

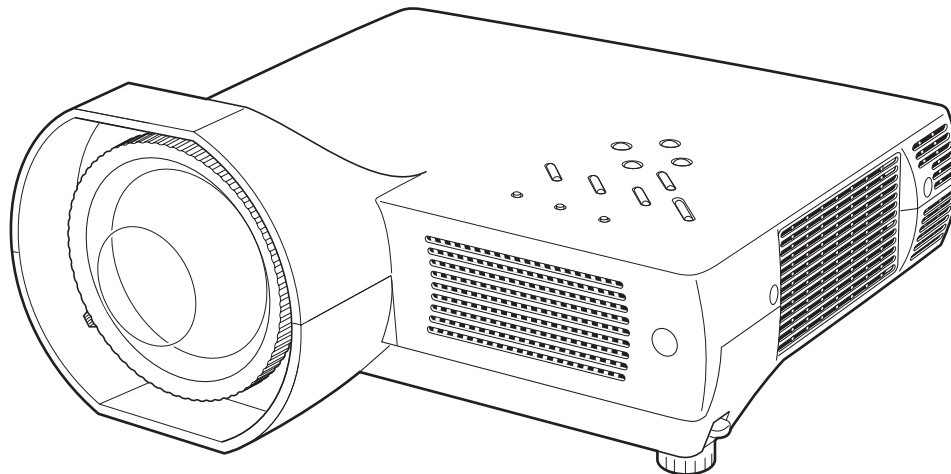
FILE NO.

SERVICE MANUAL Multimedia Projector

Model No. PLC-XL45

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

Original Version



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.

Chassis No. KZ6-XL4500

PRODUCT CODE

1 122 373 00 (KZ6AC)
1 122 374 00 (LZ6AC)
1 122 374 02 (LZ6CC)

REFERENCE NO. SM5110900-00


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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) | 10.50" x 4.86" x 9.58" (320mm x 148mm x 292mm) (Not including adjustable feet) |
| Net Weight | 7.1 lbs (3.2kgs) |
| Feet Adjustment | 0° to 10.0° |

Panel Resolution

| | |
|------------------|---------------------------------------|
| LCD Panel System | 0.6" TFT Active Matrix type, 3 panels |
| Panel Resolution | 1,024 x 768 dots |
| Number of Pixels | 2,359,296 (1,024 x 768 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 KHz~ 100 KHz, V-sync. 50 ~ 100 Hz |

Optical Information

| | |
|----------------------------------|---|
| Projection Image Size (Diagonal) | Adjustable from 60" to 80" |
| Projection Lens | F 1.85 lens with f 8.1 mm ~ 27 mm with manual focus |
| Throw Distance | 2.49' - 3.38' (0.76m - 1.03m) |
| 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 | Anlaog RGB (Mini D-sub 15 pin) Terminal X 1 |
| Computer Input 2 / Monitor Output Terminal | Anlaog 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) |

Antitheft Alarm

| | |
|---------|----------------------------|
| Battery | CR2 3V LITHIUM BATTERY x 1 |
|---------|----------------------------|

- 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.

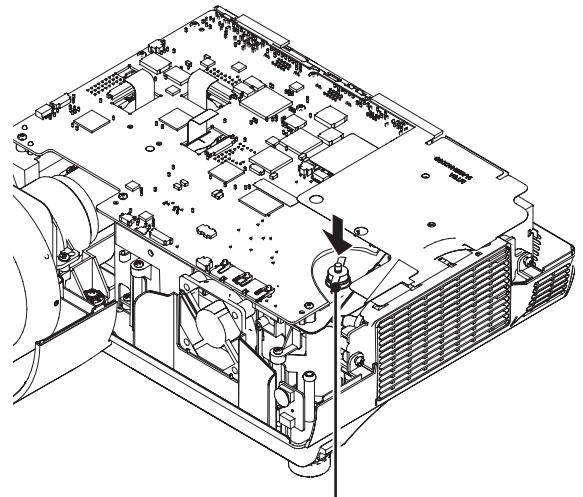
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.

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:

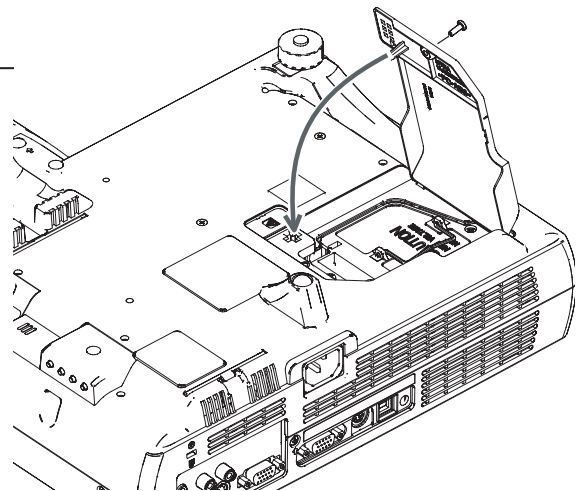
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.



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

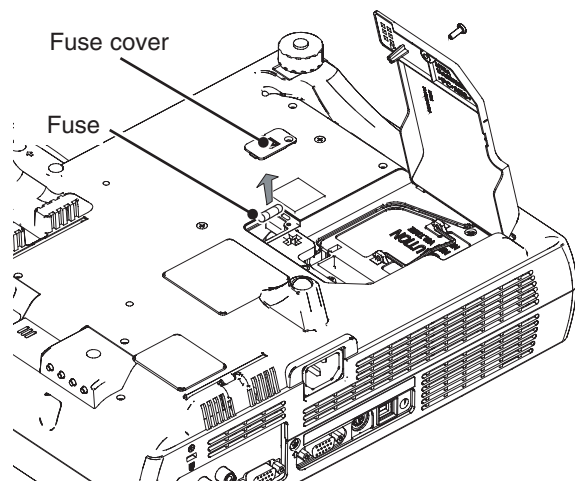
A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.

The fuse should be used with the following type;

Fuse Part No.: 323 021 7804
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:

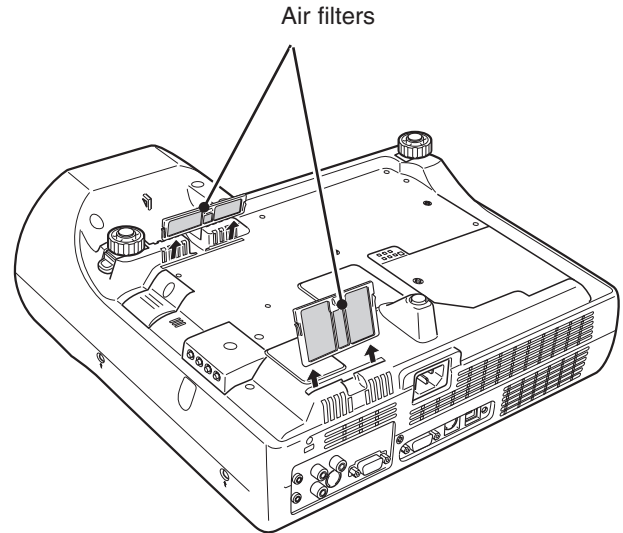
Do not operate the projector with the air filters removed. Dust may accumulate on the LCD panel and the projection mirror degrading picture quality. Do not put small parts into the air intake vents. It may result in malfunction of the projector.

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.



Security Function Notice

This projector provides security functions such as "Key lock", "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

| Function | Description |
|---------------------------|---|
| Key lock | Locks operation of the top control or the remote control. If the Key lock is enabled with top control lock, the projector can no longer be started. <i>Initial setting: Key lock function is disabled</i> |
| PIN code lock | Prevents the projector from being operated by an unauthorized person. <i>Initial code: "1234"</i> |
| Logo PIN code lock | Prevents an unauthorized person for changing the start-up logo on the screen. <i>Initial code: "4321"</i> |

Resetting procedure

- 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.
This is complete the resetting of the security function. The PIN code lock and Logo PIN code lock are reset as the initial PIN code at the factory and the Key lock function is disabled.

Please refer to the owner's manual for further information of the security functions.

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

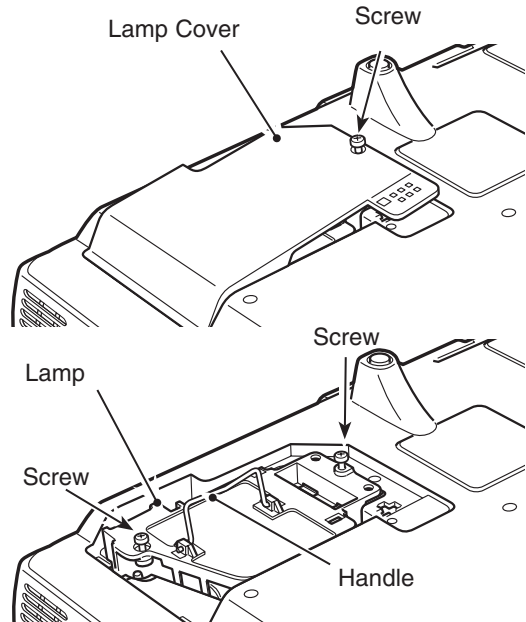
- 1 Turn off the projector and disconnect the AC cord.
- 2 Remove 1 screw with a screwdriver and remove the lamp cover.
- 3 Loosen 2 screws and pull out the lamp assembly by grasping the handle.
- 4 Replace the lamp with a new one and tighten the 2 screws back into position. Make sure that the lamp is 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-LMP106 610 332 3855



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

How to reset Lamp Replace Counter

- 1 Turn the projector on, press the **MENU** button and the On-Screen Menu will appear. Press the ◀ or ▶ **button** to move the red frame pointer to the Setting Menu icon.
- 2 Press the ▼ **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 3000 hours. This is to indicate that lamp replacement is required.

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

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

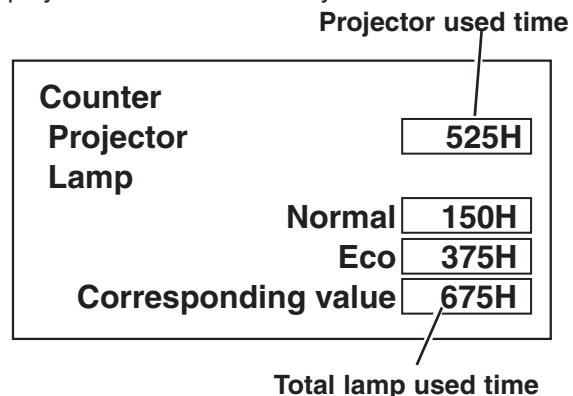
T_{eco} : used time in the Eco mode

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 **ON-OFF** button for more than 20 seconds.

