MT-GLAZE 10K JA 1/10W	R5033	401 162 2414	MT-GLAZE 1.2K JA 1/10W
R382	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5034	401 150 6219	MT-GLAZE 1K JA 1/10W
R390	401 150 5915	MT-GLAZE 10K JA 1/10W	R5036	401 162 2414	MT-GLAZE 1.2K JA 1/10W
R396	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5037	401 150 6219	MT-GLAZE 1K JA 1/10W
R397	401 162 2810	MT-GLAZE 1.8K JA 1/10W	R5038	401 150 5915	MT-GLAZE 10K JA 1/10W
R4001	401 150 6110	MT-GLAZE 2.2K JA 1/10W	R5039	401 256 7219	MT-GLAZE 18K JA 1/10W
R4002	401 162 3114	MT-GLAZE 3.3K JA 1/10W	R504	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R401	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5041	401 150 6219	MT-GLAZE 1K JA 1/10W
R4011	401 150 6219	MT-GLAZE 1K JA 1/10W	R5042	401 150 6219	MT-GLAZE 1K JA 1/10W
R4013	401 150 6219	MT-GLAZE 1K JA 1/10W	R5043	401 276 4717	MT-GLAZE 0.000 ZA 1/3W
R4014	401 150 6110	MT-GLAZE 2.2K JA 1/10W	R5044	401 150 5915	MT-GLAZE 10K JA 1/10W
R4016	401 150 6110	MT-GLAZE 2.2K JA 1/10W	R5046	401 150 5915	MT-GLAZE 10K JA 1/10W
R4017	401 150 6110	MT-GLAZE 2.2K JA 1/10W	R5047	401 256 5918	MT-GLAZE 2.7K JA 1/10W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R5048	401 150 6219	MT-GLAZE 1K JA 1/10W	R5288	401 150 5915	MT-GLAZE 10K JA 1/10W
R5051	401 150 5915	MT-GLAZE 10K JA 1/10W	R5289	401 150 6110	MT-GLAZE 2.2K JA 1/10W
R5052	401 264 4316	MT-GLAZE 16K FA 1/10W	R529	401 150 6219	MT-GLAZE 1K JA 1/10W
R5053	401 264 3814	MT-GLAZE 15K FA 1/10W	R5293	401 256 6311	MT-GLAZE 47K JA 1/10W
R5056	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5301	401 035 4118	MT-GLAZE 0.000 ZA 1/8W
R5058	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5303	401 255 6510	MT-GLAZE 100 JA 1/10W
R5061	401 150 6219	MT-GLAZE 1K JA 1/10W	R5304	401 255 6015	MT-GLAZE 1M JA 1/10W
R5062	401 162 2414	MT-GLAZE 1.2K JA 1/10W	R5306	401 256 7615	MT-GLAZE 3.9K JA 1/10W
R5063	401 150 6219	MT-GLAZE 1K JA 1/10W	R5307	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R5064	401 150 6219	MT-GLAZE 1K JA 1/10W	R5308	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R5066	401 162 2414	MT-GLAZE 1.2K JA 1/10W	R531	401 255 6510	MT-GLAZE 100 JA 1/10W
R5067	401 150 6219	MT-GLAZE 1K JA 1/10W	R5312	401 150 6110	MT-GLAZE 2.2K JA 1/10W
R5068	401 162 2414	MT-GLAZE 1.2K JA 1/10W	R5313	401 150 5915	MT-GLAZE 10K JA 1/10W
R5069	401 150 6219	MT-GLAZE 1K JA 1/10W	R5314	401 256 5116	MT-GLAZE 560K JA 1/10W
R5071	401 162 2414	MT-GLAZE 1.2K JA 1/10W	R5316	401 150 6219	MT-GLAZE 1K JA 1/10W
R508	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5317	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R5081	401 150 5915	MT-GLAZE 10K JA 1/10W	R5319	401 255 6510	MT-GLAZE 100 JA 1/10W
R5082	401 150 6219	MT-GLAZE 1K JA 1/10W	R532	401 255 6510	MT-GLAZE 100 JA 1/10W
R5083	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R5321	401 150 6219	MT-GLAZE 1K JA 1/10W
R509	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R533	401 255 6510	MT-GLAZE 100 JA 1/10W
R513	401 255 6510	MT-GLAZE 100 JA 1/10W	R534	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R516	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R538	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R517	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R539	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R519	401 150 6110	MT-GLAZE 2.2K JA 1/10W	R543	401 255 6510	MT-GLAZE 100 JA 1/10W
R5201	401 255 6510	MT-GLAZE 100 JA 1/10W	R546	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R5202	401 255 6510	MT-GLAZE 100 JA 1/10W	R547	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R5203	401 255 6510	MT-GLAZE 100 JA 1/10W	R549	401 150 6110	MT-GLAZE 2.2K JA 1/10W
R5204	401 150 6219	MT-GLAZE 1K JA 1/10W	R556	401 162 2810	MT-GLAZE 1.8K JA 1/10W
R5208	401 150 6219	MT-GLAZE 1K JA 1/10W	R559	401 150 6219	MT-GLAZE 1K JA 1/10W
R5209	401 150 6219	MT-GLAZE 1K JA 1/10W	R5601	401 190 1717	MT-GLAZE 0.000 ZA 1W
R5212	401 150 6219	MT-GLAZE 1K JA 1/10W	R561	401 255 6510	MT-GLAZE 100 JA 1/10W
R5213	401 255 6510	MT-GLAZE 100 JA 1/10W	R562	401 255 6510	MT-GLAZE 100 JA 1/10W
R5216	401 255 6510	MT-GLAZE 100 JA 1/10W	R5622	401 218 8612	MT-GLAZE 5.6 JA 1W
R5218	401 255 6510	MT-GLAZE 100 JA 1/10W	R5623	401 190 1717	MT-GLAZE 0.000 ZA 1W
R5219	401 256 2818	MT-GLAZE 15 JA 1/10W	R5625	401 198 7513	MT-GLAZE 15 JA 1W
R5226	401 150 6110	MT-GLAZE 2.2K JA 1/10W	R5626	401 198 7513	MT-GLAZE 15 JA 1W
R5227	401 150 6219	MT-GLAZE 1K JA 1/10W	R5627	401 198 7513	MT-GLAZE 15 JA 1W
R5228	401 256 2818	MT-GLAZE 15 JA 1/10W	R563	401 255 6510	MT-GLAZE 100 JA 1/10W
R5233	401 256 2818	MT-GLAZE 15 JA 1/10W	R5631	401 255 6510	MT-GLAZE 100 JA 1/10W
R5238	401 276 4717	MT-GLAZE 0.000 ZA 1/3W	R5632	401 225 5611	MT-GLAZE 2.2 JA 1W
R5239	401 037 5113	MT-GLAZE 10 JA 1/10W	R5633	401 225 5611	MT-GLAZE 2.2 JA 1W
R5241	401 035 4118	MT-GLAZE 0.000 ZA 1/8W	R564	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R5242	401 255 6510	MT-GLAZE 100 JA 1/10W	R5641	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R5243	401 256 5918	MT-GLAZE 2.7K JA 1/10W	R5642	401 150 6318	MT-GLAZE 200K JA 1/10W
R5244	401 150 6417	MT-GLAZE 4.3K JA 1/10W	R5643	401 256 2511	MT-GLAZE 24K JA 1/10W
R5251	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R5644	401 276 4717	MT-GLAZE 0.000 ZA 1/3W
R5252	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5650	401 255 6114	MT-GLAZE 20K JA 1/10W
R5253	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5651	401 255 8514	MT-GLAZE 9.1K JA 1/10W
R5254	401 256 3815	MT-GLAZE 1.5K JA 1/10W	R5652	401 255 8514	MT-GLAZE 9.1K JA 1/10W
R5255	401 150 6110	MT-GLAZE 2.2K JA 1/10W	R5653	401 255 9313	MT-GLAZE 62K JA 1/10W
R526	401 162 2810	MT-GLAZE 1.8K JA 1/10W	R5654	401 162 3411	MT-GLAZE 39K JA 1/10W
R5261	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R5655	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R5262	401 162 3619	MT-GLAZE 470 JA 1/10W	R5656	401 255 9313	MT-GLAZE 62K JA 1/10W
R5263	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5657	401 162 3411	MT-GLAZE 39K JA 1/10W
R5264	401 256 3815	MT-GLAZE 1.5K JA 1/10W	R5658	401 255 8514	MT-GLAZE 9.1K JA 1/10W
R5265	401 150 6110	MT-GLAZE 2.2K JA 1/10W	R5659	401 255 8514	MT-GLAZE 9.1K JA 1/10W
R5266	401 035 4118	MT-GLAZE 0.000 ZA 1/8W	R5661	401 255 7012	MT-GLAZE 51 JA 1/10W
R5271	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R5662	401 152 3216	MT-GLAZE 330 JA 1/10W
R5272	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5663	401 162 3114	MT-GLAZE 3.3K JA 1/10W
R5273	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R5664	401 256 0111	MT-GLAZE 8.2K JA 1/10W
R5274	401 256 3815	MT-GLAZE 1.5K JA 1/10W	R5666	401 256 7219	MT-GLAZE 18K JA 1/10W
R5275	401 150 6110	MT-GLAZE 2.2K JA 1/10W	R5671	401 255 7012	MT-GLAZE 51 JA 1/10W
R5281	401 150 5915	MT-GLAZE 10K JA 1/10W	R5672	401 152 3216	MT-GLAZE 330 JA 1/10W
R5282	401 150 6110	MT-GLAZE 2.2K JA 1/10W	R5673	401 162 3114	MT-GLAZE 3.3K JA 1/10W
R5283	401 162 3619	MT-GLAZE 470 JA 1/10W	R5674	401 255 6817	MT-GLAZE 30K JA 1/10W
R5284	401 162 3619	MT-GLAZE 470 JA 1/10W	R5676	401 256 7219	MT-GLAZE 18K JA 1/10W
R5286	401 162 3619	MT-GLAZE 470 JA 1/10W	R5677	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
R5287	401 162 3619	MT-GLAZE 470 JA 1/10W	R5678	401 256 6014	MT-GLAZE 27K JA 1/10W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R568	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R7863	401 255 6015	MT-GLAZE 1M JA 1/10W
R5681	401 162 2414	MT-GLAZE 1.2K JA 1/10W	R7866	401 255 7012	MT-GLAZE 51 JA 1/10W
R5682	401 256 2511	MT-GLAZE 24K JA 1/10W	R7868	401 256 3310	MT-GLAZE 75K JA 1/10W
R5683	401 256 2511	MT-GLAZE 24K JA 1/10W	R7869	401 150 5816	MT-GLAZE 100K JA 1/10W
R569	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R7871	401 264 7614	MT-GLAZE 27K FA 1/10W
R573	401 255 6510	MT-GLAZE 100 JA 1/10W	R7872	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R576	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R7873	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R577	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R7874	401 264 4712	MT-GLAZE 1.8K FA 1/10W
R579	401 150 6110	MT-GLAZE 2.2K JA 1/10W	R7878	401 150 5915	MT-GLAZE 10K JA 1/10W
R586	401 162 2810	MT-GLAZE 1.8K JA 1/10W	R7879	401 162 3015	MT-GLAZE 22K JA 1/10W
R589	401 150 6219	MT-GLAZE 1K JA 1/10W	R7881	401 150 6219	MT-GLAZE 1K JA 1/10W
R600	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R7882	401 150 5915	MT-GLAZE 10K JA 1/10W
R6801	401 264 9311	MT-GLAZE 3.3K FA 1/10W	R7883	401 256 5918	MT-GLAZE 2.7K JA 1/10W
R6802	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R7963	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R6803	401 264 1919	MT-GLAZE 10K FA 1/10W	R7964	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R6804	401 264 9311	MT-GLAZE 3.3K FA 1/10W	R7966	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R6806	401 264 3814	MT-GLAZE 15K FA 1/10W	R801	401 150 5915	MT-GLAZE 10K JA 1/10W
R6807	401 265 4414	MT-GLAZE 6.8K FA 1/10W	R802	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R6808	401 265 0317	MT-GLAZE 3.9K FA 1/10W	R803	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R6809	401 264 9311	MT-GLAZE 3.3K FA 1/10W	R804	401 150 5915	MT-GLAZE 10K JA 1/10W
R6811	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R806	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R6812	401 264 9311	MT-GLAZE 3.3K FA 1/10W	R807	401 150 5915	MT-GLAZE 10K JA 1/10W
R6813	401 264 1919	MT-GLAZE 10K FA 1/10W	R808	401 150 5915	MT-GLAZE 10K JA 1/10W
R6818	401 265 0317	MT-GLAZE 3.9K FA 1/10W	R812	401 150 5915	MT-GLAZE 10K JA 1/10W
R6819	401 264 9311	MT-GLAZE 3.3K FA 1/10W	R8201	401 256 6519	MT-GLAZE 68 JA 1/10W
R6821	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R8202	401 255 9016	MT-GLAZE 82 JA 1/10W
R6822	401 264 9311	MT-GLAZE 3.3K FA 1/10W	R8206	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R6823	401 264 1919	MT-GLAZE 10K FA 1/10W	R8211	401 256 6519	MT-GLAZE 68 JA 1/10W
R6831	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R8212	401 255 9016	MT-GLAZE 82 JA 1/10W
R6832	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R8216	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R6836	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R8221	401 256 6519	MT-GLAZE 68 JA 1/10W
R6837	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R8222	401 255 9016	MT-GLAZE 82 JA 1/10W
R6841	401 256 6915	MT-GLAZE 680 JA 1/10W	R8226	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R6843	401 256 7516	MT-GLAZE 390 JA 1/10W	R8250	401 150 5915	MT-GLAZE 10K JA 1/10W
R6846	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R8251	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
R6848	401 256 6915	MT-GLAZE 680 JA 1/10W	R8254	401 162 2216	MT-GLAZE 10 JA 1/10W
R6849	401 256 6915	MT-GLAZE 680 JA 1/10W	R8256	401 256 5918	MT-GLAZE 2.7K JA 1/10W
R6851	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R8257	401 162 2216	MT-GLAZE 10 JA 1/10W
R6853	401 162 3619	MT-GLAZE 470 JA 1/10W	R8258	401 162 2216	MT-GLAZE 10 JA 1/10W
R6854	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R8261	401 150 5915	MT-GLAZE 10K JA 1/10W
R6857	401 256 7516	MT-GLAZE 390 JA 1/10W	R8262	401 255 6510	MT-GLAZE 100 JA 1/10W
R6858	401 256 7516	MT-GLAZE 390 JA 1/10W	R8263	401 255 6510	MT-GLAZE 100 JA 1/10W
R6859	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R8291	401 276 4717	MT-GLAZE 0.000 ZA 1/3W
R6863	401 256 3815	MT-GLAZE 1.5K JA 1/10W	R830	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R6864	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R839	401 162 3114	MT-GLAZE 3.3K JA 1/10W
R6865	401 150 6219	MT-GLAZE 1K JA 1/10W	R840	401 162 3619	MT-GLAZE 470 JA 1/10W
R6866	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R841	401 150 5816	MT-GLAZE 100K JA 1/10W