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




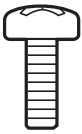
Mechanical Disassembly

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), R/C Board removal

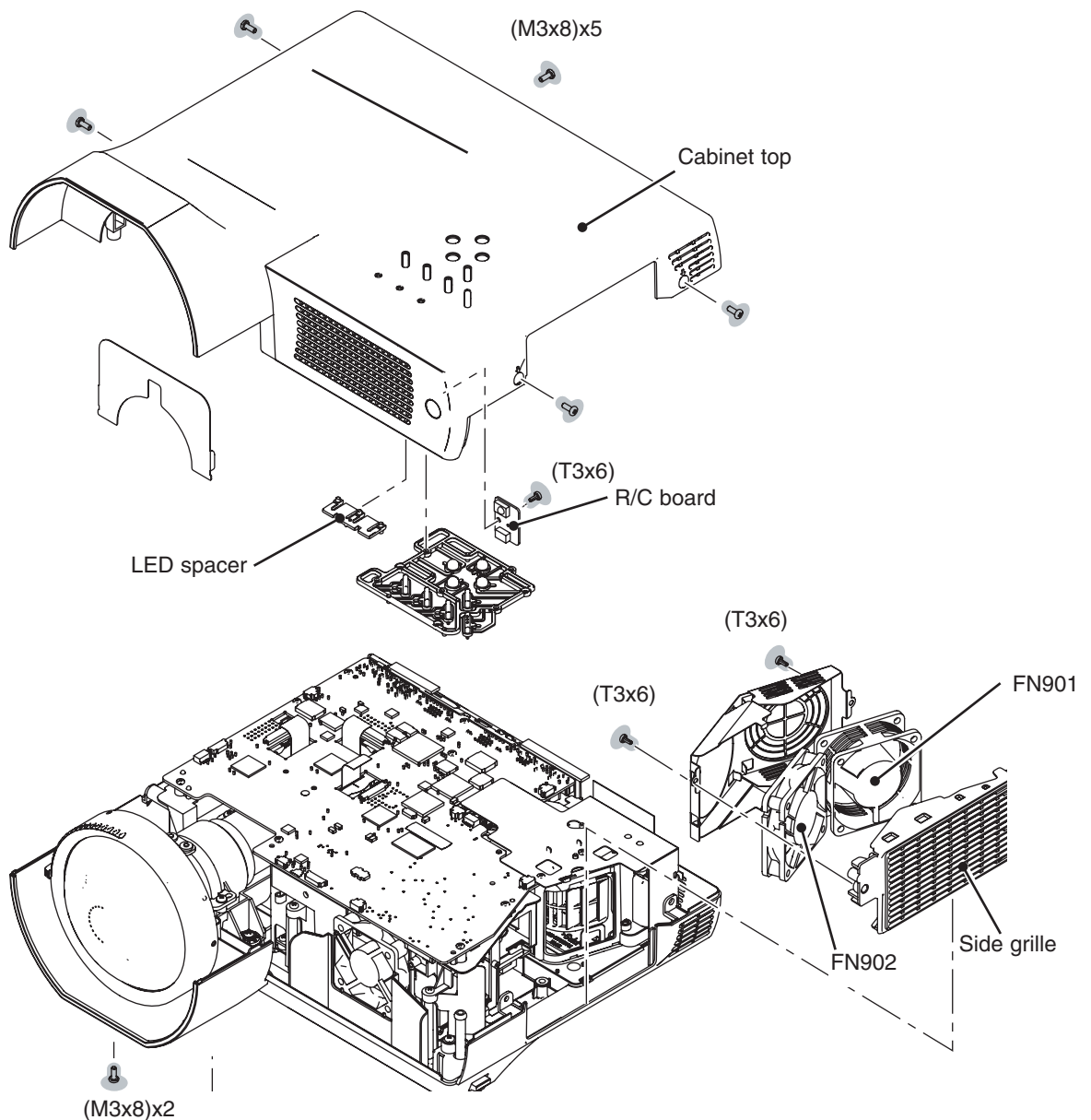


Fig.1

2 Main Board, Rear Panel, Fan(FN905), SP901 removal

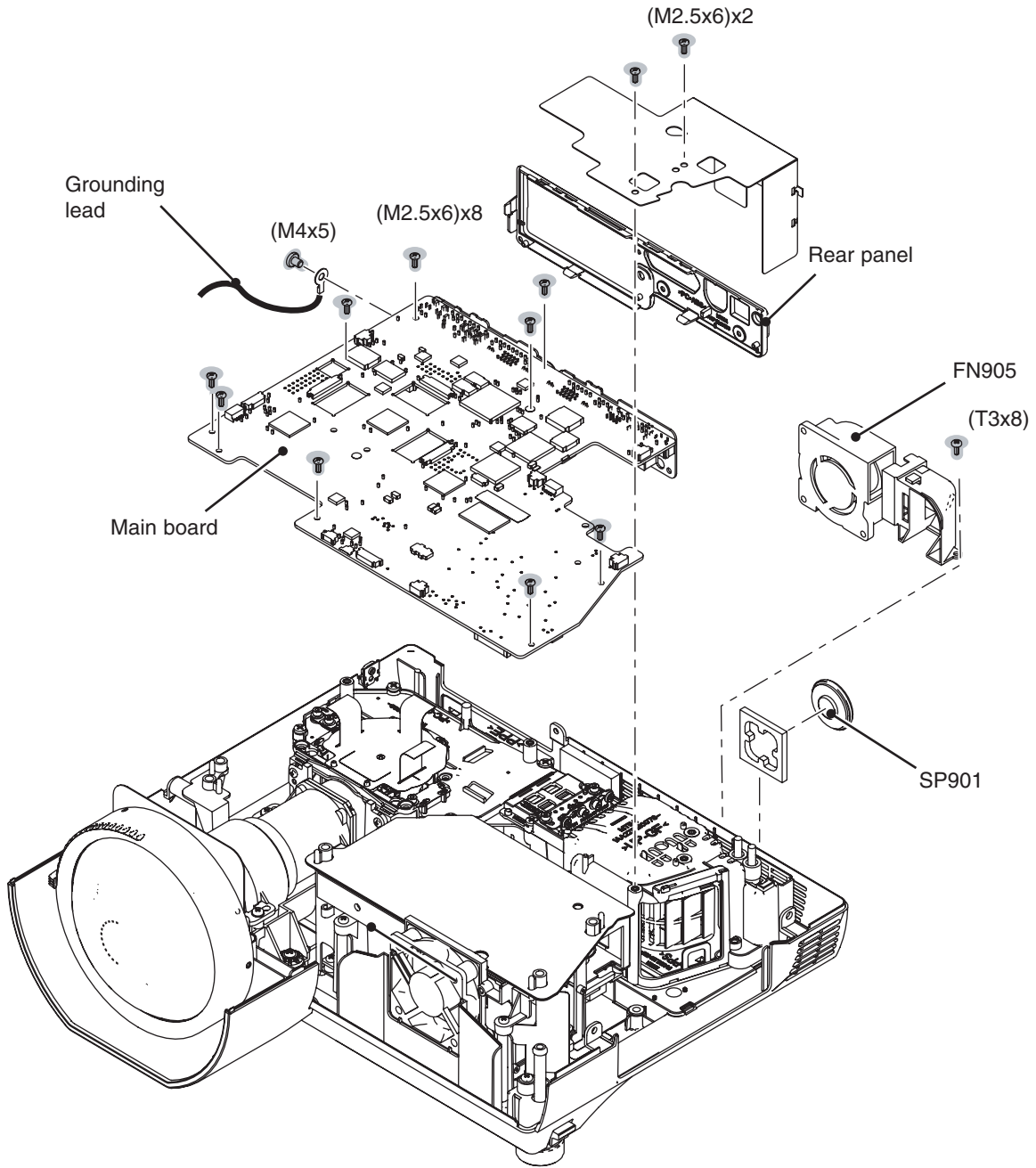


Fig.2

3 Power, Line Filte, Ballast Board, Thermal Sw(SW902), Fan(FN906) removal

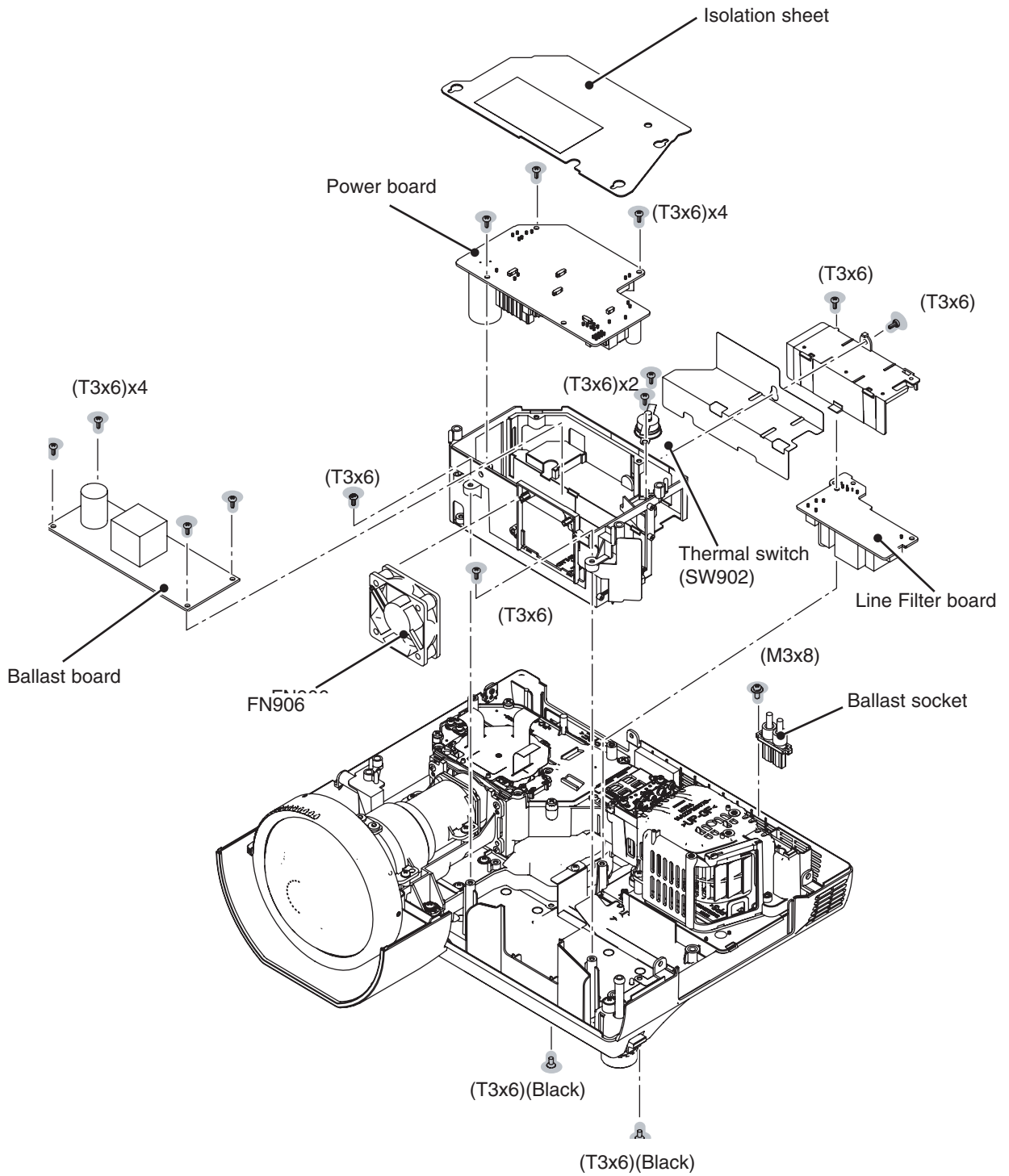


Fig.3

4 Optical Unit, Fans(FN903, FN904), Noise Filter removal

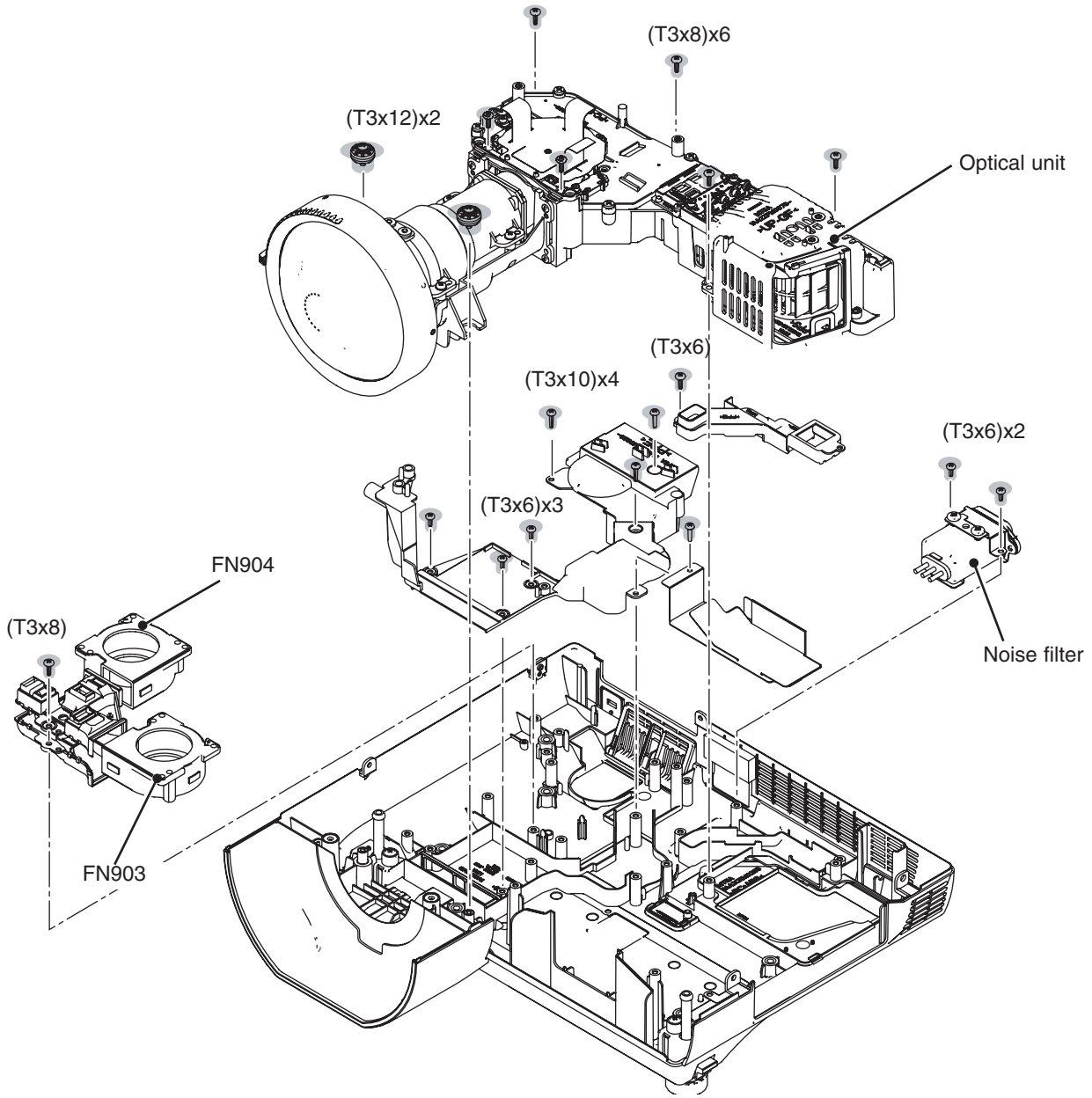


Fig.4

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

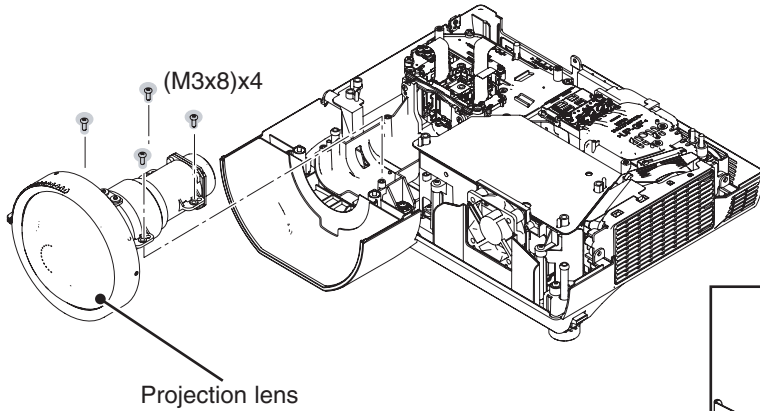
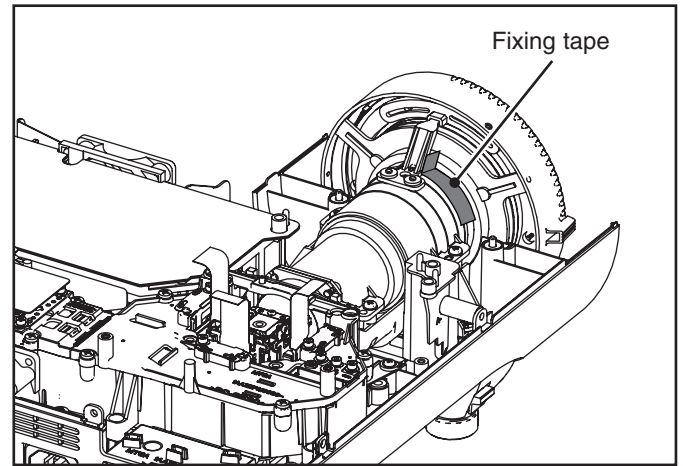


Fig.1



Note on replacing the Projection Lens

- When the Projection Lens is replaced with the new one, make sure that the fixing tape must be removed as the figuer.

2 Integrator lens-in disassembly

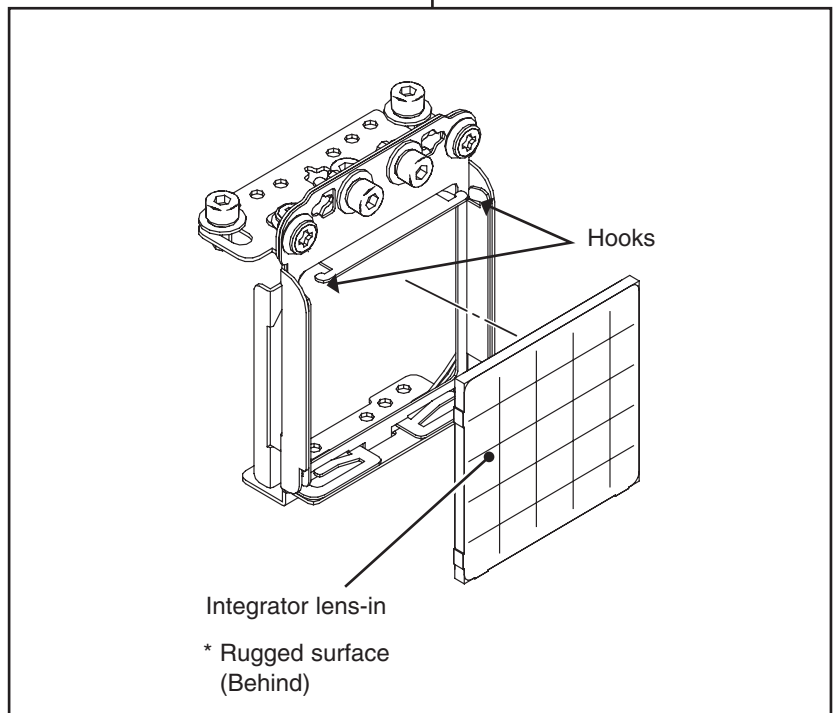
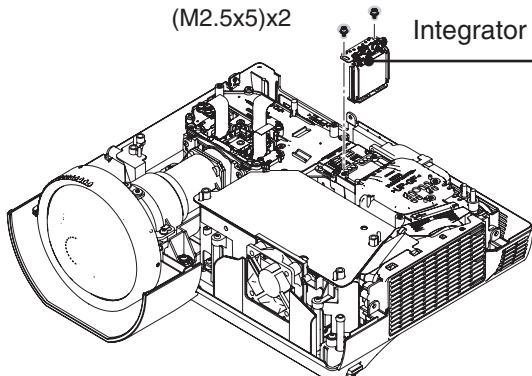
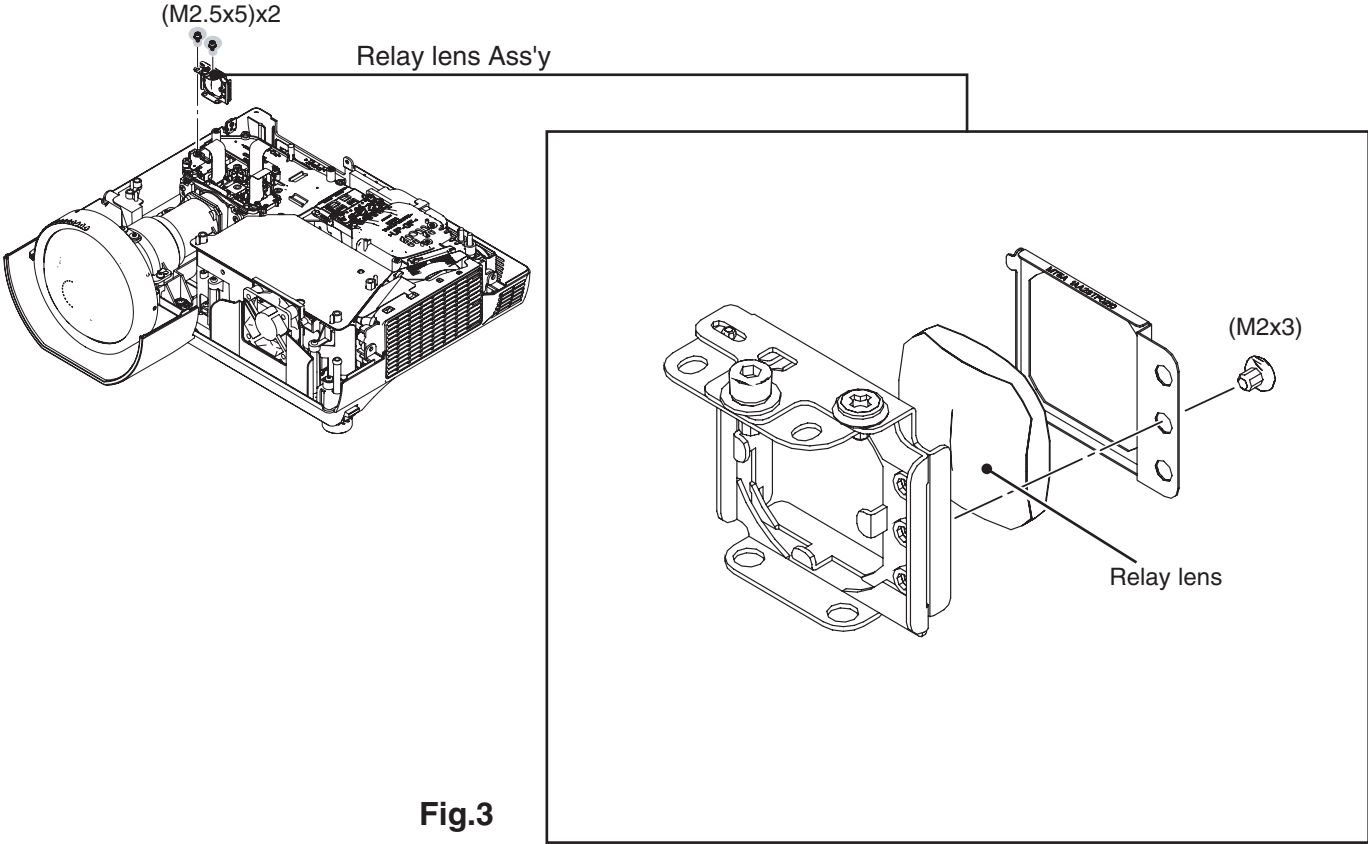
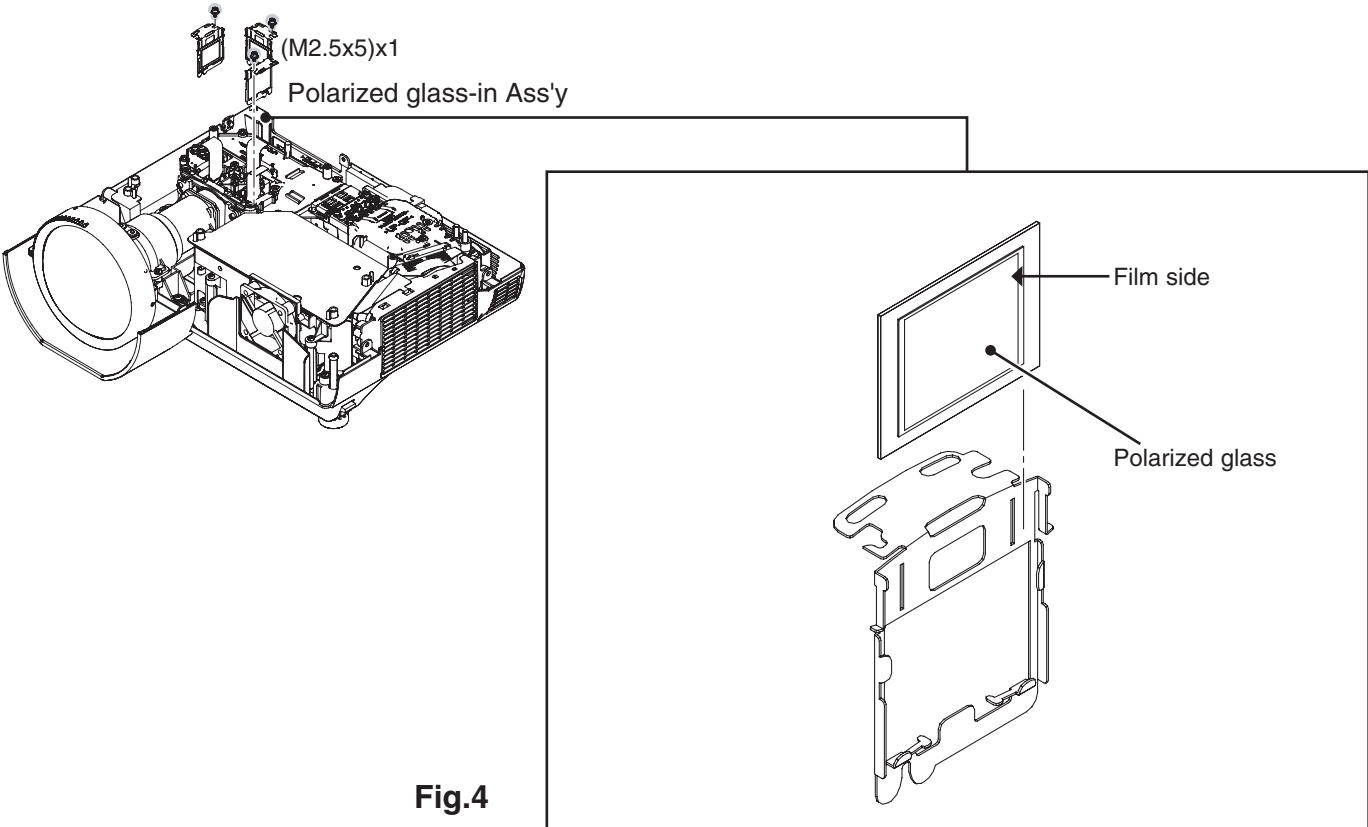


Fig.2

3 Relay lens disassembly



4 Polarized glass-in disassembly



5 LCD Panel/Prism Ass'y removal

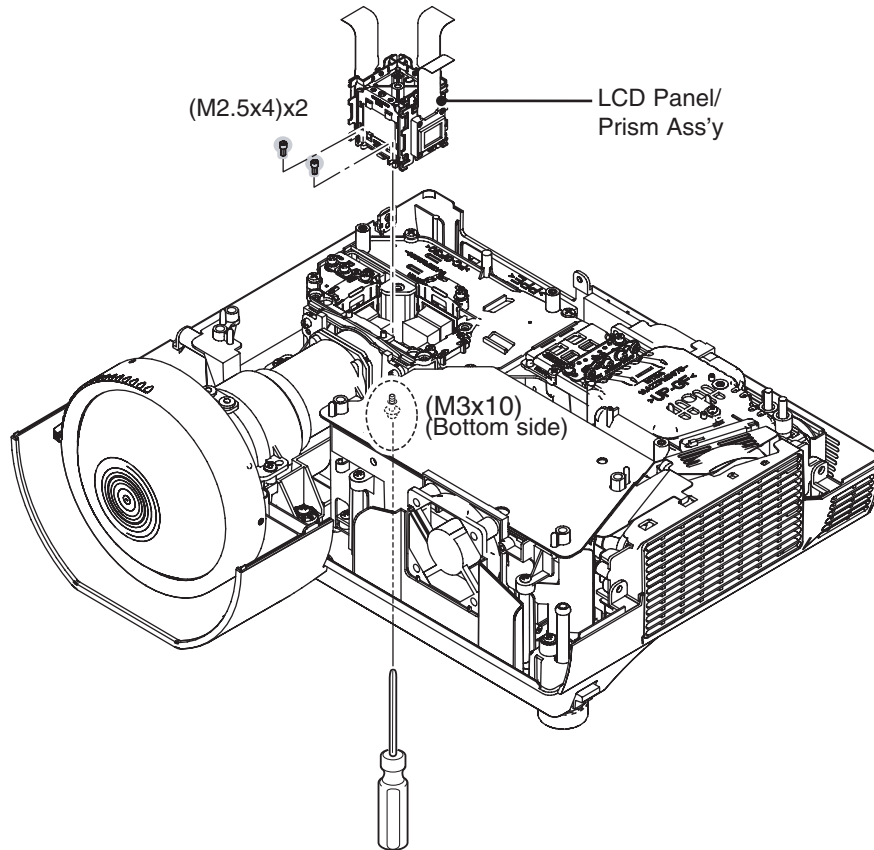


Fig.5

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

Panel Type Check

There are 2 types of LCD/Prism Ass'y for this model. Either L-Type or R-Type LCD /Prism Ass'y is used on the projector. Check which type of LCD/Prism Ass'y is used with the figure below.

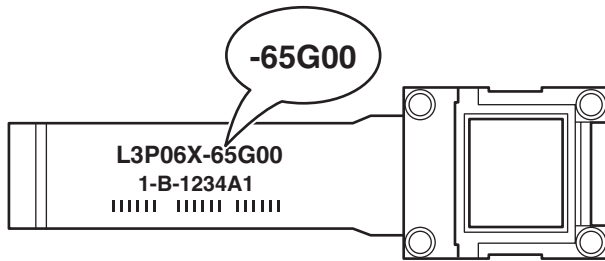
When replacing the LCD/Prism Ass'y, you need to take "Panel Type Check and Setting" on the Electrical Adjustment for the replaced LCD/Prism Ass'y.

The gamma-characteristics is different between L-Type and R-Type LCD /Prism Ass'y.

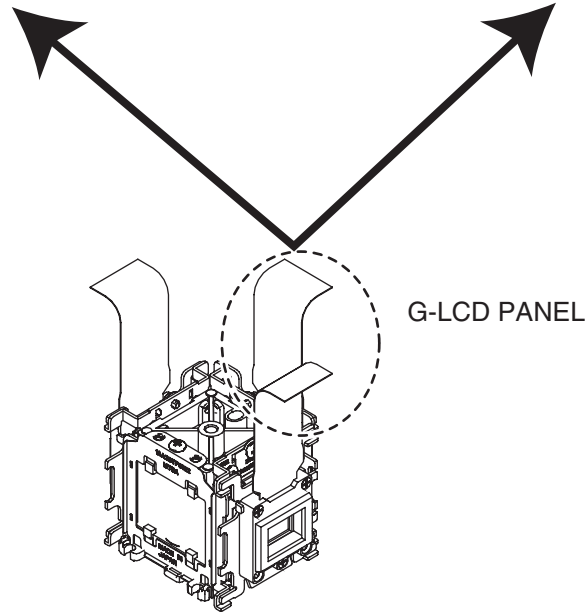
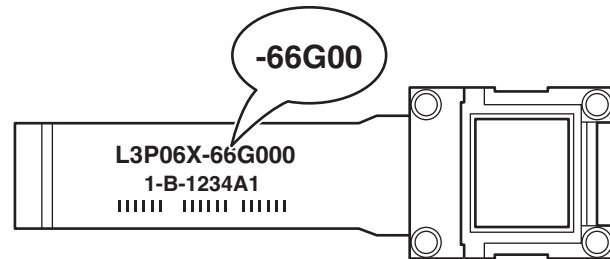
How to check the type of LCD/Prism Ass'y

Check the printed number on the flat cable of the G-LCD Panel.