R7801	401 150 5915	MT-GLAZE 10K JA 1/10W	R842	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R7802	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R843	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R7803	401 150 5915	MT-GLAZE 10K JA 1/10W	R844	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R7809	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R846	401 150 6219	MT-GLAZE 1K JA 1/10W
R7811	401 150 5915	MT-GLAZE 10K JA 1/10W	R847	401 162 4012	MT-GLAZE 560 JA 1/10W
R7812	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R848	401 256 3815	MT-GLAZE 1.5K JA 1/10W
R7813	401 255 6015	MT-GLAZE 1M JA 1/10W	R849	401 162 3718	MT-GLAZE 4.7K JA 1/10W
R7816	401 255 7012	MT-GLAZE 51 JA 1/10W	R851	401 162 3718	MT-GLAZE 4.7K JA 1/10W
R7818	401 256 3310	MT-GLAZE 75K JA 1/10W	R852	401 162 3718	MT-GLAZE 4.7K JA 1/10W
R7819	401 150 5816	MT-GLAZE 100K JA 1/10W	R856	401 256 5611	MT-GLAZE 47 JA 1/10W
R7821	401 264 7614	MT-GLAZE 27K FA 1/10W	R858	401 150 6219	MT-GLAZE 1K JA 1/10W
R7822	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R868	401 150 6219	MT-GLAZE 1K JA 1/10W
R7823	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	R869	401 150 6219	MT-GLAZE 1K JA 1/10W
R7824	401 264 4712	MT-GLAZE 1.8K FA 1/10W	R870	401 150 6219	MT-GLAZE 1K JA 1/10W
R7828	401 150 5915	MT-GLAZE 10K JA 1/10W	R871	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R7829	401 162 3015	MT-GLAZE 22K JA 1/10W	R872	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R7831	401 150 6219	MT-GLAZE 1K JA 1/10W	R873	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R7832	401 150 5915	MT-GLAZE 10K JA 1/10W	R874	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R7833	401 256 5918	MT-GLAZE 2.7K JA 1/10W	R876	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R7861	401 150 5915	MT-GLAZE 10K JA 1/10W	R877	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
R7862	401 162 3718	MT-GLAZE 4.7K JA 1/10W	R878	401 150 6011	MT-GLAZE 0.000 ZA 1/10W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R879	401 150 6011	MT-GLAZE 0.000 ZA 1/10W		645 037 0823	R-NETWORK 22X4 1/32W
R8811	401 162 2216	MT-GLAZE 10 JA 1/10W	RB382	645 034 5050	R-NETWORK 22X4 1/32W
R8812	401 162 2216	MT-GLAZE 10 JA 1/10W		645 037 0823	R-NETWORK 22X4 1/32W
R8813	401 150 5915	MT-GLAZE 10K JA 1/10W	RB383	645 034 5050	R-NETWORK 22X4 1/32W
R8821	401 162 2216	MT-GLAZE 10 JA 1/10W		645 037 0823	R-NETWORK 22X4 1/32W
R8822	401 162 2216	MT-GLAZE 10 JA 1/10W	RB384	645 034 5050	R-NETWORK 22X4 1/32W
R8823	401 150 5915	MT-GLAZE 10K JA 1/10W		645 037 0823	R-NETWORK 22X4 1/32W
R8824	401 150 5915	MT-GLAZE 10K JA 1/10W	RB386	645 034 5050	R-NETWORK 22X4 1/32W
R8831	401 162 2216	MT-GLAZE 10 JA 1/10W		645 037 0823	R-NETWORK 22X4 1/32W
R8832	401 162 2216	MT-GLAZE 10 JA 1/10W	RB388	645 034 5050	R-NETWORK 22X4 1/32W
R8833	401 150 5915	MT-GLAZE 10K JA 1/10W		645 037 0823	R-NETWORK 22X4 1/32W
R893	401 150 6011	MT-GLAZE 0.000 ZA 1/10W	RB8251	645 034 5050	R-NETWORK 22X4 1/32W
R894	401 150 6011	MT-GLAZE 0.000 ZA 1/10W		645 037 0823	R-NETWORK 22X4 1/32W
R896	401 162 4012	MT-GLAZE 560 JA 1/10W	RB8252	645 034 5050	R-NETWORK 22X4 1/32W
R897	401 150 6011	MT-GLAZE 0.000 ZA 1/10W		645 037 0823	R-NETWORK 22X4 1/32W
R898	401 255 6510	MT-GLAZE 100 JA 1/10W	RB8253	645 034 5050	R-NETWORK 22X4 1/32W
R9822	401 162 2216	MT-GLAZE 10 JA 1/10W		645 037 0823	R-NETWORK 22X4 1/32W
R9823	401 162 2216	MT-GLAZE 10 JA 1/10W	RB8254	645 034 5050	R-NETWORK 22X4 1/32W
R9882	401 150 6011	MT-GLAZE 0.000 ZA 1/10W		645 037 0823	R-NETWORK 22X4 1/32W
RB101	645 034 5050	R-NETWORK 22X4 1/32W	RB8256	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W		645 037 0823	R-NETWORK 22X4 1/32W
RB102	645 034 5050	R-NETWORK 22X4 1/32W	RB8257	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W		645 037 0823	R-NETWORK 22X4 1/32W
RB103	645 034 5050	R-NETWORK 22X4 1/32W	TRANSFORMER		
	645 037 0823	R-NETWORK 22X4 1/32W	T5601	405 139 7716	TR IMZ1A-T108
RB104	645 034 5050	R-NETWORK 22X4 1/32W	T5611	405 139 7716	TR IMZ1A-T108
	645 037 0823	R-NETWORK 22X4 1/32W	COIL		
RB1401	645 037 0823	R-NETWORK 22X4 1/32W	L1002	645 068 8348	FILTER,EMI 400MHZ
RB1402	645 037 0823	R-NETWORK 22X4 1/32W	L1012	645 068 8348	FILTER,EMI 400MHZ
RB1403	645 037 0823	R-NETWORK 22X4 1/32W	L1022	645 068 8348	FILTER,EMI 400MHZ
RB1404	645 037 0823	R-NETWORK 22X4 1/32W	L1031	645 068 8331	FILTER,EMI 200MHZ
RB1406	645 037 0823	R-NETWORK 22X4 1/32W	L1041	645 068 8331	FILTER,EMI 200MHZ
RB1407	645 037 0823	R-NETWORK 22X4 1/32W	L105	645 059 2263	INDUCTOR,4.7U M
RB1501	645 037 0816	R-NETWORK 0X4 1/32W	L1051	645 068 8348	FILTER,EMI 400MHZ
RB1502	645 037 0816	R-NETWORK 0X4 1/32W	L106	645 059 2263	INDUCTOR,4.7U M
RB1531	645 037 0816	R-NETWORK 0X4 1/32W	L1061	645 068 8348	FILTER,EMI 400MHZ
RB1532	645 037 0816	R-NETWORK 0X4 1/32W	L107	645 059 2263	INDUCTOR,4.7U M
RB1561	645 037 0816	R-NETWORK 0X4 1/32W	L1071	645 068 8348	FILTER,EMI 400MHZ
RB1562	645 037 0816	R-NETWORK 0X4 1/32W	L108	645 059 2263	INDUCTOR,4.7U M
RB361	645 034 5050	R-NETWORK 22X4 1/32W	L1081	645 068 8331	FILTER,EMI 200MHZ
	645 037 0823	R-NETWORK 22X4 1/32W	L109	401 037 5014	MT-GLAZE 0.000 ZA 1/10W
RB362	645 034 5050	R-NETWORK 22X4 1/32W	L1091	645 068 8331	FILTER,EMI 200MHZ
	645 037 0823	R-NETWORK 22X4 1/32W	L1301	401 276 4717	MT-GLAZE 0.000 ZA 1/3W
RB363	645 034 5050	R-NETWORK 22X4 1/32W	L1801	645 062 2823	INDUCTOR,3.3U M
	645 037 0823	R-NETWORK 22X4 1/32W	L1802	645 059 1747	INDUCTOR,2.2U J
RB364	645 034 5050	R-NETWORK 22X4 1/32W	L2001	645 068 8324	FILTER,EMI 20MHZ
	645 037 0823	R-NETWORK 22X4 1/32W	L2011	401 035 4118	MT-GLAZE 0.000 ZA 1/8W
RB366	645 034 5050	R-NETWORK 22X4 1/32W	L2012	645 068 8317	FILTER,EMI 100MHZ
	645 037 0823	R-NETWORK 22X4 1/32W	L2021	401 035 4118	MT-GLAZE 0.000 ZA 1/8W
RB367	645 034 5050	R-NETWORK 22X4 1/32W	L2022	645 068 8317	FILTER,EMI 100MHZ
	645 037 0823	R-NETWORK 22X4 1/32W	L2031	401 035 4118	MT-GLAZE 0.000 ZA 1/8W
RB371	645 034 5050	R-NETWORK 22X4 1/32W	L2032	645 068 8317	FILTER,EMI 100MHZ
	645 037 0823	R-NETWORK 22X4 1/32W	L2041	645 068 8324	FILTER,EMI 20MHZ
RB372	645 034 5050	R-NETWORK 22X4 1/32W	L2051	645 068 8324	FILTER,EMI 20MHZ
	645 037 0823	R-NETWORK 22X4 1/32W	L2501	401 035 4118	MT-GLAZE 0.000 ZA 1/8W
RB373	645 034 5050	R-NETWORK 22X4 1/32W	L2506	401 035 4316	MT-GLAZE 10 JA 1/8W
	645 037 0823	R-NETWORK 22X4 1/32W	L3002	645 068 8324	FILTER,EMI 20MHZ
RB374	645 034 5050	R-NETWORK 22X4 1/32W	L301	401 150 6011	MT-GLAZE 0.000 ZA 1/10W
	645 037 0823	R-NETWORK 22X4 1/32W	L3011	645 068 8324	FILTER,EMI 20MHZ
RB376	645 034 5050	R-NETWORK 22X4 1/32W	L302	645 050 8448	IMPEDANCE,1000 OHM P
	645 037 0823	R-NETWORK 22X4 1/32W	L3051	645 068 8324	FILTER,EMI 20MHZ
RB377	645 034 5050	R-NETWORK 22X4 1/32W	L3061	645 068 8324	FILTER,EMI 20MHZ
	645 037 0823	R-NETWORK 22X4 1/32W	L3081	645 068 8324	FILTER,EMI 20MHZ
RB378	645 034 5050	R-NETWORK 22X4 1/32W	L3082	645 068 8324	FILTER,EMI 20MHZ
	645 037 0823	R-NETWORK 22X4 1/32W	L351	645 050 8448	IMPEDANCE,1000 OHM P
RB379	645 034 5050	R-NETWORK 22X4 1/32W	L3531	645 062 2823	INDUCTOR,3.3U M
	645 037 0823	R-NETWORK 22X4 1/32W	L3581	645 062 2823	INDUCTOR,3.3U M
RB381	645 034 5050	R-NETWORK 22X4 1/32W			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
L401	401 035 4118	MT-GLAZE 0.000 ZA 1/8W	D7812	407 201 2721	DIODE RB051L-40-TE25
L501	645 041 2189	INDUCTOR, 3.3U J	D7862	407 201 2721	DIODE RB051L-40-TE25
L502	401 036 0317	MT-GLAZE 2.2 JA 1/8W	MISCELLANEOUS		
L5031	645 062 2823	INDUCTOR, 3.3U M	FB601	645 041 1977	INDUCTOR, 330 OHM
L5302	645 059 2263	INDUCTOR, 4.7U M	K10A	645 050 8011	SOCKET, D-SUB 15P
L531	645 041 2189	INDUCTOR, 3.3U J	K10B	645 050 8011	SOCKET, D-SUB 15P
L5311	645 059 2263	INDUCTOR, 4.7U M	K20A	645 076 2734	JACK, RCA-2
L532	401 036 0317	MT-GLAZE 2.2 JA 1/8W	K20B	645 067 6123	TERMINAL, BOARD
L5601	645 062 2854	INDUCTOR, 33U M	K30B	645 076 2741	JACK, PHON D3.6
L561	645 041 2189	INDUCTOR, 3.3U J	K40A	645 075 1752	SOCKET, USB 4P
L5611	645 062 2854	INDUCTOR, 33U M	K40B	645 078 1612	SOCKET, DIN 8P
L5612	645 033 7949	INDUCTOR, 33U M	SC1031	645 076 3502	SURGE-ABSORBER
L562	401 036 0317	MT-GLAZE 2.2 JA 1/8W	SC1041	645 076 3502	SURGE-ABSORBER
L7811	645 038 4578	INDUCTOR, 33U M	SC1081	645 076 3502	SURGE-ABSORBER
L7861	645 038 4561	INDUCTOR, 100U M	SC1091	645 076 3502	SURGE-ABSORBER
L8251	401 035 4118	MT-GLAZE 0.000 ZA 1/8W	SC2001	645 076 3502	SURGE-ABSORBER
DIODE			SC2011	645 076 3502	SURGE-ABSORBER
D2002	407 209 1211	ZD UDZS-TE-176.2B	SC2021	645 076 3502	SURGE-ABSORBER
D2891	407 209 1211	ZD UDZS-TE-176.2B	SC2031	645 076 3502	SURGE-ABSORBER
D2892	407 209 1211	ZD UDZS-TE-176.2B	SC2041	645 076 3502	SURGE-ABSORBER
D3051	407 149 0817	DIODE 1SS355-TE-17	SC2051	645 076 3502	SURGE-ABSORBER
D3601	407 149 0817	DIODE 1SS355-TE-17	SC3001	645 076 3502	SURGE-ABSORBER
D3602	407 149 0817	DIODE 1SS355-TE-17	SC301	645 076 3502	SURGE-ABSORBER
D3603	407 149 0817	DIODE 1SS355-TE-17	SC3011	645 076 3502	SURGE-ABSORBER
D3604	407 149 0817	DIODE 1SS355-TE-17	SC302	645 076 3502	SURGE-ABSORBER
D3606	407 149 0817	DIODE 1SS355-TE-17	SC303	645 076 3502	SURGE-ABSORBER
D3607	407 149 0817	DIODE 1SS355-TE-17	SC304	645 076 3502	SURGE-ABSORBER
D3608	407 149 0817	DIODE 1SS355-TE-17	SC3051	645 076 3502	SURGE-ABSORBER
D3609	407 149 0817	DIODE 1SS355-TE-17	SC306	645 076 3502	SURGE-ABSORBER
D3611	407 149 0817	DIODE 1SS355-TE-17	SC3061	645 076 3502	SURGE-ABSORBER
D3612	407 149 0817	DIODE 1SS355-TE-17	SC307	645 076 3502	SURGE-ABSORBER
D3613	407 149 0817	DIODE 1SS355-TE-17	SC3071	645 076 3502	SURGE-ABSORBER
D3614	407 149 0817	DIODE 1SS355-TE-17	SC3072	645 076 3502	SURGE-ABSORBER
D3617	407 149 0817	DIODE 1SS355-TE-17	SC3073	645 076 3502	SURGE-ABSORBER
D3618	407 149 0817	DIODE 1SS355-TE-17	SC308	645 076 3502	SURGE-ABSORBER
D3619	407 149 0817	DIODE 1SS355-TE-17	SC3081	645 076 3502	SURGE-ABSORBER
D3620	407 149 0817	DIODE 1SS355-TE-17	SC3082	645 076 3502	SURGE-ABSORBER
D3621	407 149 0817	DIODE 1SS355-TE-17	SC309	645 076 3502	SURGE-ABSORBER
D3622	407 149 0817	DIODE 1SS355-TE-17	SC3091	645 076 3502	SURGE-ABSORBER
D3623	407 149 0817	DIODE 1SS355-TE-17	SC311	645 076 3502	SURGE-ABSORBER
D3624	407 149 0817	DIODE 1SS355-TE-17	SC313	645 076 3502	SURGE-ABSORBER
D3626	407 149 0817	DIODE 1SS355-TE-17	SC5601	645 076 3502	SURGE-ABSORBER
D3627	407 149 0817	DIODE 1SS355-TE-17	SC5602	645 076 3502	SURGE-ABSORBER
D3801	407 149 0817	DIODE 1SS355-TE-17	SC5603	645 076 3502	SURGE-ABSORBER
D4812	407 223 1112	ZENER DIODE 02DZ6.2Y(TPH3	SW50A	645 010 7658	SWITCH, PUSH 1P-1TX1
D4813	407 223 1112	ZENER DIODE 02DZ6.2Y(TPH3	SW6801	645 026 2791	SWITCH, PUSH 1P-1TX1
D5061	407 149 0817	DIODE 1SS355-TE-17	SW6802	645 026 2791	SWITCH, PUSH 1P-1TX1
D5062	407 149 0817	DIODE 1SS355-TE-17	SW6803	645 026 2791	SWITCH, PUSH 1P-1TX1
D5601	407 201 2721	DIODE RB051L-40-TE25	SW6804	645 026 2791	SWITCH, PUSH 1P-1TX1
D5602	407 209 4519	ZD UDZS-TE-176.8B	SW6806	645 026 2791	SWITCH, PUSH 1P-1TX1
D5607	645 076 3502	SURGE-ABSORBER	SW6807	645 026 2791	SWITCH, PUSH 1P-1TX1
D5608	645 076 3502	SURGE-ABSORBER	SW6808	645 026 2791	SWITCH, PUSH 1P-1TX1
D5611	407 201 2721	DIODE RB051L-40-TE25	SW6809	645 026 2791	SWITCH, PUSH 1P-1TX1
D5612	407 209 4519	ZD UDZS-TE-176.8B	SW6811	645 026 2791	SWITCH, PUSH 1P-1TX1
D5621	407 210 5413	DIODE RB551V-30-TE-17	X101	645 076 4653	OSC, CRYSTAL 24.576MHZ
D5631	407 209 4519	ZD UDZS-TE-176.8B	X1331	645 076 0280	OSC, CRYSTAL 14.31818MHZ
D6801	407 209 1211	ZD UDZS-TE-176.2B	X1801	645 076 0310	OSC, CRYSTAL 48MHZ
D6802	407 209 1211	ZD UDZS-TE-176.2B	610 325 1806 ASSY,PWB,R/CS. MR5A		
D6803	407 209 1211	ZD UDZS-TE-176.2B	CAPACITOR		
D6804	407 209 1211	ZD UDZS-TE-176.2B	C2901	403 283 6339	CERAMIC 1U Z 10V
D6831	407 209 7510	LED SML-210YT T86 L	C2902	403 157 6612	CERAMIC 470P K 50V
D6832	407 203 7813	LED SML-210LT T86 M	C2903	403 378 3117	CERAMIC 47U Z 6.3V
D6833	407 222 4817	LED SML-521MUW T86			
D6841	407 221 7116	ZENER DIODE UDZS-TE-1712B			
D6842	407 221 7116	ZENER DIODE UDZS-TE-1712B			
D6843	407 221 7116	ZENER DIODE UDZS-TE-1712B			
D6844	407 221 7116	ZENER DIODE UDZS-TE-1712B			

Electrical Parts List

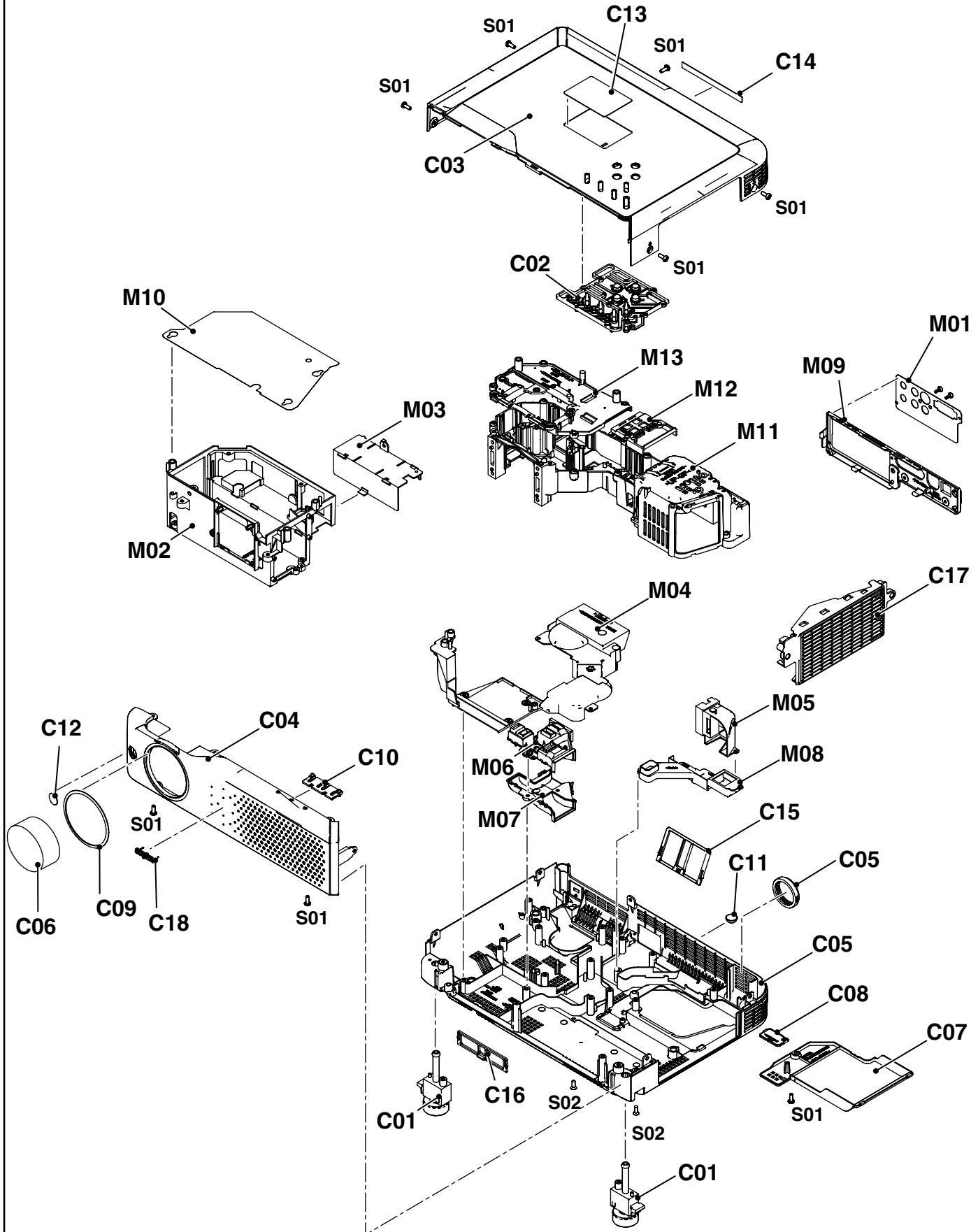
Key No.	Part No.	Description	Key No.	Part No.	Description
RESISTOR					
R2901	401 150 6011	MT-GLAZE 0.000 ZA 1/10W			
R2902	401 255 6510	MT-GLAZE 100 JA 1/10W			
MISCELLANEOUS					
A2901	645 067 5546	UNIT,REMOCON RECEIVER			
PACKING MATERIALS DIRECTORY					
	610 324 5775	CARTON CASE-MR5A			
	610 323 2065	CUSHION SPACER-MT5A			
	610 323 2522	CUSHION BTM-MT5A			
	610 323 1785	CUSHION TOP-MT5A			
	645 068 6863	POLY BAG-0440X0480*NC			
ACCESSORIES DIRECTORY					
⚠ AC COARD					
US	645 064 6362	CORD, POWER-3.0MK, US			
EU	645 054 1155	CORD, POWER-3.0MK			
UK	645 054 1148	CORD, POWER-3.138MK			
OWNER'S MANUAL					
ENGLISH	610 327 2160	OWNERS MANUAL-MR5A			
GERMANY	610 327 2375	OWNERS MANUAL-MR5A-D			
FRENCH	610 327 2245	OWNERS MANUAL-MR5A-F			
ITALIAN	610 327 2290	OWNERS MANUAL-MR5A-I			
SPANISH	610 327 2177	OWNERS MANUAL-MR5A-E			
MISCELLANEOUS					
	610 326 1607	STRAP COMP-MT5A			
	645 073 4854	CABLE, INTERFACE VGA			
REMOTE CONTROL					
	645 079 3547	ASSY,REMOCON CXTJ			
	610 321 4481	RC-BATTERY LID-CXTJ			