L-Type LCD/Prism Ass'y



R-Type LCD/Prism Ass'y



6 Polarized glass, Pre-polarized glass removal

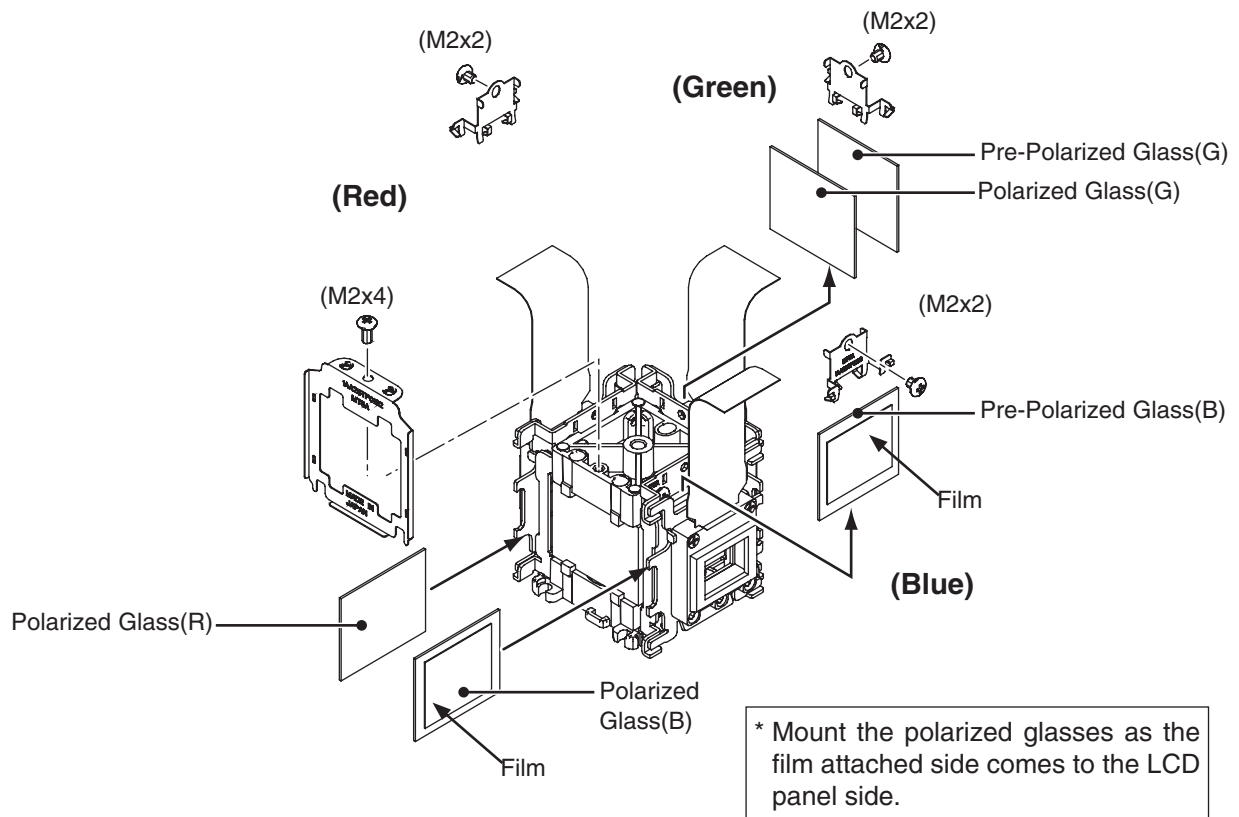


Fig.6

7 Optical Unit Top removal

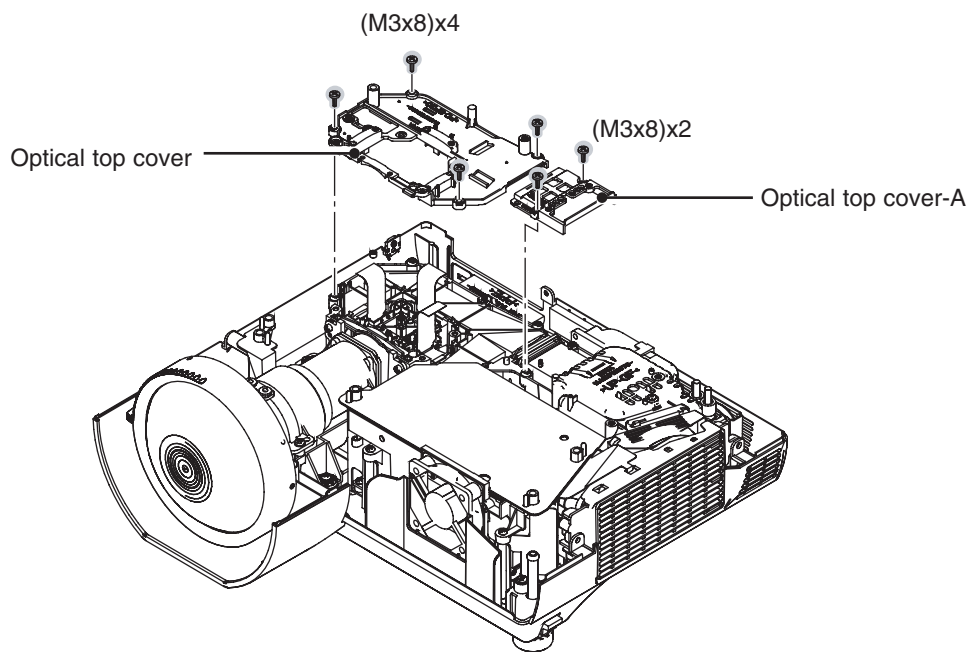
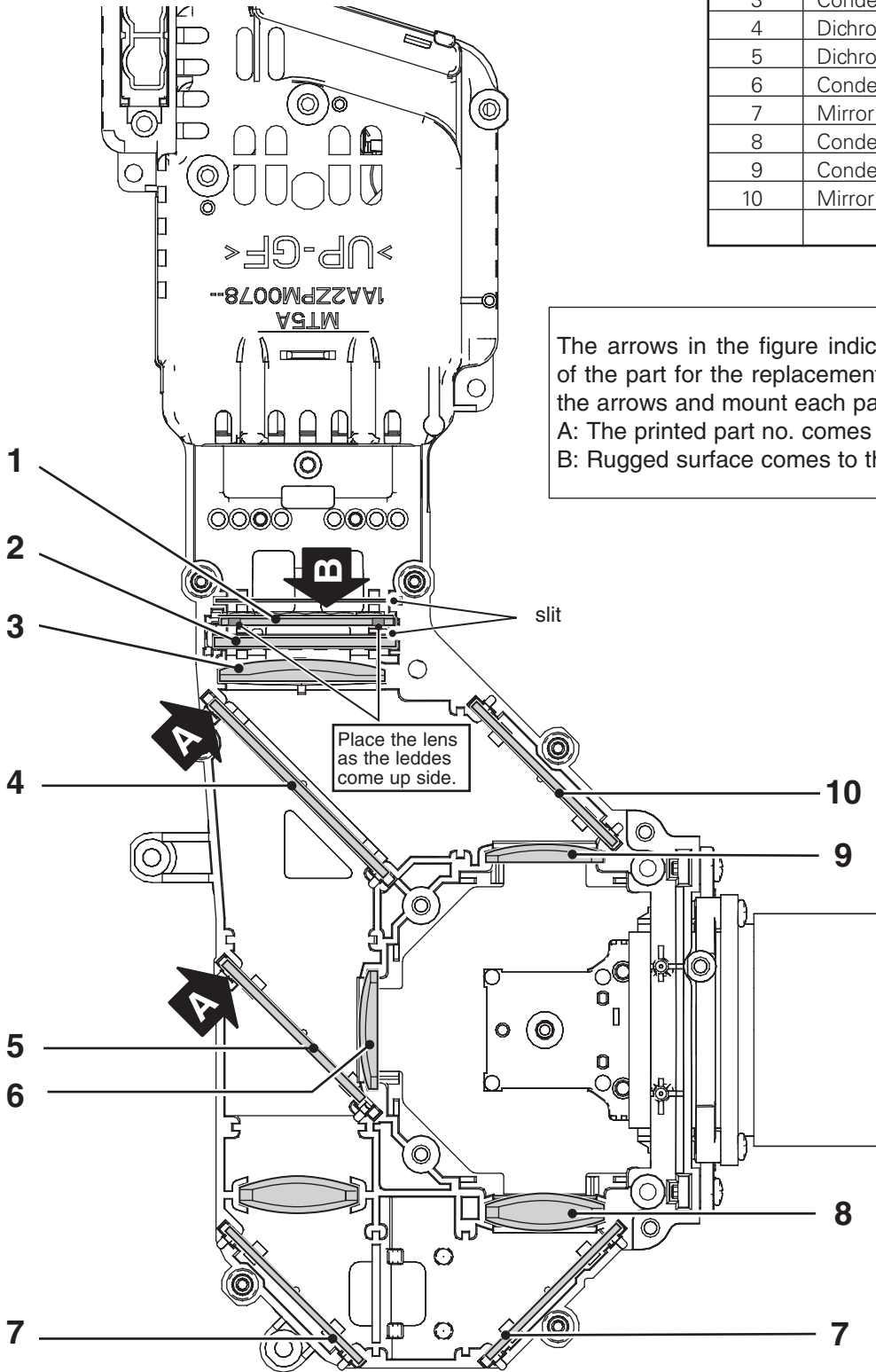


Fig.7

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

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 | Panel type check and setting | ● | | | | | | | ● |
| | Fan control adjustment | | | | | | ● | | ● |
| | Pedestal adjustment [PC] | | | | | | | | ● |
| | Gain adjustment [PC] | | | | | | | | ● |
| | Pedestal adjustment [1080i] | | | | | | | | ● |
| | Gain adjustment [1080i] | | | | | | | | ● |
| | Gain adjustment [Video] | | | | | | | | ● |
| | 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 SERVICING

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.

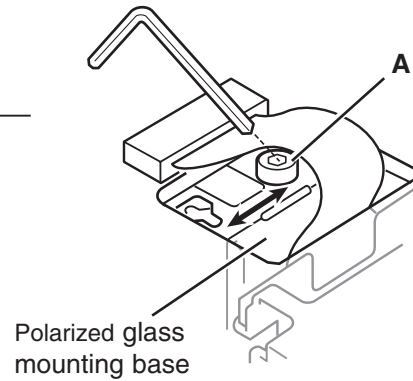


Fig.1-1

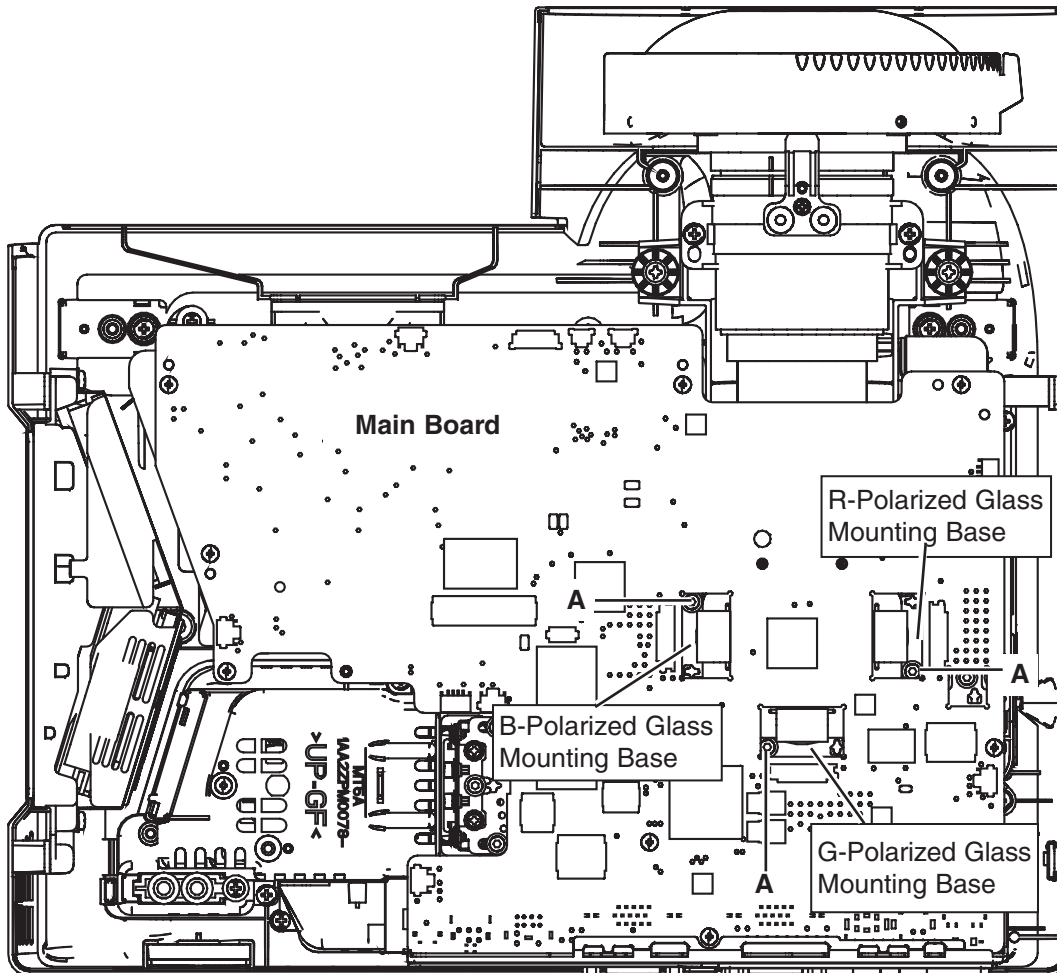


Fig.1-2

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 1 screw **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.

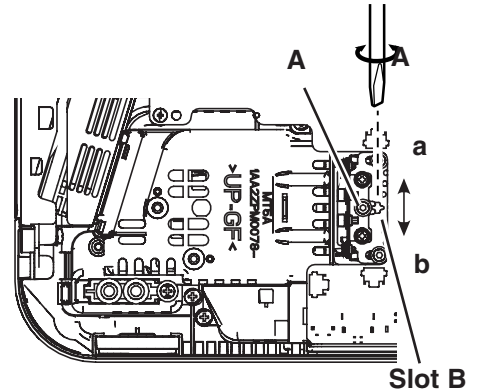
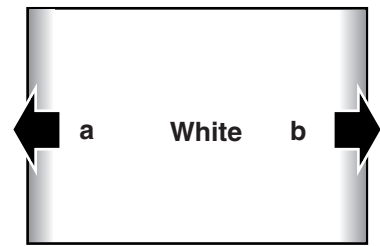
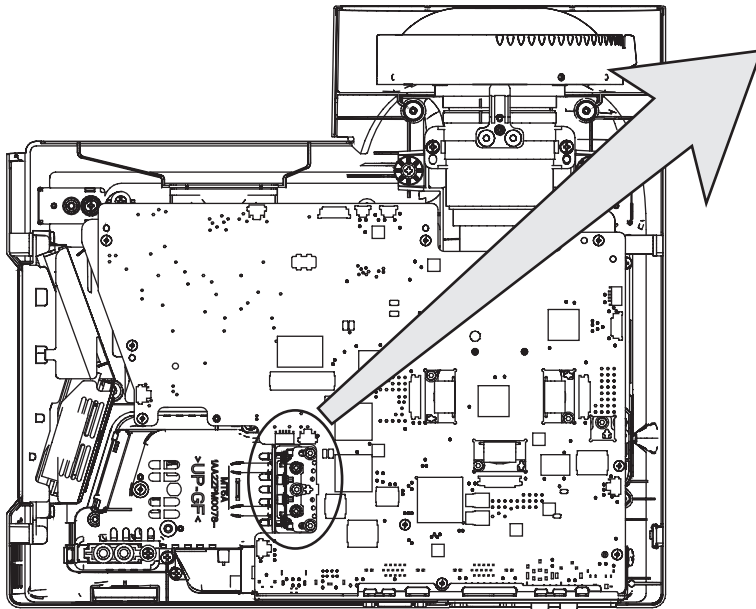


Fig.2-1
Moving of slot B

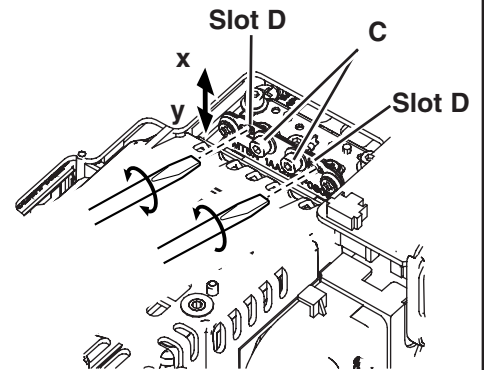
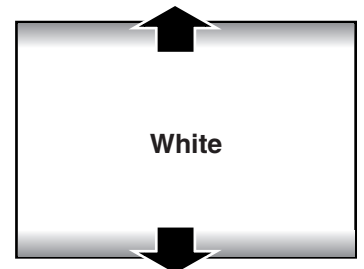


Fig.2-2
Moving of Slot D

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.

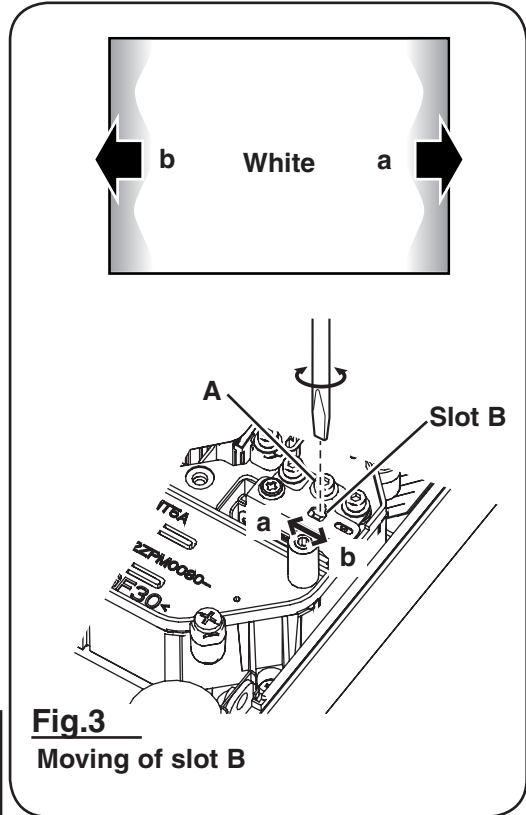
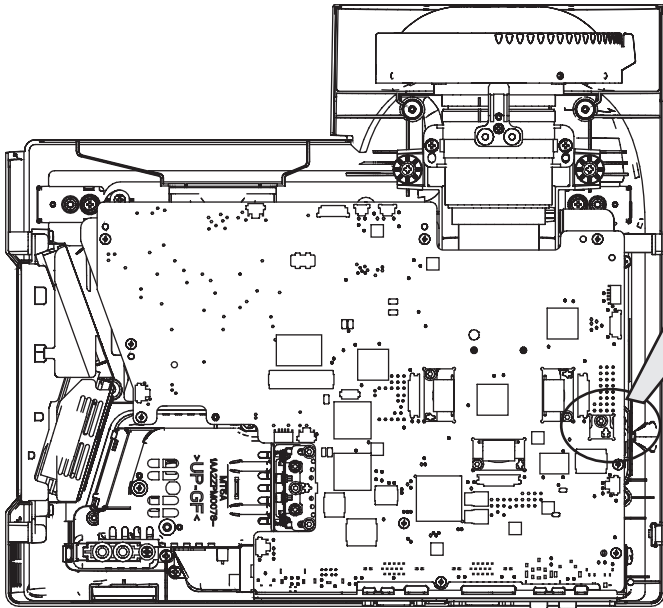


Fig.3
Moving of slot B

Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

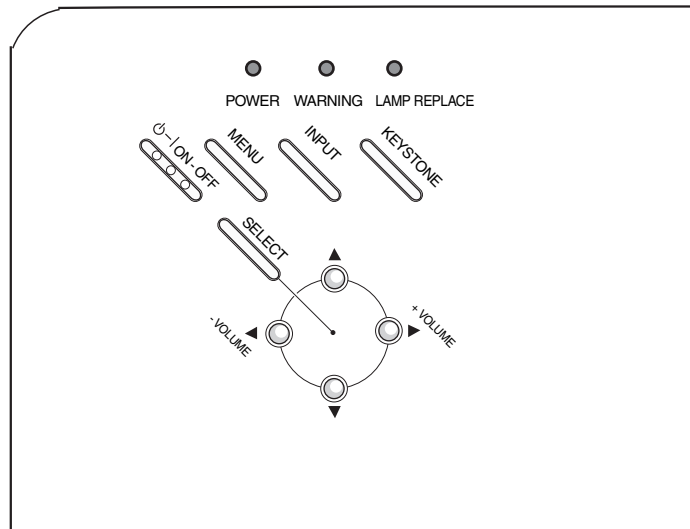
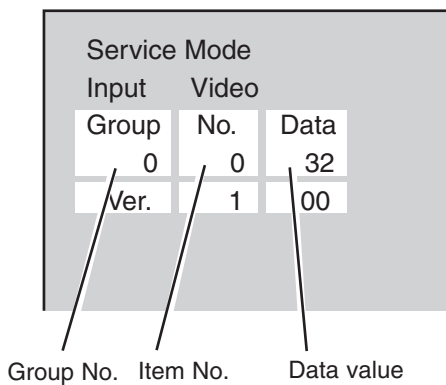
To enter the “Service Mode”, press and hold the **MENU** and **INPUT** buttons on the projector at the same time for more than 3 seconds. The service menu appears on the screen as follows.

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.



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.

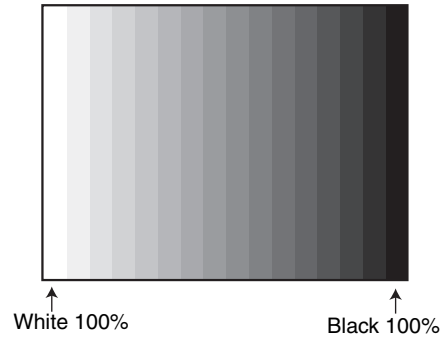
Circuit Adjustments

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.

[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.

16 steps gray scale pattern



Note:

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

Output Voltage adjustment

After replacing the Power Board 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 Panel Type Check and Setting

1. Enter the service mode.
2. Panel Type Check
 - Select group no. "290", item no. "0". Check the data value as follows;
 - Data value: 0 For L-Type of LCD Panel
 - Data value: 20 For R-Type of LCD panel
3. Panel Type Setting

Select group no. "290", item no. "1" and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

* Refer to the item "LCD Panel/Prism Ass'y removal" for the panel type check.

Note:

Be careful to take this adjustment. The value of gamma adjustment data will be reset and cannot be restored if you change the mode of LCD panel type.

2 Fan Control adjustment

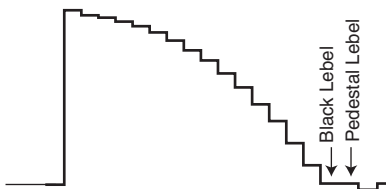
1. Enter the service mode.
2. Connect a digital voltmeter to test point "TPFANA" (+) and chassis ground (-). Select group no. "111", item no. "94" and change data value to adjust voltage to be **5.2 ±0.1V**.
3. Connect a digital voltmeter to test point "TPFANB" (+) and chassis ground (-). Select item no. "96" and change data value to adjust voltage to be **6.3 ±0.1V**.



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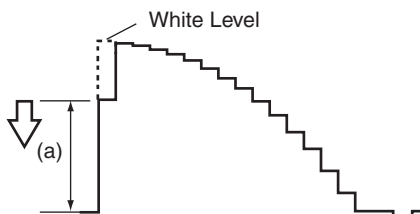
3 Pedestal adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) 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 "TP_R1" (+) 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 "TP_B1" (+) 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.



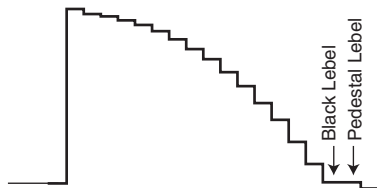
4 Gain adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) 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 "TP_R1" (+) 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 "TP_B1" (+) and chassis ground (-).
8. Select item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.



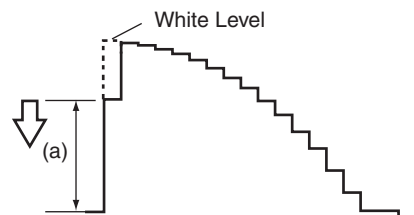
5 Pedestal adjustment [1080i]

1. Receive the 16-step grey scale component signal with **Computer1 [Component1080i]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) 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 "TP_R1" (+) 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 "TP_B1" (+) 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.