Electrical Parts List

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

Mechanical Parts List

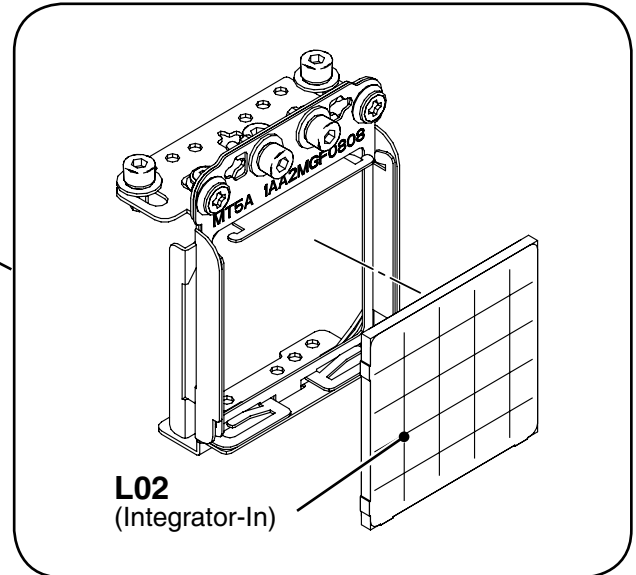
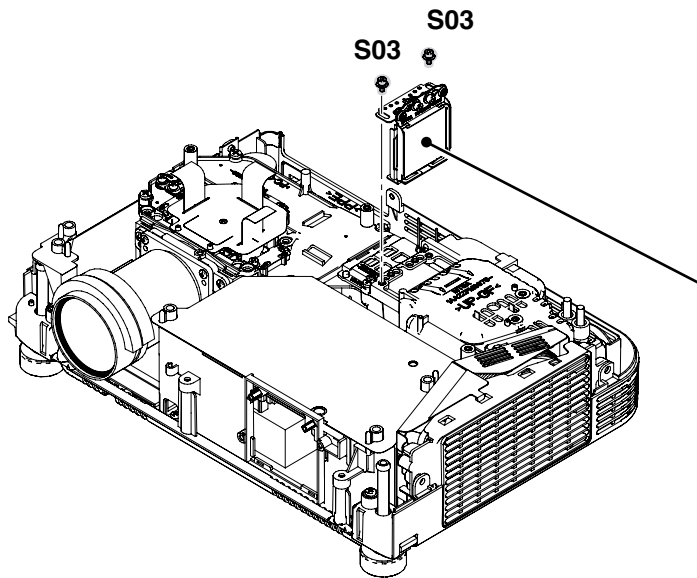
Cabinet Parts Location



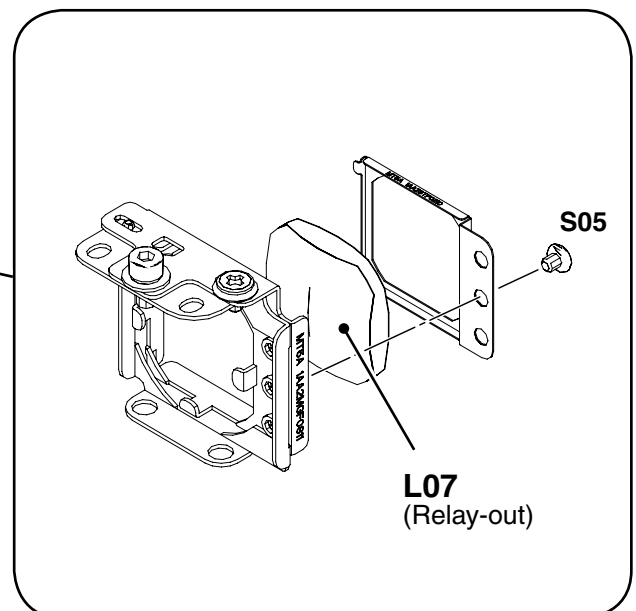
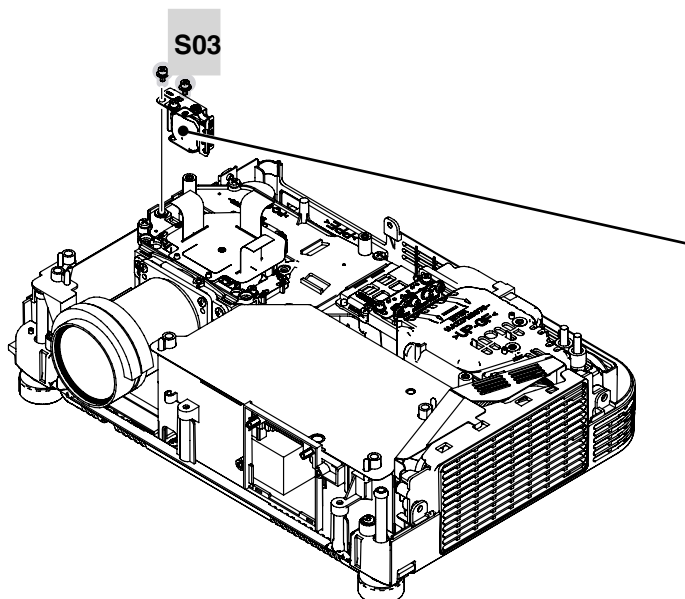
Mechanical Parts List

Optical Parts Location

Integrator Lens-In

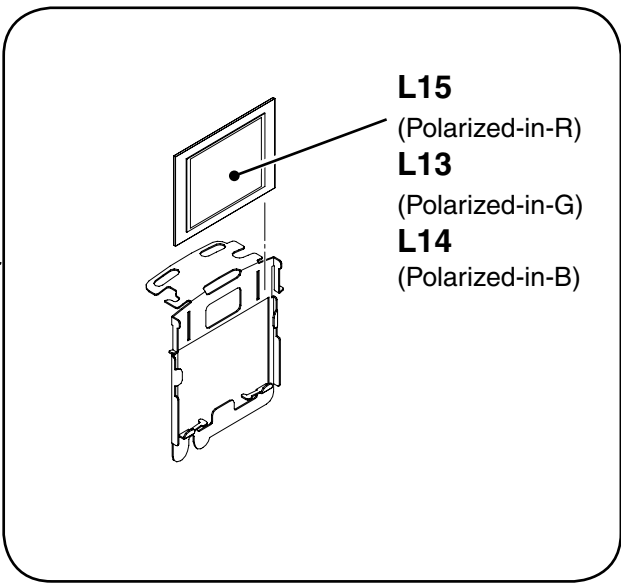
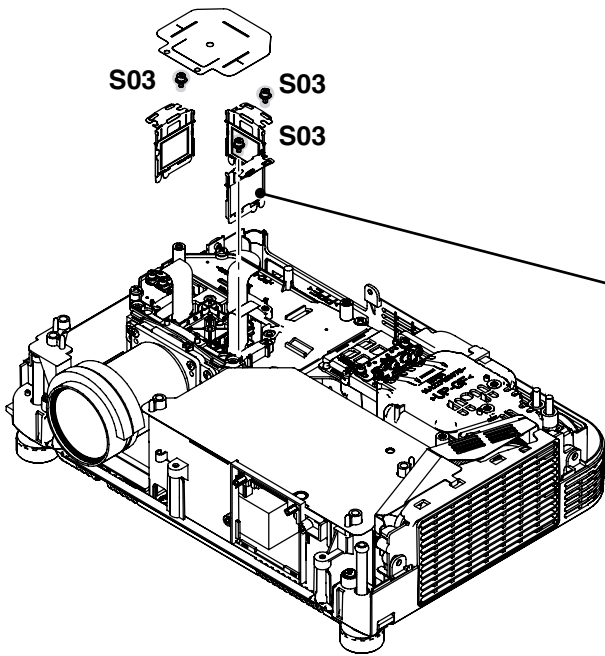


Relay Lens-Out

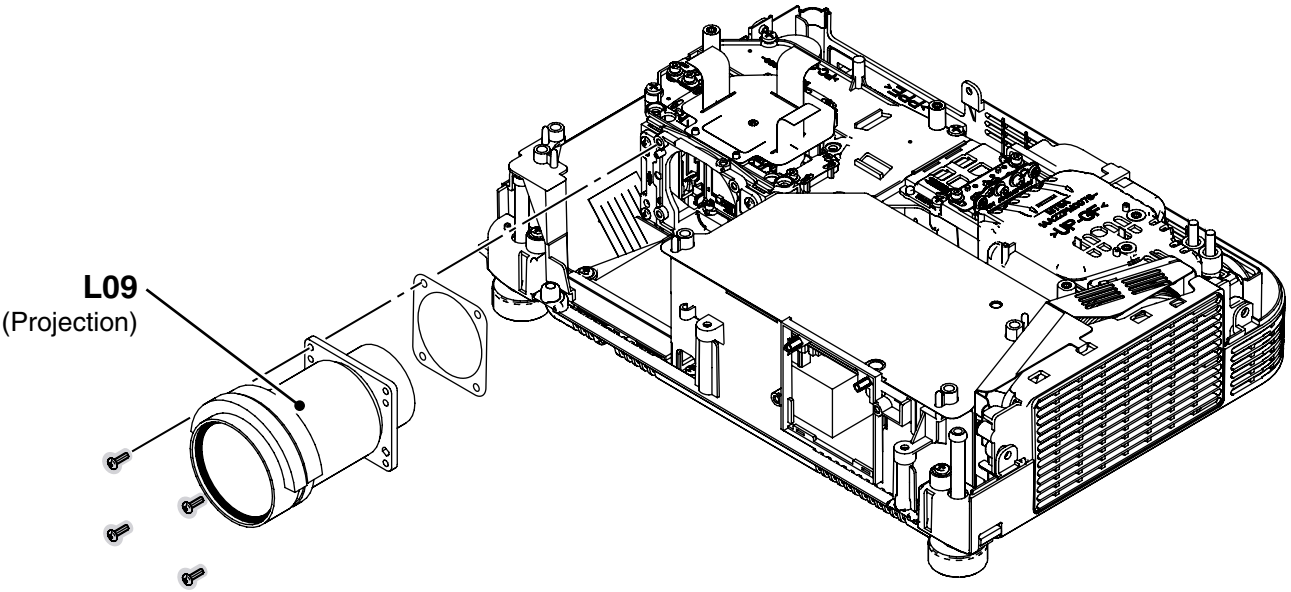


Mechanical Parts List

Polarized Glass-In

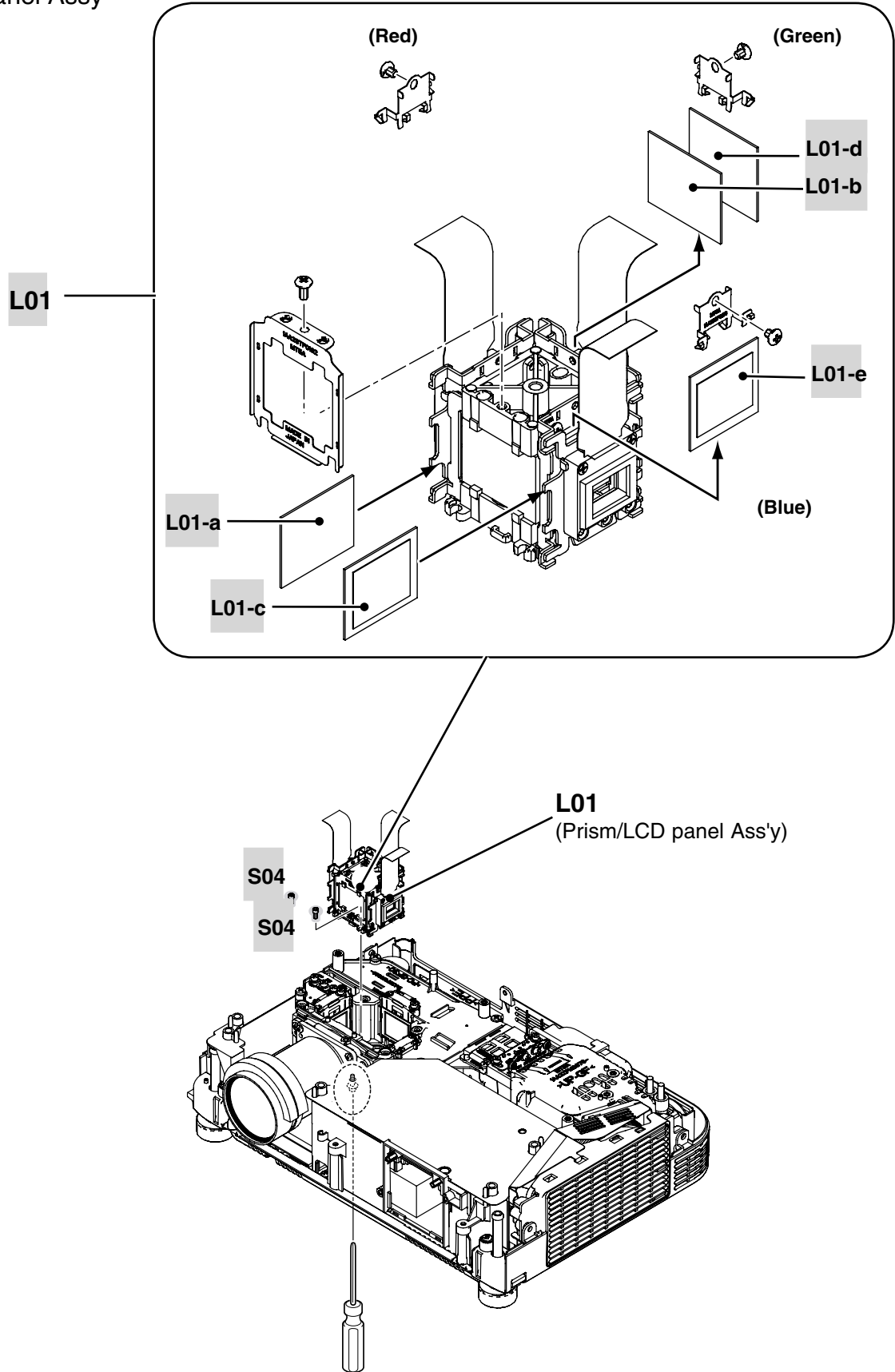


Projection Lens

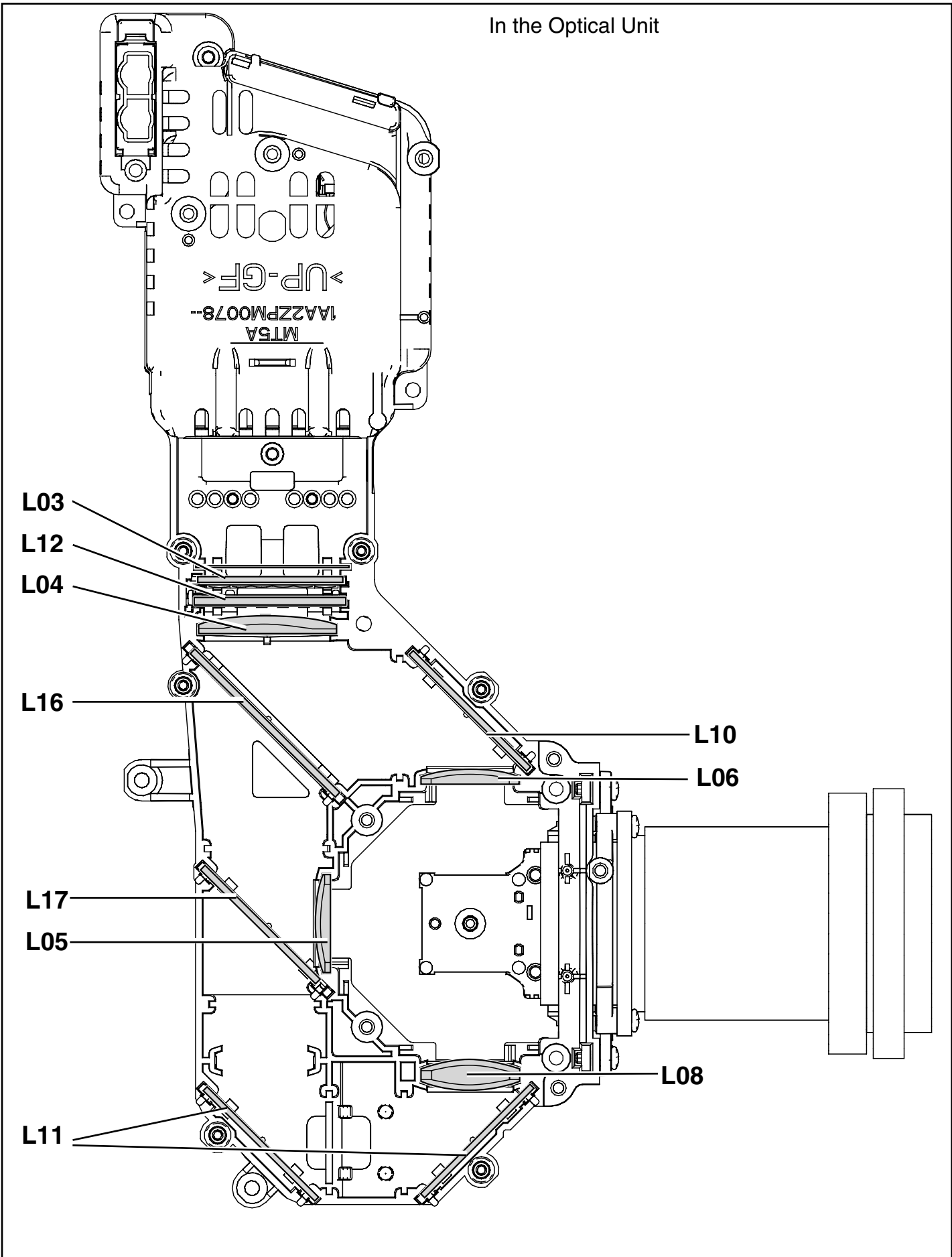


Mechanical Parts List

Prism/LCD Panel Assy



Mechanical Parts List



Mechanical Parts List

Mechanical Parts List

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

Key No.	Part No.	Description	Key No.	Part No.	Description
CABINET PARTS			L10	645 081 7649	MIRROR (B)
C01	610 323 1778	ASSY,STAND LEG-MT5A	L11	645 078 0813	MIRROR (R)
C02	610 323 2393	BUTTON-MT5A	L11	645 081 7656	MIRROR (R)
C03	610 324 5911	CABINET TOP SERVICE-MR5A (Including Key No. C13 and C14)	L12	645 078 0844	PRISM (PBS)
C04	610 322 2530	CABINET FRONT-MT5A	L12	645 081 8509	ASSY, PRISM (PBS)
C05	610 323 3048	CABINET BOTTOM SERVICE-MT5A	L15	645 077 0852	POLARIZED GLASS (IN/R)
C06	610 311 4798	CAP LENS-MY3A	L13	645 077 0869	POLARIZED GLASS (IN/G)
C07	610 323 2782	COVER ,LP SERVICE-MT5A	L14	645 077 0876	POLARIZED GLASS (IN/B)
C08	610 323 3079	COVER, FUSE-MT5A	L16	645 078 0776	DICHROIC MIRROR (B)
C09	610 323 1761	DEC RING-MT5A	L17	645 078 0783	DAICHROIC MIRROR (G)
C10	610 323 2348	DEC INLAY LED-MT5A			
C11	610 295 3084	DEC LEG-MW6A			
C12	610 302 5612	DEC SHEET-M4JA			
C13	610 324 5898	DEC SHEET TOP-MR5A			
C14	610 324 2385	DEC AV SHEET A-MT5A			
C15	610 323 1860	FILTER BASE B-MT5A			
C16	610 323 2416	FILTER BASE F-MT5A			
C17	610 322 5913	GRILLE -MT5A			
C18	645 047 8031	BADGE,SANYO*26.2X5.7L26.0			
CHASSIS PARTS					
M01	610 323 2324	DEC AV SHEET-MT5A			
M02	610 323 2362	HOLDER POWER PWB B-MT5A			
M03	610 323 3093	HOLDER LN FLT-MT5A			
M04	610 323 2218	MOUNTING DUCT TOP-MT5A			
M05	610 323 2263	MOUNTING DUCT PBS-MT5A			
M06	610 323 2423	MOUNTING DUCT TOP#PNL-MT5A			
M07	610 323 1938	MOUNTING DUCT BTM#PNL-MT5A			
M08	610 323 1945	MOUNTING DUCT LP-MT5A			
M09	610 322 2752	PANEL AV-MT5A			
M10	610 323 2102	SPACER SHEET#POWER T-MT5A			
M11	610 321 7819	OPTICAL BASE BTM-MT5A			
M12	610 321 7895	OPTICAL BASE TOP A-MT5A			
M13	610 321 7789	OPTICAL BASE TOP B-MT5A			
SCREWS					
S01	411 188 6706	SCR S-TPG BIN 3X8			
S02	411 190 7302	SCR S-TPG PAN 3X6			
S03	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5			
S04	412 069 7102	SPECIAL SCREW V			
S05	411 192 9601	SCR BIN 2X3			
OPTICAL PARTS					
L01	610 327 7561	ASSY,LCD PNL/PSM -MR5A (Including Key No L01-a to L01-e and LCD Panels)			
L01-a	645 077 0883	POLARIZED GLASS (OUT/R)			
L01-b	645 077 0890	POLARIZED GLASS (OUT/G)			
L01-c	645 077 0906	POLARIZED GLASS (OUT/B)			
L01-d,e	645 077 0913	PRE-POLARIZED GLASS (OUT/G)			
L02	645 078 0691	LENS, INTEGRATOR (IN)			
L03	645 078 0707	LENS, INTEGRATOR (OUT)			
L04	645 078 0721	LENS, CONDENSER (OUT)			
L05	645 078 0738	LENS, CONDENSER (G)			
L06	645 078 0745	LENS, CONDENSER (B)			
L07	645 078 0752	LENS, RELAY (OUT)			
L08	645 078 0769	LENS, CONDENSER (R)			
L09	645 078 4149	LENS, PROJECTION			
L10	645 078 0806	MIRROR (B)			



Diagrams & Drawings

Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
PLC-SU70	MR5-SU7000

**These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. MR5-SU7000 model PLC-SU70.
File with the service manual No. SM5110751-00**

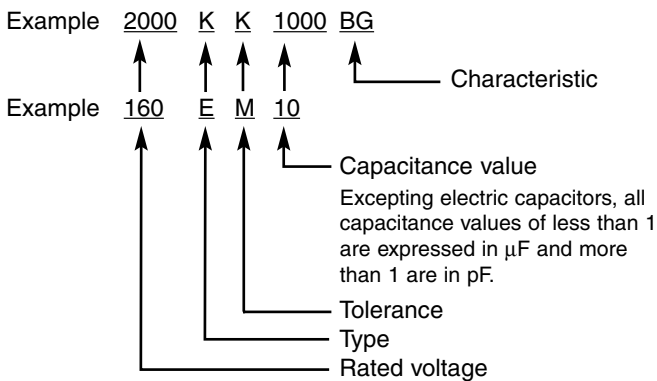
Note:

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

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



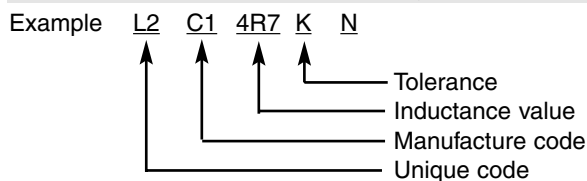
Material table

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

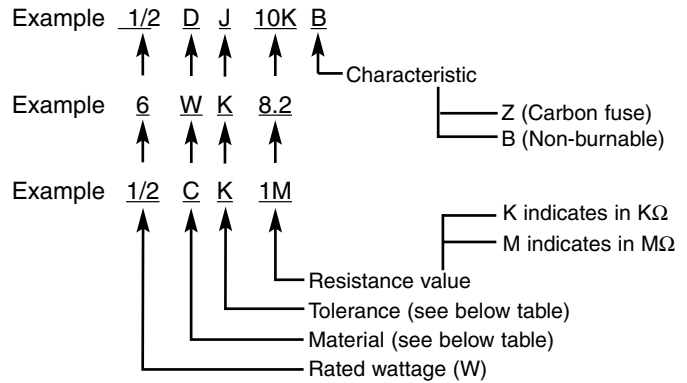
Mark	Tolerance
A	not specified
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
E	± 2.5
H	± 3
J	± 5
K	± 10
M	± 20
N	± 30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