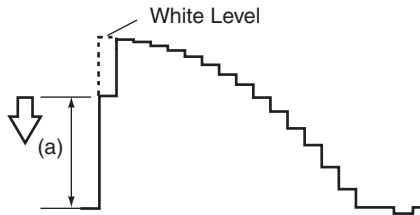
6 Gain adjustment [1080i]

1. Receive the 16-step grey scale component signal with **Computer1 [Component1080i]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "103", item no. "0" and adjust the amplitude "a" to be minimum by changing the Data value.



7 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 "TP_G1" (+) and chassis ground (-).
4. Select group no. "103", item no. "0" and adjust the amplitude "a" to be minimum by changing the Data value.

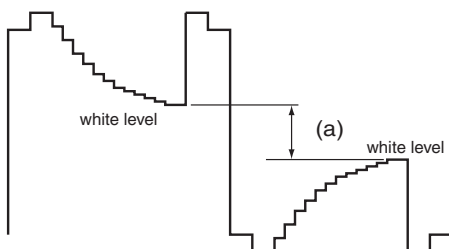


8 Common Center adjustment

1. Receive the 50%-Whole Gray computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Select group no. "9", item no. "92" and change data value to "2" to reduce the panel frequency.
4. Project only green light component to the screen.
5. Select group no. "10", item no. "1" and change data value to obtain the minimum flicker on the screen.
6. Project only red light component to the screen.
7. Select item no. "0" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no. "2" and change data value to obtain the minimum flicker on the screen.
10. Select group no. "9", item no. "92" and change data value to "0" to reset the panel frequency.

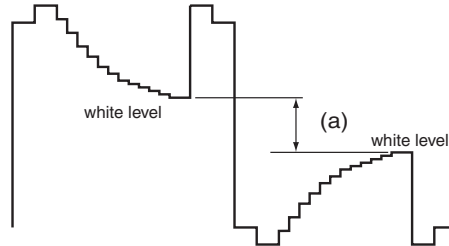
9 50% White adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "9", item no. "7" and change data value to adjust amplitude "a" to be $1.6 \pm 0.1V$.



10 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 "TP_G1" (+) and chassis ground (-).
4. Select group no. "9", item no. "7" and change data value to adjust amplitude "a" to be $1.6 \pm 0.1V$.



11 White Balance adjustment [PC]

1. Receive the 16-step gray scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode, select group no. "9" item no. "6" (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.

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. "6" (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

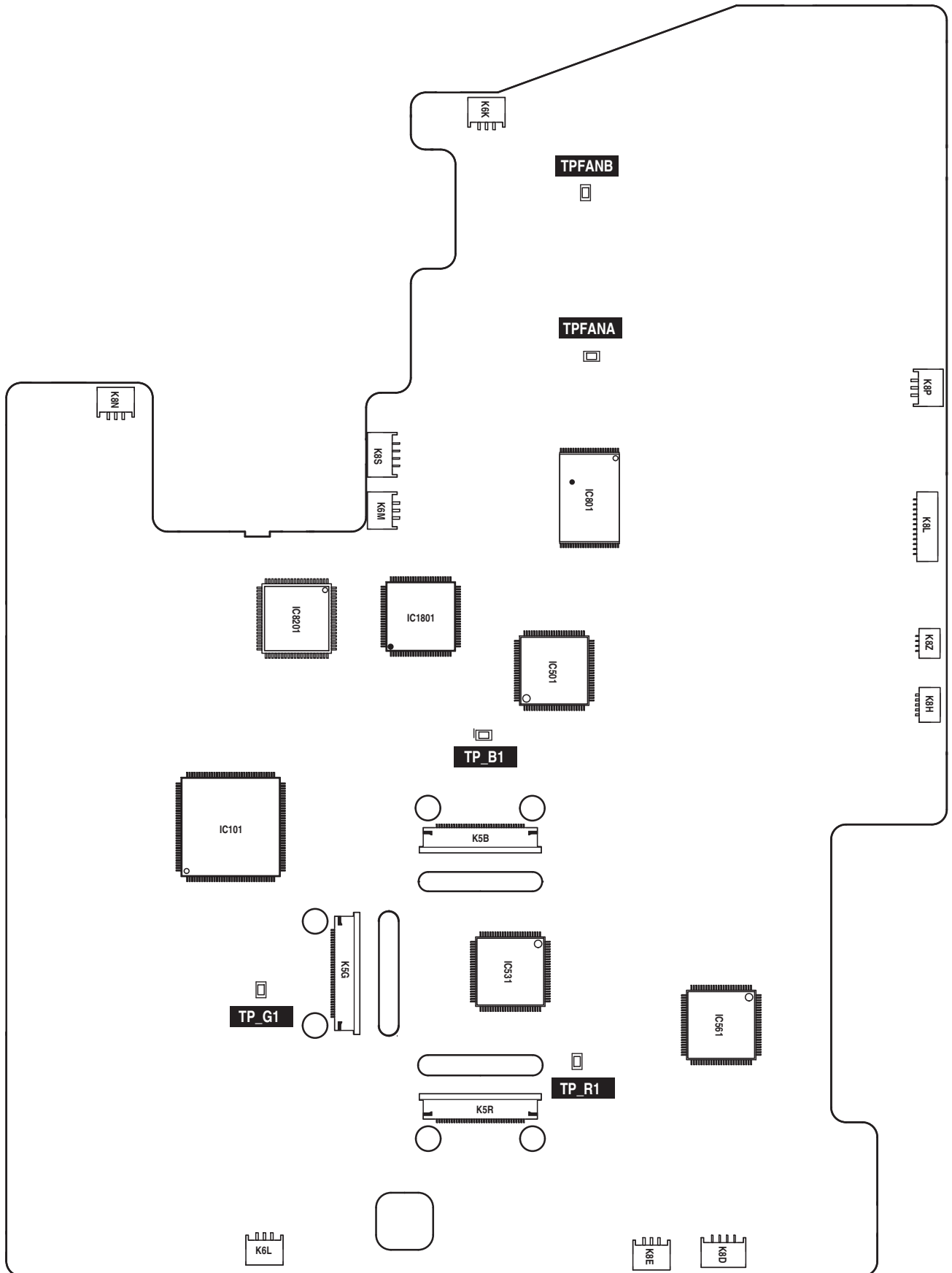
If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately.

The software can be ordered as follows;

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

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

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

| Item No. | NAME | Device | XGA | | | | | Range | Description | |
|----------|--------------------------|----------|-----|-----------|------|------|-------|--|-------------|-----|
| | | | PC | Component | | | Video | | | |
| | | | | HDTV | 480p | 480i | NTSC | | | PAL |
| Group 0 | AD9883 | | | | | | | | | |
| 0 | ADC G-OFFSET | AD9883 | 55 | 55 | | | | PC/AV 30KHz/AV 15KHz * Pedestal Adj.(PC),(1080i) | | |
| 1 | ADC R-OFFSET | AD9883 | 55 | 55 | | | | PC/AV 30KHz/AV 15KHz * Pedestal Adj.(PC),(1080i) | | |
| 2 | ADC B-OFFSET | AD9883 | 55 | 55 | | | | PC/AV 30KHz/AV 15KHz * Pedestal Adj.(PC),(1080i) | | |
| 3 | ADC G-GAIN | AD9883 | 70 | 128 | | | | PC/AV 30KHz/AV 15KHz * Gain Adj.(PC),(1080i) | | |
| 4 | ADC R-GAIN | AD9883 | 70 | 128 | | | | PC/AV 30KHz/AV 15KHz * Gain Adj.(PC),(1080i) | | |
| 5 | ADC B-GAIN | AD9883 | 70 | 128 | | | | PC/AV 30KHz/AV 15KHz * Gain Adj.(PC),(1080i) | | |
| 6 | | | | | | | | | | |
| 10 | VCO 0 Thresh MAX | AD9883 | 32 | 32 | | 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| 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 | | |
| 70 | FREQ OFFSET | AD9882 | | | 0 | | | Offset at DCLK more than 82MHz for AD9882 | | |
| Group 1 | UPD64012 | | | | | | | | | |
| 7 | IMODE | uPD64012 | | | 0 | | | | | |
| 8 | RGB_MIX | uPD64012 | | | 2 | | | | | |
| 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 | | | | | |
| 20 | DETOUT | uPD64012 | | | 3 | | | | | |
| 21 | DETTIM | uPD64012 | | | 3 | | | | | |
| 22 | CLKVA | uPD64012 | | | 1 | | | | | |
| 23 | CLKKLL | uPD64012 | | | 40 | | | | | |
| 24 | CODDEN | uPD64012 | | | 0 | | | | | |

Electrical Adjustments

| Item No. | NAME | Device | XGA | | | | Range | Description | |
|----------|----------|----------|-------------------|---------------------|--------------------|--------------------|-------|-------------|------|
| | | | PC | Component | | Video | | | |
| | | | | HDTV | 480p | 480i | | | NTSC |
| 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 | INVBKLEN | 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 | 42/45 | 42/45 | 45/45 | 45/45 | | | |
| 70 | YGCOFF | uPD64012 | | | 0 | | | | |
| 71 | YGCMSV | 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 | YGCIIIRS | 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 | YCSSC | 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 | | | | |
| 98 | ACCGAIN | uPD64012 | | | 1 | | | | |
| 99 | ACCLIM | uPD64012 | | | 8 | | | | |
| 100 | STNTSCM | uPD64012 | | | 0 | | | | |
| 101 | STPALD | uPD64012 | | | 0 | | | | |

Electrical Adjustments

| Item No. | NAME | Device | XGA | | | | Range | Description | |
|----------|---------------|----------|------------|------------|---------------------------------|-------------|---|-------------|------|
| | | | PC | Component | | Video | | | |
| | | | | HDTV | 480p | 480i | | | NTSC |
| | | | VIDEO | S-VIDEO | YCBCR | SCART | | | |
| | | | NTSC / PAL | NSTC / PAL | 480i / 575i | 480i / 575i | | | |
| 102 | SBCNT | uPD64012 | 109 / 111 | 104 / 106 | 108 / 108 | 102 / 102 | | | |
| 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 | SHPCORH | uPD64012 | | | 2 | | | | |
| 120 | SHPCORE | uPD64012 | | | 0 | | | | |
| 121 | BRIGHT | uPD64012 | | | 512 | | | | |
| 122 | OFRY | uPD64012 | | | 32 | | | | |
| 123 | COLORG | uPD64012 | | | 128 | | | | |
| 124 | HUE | uPD64012 | | | 114 | | | | |
| 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 | VLIM | uPD64012 | | | 0 | | | | |
| 145 | VDCOR | uPD64012 | | | 0 | | | | |
| 146 | LPFTHR | uPD64012 | | | SCART: 0 COMPOSET/SVIDEO:0 | | | | |
| 147 | ADCLK | uPD64012 | | | SCART: 3 COMPOSITE/SVIDEO:2 | | | | |
| Group 9 | PANEL CONTROL | | | | | | | | |
| 0 | R-SubGain | L3E07110 | | | 512/524/472/535/512/524/472/535 | | | | |
| 1 | G-SubGain | L3E07110 | | | 512/524/472/472/512/524/472/472 | 1-1023 | | | |
| 2 | B-SubGain | L3E07110 | | | 512/524/472/472/512/524/472/472 | 1-1023 | PCStandard/PCDynamic/PCReal/PCBlackBoard/ AVStandard/AVDnamic/AVCinema/AVBlackBoard | | |
| 3 | R-SubBright | L3E07110 | | | 0/0/24/16/0/0/24/16 | 1-1023 | | | |
| 4 | G-SubBright | L3E07110 | | | 0/0/24/16/0/0/24/16 | 1-1023 | | | |
| 5 | B-SubBright | L3E07110 | | | 0/0/24/16/0/0/24/16 | 1-1023 | | | |
| 6 | R-GammaShift | L3E07110 | | | 0/0/0/0 | 1-1023 | PC/DVI/HDCP/VIDEO ※ White Balance Adj.(PC),(Video) | | |
| 7 | G-GammaShift | L3E07110 | | | 0/0/0/0 | 1-1023 | When adjusting G, the value of R and B changes together ※ 50%-White Adj.(PC),(Video) | | |
| 8 | B-GammaShift | L3E07110 | | | 0/0/0/0 | 1-1023 | PC/DVI/HDCP/VIDEO ※ White Balance Adj.(PC),(Video) | | |
| 9 | R_ReferH | L3E07110 | | | Normal:1000/Ceiling:1000 | 1-1023 | | | |
| 10 | R_ReferL | L3E07110 | | | Normal:304/Ceiling:304 | 1-1023 | | | |
| 11 | G_ReferH | L3E07110 | | | Normal:1000/Ceiling:1000 | 1-1023 | When adjusting G, the value of R and B changes together | | |
| 12 | G_ReferL | L3E07110 | | | Normal:304/Ceiling:304 | 1-1023 | When adjusting G, the value of R and B changes together | | |
| 13 | B_ReferH | L3E07110 | | | Normal:1000/Ceiling:1000 | 1-1023 | | | |
| 14 | B_ReferL | L3E07110 | | | Normal:304/Ceiling:304 | 1-1023 | | | |
| 15 | DXOUTR | L3E07110 | | | 237 | 1-1023 | | | |
| 16 | DXOUTG | L3E07110 | | | 237 | 1-1023 | | | |
| 17 | DXOUTB | L3E07110 | | | 237 | 1-1023 | | | |
| 18 | H_Change_Pos | L3E07110 | | | 3 | 0-256 | | | |
| 19 | SH_Base | L3E07110 | | | 273 | 0-4095 | | | |
| 20 | NRG_Pos | L3E07110 | | | 62 | 0-128 | | | |
| 21 | NRG_Width | L3E07110 | | | 53 | 0-255 | | | |
| 22 | OSD_Pos | L3E07110 | | | 2 | 0-3 | | | |
| 23 | OSD_Ptn | L3E07110 | | | 0 | 0-7 | | | |
| 24 | GammaCtrl | L3E07110 | | | 1 | 0-1 | | | |
| 25 | REF_GatePos | L3E07110 | | | 5 | 0-1023 | | | |
| 26 | REF_GateDur | L3E07110 | | | 204 | 0-1023 | | | |
| 27 | R-BasePos | L3E07110 | | | 8 | 0-15 | | | |
| 28 | G-BasePos | L3E07110 | | | 8 | 0-15 | When adjusting G, the value of R and B changes together | | |

Electrical Adjustments

| Item No. | NAME | Device | XGA | | | | | Range | Description |
|----------|-------------------|----------|-----|--------------------|------|-------|------|--------|---|
| | | | PC | Component | | Video | | | |
| | | | | HDTV | 480p | 480i | NTSC | | |
| 29 | B-BasePos | L3E07110 | | 8 | | | | 0-15 | |
| 30 | RGB-Adjust | L3E07110 | | 0 | | | | 0-7 | |
| 31 | RGB-AdjLv | L3E07110 | | 0 | | | | 0-1023 | |
| 32 | LineR0 | L3E07110 | | 8 | | | | 0-255 | |
| 33 | LineR1 | L3E07110 | | 4 | | | | 0-255 | |
| 34 | LineR2 | L3E07110 | | 1 | | | | 0-255 | |
| 35 | LineR3 | L3E07110 | | 255 | | | | 0-255 | |
| 36 | LineR4 | L3E07110 | | 252 | | | | 0-255 | |
| 37 | LineG0 | L3E07110 | | 8 | | | | 0-255 | |
| 38 | LineG1 | L3E07110 | | 4 | | | | 0-255 | |
| 39 | LineG2 | L3E07110 | | 1 | | | | 0-255 | |
| 40 | LineG3 | L3E07110 | | 255 | | | | 0-255 | |
| 41 | LineG4 | L3E07110 | | 252 | | | | 0-255 | |
| 42 | LineB0 | L3E07110 | | 8 | | | | 0-255 | |
| 43 | LineB1 | L3E07110 | | 4 | | | | 0-255 | |
| 44 | LineB2 | L3E07110 | | 1 | | | | 0-255 | |
| 45 | LineB3 | L3E07110 | | 255 | | | | 0-255 | |
| 46 | LineB4 | L3E07110 | | 252 | | | | 0-255 | |
| 47 | GhostR-Pos | L3E07110 | | 8 | | | | 0-15 | |
| 48 | GhostG-Pos | L3E07110 | | 8 | | | | 0-15 | When adjusting G, the value of R and B changes together |
| 49 | GhostB-Pos | L3E07110 | | 8 | | | | 0-15 | |
| 50 | GhostR-Cent | L3E07110 | | 0 | | | | 0-2047 | |
| 51 | GhostR-Start | L3E07110 | | 128 | | | | 0-255 | |
| 52 | GhostR-End | L3E07110 | | 128 | | | | 0-255 | |
| 53 | GhostG-Cent | L3E07110 | | 0 | | | | 0-2047 | When adjusting G, the value of R and B changes together |
| 54 | GhostG-Start | L3E07110 | | 128 | | | | 0-255 | |
| 55 | GhostG-End | L3E07110 | | 128 | | | | 0-255 | |
| 56 | GhostB-Cent | L3E07110 | | 0 | | | | 0-2047 | |
| 57 | GhostB-Start | L3E07110 | | 128 | | | | 0-255 | |
| 58 | GhostB-End | L3E07110 | | 128 | | | | 0-255 | |
| 59 | BlockR1 | L3E07110 | | 0 | | | | 0-2047 | |
| 60 | BlockG1 | L3E07110 | | 0 | | | | 0-2047 | When adjusting G, the value of R and B changes together |
| 61 | BlockB1 | L3E07110 | | 0 | | | | 0-2047 | |
| 62 | BlockR2 | L3E07110 | | 0 | | | | 0-2047 | |
| 63 | BlockR2 | L3E07110 | | 0 | | | | 0-2047 | |
| 64 | BlockR2 | L3E07110 | | 0 | | | | 0-2047 | |
| 65 | ReverceR | L3E07110 | | 0 | | | | 0-2047 | |
| 66 | ReverceG | L3E07110 | | 0 | | | | 0-2047 | When adjusting G, the value of R and B changes together |
| 67 | ReverceB | L3E07110 | | 0 | | | | 0-2047 | |
| 68 | BackCrossR-Cent | L3E07110 | | 1 | | | | 0-2047 | |
| 69 | BackCrossR-Start | L3E07110 | | 128 | | | | 0-255 | |
| 70 | BackCrossR-End | L3E07110 | | 128 | | | | 0-255 | |
| 71 | BackCrossG-Cent | L3E07110 | | 1 | | | | 0-2047 | When adjusting G, the value of R and B changes together |
| 72 | BackCrossG-Start | L3E07110 | | 128 | | | | 0-255 | |
| 73 | BackCrossG-End | L3E07110 | | 128 | | | | 0-255 | |
| 74 | BackCrossB-Cent | L3E07110 | | 1 | | | | 0-2047 | |
| 75 | BackCrossB-Start | L3E07110 | | 128 | | | | 0-255 | |
| 76 | BackCrossB-End | L3E07110 | | 128 | | | | 0-255 | |
| 77 | ColshdSelect | L3E07110 | | 1 | | | | 0-1 | |
| 78 | R-Min | L3E07110 | | 286 | | | | 0-1023 | |
| 79 | R-Mid2 | L3E07110 | | 477 | | | | 0-1023 | |
| 80 | R-Mid1 | L3E07110 | | 601 | | | | 0-1023 | |
| 81 | R-Max | L3E07110 | | 694 | | | | 0-1023 | |
| 82 | G-Min | L3E07110 | | 286 | | | | 0-1023 | |
| 83 | G-Mid2 | L3E07110 | | 477 | | | | 0-1023 | |
| 84 | G-Mid1 | L3E07110 | | 601 | | | | 0-1023 | |
| 85 | G-Max | L3E07110 | | 694 | | | | 0-1023 | |
| 86 | B-Min | L3E07110 | | 286 | | | | 0-1023 | |
| 87 | B-Mid2 | L3E07110 | | 477 | | | | 0-1023 | |
| 88 | B-Mid1 | L3E07110 | | 601 | | | | 0-1023 | |
| 89 | B-Max | L3E07110 | | 694 | | | | 0-1023 | |
| 90 | H-OutPos | L3E07110 | | 120 | | | | 0-2047 | |
| 91 | OutAreaLv | L3E07110 | | 0 | | | | 0-1023 | |
| 92 | FlickerAdj | L3E07110 | | 0 | | | | 0-2 | ※ Common Center Adj. |
| 93 | FRC_Bit | L3E07110 | | 2 | | | | 0-2 | |
| 94 | FrontCTalkR-Cent | L3E07110 | | 0 | | | | 0-2047 | |
| 95 | FrontCTalkR-Start | L3E07110 | | 125 | | | | 0-255 | |
| 96 | FrontCTalkR-End | L3E07110 | | 128 | | | | 0-255 | |
| 97 | FrontCTalkG-Cent | L3E07110 | | 0 | | | | 0-2047 | |
| 98 | FrontCTalkG-Start | L3E07110 | | 125 | | | | 0-255 | |
| 99 | FrontCTalkG-End | L3E07110 | | 128 | | | | 0-255 | |
| 100 | FrontCTalkB-Cent | L3E07110 | | 0 | | | | 0-2047 | |
| 101 | FrontCTalkB-Start | L3E07110 | | 125 | | | | 0-255 | |
| 102 | FrontCTalkB-End | L3E07110 | | 128 | | | | 0-255 | |
| 103 | R-DCOffset-NGain | L3E07110 | | Normal:0/Ceiling:0 | | | | 0-255 | |
| 104 | R-DCOffset-N1 | L3E07110 | | Normal:0/Ceiling:0 | | | | 0-511 | |
| 105 | R-DCOffset-N2 | L3E07110 | | Normal:0/Ceiling:0 | | | | 0-511 | |
| 106 | R-DCOffset-N3 | L3E07110 | | Normal:0/Ceiling:0 | | | | 0-511 | |
| 107 | R-DCOffset-N4 | L3E07110 | | Normal:0/Ceiling:0 | | | | 0-511 | |
| 108 | R-DCOffset-N5 | L3E07110 | | Normal:0/Ceiling:0 | | | | 0-511 | |

Electrical Adjustments

| Item No. | NAME | Device | XGA | | | | | Range | Description | |
|----------|------------------|----------|-----|-----------|----------|-----------|-------|----------------------|-------------|-----|
| | | | PC | Component | | | Video | | | |
| | | | | HDTV | 480p | 480i | NTSC | | | PAL |
| 109 | R-DCOffset-N6 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 110 | R-DCOffset-N7 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 111 | R-DCOffset-N8 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 112 | R-DCOffset-N9 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 113 | R-DCOffset-N10 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 114 | R-DCOffset-N11 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 115 | R-DCOffset-N12 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 116 | G-DCOffset-NGain | L3E07110 | | | Normal:0 | Ceiling:0 | 0-255 | | | |
| 117 | G-DCOffset-N1 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 118 | G-DCOffset-N2 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 119 | G-DCOffset-N3 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 120 | G-DCOffset-N4 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 121 | G-DCOffset-N5 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 122 | G-DCOffset-N6 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 123 | G-DCOffset-N7 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 124 | G-DCOffset-N8 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 125 | G-DCOffset-N9 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 126 | G-DCOffset-N10 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 127 | G-DCOffset-N11 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 128 | G-DCOffset-N12 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 129 | B-DCOffset-NGain | L3E07110 | | | Normal:0 | Ceiling:0 | 0-255 | | | |
| 130 | B-DCOffset-N1 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 131 | B-DCOffset-N2 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 132 | B-DCOffset-N3 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 133 | B-DCOffset-N4 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 134 | B-DCOffset-N5 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 135 | B-DCOffset-N6 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 136 | B-DCOffset-N7 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 137 | B-DCOffset-N8 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 138 | B-DCOffset-N9 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 139 | B-DCOffset-N10 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 140 | B-DCOffset-N11 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 141 | B-DCOffset-N12 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 142 | R-DCOffset-PGain | L3E07110 | | | Normal:0 | Ceiling:0 | 0-255 | | | |
| 143 | R-DCOffset-P1 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 144 | R-DCOffset-P2 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 145 | R-DCOffset-P3 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 146 | R-DCOffset-P4 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 147 | R-DCOffset-P5 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 148 | R-DCOffset-P6 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 149 | R-DCOffset-P7 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 150 | R-DCOffset-P8 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 151 | R-DCOffset-P9 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 152 | R-DCOffset-P10 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 153 | R-DCOffset-P11 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 154 | R-DCOffset-P12 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 155 | G-DCOffset-PGain | L3E07110 | | | Normal:0 | Ceiling:0 | 0-255 | | | |
| 156 | G-DCOffset-P1 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 157 | G-DCOffset-P2 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 158 | G-DCOffset-P3 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 159 | G-DCOffset-P4 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 160 | G-DCOffset-P5 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 161 | G-DCOffset-P6 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 162 | G-DCOffset-P7 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 163 | G-DCOffset-P8 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 164 | G-DCOffset-P9 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 165 | G-DCOffset-P10 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 166 | G-DCOffset-P11 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 167 | G-DCOffset-P12 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 168 | B-DCOffset-PGain | L3E07110 | | | Normal:0 | Ceiling:0 | 0-255 | | | |
| 169 | B-DCOffset-P1 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 170 | B-DCOffset-P2 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 171 | B-DCOffset-P3 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 172 | B-DCOffset-P4 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 173 | B-DCOffset-P5 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 174 | B-DCOffset-P6 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 175 | B-DCOffset-P7 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 176 | B-DCOffset-P8 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 177 | B-DCOffset-P9 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 178 | B-DCOffset-P10 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 179 | B-DCOffset-P11 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 180 | B-DCOffset-P12 | L3E07110 | | | Normal:0 | Ceiling:0 | 0-511 | | | |
| 181 | ENBX-R | L3E07110 | | | 0 | | 0-127 | | | |
| 182 | ENBX-G | L3E07110 | | | 0 | | 0-127 | | | |
| 183 | ENBX-B | L3E07110 | | | 0 | | 0-127 | | | |
| 184 | DXOutPos | L3E07110 | | | 0 | | 0-1 | | | |
| Group 10 | PANEL SERVICE | | | | | | | | | |
| 0 | R-LCCOM | L3E06150 | | | 300 | | 0-511 | * Common Center Adj. | | |
| 1 | G-LCCOM | L3E06150 | | | 300 | | 0-511 | * Common Center Adj. | | |

Electrical Adjustments

| Item No. | NAME | Device | XGA | | | | | | Range | Description |
|-----------|---|----------|-----|-----------------|------|-------|-------|-----------|--|-------------|
| | | | PC | Component | | Video | | | | |
| | | | | HDTV | 480p | 480i | NTSC | PAL | | |
| 2 | B-LCCOM | L3E06150 | | 300 | | | | 0-511 | *: Common Center Adj. | |
| 3 | R-LCCOM-Gain | L3E06150 | | 191 | | | | 0-255 | | |
| 4 | G-LCCOM-Gain | L3E06150 | | 191 | | | | 0-255 | | |
| 5 | B-LCCOM-Gain | L3E06150 | | 191 | | | | 0-255 | | |
| 6 | R-LCCOM-Bright | L3E06150 | | 0 | | | | 0-255 | | |
| 7 | G-LCCOM-Bright | L3E06150 | | 0 | | | | 0-255 | | |
| 8 | B-LCCOM-Bright | L3E06150 | | 0 | | | | 0-255 | | |
| 9 | R-LCCOM-Cent | L3E06150 | | 18 | | | | 0-63 | | |
| 10 | G-LCCOM-Cent | L3E06150 | | 18 | | | | 0-63 | | |
| 11 | B-LCCOM-Cent | L3E06150 | | 18 | | | | 0-63 | | |
| 12 | R-ENBX-PW | L3E01060 | | 11 | | | | 0-127 | | |
| 13 | G-ENBX-PW | L3E01060 | | 11 | | | | 0-127 | | |
| 14 | B-ENBX-PW | L3E01060 | | 11 | | | | 0-127 | | |
| 15 | R-DXIN | L3E01060 | | 9 | | | | 0-255 | Link with Group 10 - No 18 | |
| 16 | G-DXIN | L3E01060 | | 9 | | | | 0-255 | Link with Group 10 - No 19 | |
| 17 | B-DXIN | L3E01060 | | 9 | | | | 0-255 | Link with Group 10 - No 20 | |
| 18 | R-CLXIN | L3E01060 | | 9 | | | | 0-255 | Link with Group 10 - No 15 | |
| 19 | G-CLXIN | L3E01060 | | 9 | | | | 0-255 | Link with Group 10 - No 16 | |
| 20 | B-CLXIN | L3E01060 | | 9 | | | | 0-255 | Link with Group 10 - No 17 | |
| 21 | R-ENBX1IN | L3E01060 | | 27 | | | | 0-255 | | |
| 22 | G-ENBX1IN | L3E01060 | | 27 | | | | 0-255 | | |
| 23 | B-ENBX1IN | L3E01060 | | 27 | | | | 0-255 | | |
| Group 100 | OPTION (Lamp Time, Service Port etc) | | | | | | | | | |
| 1 | RS232C Baudrate | PW186 | | 0 | | | | | 0 : 19200bps 1: 9600bps | |
| 2 | PJLink Enable | MCI | | 1 | | | | 0-1 | 0:Disable 1:Enable | |
| 5 | PW Debug Command Enable | PW186 | | 1 | | | | 0-1 | 0:Disable 1:Enable(Sanyo Serial Command Disable)(Not memorized) | |
| 6 | Device Refresh Disable | PW186 | | 0 | | | | 0-1 | 0:Enable 1:Disable(Not memorized) | |
| 20 | Projector Time Reset | PW186 | | 0 | | | | 0-20 | Resets Projector time when the value is set to 10. | |
| 21 | Lamp Warning Time (NORMAL) | PW186 | | 1000 | | | | 0-10000 | Normal lamp warning time | |
| 22 | Lamp Warning Time (ECO) | PW186 | | 2000 | | | | 0-10000 | Eco lamp warning time | |
| 30 | Lamp life test enable | PW186 | | 0 | | | | 0-1 | 0:Disable 1:Enable For safety test purpose | |
| 31 | Lamp On time for life test | PW186 | | 1 | | | | 1-720 | For test purpose | |
| 32 | Lamp Off time for life test | PW186 | | 3 | | | | 1-720 | For test purpose | |
| 33 | Lamp total time for life test | PW186 | | 0 | | | | 0-32767 | For test purpose | |
| 34 | Input Search Wait Time | PW186 | | 2300 | | | | 1000-3000 | Waiting time of Input Search Switch (ms) | |
| 40 | Memory viewer please wait display disable | PW186 | | 0 | | | | 0-1 | 0: disable 1:Enable, Prohibit a part of Memory Viewer function | |
| Group 101 | OPTION (Signal Processing) | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | Frame Lock SW | PW186 | | 0 | | | | | 0:Not V-Sync, 1:V-Sync | |
| 5 | Non Brand | PW186 | | 0 | | | | | 0:Normal 1:Non Brand | |
| 6 | Monitor Error Count | PW186 | | 5 | | | | | Threshold value of Monitor error count | |
| 7 | CABLE SW | PW186 | | 0 | | | | | Cable switch | |
| Group 103 | PW186 Image Control | | | | | | | | | |
| | | | PC | COMPONENT | | VIDEO | | | | |
| | | | PC | HDTV | 480i | VIDEO | SCART | | | |
| 0 | Center Contrast | PW186 | 512 | 650 | 512 | 600 | 512 | | PW186 CONTRAST Center adjustment *: Gain Adj. (Video) | |
| 1 | Center Brightness | PW186 | 512 | 512 | 512 | 512 | 512 | | PW186 BRIGHTNESS Center adjustment | |
| 2 | Center Color | PW186 | 512 | 475 | 475 | 475 | 425 | | PW186 COLOR Center adjustment | |
| 3 | Center Tint | PW186 | 90 | 82 | 82 | 82 | 82 | | PW186 TINT Center adjustment | |
| 4 | Center Sharpness | PW186 | 16 | 16 | 16 | 16 | 16 | | PW186 SHARPNESS Center adjustment | |
| 5 | Alpha Contrast | PW186 | 40 | 40 | 40 | 40 | 40 | | PW186 CONTRAST Range adjustment | |
| 6 | Alpha Brightness | PW186 | 140 | 140 | 140 | 140 | 140 | | PW186 BRIGHTNESS Range adjustment | |
| 7 | Alpha Color | PW186 | 70 | 70 | 70 | 70 | 70 | | PW186 COLOR Range adjustment | |
| 8 | Alpha Tint | PW186 | 10 | 10 | 10 | 10 | 10 | | PW186 TINT Range adjustment | |
| 9 | Alpha Sharpness | PW186 | 10 | 10 | 10 | 10 | 10 | | PW186 SHARPNESS Range adjustment | |
| Group 104 | PW186 Auto PC Adjust Control | | | | | | | | | |
| 0 | AutoPCAdjustEnable | PW186 | | 0 | | | | 0-1 | 0:Auto 1:Prohibit Auto PC Adj. | |
| 1 | Frequency Step | PW186 | | 2 | | | | 0-3 | | |
| 2 | Frequency Threshold | PW186 | | 5 | | | | 0-10 | | |
| 3 | Fine Phase | PW186 | | 1 | | | | 0-1 | | |
| 4 | BLKDET | PW186 | | 1 | | | | 0-3 | Black Level Detecte Area | |
| 5 | PHASEMSK | PW186 | | 0 | | | | 0-3 | Phase Detection Filter 0:Effect all bits 1:Disable lower 1 bit 2:Disable lower 2 bits 3:Disable lower 3 bits | |
| Group 105 | Custom Mode | | | | | | | | | |
| 0 | H/V | PW186 | | 0 | | | | 0-1 | Link H and V, 1: On, 0: Off | |
| 1 | Scale-H | PW186 | | 100/100/100/100 | | | | 0-200 | Vertical Scaler Edit (Unit %) | |
| 2 | Scale-V | PW186 | | 100/100/100/100 | | | | 0-200 | Vertical Position Correction (Unit %) | |
| 3 | RESET/STORE | PW186 | | 100/100/100/100 | | | | 0-200 | Reset Vertical Aspect 0:Reset, 1:Save0 | |
| 4 | Horizontal Scaler | PW186 | | 100/100/100/100 | | | | 0-200 | Horizontal Scaler Edit (Unit %) | |
| 5 | CUSTOM ON/OFF | PW186 | | 0 | | | | 0-1 | *Not used | |
| Group 110 | Dimmer Processing for Ballast type | | | | | | | | | |
| 0 | DIMMER_CTRL_LEVEL1 | PW186 | | 11 | | | | 0-255 | | |
| 1 | DIMMER_CTRL_LEVEL2 | PW186 | | 21 | | | | 0-255 | | |

Electrical Adjustments

| Item No. | NAME | Device | XGA | | | | | | Range | Description |
|-----------|---------------------------------|--------|--------|-----------|----------------|-----------------|-------|-----|--------|--|
| | | | PC | Component | | | Video | | | |
| | | | | HDTV | 480p | 480i | NTSC | PAL | | |
| 2 | DIMMER_CTRL_LEVEL3 | PW186 | | | 32 | | | | 0-255 | |
| 3 | DIMMER_CTRL_LEVEL4 | PW186 | | | 42 | | | | 0-255 | |
| 4 | DIMMER_CTRL_LEVEL5 | PW186 | | | 53 | | | | 0-255 | |
| 5 | DIMMER_CTRL_LEVEL6 | PW186 | | | 63 | | | | 0-255 | |
| 6 | DIMMER_CTRL_LEVEL7 | PW186 | | | 74 | | | | 0-255 | |
| 7 | DIMMER_CTRL_LEVEL8 | PW186 | | | 105 | | | | 0-255 | |
| 8 | DIMMER_CTRL_LEVEL9 | PW186 | | | 255 | | | | 0-255 | |
| 9 | DIMMER_CTRL_LEVEL10 | PW186 | | | 255 | | | | 0-255 | |
| 10 | DIMMER_CTRL_LEVEL11 | PW186 | | | 255 | | | | 0-255 | |
| 11 | DIMMER_CTRL_LEVEL12 | PW186 | | | 255 | | | | 0-255 | |
| 12 | DIMMER_CTRL_LEVEL13 | PW186 | | | 255 | | | | 0-255 | |
| 13 | DIMMER_CTRL_LEVEL14 | PW186 | | | 255 | | | | 0-255 | |
| 14 | DIMMER_CTRL_LEVEL15 | PW186 | | | 255 | | | | 0-255 | |
| 15 | DIMMER_AVERAGE_POINT | PW186 | | | 4 | | | | 0-15 | Avarage point of Luminance data for Dimmer |
| 16 | DIMMER_AVERAGE_DATA | PW186 | | | - | | | | 0-255 | Avarage value of Luminance data for Dimmer, Read only |
| 17 | DIMMER_LEVEL_AUTO | PW186 | | | - | | | | 0-15 | Present Dimmer Level |
| 18 | DIMMER_LEVEL_NORMAL | PW186 | | | 10 | | | | 0-15 | Dimmer Level at Normal |
| 19 | DIMMER_LEVEL_ECO | PW186 | | | 0 | | | | | Dimmer Level at Eco |
| 20 | Lamp check enable | PW186 | | | 1 | | | | | 1: Lamp Fail Detection On (White 50% back), 0: Off (Blue 100% back) |
| 21 | VOLTAGE_LEVEL | PW186 | | | - | | | | | Lamp Voltage, Read only 8bit value |
| 22 | Lamp PWM PRES AV50Hz | PW186 | | | 68 | | | | 0-255 | PREFPRES register setting for AV50Hz Lamp PWM output |
| 23 | Lamp PWM PRES AV60Hz | PW186 | | | 68 | | | | 0-255 | PREFPRES register setting for AV60Hz Lamp PWM output |
| 24 | Lamp PWM PRES Unlock | PW186 | | | 68 | | | | 0-255 | PREFPRES register setting for Un-Framlock Lamp PWM output |
| 25 | Lamp PWM PRES PC A | PW186 | | | 2 | | | | 0-255 | Parameter A at PC Framlock Lamp PWM output |
| 26 | Lamp PWM PRES PC B | PW186 | | | 3 | | | | 0-255 | Parameter B at PC Framlock Lamp PWM output |
| Group 111 | FAN CONTROL | | | | | | | | | |
| | | | Normal | Ceiling | Normal/Hi-land | Ceiling/Hi-land | | | | |
| 0 | FAN_TEMP_A_WARNING | | 54 | 53 | 54 | 56 | | | 30-100 | Temp A to judge temperature Error (Memorized)for Outside temp. |
| 1 | FAN_TEMP_B_WARNING | | 61 | 60 | 57 | 58 | | | 30-100 | Temp B to judge temperature Error (Memorized)for Panel temp. |
| 2 | FAN_TEMP_C_WARNING | | 68 | 68 | 65 | 67 | | | 30-100 | Temp C to judge temperature Error (Memorized)for Lamp temp. |
| 3 | FAN_TEMP_B-A_WARNING | | 100 | 100 | 100 | 100 | | | 0-100 | Temp B-A to judge temperature Error (Memorized)for Filter cloggle detection |
| 4 | FAN_TEMP_C-A_WARNING | | 100 | 100 | 100 | 100 | | | 0-100 | Temp C-A to judge temperature Error (Memorized)for Filter cloggle detection |
| 5 | FAN_1_SPEED_MONI | | | | - | | | | | Fan Speed Monitor (Read only) |
| 6 | FAN_2_SPEED_MONI | | | | - | | | | | Fan Speed Monitor (Read only) |
| 7 | FAN_TEMP_A_MONI | | | | - | | | | | |
| 8 | FAN_TEMP_B_MONI | | | | - | | | | | |
| 9 | FAN_TEMP_C_MONI | | | | - | | | | | |
| 10 | Lamp Mode | | | | 1 | | | | 0-2 | Normal/Auto/Eco |
| 11 | Fan Ctrl Mode | | | | 0 | | | | 0-1 | Normal/Ceiling Switching |
| 12 | FAN_SW | | | | 0 | | | | 0-3 | 0:Auto, 1:Max, 2:Min, 3:Manual Auto/Max/Min/ManualSwitching |
| 13 | Hi-Land SW | | | | 0 | | | | 0-5 | 0: Normal mode 1:Highland mode 2-4: Highland mode 1-3 5:Fixed |
| 14 | Safety FAN Control Fix SW | | | | 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 | | | | 135 | | | | 0-255 | Manual Adj. mode at FAN_CONTROL_SW=3 Normal |
| 16 | FAN_2_SPEED_CTRL | | | | 135 | | | | 0-255 | Manual Adj. mode at FAN_CONTROL_SW=3 Normal |
| 17 | TEMP_UPWARNING_TIME_A (OUTSIDE) | | | | 3 | | | | 0-5 | Setup Error Temp. for a duration of X minites started from Power ON |
| 18 | TEMP_UPWARNING_TIME_B (PANEL) | | | | 3 | | | | 0-5 | Setup Error Temp. for a duration of X minites started from Power ON |
| 19 | TEMP_UPWARNING_TIME_C (LAMP) | | | | 3 | | | | 0-5 | Setup Error Temp. for a duration of X minites started from Power ON |
| 20 | TEMP_UPWARNING_TIME_B-A | | | | 3 | | | | 0-5 | Setup Error Temp. for a duration of X minites started from Power ON |
| 21 | TEMP_UPWARNING_TIME_C-A | | | | 3 | | | | 0-5 | Setup Error Temp. for a duration of X minites started from Power ON |
| 22 | UPWARNING_TEMP_A (OUTSIDE) | | | | 8 | | | | | Increase X°C for Error Temp. for a limited time started from Power ON |
| 23 | UPWARNING_TEMP_B (PANEL) | | | | 5 | | | | | Increase X°C for Error Temp. for a limited time started from Power ON |
| 24 | UPWARNING_TEMP_C (LAMP) | | | | 8 | | | | | Increase X°C for Error Temp. for a limited time started from Power ON |
| 25 | UPWARNING_TEMP_B-A | | | | 8 | | | | | Increase X°C for Error Temp. for a limited time started from Power ON |
| 26 | UPWARNING_TEMP_C-A | | | | 8 | | | | | Increase X°C for Error Temp. for a limited time started from Power ON |
| 27 | FAN_1_START_SPEED | | | | 70 | | | | 0-255 | Start Volotage 7V Fan sereis 1 |
| 28 | FAN_2_START_SPEED | | | | 70 | | | | 0-255 | Start Volotage 7V Fan sereis 1 |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| 31 | FAN_1_COOLING_SPEED | | | | 100 | | | | 0-255 | Fan series 1 Voltage at PowerOFF(Fan Model1) |
| 32 | FAN_2_COOLING_SPEED | | | | 100 | | | | 0-255 | Fan series 2 Voltage at PowerOFF(Fan Model1) |
| 33 | FAN_1_TEMPERROR_SPEED | | | | 135 | | | | 0-255 | Fan series 1 Voltage at Temp Error |
| 34 | FAN_2_TEMPERROR_SPEED | | | | 135 | | | | 0-255 | Fan series 2 Voltage at Temp Error |
| 35 | Cooling Time L1 | | | | 3 | | | | 1-15 | Cooling time setting for Fan Mode L1 (x30sec)1:30sec3:90sec15:450sec |
| 36 | Cooling Time L2 | | | | 4 | | | | 1-15 | Cooling time setting for Fan Mode L2 (x30sec)1:30sec3:90sec15:450sec |
| 37 | IGNORE_TEMP_CHANGE_RATE | | | | 10 | | | | 5-50 | Margin setting |
| 38 | IGNORE_TEMP_CHANGE_TIMES | | | | 5 | | | | 1-9 | Margin setting |
| 39 | SVCFAN_ITEM_TEMP_A_BASE_RAISING | | | | 1 | | | | 1-10 | Temo A Shutdown Base up Temp. at Eco |
| 40 | | | | | | | | | | |
| 41 | | | | | | | | | | |
| 42 | NOR_TEMP_FAN1_MIN | | | | 46 | | | | 0-255 | FAN1 Control start temp.at Normal |
| 43 | NOR_TEMP_FAN1_MAX | | | | 50 | | | | 0-255 | FAN1 Control end temp. at Normal |