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

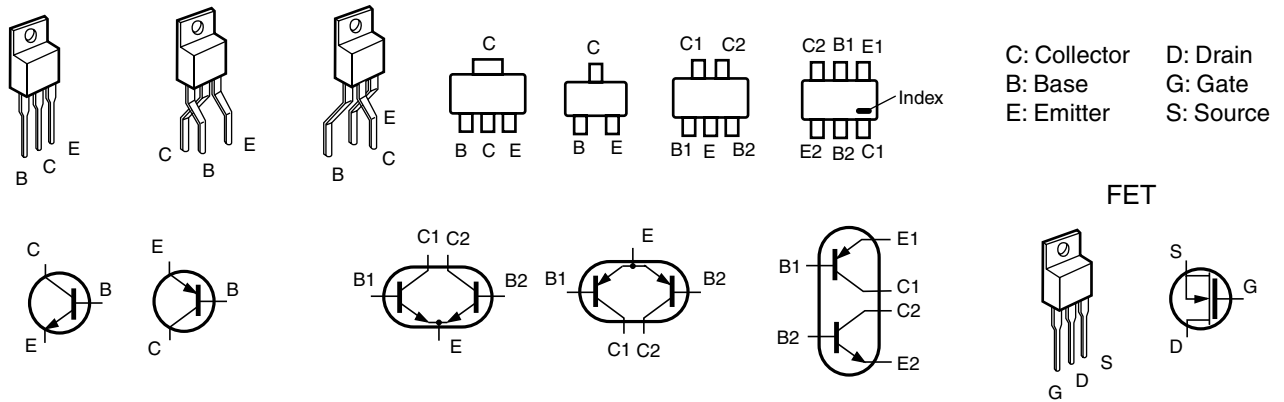
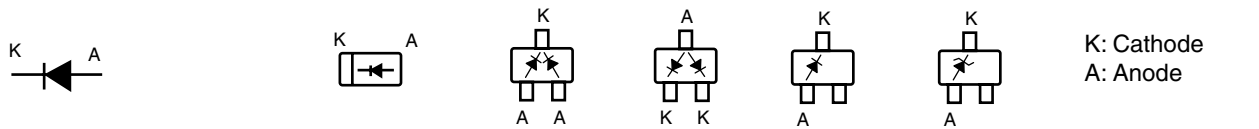
(2) PNP type