| Item No. | NAME | Device | XGA | | | | | Range | Description |
|-----------|-----------------------------|--------|-----|-----------|------|-------|------|----------|---|
| | | | PC | Component | | Video | | | |
| | | | | HDTV | 480p | 480i | NTSC | | |
| 44 | NOR_TEMP_FAN2_MIN | | | 46 | | | | 0-255 | FAN2 Control start temp.at Normal |
| 45 | NOR_TEMP_FAN2_MAX | | | 50 | | | | 0-255 | FAN2 Control end temp. at Normal |
| 46 | NOR_VALU_FAN1_MIN | | | 72 | | | | 0-255 | FAN1 Control Min at Normal (0:0V, 255:25.5V) |
| 47 | NOR_VALU_FAN1_MAX | | | 135 | | | | 0-255 | FAN1 Control Max at Normal |
| 48 | NOR_VALU_FAN2_MIN | | | 80 | | | | 0-255 | FAN2 Control Min at Normal |
| 49 | NOR_VALU_FAN2_MAX | | | 130 | | | | 0-255 | FAN2 Control Max at Normal |
| 50 | ECO_TEMP_FAN1_MIN | | | 47 | | | | 0-255 | FAN1 Control start temp.at Eco |
| 51 | ECO_TEMP_FAN1_MAX | | | 50 | | | | 0-255 | FAN1 Control end temp. at Eco |
| 52 | ECOTEMP_FAN2_MIN | | | 47 | | | | 0-255 | FAN2 Control start temp.at Eco |
| 53 | ECO_TEMP_FAN2_MAX | | | 50 | | | | 0-255 | FAN2 Control end temp. at Eco |
| 54 | ECO_VALU_FAN1_MIN | | | 55 | | | | 0-255 | FAN1 Control Min at Eco |
| 55 | ECO_VALU_FAN1_MAX | | | 115 | | | | 0-255 | FAN1 Control Max at Eco |
| 56 | ECO_VALU_FAN2_MIN | | | 62 | | | | 0-255 | FAN2 Control Min at Eco |
| 57 | ECO_VALU_FAN2_MAX | | | 86 | | | | 0-255 | FAN2 Control Max at Eco |
| 58 | HINOR_TEMP_FAN1_MIN | | | 46 | | | | 0-255 | FAN1 Control start temp.at Highland Normal |
| 59 | HINOR_TEMP_FAN1_MAX | | | 46 | | | | 0-255 | FAN1 Control end temp. at Highland Normal |
| 60 | HINOR_TEMP_FAN2_MIN | | | 46 | | | | 0-255 | FAN2 Control start temp.at Highland Normal |
| 61 | HINOR_TEMP_FAN2_MAX | | | 46 | | | | 0-255 | FAN2 Control end temp. at Highland Normal |
| 62 | HINOR_VALU_FAN1_MIN | | | 135 | | | | 0-255 | FAN1 Control Min at Highland Normal (0:0V, 255:25.5V) |
| 63 | HINOR_VALU_FAN1_MAX | | | 135 | | | | 0-255 | FAN1 Control Max at Highland Normal |
| 64 | HINOR_VALU_FAN2_MIN | | | 130 | | | | 0-255 | FAN2 Control Min at Highland Normal |
| 65 | HINOR_VALU_FAN2_MAX | | | 130 | | | | 0-255 | FAN2 Control Max at Highland Normal |
| 66 | HIECO_TEMP_FAN1_MIN | | | 47 | | | | 0-255 | FAN1 Control start temp.at Highland Eco |
| 67 | HIECO_TEMP_FAN1_MAX | | | 47 | | | | 0-255 | FAN1 Control end temp. at Highland Eco |
| 68 | HIECOTEMP_FAN2_MIN | | | 47 | | | | 0-255 | FAN2 Control start temp.at Highland Eco |
| 69 | HIECO_TEMP_FAN2_MAX | | | 47 | | | | 0-255 | FAN2 Control end temp. at Highland Eco |
| 70 | HIECO_VALU_FAN1_MIN | | | 120 | | | | 0-255 | FAN1 Control Min at Highland Eco |
| 71 | HIECO_VALU_FAN1_MAX | | | 120 | | | | 0-255 | FAN1 Control Max at Highland Eco |
| 72 | HIECO_VALU_FAN2_MIN | | | 91 | | | | 0-255 | FAN2 Control Min at Highland Eco |
| 73 | HIECO_VALU_FAN2_MAX | | | 91 | | | | 0-255 | FAN2 Control Max at Highland Eco |
| 74 | CLNOR_TEMP_FAN1_MIN | | | 46 | | | | 0-255 | FAN1 Control start temp.at Ceiling Normal |
| 75 | CLNOR_TEMP_FAN1_MAX | | | 50 | | | | 0-255 | FAN1 Control end temp. at Ceiling Normal |
| 76 | CLNOR_TEMP_FAN2_MIN | | | 46 | | | | 0-255 | FAN2 Control start temp.at Ceiling Normal |
| 77 | CLNOR_TEMP_FAN2_MAX | | | 50 | | | | 0-255 | FAN2 Control end temp. at Ceiling Normal |
| 78 | CLNOR_VALU_FAN1_MIN | | | 72 | | | | 0-255 | FAN1 Control Min at Ceiling Normal (0:0V, 255:25.5V) |
| 79 | CLNOR_VALU_FAN1_MAX | | | 135 | | | | 0-255 | FAN1 Control Max at Ceiling Normal |
| 80 | CLNOR_VALU_FAN2_MIN | | | 80 | | | | 0-255 | FAN2 Control Min at Ceiling Normal |
| 81 | CLNOR_VALU_FAN2_MAX | | | 130 | | | | 0-255 | FAN2 Control Max at Ceiling Normal |
| 82 | CLECO_TEMP_FAN1_MIN | | | 47 | | | | 0-255 | FAN1 Control start temp.at Ceiling Eco |
| 83 | CLECO_TEMP_FAN1_MAX | | | 50 | | | | 0-255 | FAN1 Control end temp. at Ceiling Eco |
| 84 | CLECOTEMP_FAN2_MIN | | | 47 | | | | 0-255 | FAN2 Control start temp.at Ceiling Eco |
| 85 | CLECO_TEMP_FAN2_MAX | | | 50 | | | | 0-255 | FAN2 Control end temp. at Ceiling Eco |
| 86 | CLECO_VALU_FAN1_MIN | | | 55 | | | | 0-255 | FAN1 Control Min at Ceiling Eco |
| 87 | CLECO_VALU_FAN1_MAX | | | 115 | | | | 0-255 | FAN1 Control Max at Ceiling Eco |
| 88 | CLECO_VALU_FAN2_MIN | | | 62 | | | | 0-255 | FAN2 Control Min at Ceiling Eco |
| 89 | CLECO_VALU_FAN2_MAX | | | 86 | | | | 0-255 | FAN2 Control Max at Ceiling Eco |
| 90 | FAN_1_AUTO_ADJ | | | - | | | | 0-1 | 0: OFF(Manual) 1:ON(Auto) |
| 91 | FAN_2_AUTO_ADJ | | | - | | | | 0-1 | 0: OFF(Manual) 1:ON(Auto) |
| 92 | FACTORY_STD_FAN_VOL_MIN | | | 52 | | | | 0-255 | For Factory |
| 93 | FACTORY_STD_FAN_VOL_MAX | | | 135 | | | | 0-255 | For Factory |
| 94 | FAN1_ADJUST_VOLT_MIN | | | 22 | | | | | For Factory ※: Fan ControlAdj. |
| 95 | FAN1_ADJUST_VOLT_MAX | | | 203 | | | | | For Factory |
| 96 | FAN2_ADJUST_VOLT_MIN | | | 22 | | | | 0-255 | For Factory ※: Fan ControlAdj. |
| 97 | FAN2_ADJUST_VOLT_MAX | | | 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 | | | | 1-60 | Change cycle of voltage at Dimmer |
| 104 | Dimmer Average Check Period | | | 10 | | | | 1-30 | Measurement time of Dimmer average |
| 105 | Dimmer Voltage Change Rate | | | 1 | | | | 1-50 | 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 |
| 109 | CoolingSwitch | | | 1 | | | | | 0:Cooling-less 1:Cooling |
| 110 | OnStart_Cooling_Start_Temp | | | 38 | | | | 0-100 | |
| Group 200 | Auto Calibration | | | | | | | | |
| 0 | Execute Calibration | PW186 | | 0 | | | | 0 - 255 | Auto executing when value changes |
| 1 | Loop Count | PW186 | | 3 | | | | 1 - 30 | Loop times of Auto Calibration |
| 2 | OFFSET AREA H START | PW186 | | 25 | | | | 0 - 4095 | Black Level Acquire area H-Start Position |
| 3 | OFFSET AREA V START | PW186 | | 500 | | | | 0 - 4095 | Black Level Acquire area V-Start Position |
| 4 | GAIN AREA H START | PW186 | | 975 | | | | 0 - 4095 | White Level Acquire area H-Start Position |
| 5 | GAIN AREA V START | PW186 | | 500 | | | | 0 - 4095 | White Level Acquire area V-Start Position |
| 6 | Image AREA H WIDTH | PW186 | | 13 | | | | 0 - 4095 | Black/White Level Acquire area |
| 7 | Image AREA V HIGHT | PW186 | | 9 | | | | 0 - 4095 | Black/White Level Acquire area Height |
| 8 | OFFSET target | PW186 | | 1 | | | | 0 - 127 | Target for Black Level Adj. |
| 9 | OFFSEt torelance | PW186 | | 1 | | | | 1 - 127 | Allowence Range for Black Level Adj |

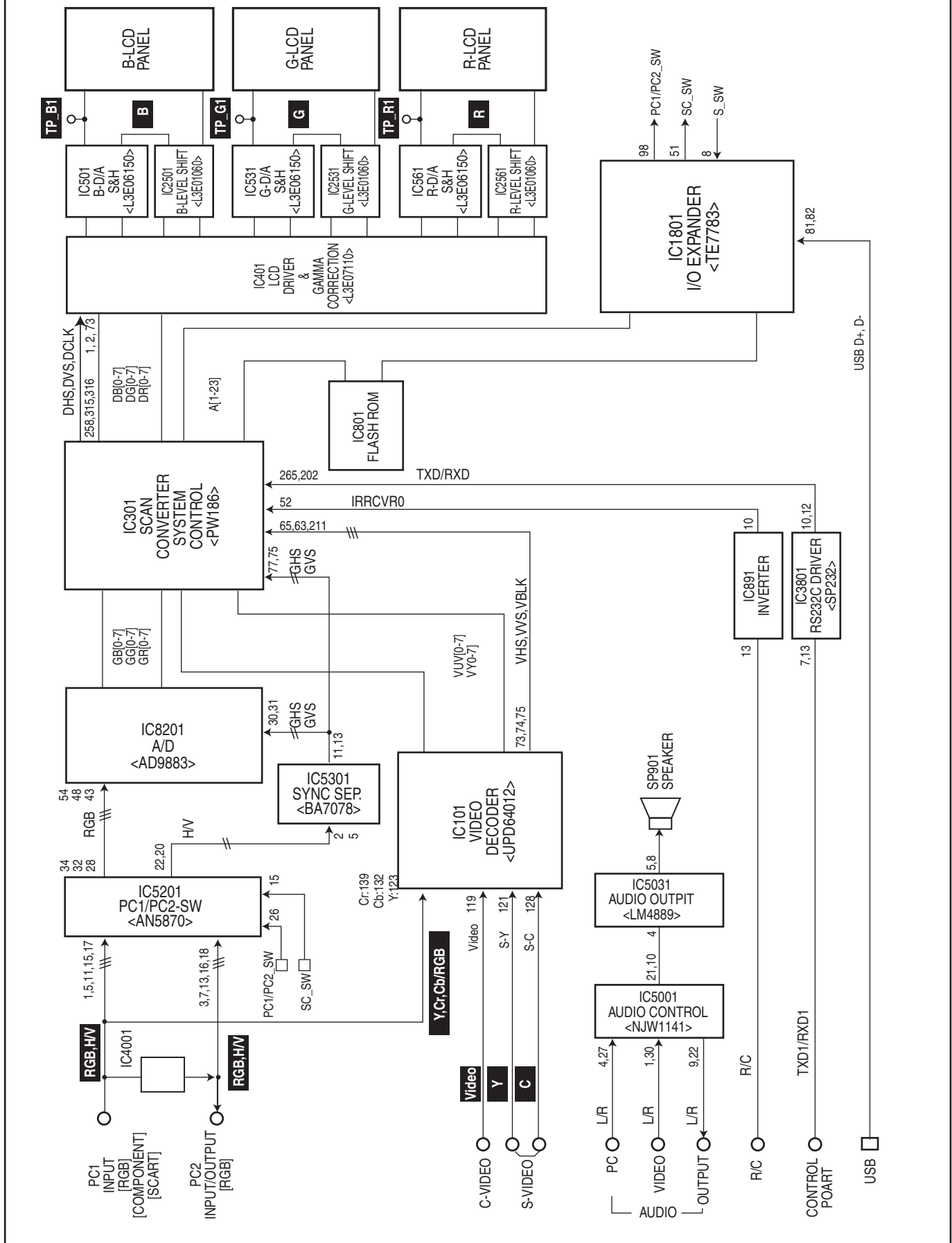
| Item No. | NAME | Device | XGA | | | | | Range | Description |
|-----------|-----------------------------------|--------|-----|-----------|------|-------|-----------|--|-------------|
| | | | PC | Component | | Video | | | |
| | | | | HDTV | 480p | 480i | NTSC | | |
| 10 | GAIN target | PW186 | | 244 | | | 0 - 255 | Target for White Level Adj. | |
| 11 | GAIN tolerance | PW186 | | 1 | | | 1 - 255 | Allowance Range for White Level Adj | |
| 12 | Offset Area Average [Red] | PW186 | | 0 | | | 0 - 255 | Read Only | |
| 13 | Offset Area Average [Green] | PW186 | | 0 | | | 0 - 255 | Read Only | |
| 14 | Offset Area Average [Blue] | PW186 | | 0 | | | 0 - 255 | Read Only | |
| 15 | Gain Area Average [Red] | PW186 | | 0 | | | 0 - 255 | Read Only | |
| 16 | Gain Area Average [Green] | PW186 | | 0 | | | 0 - 255 | Read Only | |
| 17 | Gain Area Average [Blue] | PW186 | | 0 | | | 0 - 255 | Read Only | |
| 18 | Image LevelUpdate [OFFSET] | PW186 | | 0 | | | 0 - 255 | Upadte item 12/13, Link to item 14 | |
| Group 290 | Panel Type | | | | | | | | |
| 0 | Gamma L/R-Check | EP7110 | | 0 | | | 0 - 20 | 0: Gamma for L-Panel, 20: Gamma for R-Panel (Read only) | |
| 1 | Gamma L/R-Change | EP7110 | | 10 | | | 0 - 20 | Change for R-Panel when the value is set to 20. Change for L-Panel when the value is set to 0. | |
| Group 300 | General DeInterlacer | | | | | | | | |
| 1 | 3:2 PullDown Mode | PW186 | | 1 | | | 1 - 3 | bit 0 : Global Motion Enable (FILMODEN23 GMD) bit 1 : Video Motion(VOFMODEN) | |
| 2 | Detect Film Mode Enable | PW186 | | 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 | PW186 | | 40 | | | 0 - 255 | Progressive L1 Param | |
| 1 | Motion Adaptive Weight Value L2 | PW186 | | 2 | | | 0 - 255 | Progressive L2 Param | |
| 2 | Motion Adaptive Weight Value FILM | PW186 | | 30 | | | 0 - 255 | KDEINT | |
| Group 302 | Low Angle Interporation (LAI) | | | | | | | | |
| 0 | Angle Interpolation Level L1 | PW186 | | 4 | | | 0 - 4 | | |
| 1 | Angle Interpolation Level L2 | PW186 | | 2 | | | 0 - 4 | | |
| 2 | Angle Interpolation Level FILM | PW186 | | 4 | | | 0 - 4 | | |
| Group 311 | Noise Reduction L1 | | | | | | | | |
| 0 | Noise Pixel Range | PW186 | | 1 | | | 0 - 3 | <NSRANGEY> / <NSRANGEUV> | |
| 1 | Noise Region 0 | PW186 | | 12 | | | 0 - 1023 | <NSREGIONY0> / <NSREGIONUV0> | |
| 2 | Noise Region 1 | PW186 | | 24 | | | 0 - 1023 | <NSREGIONY1> / <NSREGIONUV1> | |
| 3 | Noise Region 2 | PW186 | | 40 | | | 0 - 1023 | <NSREGIONY2> / <NSREGIONUV2> | |
| 4 | Noise Gain Level | PW186 | | 90 | | | 0 - 1023 | <NSFILTERY**> / <NSFILTERUV**> | |
| Group 313 | Noise Reduction L2 | | | | | | | | |
| 0 | Noise Pixel Range | PW186 | | 1 | | | 0 - 3 | <NSRANGEY> / <NSRANGEUV> | |
| 1 | Noise Region 0 | PW186 | | 12 | | | 0 - 1023 | <NSREGIONY0> / <NSREGIONUV0> | |
| 2 | Noise Region 1 | PW186 | | 24 | | | 0 - 1023 | <NSREGIONY1> / <NSREGIONUV1> | |
| 3 | Noise Region 2 | PW186 | | 40 | | | 0 - 1023 | <NSREGIONY2> / <NSREGIONUV2> | |
| 4 | Noise Gain Level | PW186 | | 110 | | | 0 - 1023 | <NSFILTERY**> / <NSFILTERUV**> | |
| Group 320 | 2:2 Pull Down | | | | | | | | |
| 0 | 22Film Mode Sensitivity | PW186 | | 4 | | | 1 - 5 | Film Detection Sensitivity <FILMSTVT22> | |
| 1 | 22Film Mode Threshold Low | PW186 | | 80 | | | 0 - 32767 | <FILMTHRD22A> | |
| 2 | 22Film Mode Threshold High | PW186 | | 120 | | | 0 - 32767 | <FILMTHRD22B> | |
| 6 | Video Motion Window Start X | PW186 | | 10 | | | 0 - 2047 | | |
| 7 | Video Motion Window StopX | PW186 | | 10 | | | 0 - 2047 | | |
| 8 | Video Motion Window Start Y | PW186 | | 10 | | | 0 - 1023 | Window Setting of 22PullDown & Video Motion Sum calib. | |
| 9 | Video Motion Window StopY | PW186 | | 10 | | | 0 - 1023 | | |
| Group 321 | 3:2 PullDown | | | | | | | | |
| 0 | Global Motion Sensitivity | PW186 | | 4 | | | 1 - 5 | Film Detection Sensitivity <FILMSTVT23> | |
| 1 | Video Motion Sensitivity | PW186 | | 4 | | | 1 - 5 | Film Detection Sensitivity <VOFSTVT> | |
| 2 | Video Motion Threshold Low | PW186 | | 120 | | | 0 - 32767 | <VOFTHRDA> | |
| 3 | Video Motion Threshold High | PW186 | | 180 | | | 0 - 32767 | <VOFTHRDB> | |
| 4 | | | | | | | | | |
| 5 | 23Film Mode Threshold | PW186 | | 100 | | | 0 - 32767 | <FILMTHRD23> | |
| 6 | Global Motion Window Start X | PW186 | | 10 | | | 0 - 2047 | | |
| 7 | Global Motion Window Stop X | PW186 | | 10 | | | 0 - 2047 | | |
| 8 | Global Motion Window Start Y | PW186 | | 10 | | | 0 - 1023 | Window Setting of Global Motion Sum Calib. | |
| 9 | Global Motion Window Stop Y | PW186 | | 10 | | | 0 - 1023 | | |
| Group 500 | OverScan Video 480i | | | | | | | | |
| 1 | Disp Dots (HRES) | PW186 | | 668 | | | | Horizontal Resolution | |
| 2 | Horz Back Porch (HPOS) | PW186 | | 78 | | | | Horizontal Back Porch | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 48 | | | | Vertical Back Porch | |
| 4 | Disp Line (VRES) | PW186 | | 458 | | | | Vertical Resolution | |
| Group 502 | OverScan Video 575i | | | | | | | | |
| 1 | Disp Dots (HRES) | PW186 | | 658 | | | | Horizontal Resolution | |
| 2 | Horz Back Porch (HPOS) | PW186 | | 94 | | | | Horizontal Back Porch | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 64 | | | | Vertical Back Porch | |
| 4 | Disp Line (VRES) | PW186 | | 536 | | | | Vertical Resolution | |
| Group 520 | OverScan HDTV 480i | | | | | | | | |
| 1 | Disp Dots (HRES) | PW186 | | 670 | | | | Horizontal Resolution | |

| Item No. | NAME | Device | XGA | | | | Range | Description | |
|-----------|--------------------------|--------|-----|-----------|------|-------|------------------------|-------------|------|
| | | | PC | Component | | Video | | | |
| | | | | HDTV | 480p | 480i | | | NTSC |
| 2 | Horz Back Porch (HPOS) | PW186 | | 78 | | | Horizontal Back Porch | | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 50 | | | Vertical Back Porch | | |
| 4 | Disp Line (VRES) | PW186 | | 454 | | | Vertical Resolution | | |
| Group 522 | OverScan HDTV 575i | | | | | | | | |
| 1 | Disp Dots (HRES) | PW186 | | 650 | | | Horizontal Resolution | | |
| 2 | Horz Back Porch (HPOS) | PW186 | | 96 | | | Horizontal Back Porch | | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 64 | | | Vertical Back Porch | | |
| 4 | Disp Line (VRES) | PW186 | | 532 | | | Vertical Resolution | | |
| Group 524 | OverScan HDTV 480p | | | | | | | | |
| 0 | Total Dots(HTOTAL) | AD9883 | | 1317 | | | AD9883 PLL Div | | |
| 1 | Disp Dots (HRES) | PW186 | | 1050 | | | Horizontal Resolution | | |
| 2 | Horz Back Porch (HPOS) | PW186 | | 211 | | | Horizontal Back Porch | | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 48 | | | Vertical Back Porch | | |
| 4 | Disp Line (VRES) | PW186 | | 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) | PW186 | | 956 | | | Horizontal Resolution | | |
| 2 | Horz Back Porch (HPOS) | PW186 | | 234 | | | Horizontal Back Porch | | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 62 | | | Vertical Back Porch | | |
| 4 | Disp Line (VRES) | PW186 | | 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) | PW186 | | 1250 | | | Horizontal Resolution | | |
| 2 | Horz Back Porch (HPOS) | PW186 | | 306 | | | Horizontal Back Porch | | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 34 | | | Vertical Back Porch | | |
| 4 | Disp Line (VRES) | PW186 | | 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) | PW186 | | 1876 | | | Horizontal Resolution | | |
| 2 | Horz Back Porch (HPOS) | PW186 | | 248 | | | Horizontal Back Porch | | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 92 | | | Vertical Back Porch | | |
| 4 | Disp Line (VRES) | PW186 | | 1012 | | | Vertical Resolution | | |
| 5 | Clamp Pos | AD9883 | | 50 | | | AD9883 Clamp Placement | | |
| 6 | Clamp Width | AD9883 | | 31 | | | AD9883 Clamp Duration | | |
| Group 532 | OverScan HDTV 1080i 50Hz | | | | | | | | |
| 0 | Total Dots(HTOTAL) | AD9883 | | 2640 | | | AD9883 PLL Div | | |
| 1 | Disp Dots (HRES) | PW186 | | 1874 | | | Horizontal Resolution | | |
| 2 | Horz Back Porch (HPOS) | PW186 | | 250 | | | Horizontal Back Porch | | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 56 | | | Vertical Back Porch | | |
| 4 | Disp Line (VRES) | PW186 | | 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) | PW186 | | 1874 | | | Horizontal Resolution | | |
| 2 | Horz Back Porch (HPOS) | PW186 | | 250 | | | Horizontal Back Porch | | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 54 | | | Vertical Back Porch | | |
| 4 | Disp Line (VRES) | PW186 | | 1054 | | | 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) | PW186 | | 616 | | | Horizontal Resolution | | |
| 2 | Horz Back Porch (HPOS) | PW186 | | 130 | | | Horizontal Back Porch | | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 54 | | | Vertical Back Porch | | |
| 4 | Disp Line (VRES) | PW186 | | 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) | PW186 | | 718 | | | Horizontal Resolution | | |
| 2 | Horz Back Porch (HPOS) | PW186 | | 180 | | | Horizontal Back Porch | | |
| 3 | Vert Back Porch (VPOS) | PW186 | | 66 | | | Vertical Back Porch | | |
| 4 | Disp Line (VRES) | PW186 | | 536 | | | Vertical Resolution | | |

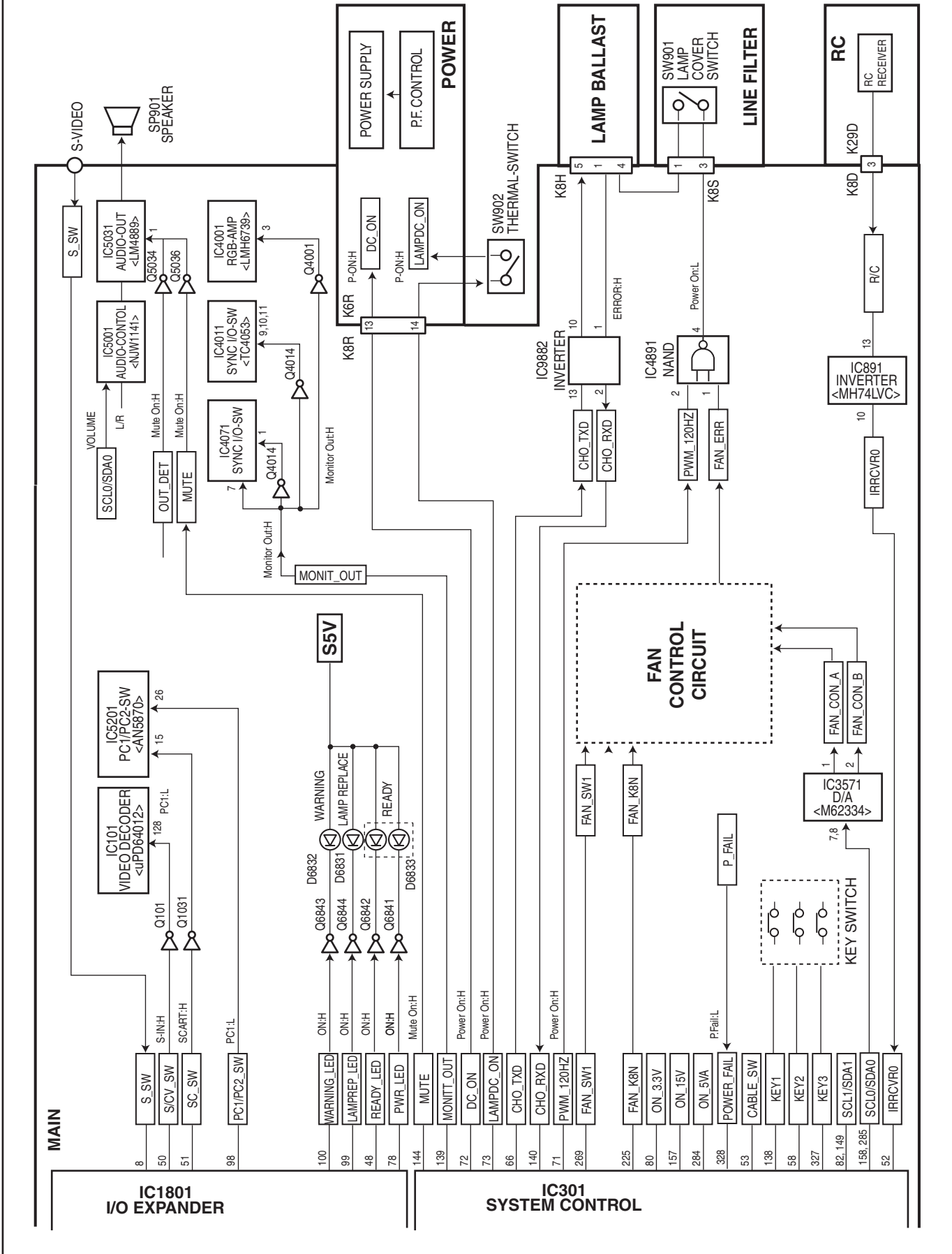
| Item No. | NAME | Device | XGA | | | | | Range | Description |
|-----------|-------------------------|--------|-----|-----------|------|-------|------|------------------------|-------------|
| | | | PC | Component | | Video | | | |
| | | | | HDTV | 480p | 480i | NTSC | | |
| 5 | Clamp Pos | AD9883 | | | 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) | PW186 | | | 958 | | | Horizontal Resolution | |
| 2 | Horz Back Porch (HPOS) | PW186 | | | 192 | | | Horizontal Back Porch | |
| 3 | Vert Back Porch (VPOS) | PW186 | | | 48 | | | Vertical Back Porch | |
| 4 | Disp Line (VRES) | PW186 | | | 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) | PW186 | | | 912 | | | Horizontal Resolution | |
| 2 | Horz Back Porch (HPOS) | PW186 | | | 224 | | | Horizontal Back Porch | |
| 3 | Vert Back Porch (VPOS) | PW186 | | | 62 | | | Vertical Back Porch | |
| 4 | Disp Line (VRES) | PW186 | | | 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) | PW186 | | | 1250 | | | Horizontal Resolution | |
| 2 | Horz Back Porch (HPOS) | PW186 | | | 306 | | | Horizontal Back Porch | |
| 3 | Vert Back Porch (VPOS) | PW186 | | | 34 | | | Vertical Back Porch | |
| 4 | Disp Line (VRES) | PW186 | | | 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) | PW186 | | | 1874 | | | Horizontal Resolution | |
| 2 | Horz Back Porch (HPOS) | PW186 | | | 250 | | | Horizontal Back Porch | |
| 3 | Vert Back Porch (VPOS) | PW186 | | | 92 | | | Vertical Back Porch | |
| 4 | Disp Line (VRES) | PW186 | | | 1012 | | | Vertical Resolution | |
| 5 | Clamp Pos | AD9883 | | | 48 | | | AD9883 Clamp Placement | |
| 6 | Clamp Width | AD9883 | | | 31 | | | AD9883 Clamp Duration | |
| Group 552 | OverScan RGB 1080i 50Hz | | | | | | | | |
| 0 | Total Dots(HTOTAL) | AD9883 | | | 2640 | | | AD9883 PLL Div | |
| 1 | Disp Dots (HRES) | PW186 | | | 1874 | | | Horizontal Resolution | |
| 2 | Horz Back Porch (HPOS) | PW186 | | | 250 | | | Horizontal Back Porch | |
| 3 | Vert Back Porch (VPOS) | PW186 | | | 56 | | | Vertical Back Porch | |
| 4 | Disp Line (VRES) | PW186 | | | 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) | PW186 | | | 1874 | | | Horizontal Resolution | |
| 2 | Horz Back Porch (HPOS) | PW186 | | | 250 | | | Horizontal Back Porch | |
| 3 | Vert Back Porch (VPOS) | PW186 | | | 54 | | | Vertical Back Porch | |
| 4 | Disp Line (VRES) | PW186 | | | 1054 | | | Vertical Resolution | |
| 5 | Clamp Pos | AD9883 | | | 48 | | | AD9883 Clamp Placement | |
| 6 | Clamp Width | AD9883 | | | 31 | | | AD9883 Clamp Duration | |
| Group 560 | OverScan Scart 480i | | | | | | | | |
| 1 | Disp Dots (HRES) | PW186 | | | 674 | | | Horizontal Resolution | |
| 2 | Horz Back Porch (HPOS) | PW186 | | | 78 | | | Horizontal Back Porch | |
| 3 | Vert Back Porch (VPOS) | PW186 | | | 46 | | | Vertical Back Porch | |
| 4 | Disp Line (VRES) | PW186 | | | 458 | | | Vertical Resolution | |
| Group 562 | OverScan Scart 575i | | | | | | | | |
| 1 | Disp Dots (HRES) | PW186 | | | 656 | | | Horizontal Resolution | |
| 2 | Horz Back Porch (HPOS) | PW186 | | | 96 | | | Horizontal Back Porch | |
| 3 | Vert Back Porch (VPOS) | PW186 | | | 62 | | | Vertical Back Porch | |
| 4 | Disp Line (VRES) | PW186 | | | 536 | | | Vertical Resolution | |

Chassis Block Diagrams

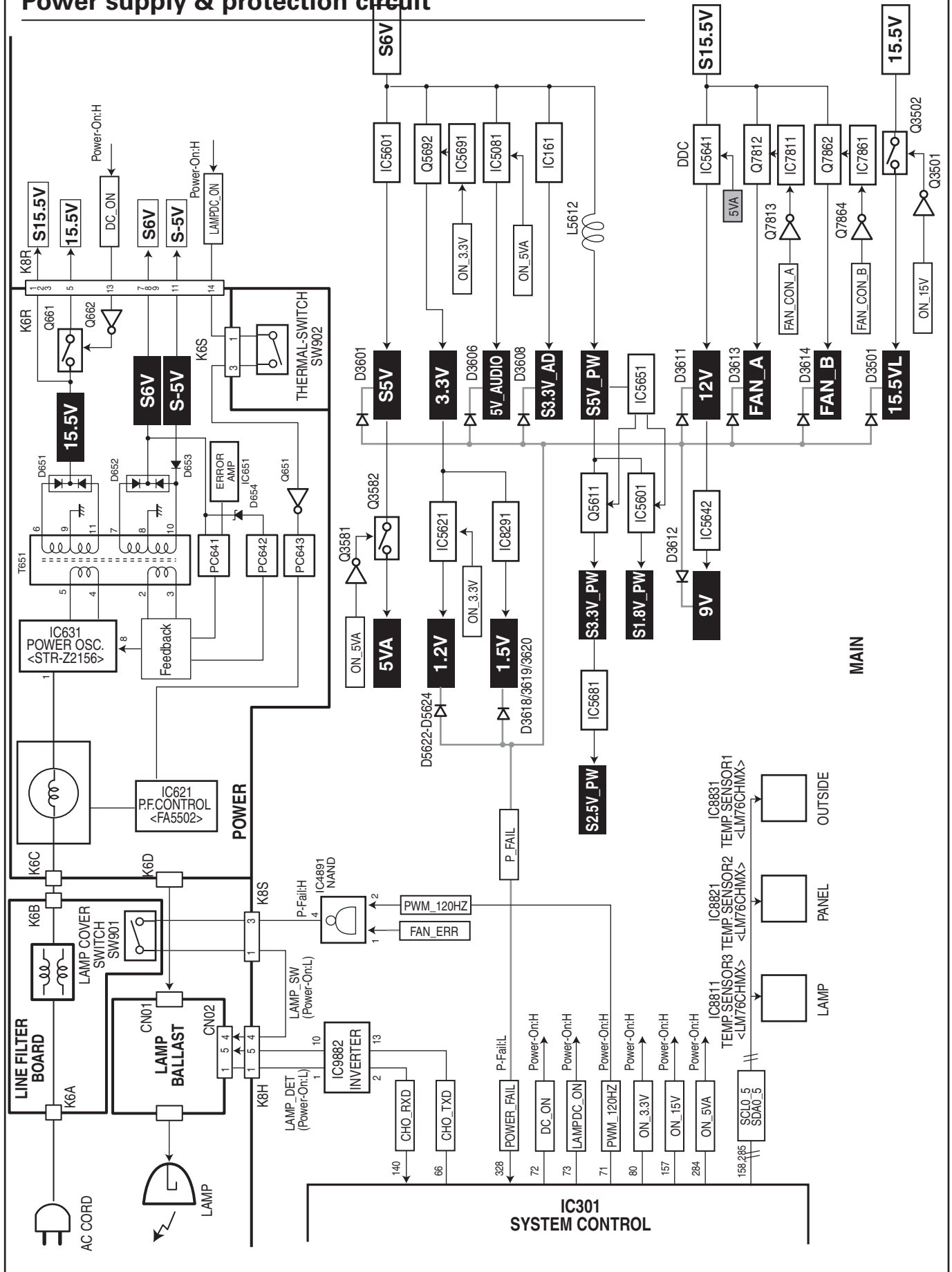
Chassis over view



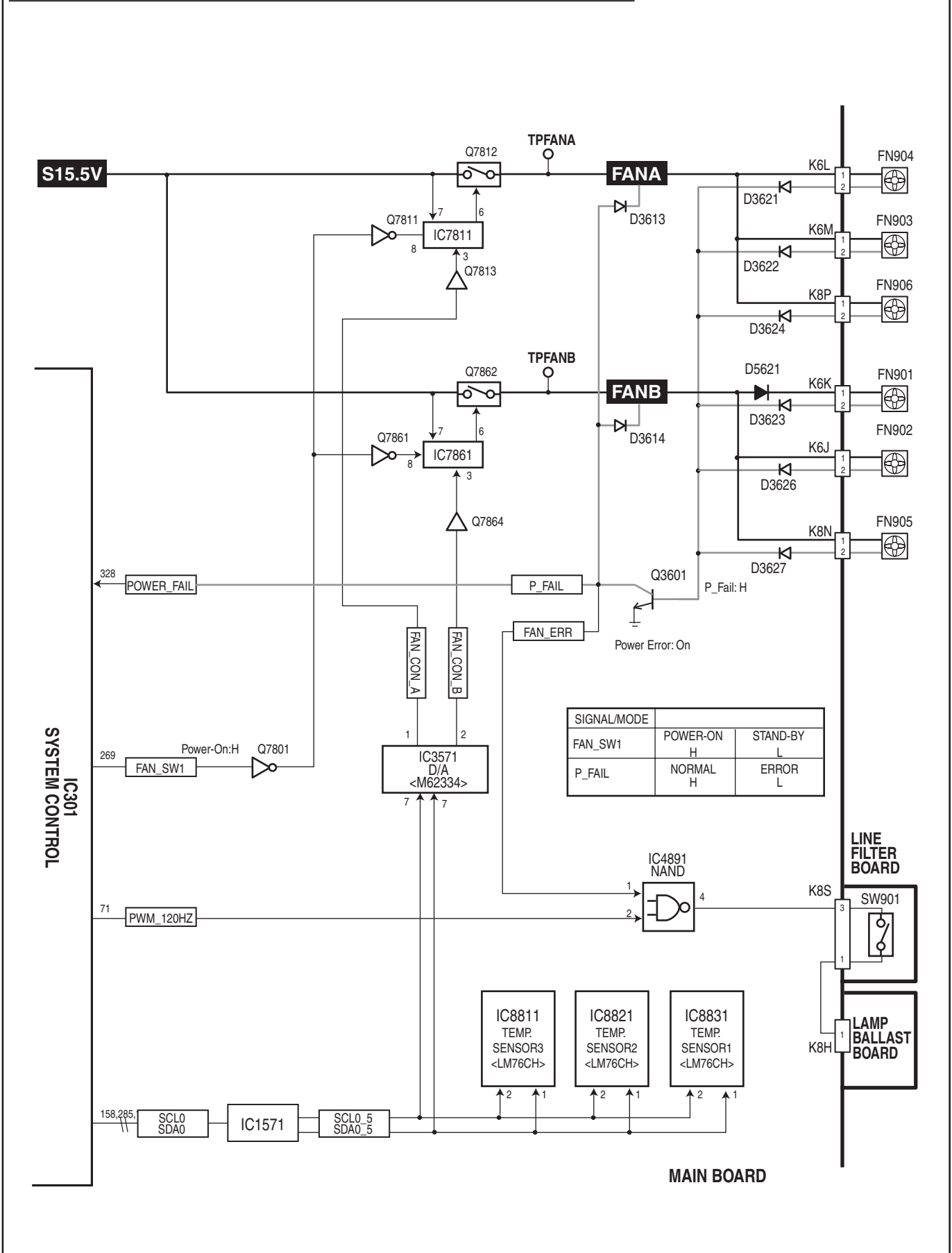
System control



Power supply & protection circuit



Fan control circuit



| SIGNAL/MODE | POWER-ON | STAND-BY |
|-------------|----------|----------|
| FAN_SW1 | H | L |
| P_FAIL | NORMAL | ERROR |
| | H | L |

MAIN BOARD

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 P_FAIL signal (Error: L) is sent to pin 382 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.

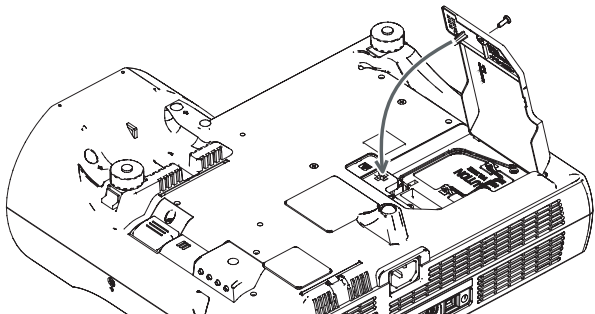
LAMPDC_ON signal (Power-on: H) is output from pin 73 of IC301 and supplied to the P.F Control IC, IC621, on the power supply board through Q651, and PC643.

PWM_20HZ signal (Power-on: H) is output from pin 71 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.

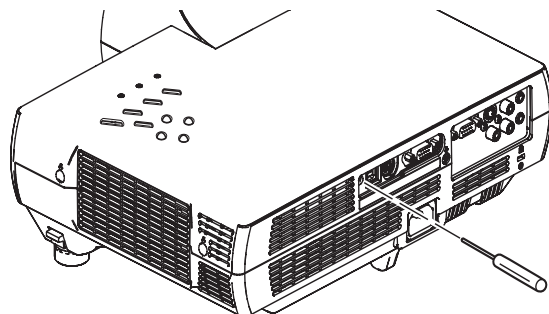
Lamp Cover switch

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).



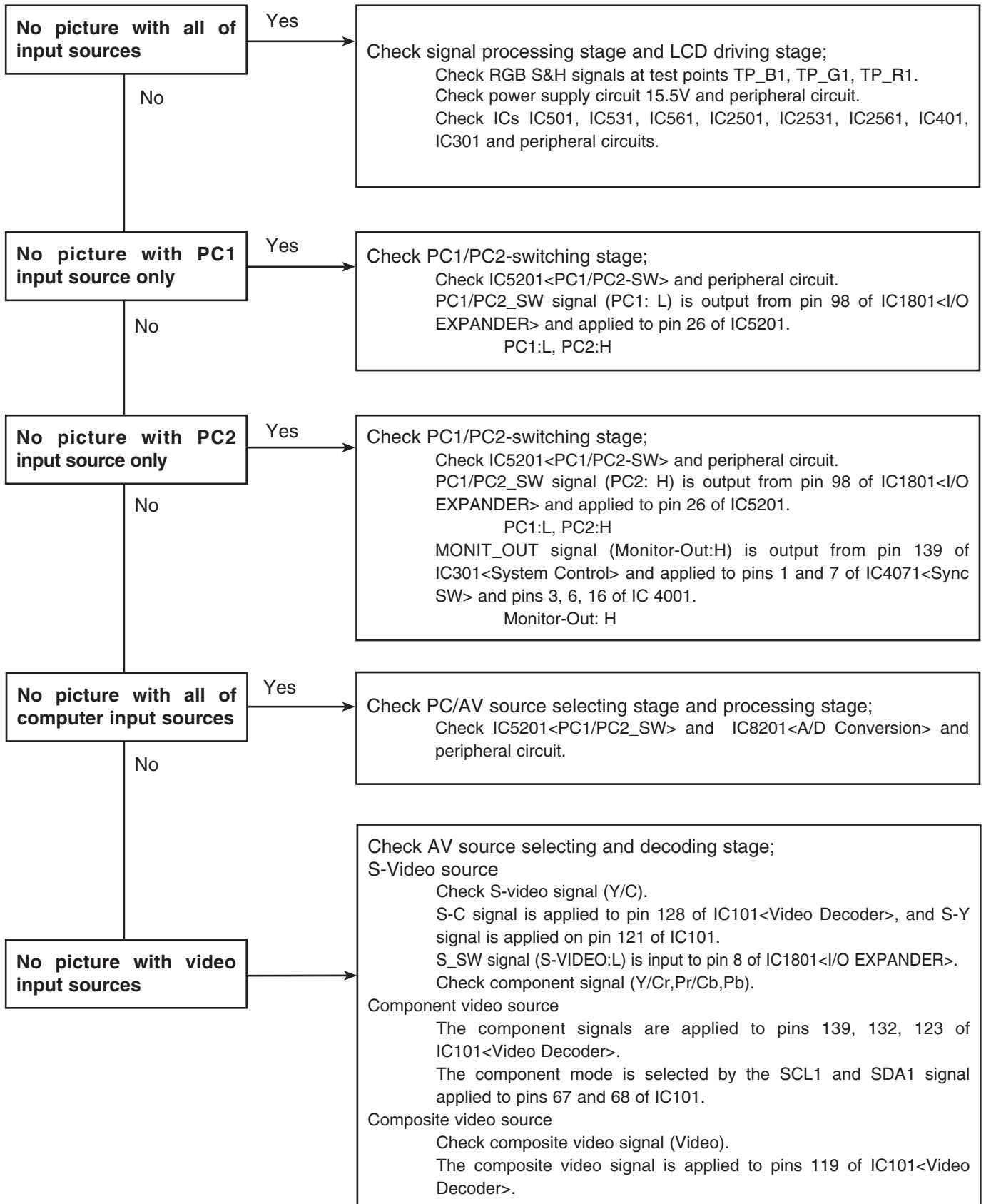
Reset switch

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.