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

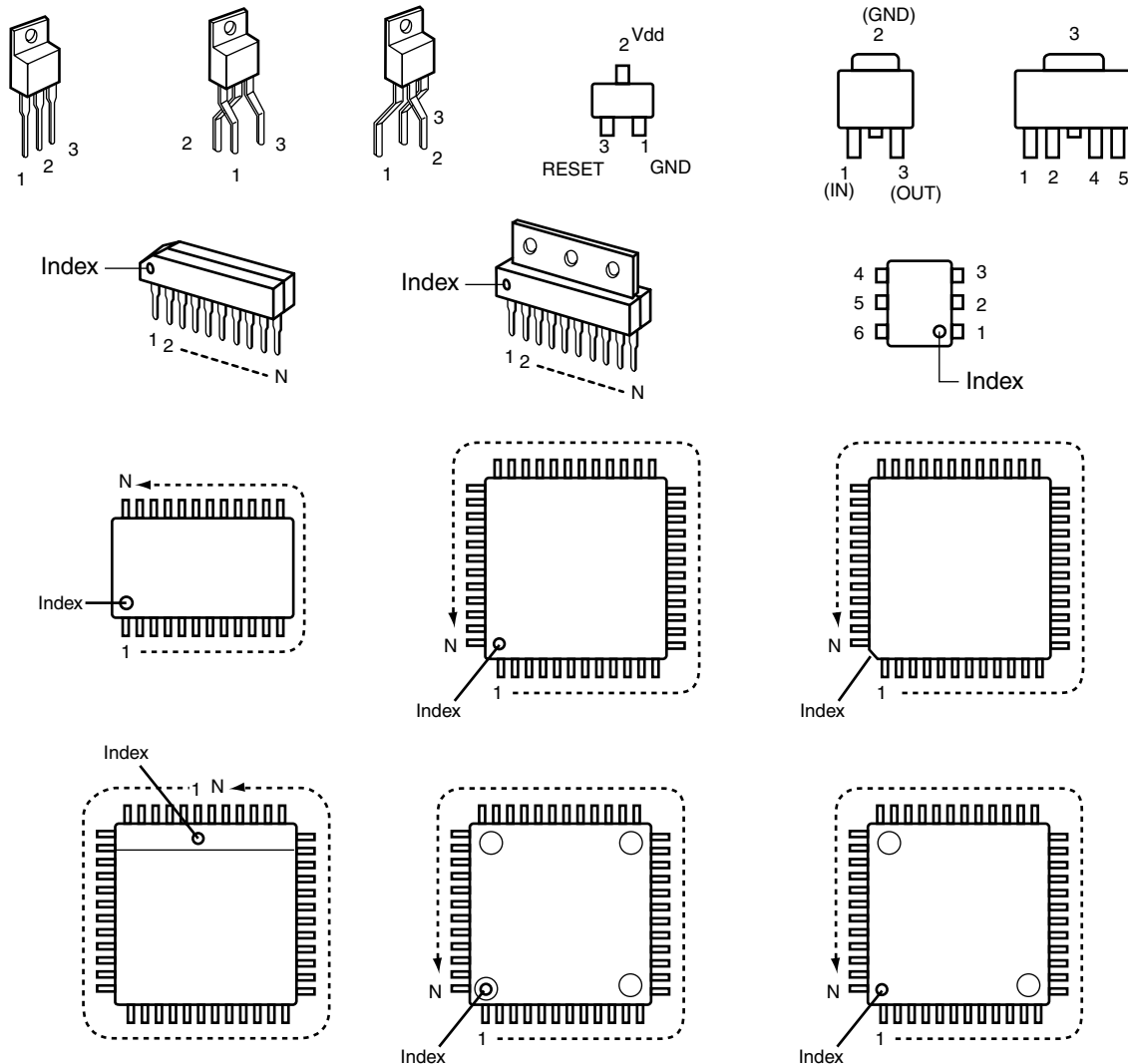
(3) Chip type

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

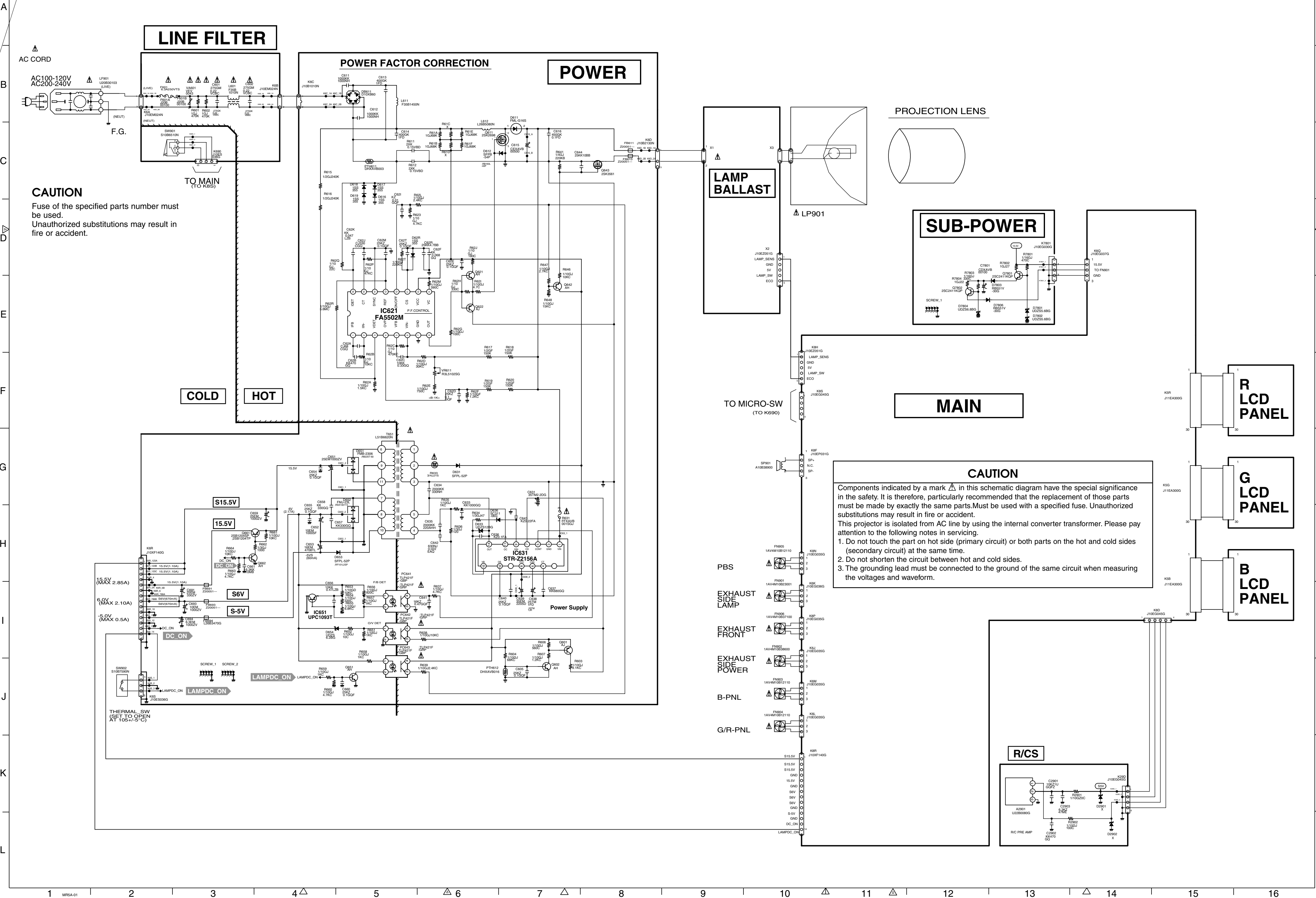
- Transistor/FET



- IC



Schematic Diagrams



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I

J

K

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K

L

PC1
RGB/
YCbCr/
SCARTPC2
RGB-IN/
RGB-OUTS-VIDEO
VIDEO
AUDIO_INPC
AUDIO_IN

AUDIO_OUT

USB
FUNCTIONCONTROL
PORT

RESET_SW

R

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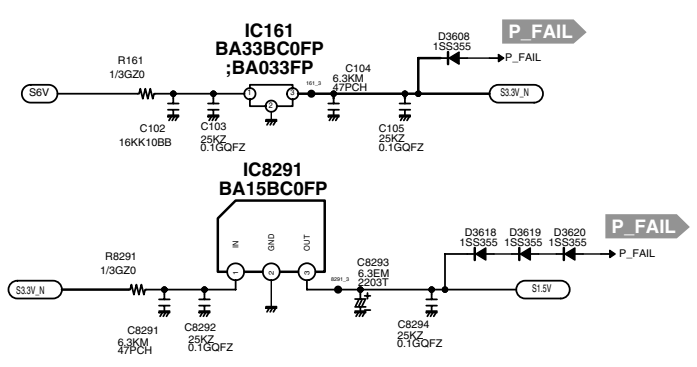
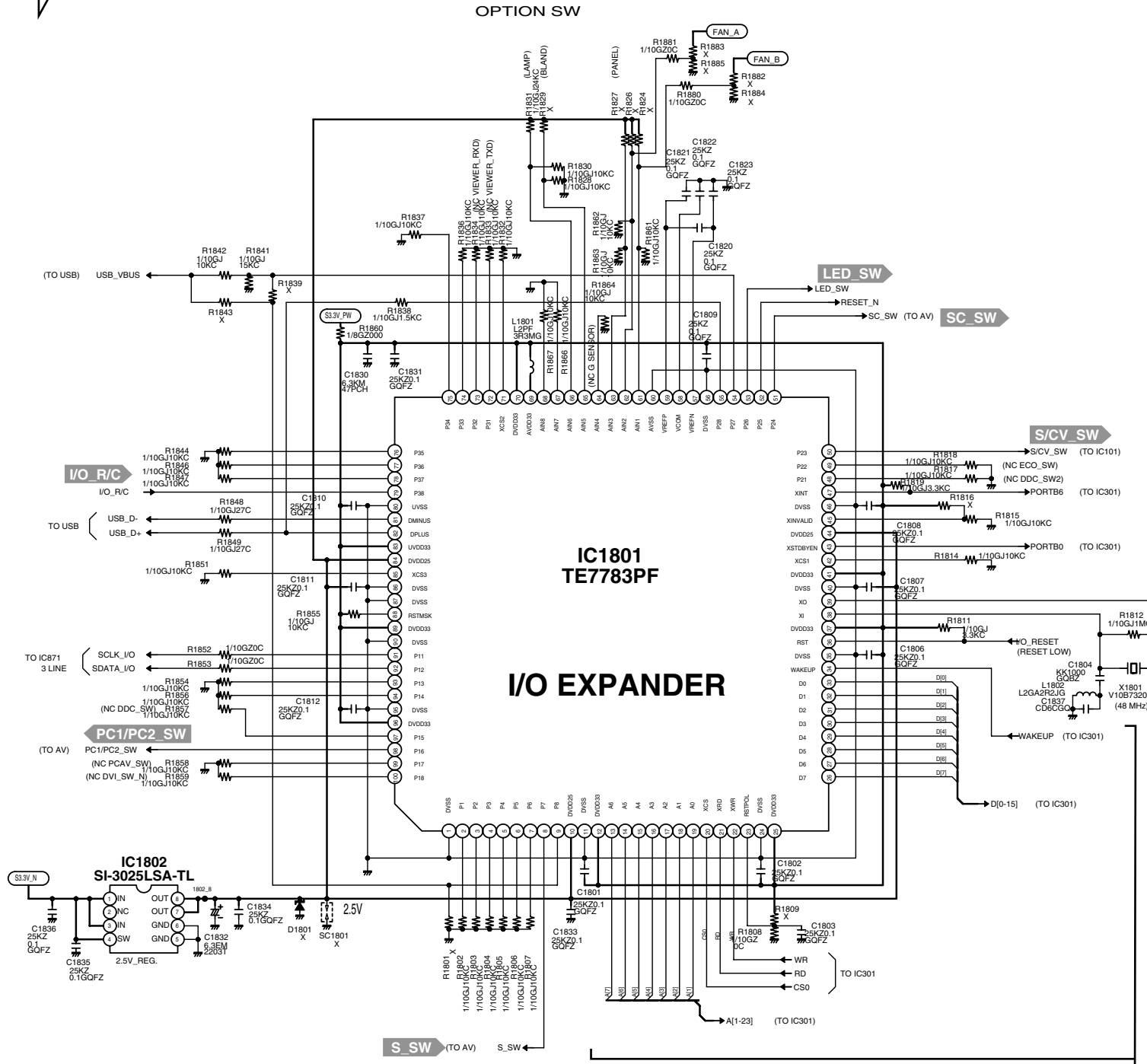
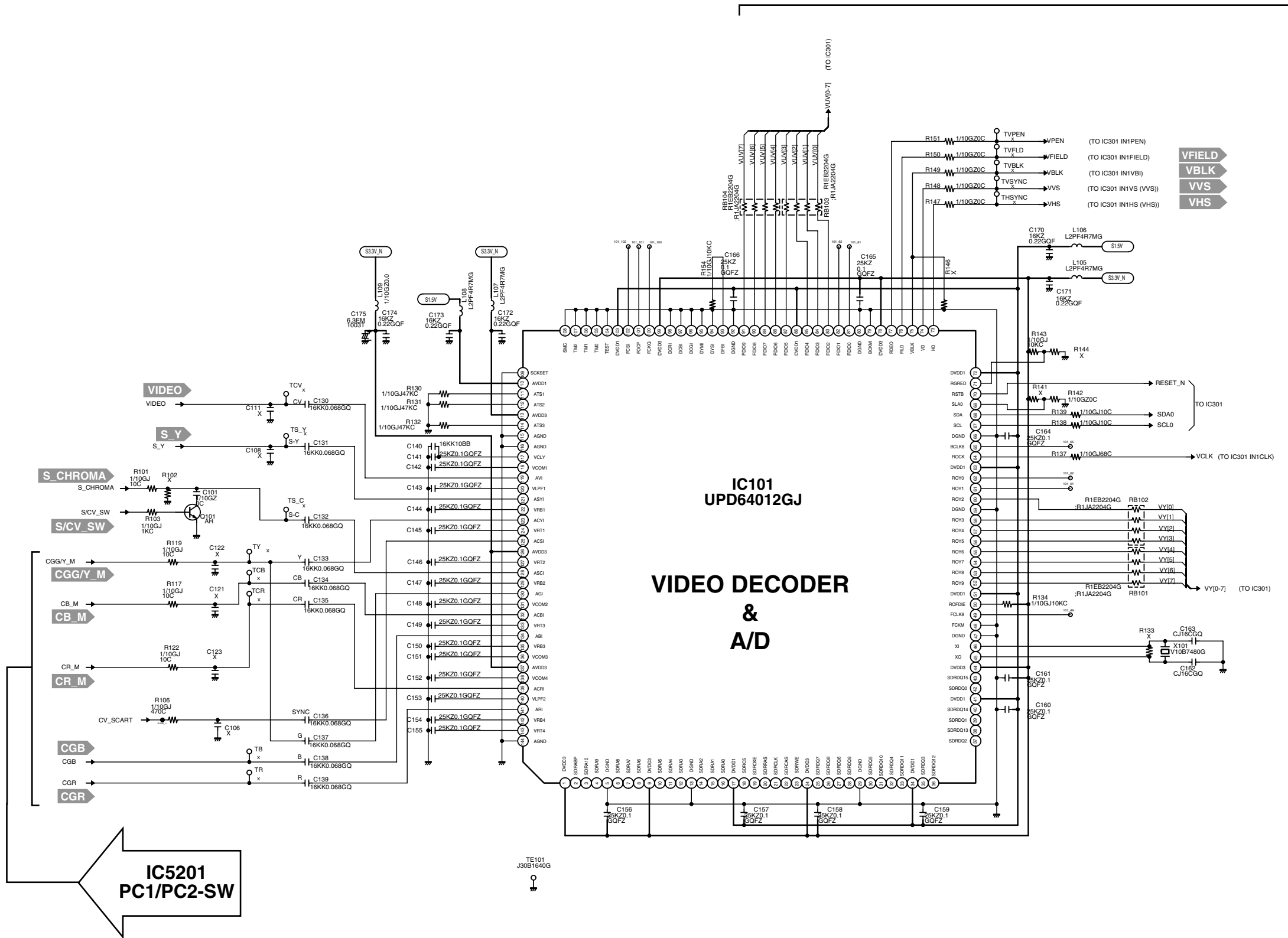
V</

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IC301
SCAN
CONVERTER
&
SYSTEM
CONTROL

IC301
SCAN
CONVERTER
&
SYSTEM
CONTROL



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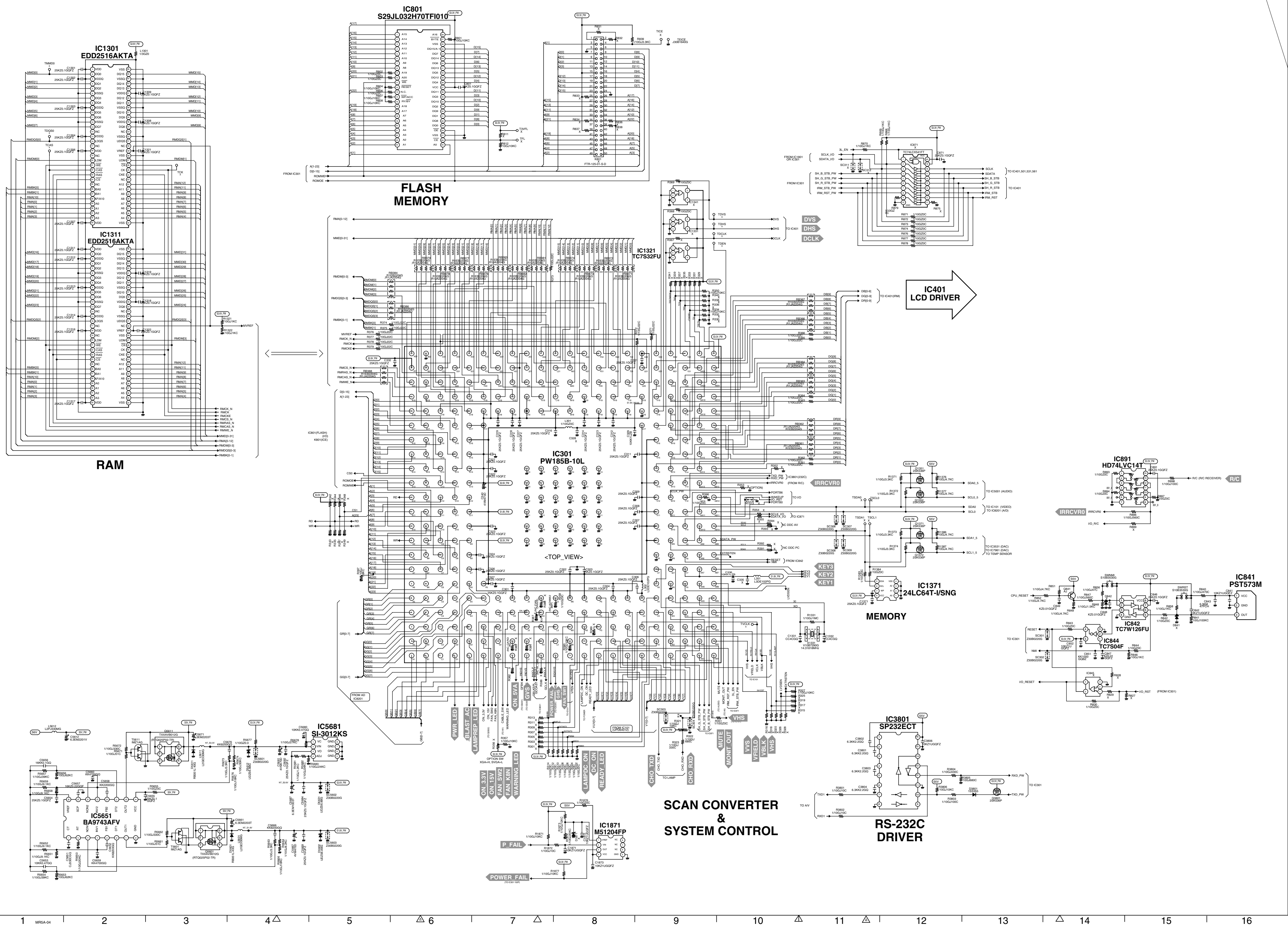
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K
L

B-PANEL

G-PANEL

R-PANEL

IC301
SCAN CONVERTER
&
SYSTEM CONTROL

IC501
L3E06100D0B
B-D/A
S&H

IC531
L3E06100D0B
G-D/A
S&H

IC561
L3E06100D0B
R-D/A
S&H

IC401
L3E07072K0A

IC3501
LA6358NM

D/A

IC3531
M62398FP

FAN CON A

FAN CON B

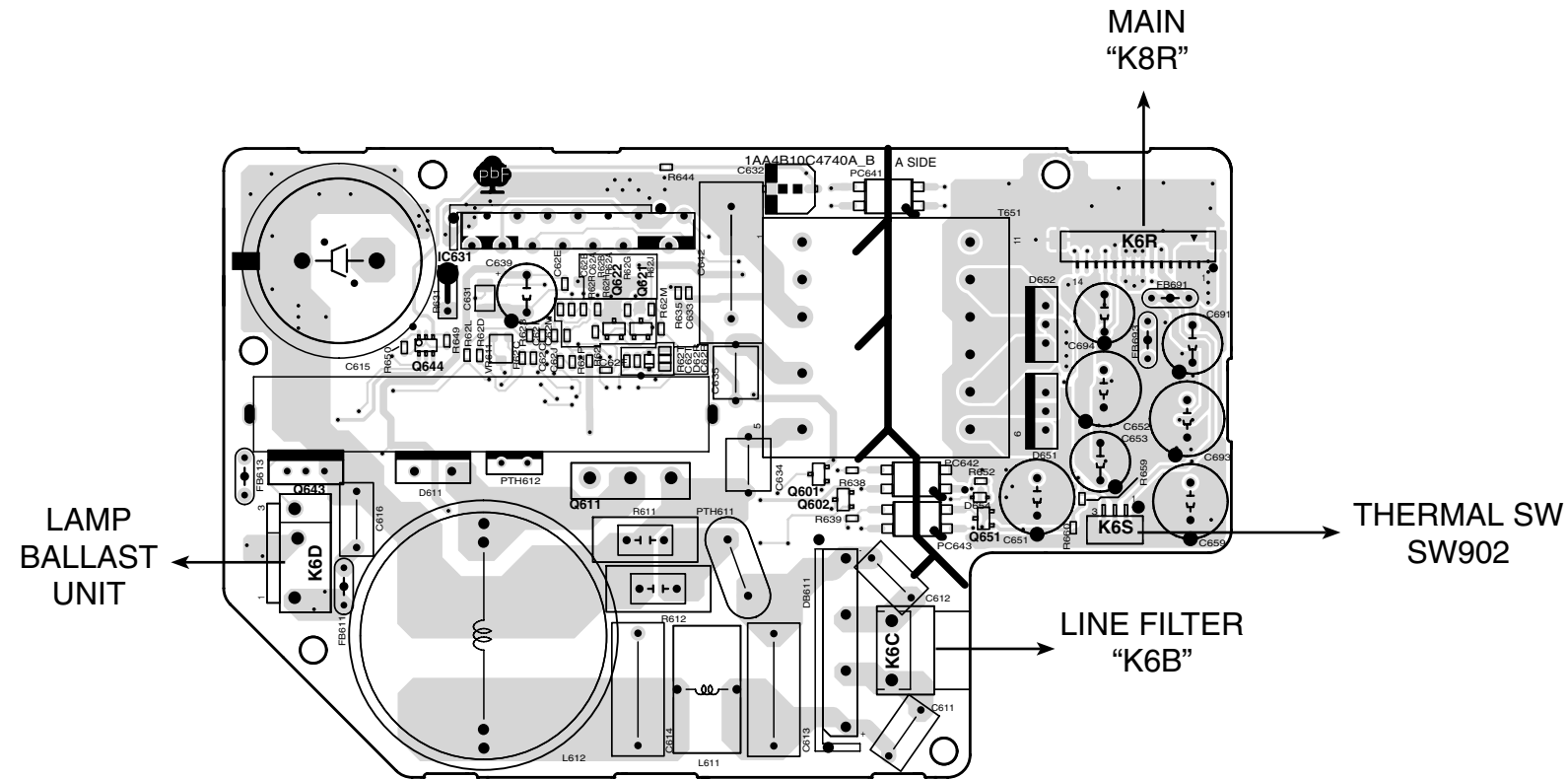
IC3541
XC6202P502M

LCD DRIVER
GAMMA
CORRECTION

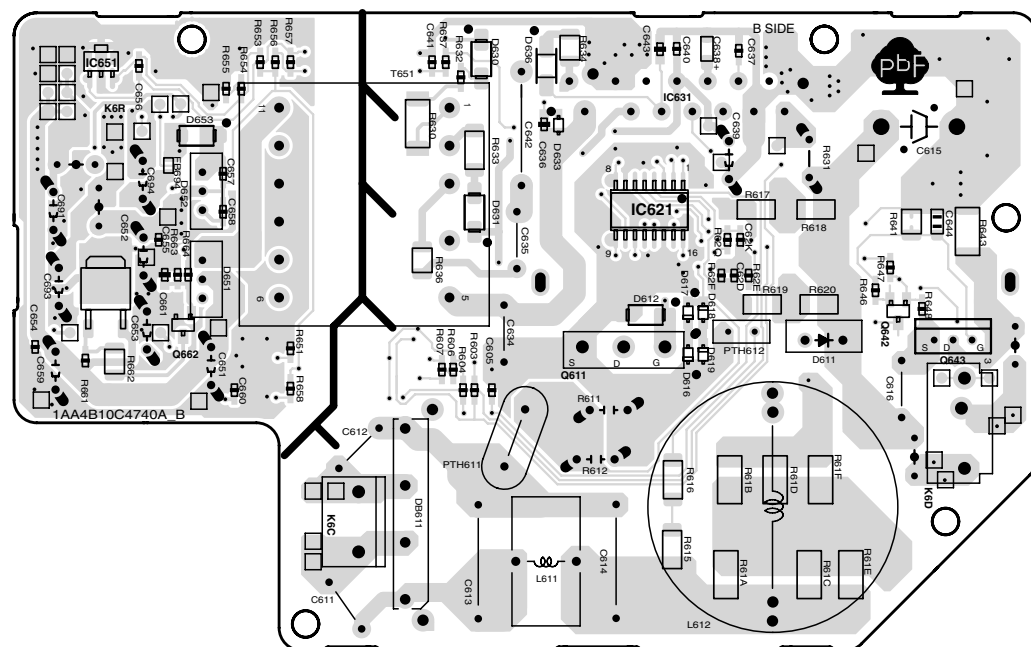


Printed Wiring Board Diagrams

POWER (SIDE:A)



POWER (SIDE:B)

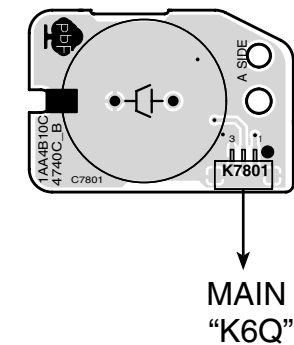


⚠ CAUTION

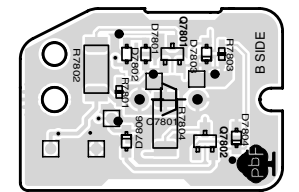
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing

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

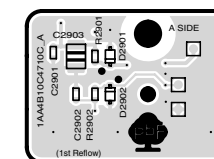
SUB-POWER (SIDE:A)



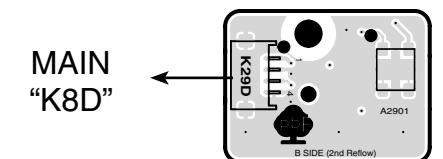
SUB-POWER (SIDE:B)

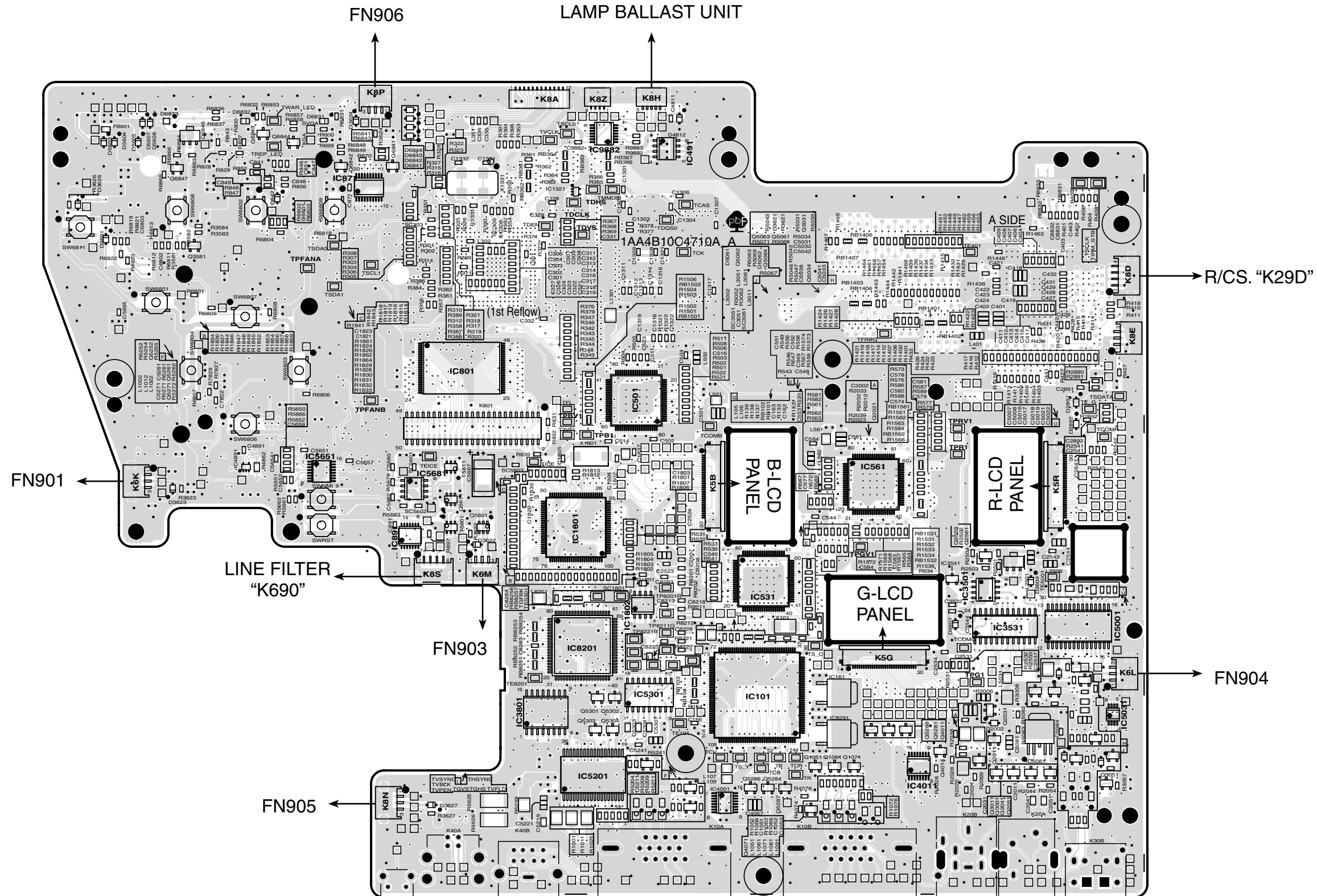


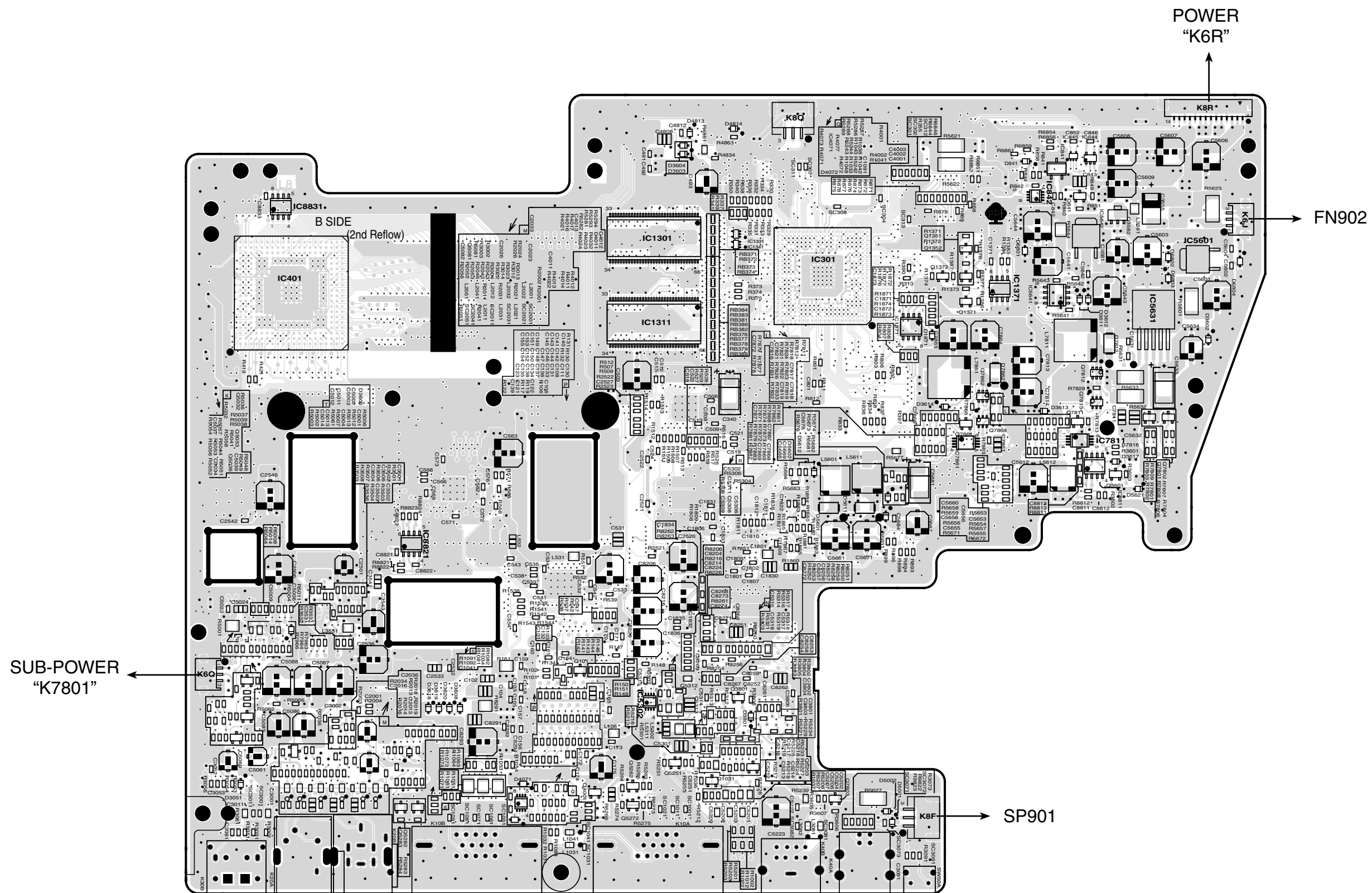
R/CS (SIDE:A)



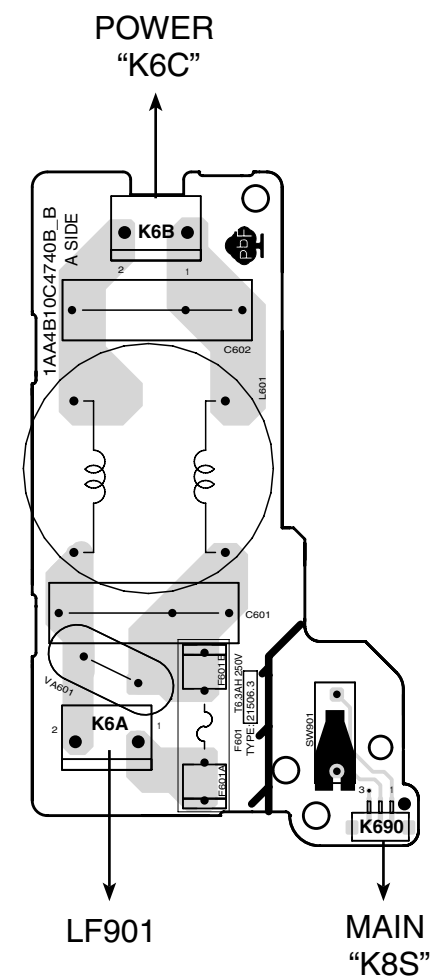
R/CS. (SIDE:B)







LINE FILTER (SIDE:A)



LINE FILTER (SIDE:B)