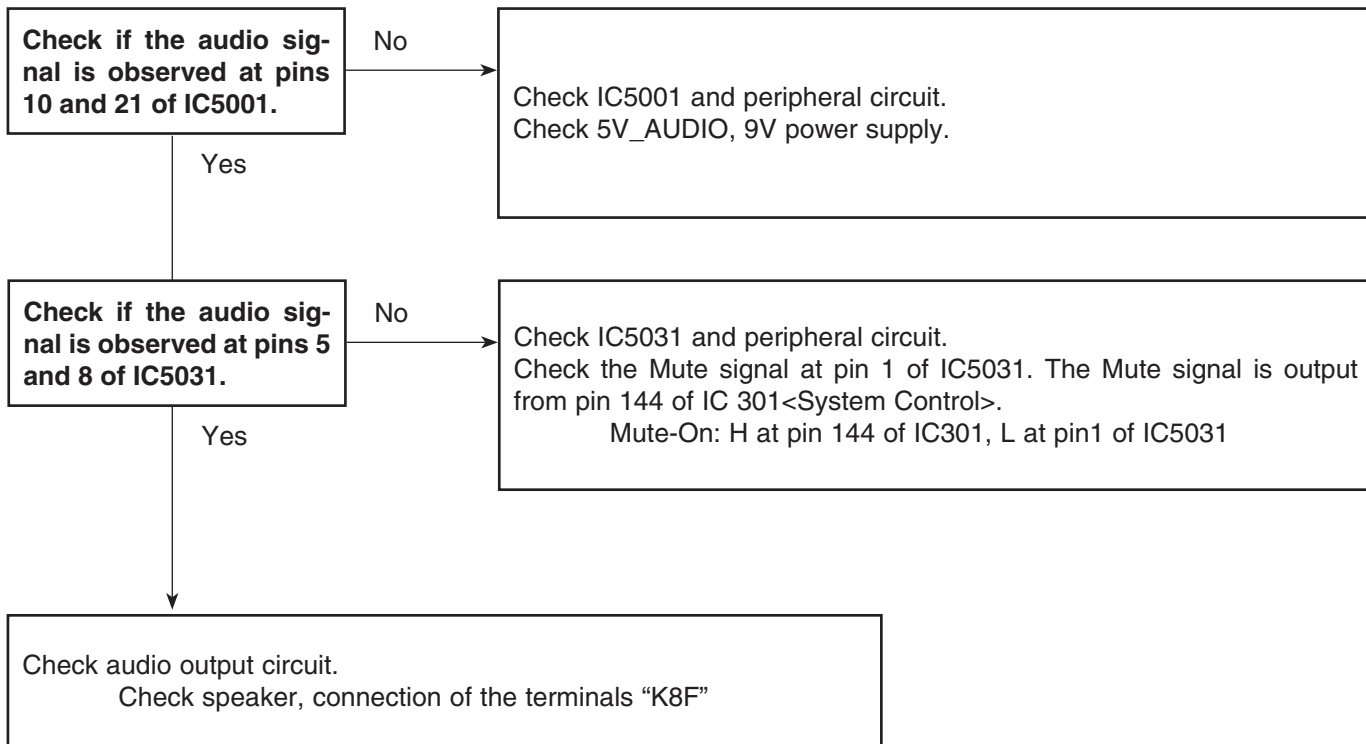
No Picture

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 |
|---------|----------|----------|-----------|----------------------------------|-----|
| 82 | D1 | IN0RO5 | SCL1_3 | IIC bus | I |
| 71 | R1 | | PWM_120HZ | Ballast Drive Power-On: H | O |
| 158 | E2 | IN0RO3 | SCL0 | IIC bus | I |
| 80 | F1 | IN0GO7 | ON_3.3V | 3.3V Drive On: H | O |
| 157 | F2 | IN0GO5 | ON_15V | 15V Drive On: H | O |
| 79 | G1 | IN0BO3 | PANEL_OPT | Panel Optioin H: XGA, L:SVGA | I |
| 225 | G3 | IN0GO9 | FAN_K8N | Fan Drive On: H | O |
| 286 | G4 | IN0RO6 | SDA | IIC bus | I/O |
| 155 | H2 | IN0BO4 | CARD_IN | | I |
| 285 | H4 | IN0RO2 | SDA0 | IIC bus | I/O |
| 77 | J1 | IN0VS | GVS | V-Sync Input | I |
| 223 | J3 | IN0HS | GFBK | | I |
| 284 | J4 | IN0GO8 | ON_5VA | 5VA Drive On: H | O |
| 76 | K1 | IN0BO5 | W_LAN_IN | Wireless LAN Option | I |
| 153 | K2 | IN0CST | GCOAST | | I |
| 222 | K3 | IN0CLP | GBLKSPL | | I |
| 75 | L1 | IN0AHS | GHS | H-Sync Input | I |
| 282 | L4 | IN0CLK | GCLK | | I |
| 151 | M2 | | SCL | | I |
| 73 | N1 | IN0GO6 | LAMPDC_ON | On: H | O |
| 72 | P1 | IN0GO2 | DC_ON | On: H | O |
| 149 | P2 | IN0RO4 | SDA1_3 | IIC bus | I/O |
| 278 | R4 | IN1PEN | VPEN | | I |
| 216 | T3 | IN1R9 | SCS | | I |
| 215 | U3 | IN1CLK | VCLK | | I |
| 328 | V5 | | P_FAIL | Power Failure Detection input | I |
| 327 | V6 | ADC2 | KEY3 | Key Input | I |
| 326 | V7 | XO | XO | | O |
| 316 | V17 | DCLK | DCLK | Clock Output | O |
| 315 | V18 | DHS | DHS | H-Sync Output | O |
| 258 | V19 | DVS | DVS | V-Sync Output | O |
| 144 | W2 | IN1R5 | MUTE | Audio Mute Output Mute-On: H | O |
| 271 | W7 | XI | XI | | I |
| 269 | W9 | PORTA6 | FAN_SW1 | Fan Control Switch Output | O |
| 267 | W11 | | I/O RESET | Reset for I/O | O |
| 266 | W12 | PORTB5 | SCL2 | IIC bus | I |
| 265 | W13 | TXD | TXD_PW | Serial Control TXD | O |
| 66 | Y1 | TXD1 | CHO_TXD | Ballast Control TXD | O |
| 212 | Y3 | IN1FIELD | VFIELD | | I |
| 211 | Y4 | IN1VBI | VBLK | | I |
| 209 | Y6 | LVDSSEN | LVDSSEN | | I |
| 207 | Y8 | NMI | NMI | | I |
| 206 | Y9 | PORTA0 | WARNING | Not used | O |
| 205 | Y10 | PORTB0 | PORTB0 | | I |
| 204 | Y11 | PORTB6 | PORTB6 | | I |
| 202 | Y13 | RXD | RXD_PW | Serial Control RXD | O |
| 65 | AA1 | IN1AHS | VHS | | I |
| 141 | AA3 | IN1R7 | IRM_RST | | O |
| 140 | AA4 | RXD1 | CHO_RXD | Ballast Control RXD | O |
| 139 | AA5 | IN1R6 | MONIT_OUT | Monitor Out Switch Montor-Out: H | O |
| 138 | AA6 | ADC0 | KEY1 | Key Input | I |
| 136 | AA8 | RESETB | RESET | Reset Input | I |
| 135 | AA9 | PORTA3 | PWR | Not used | O |
| 134 | AA10 | PORTA2 | READY | Not used | O |
| 133 | AA11 | | WAKEUP | | O |
| 63 | AB2 | IN1VS | VVS | | I |
| 59 | AB6 | IN1HS | VHS | H-Sync Input | I |
| 58 | AB7 | ADC1 | KEY2 | Key Input | I |
| 56 | AB9 | PORTB4 | SDA2 | IIC bus | I/O |
| 54 | AB11 | PORTA1 | LAMPER | Not used | O |
| 53 | AB12 | PORTA4 | CABLE_SW | | O |
| 52 | AB13 | IRRCVR0 | IRRCVR0 | 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 | READY_LED | Ready LED Drive H: On | 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 | | | |
| 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 |
| 76 | P35 | DDC_SW1 | | O |
| 77 | P36 | DDC_SW2 | | O |
| 79 | P39 | I/O_R/C | n/a | I |
| 81 | DMINUS | USB_D- | | I |
| 82 | DPLUS | ISB_D+ | | I |
| 91 | P11 | SCLK | | I |
| 92 | P12 | SDT | | I/O |
| 98 | P16 | PC1/PC2_SW | L: PC1, H: PC2 | O |
| 99 | P17 | LAMPREP_LED | LAMP REPLACE LDE Drive H: On | O |
| 100 | P18 | WARNING_LED | WARNING LED Drive H: On | O |

IIC Bus DA Converter Port Functions (IC3571)

| PIN NO. | NAME | FUNCTION | ACTION | I/O |
|---------|------|-----------|-----------------------------|-----|
| 1 | Ao1 | FAN_CON_A | Fan Control Voltage Output | O |
| 2 | Ao2 | FAN_CON_B | Fan CControl Voltage Output | O |
| 3 | Ao3 | Not used | | |
| 4 | Ao4 | Not used | | |
| 5 | GND | GND | GND | |
| 6 | SDA | SDA | IIC bus Data | I |
| 7 | SCL | SCL | IIC bus Clock | I |
| 8 | VCC | VCC | Vcc | I |

Waveform

| CVBS <TCV> | HSYNC signal <TGHS> | VSYNC signal <TVGS> |
|---|--|--|
| <p>CH1=200mV DC 10:1 CH2=5V DC 10:1 20us/div (20us/div) NORM:50MS/s VIDEO</p> <p>#Trace1= P-P 744.0mV #Trace2= P-P 3.400V GHS</p> | <p>CH1=1V DC 10:1 20us/div (20us/div) NORM:50MS/s GHS</p> <p>#Trace1= P-P 3.320V</p> | <p>CH2=1V DC 10:1 5ms/div (5ms/div) NORM:200K/s HVS</p> <p>#Trace2= P-P 3.280V</p> |
| HSYNC signal <TDHS> | VSYNC signal <TDVS> | |
| <p>CH2=1V DC 10:1 20us/div (20us/div) NORM:50MS/s DHS</p> <p>#Trace2= P-P 3.400V</p> | <p>CH2=1V DC 10:1 5ms/div (5ms/div) NORM:200K/s DVS</p> <p>#Trace2= P-P 3.480V</p> | |
| R-S&H signal <TP_R1> | G-S&H signal <TP_G1> | B-S&H signal <TP_B1> |
| <p>CH1=5V DC 10:1 CH2=5V DC 10:1 10us/div (10us/div) NORM:100MS/s B-OUT</p> <p>#Trace1= P-P 9.800V #Trace2= P-P 3.600V DHS</p> | <p>CH1=5V DC 10:1 CH2=5V DC 10:1 10us/div (10us/div) NORM:100MS/s G-OUT</p> <p>#Trace1= P-P 9.800V #Trace2= P-P 3.600V DHS</p> | <p>CH1=5V DC 10:1 CH2=5V DC 10:1 10us/div (10us/div) NORM:100MS/s R-OUT</p> <p>#Trace1= P-P 9.800V #Trace2= P-P 3.600V DHS</p> |
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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.

Projection Lens Cleaning



This projector is equipped with a plastic lens.

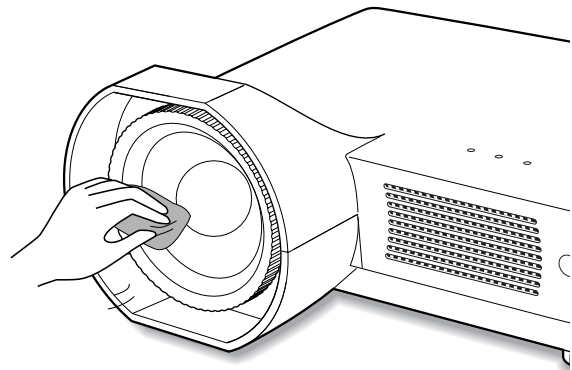
Do not rub with hard fiber cloth or do not hit the lens with something hard to prevent the lens from scratching.

Do not use chemical cleaner (liquid and solid) avoid deteriorating the lens.

1 Disconnect the AC power cord before cleaning.

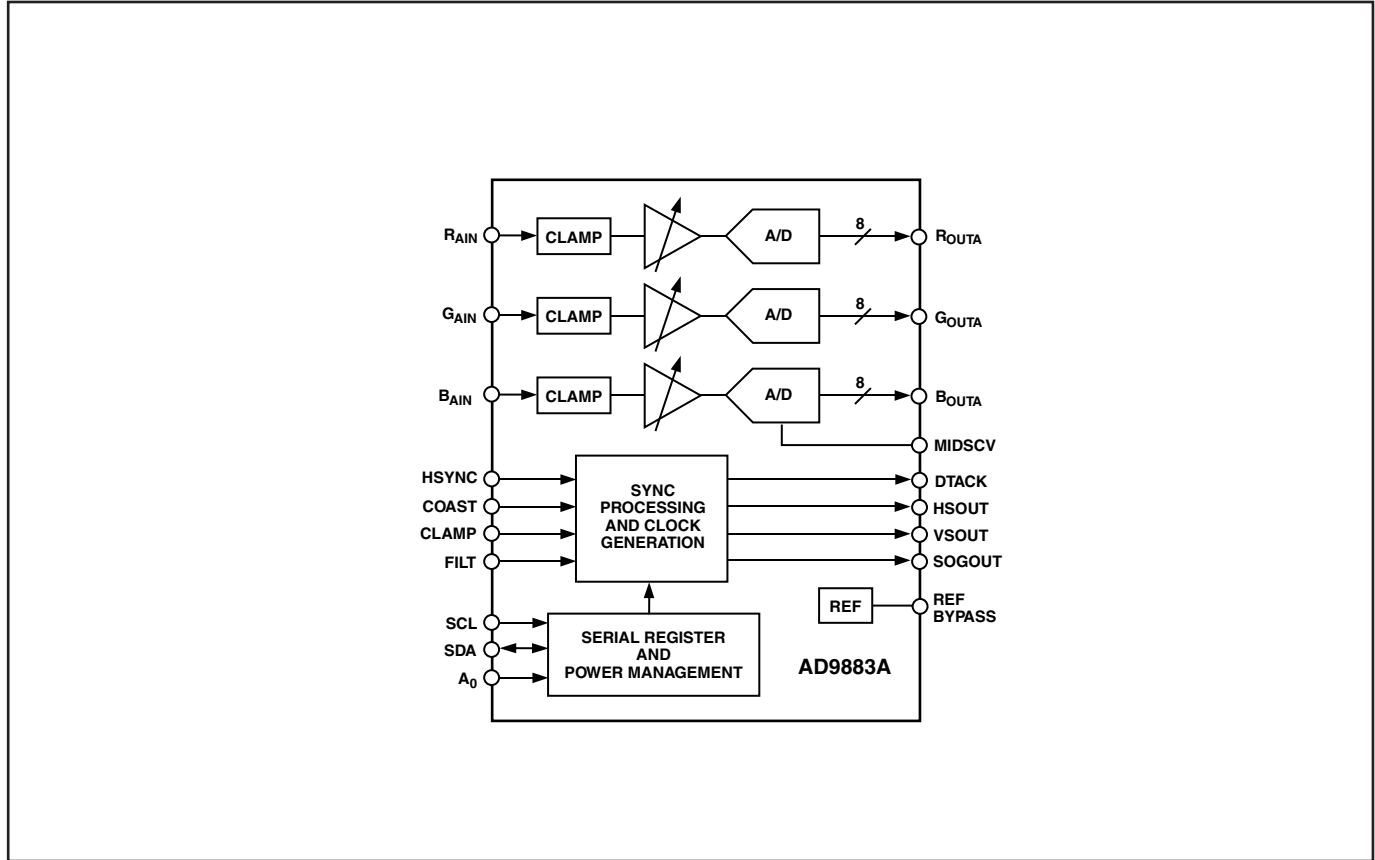
2 First, remove the dust with a blower. Then gently wipe the lens surface. Use a lens cleaning paper moistened with methyl alcohol (methanol). Avoid excessive use of cleaner. Do not use abrasive cleaners, solvents, or other harsh chemical cleaners not to damage the lens.

3 When the projector is not in use, replace the lens cover.

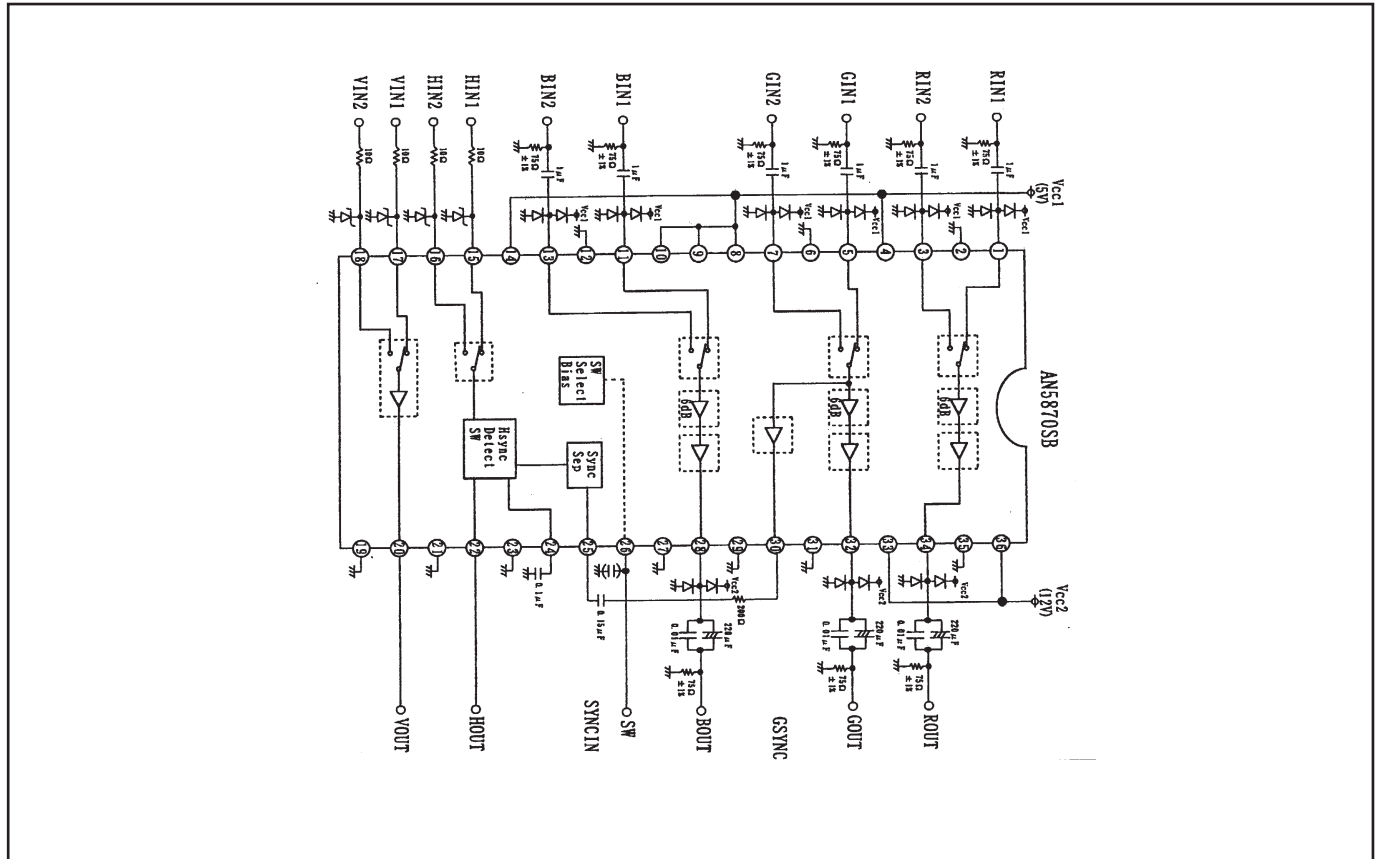


IC Block Diagrams

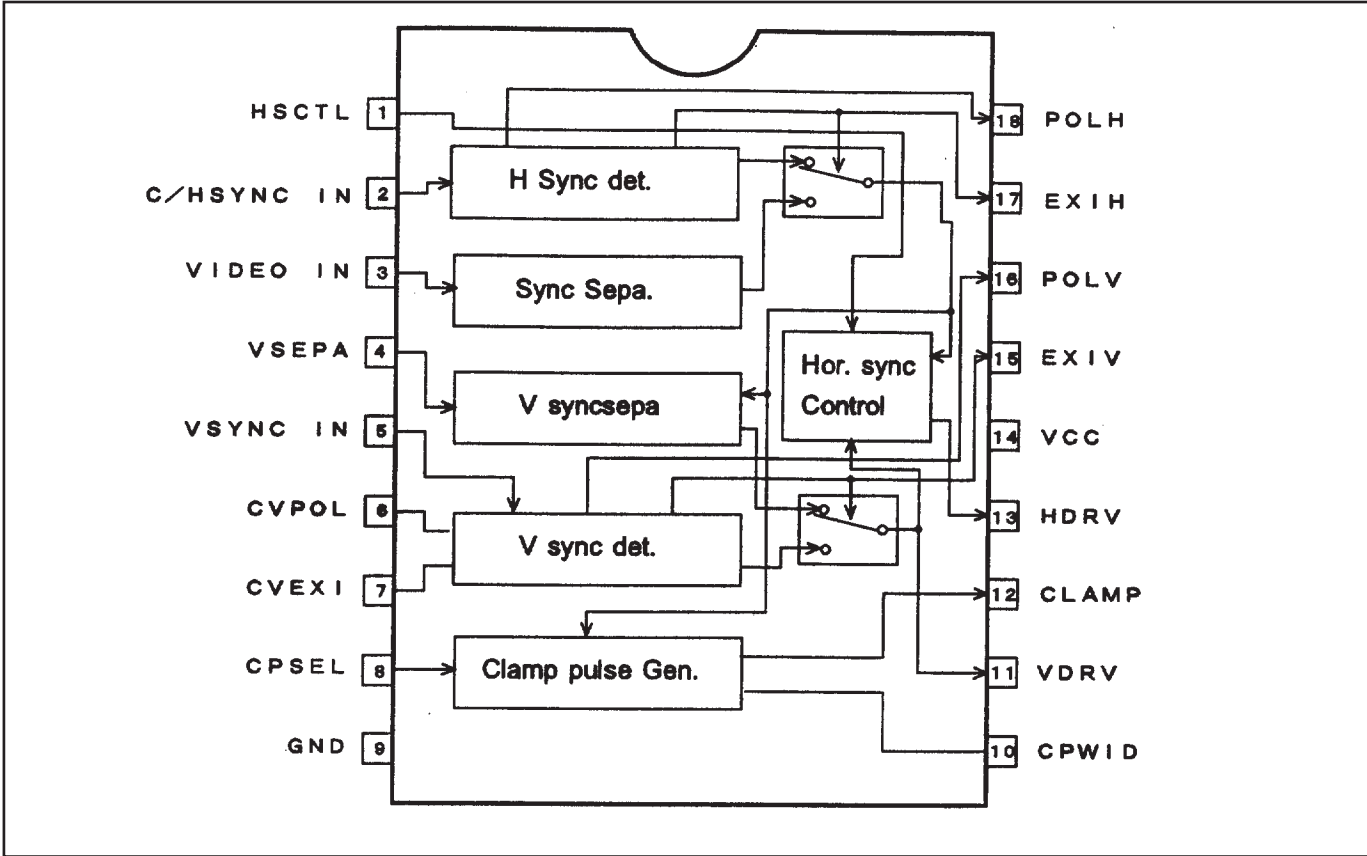
● AD9883 <A/D, IC8201>



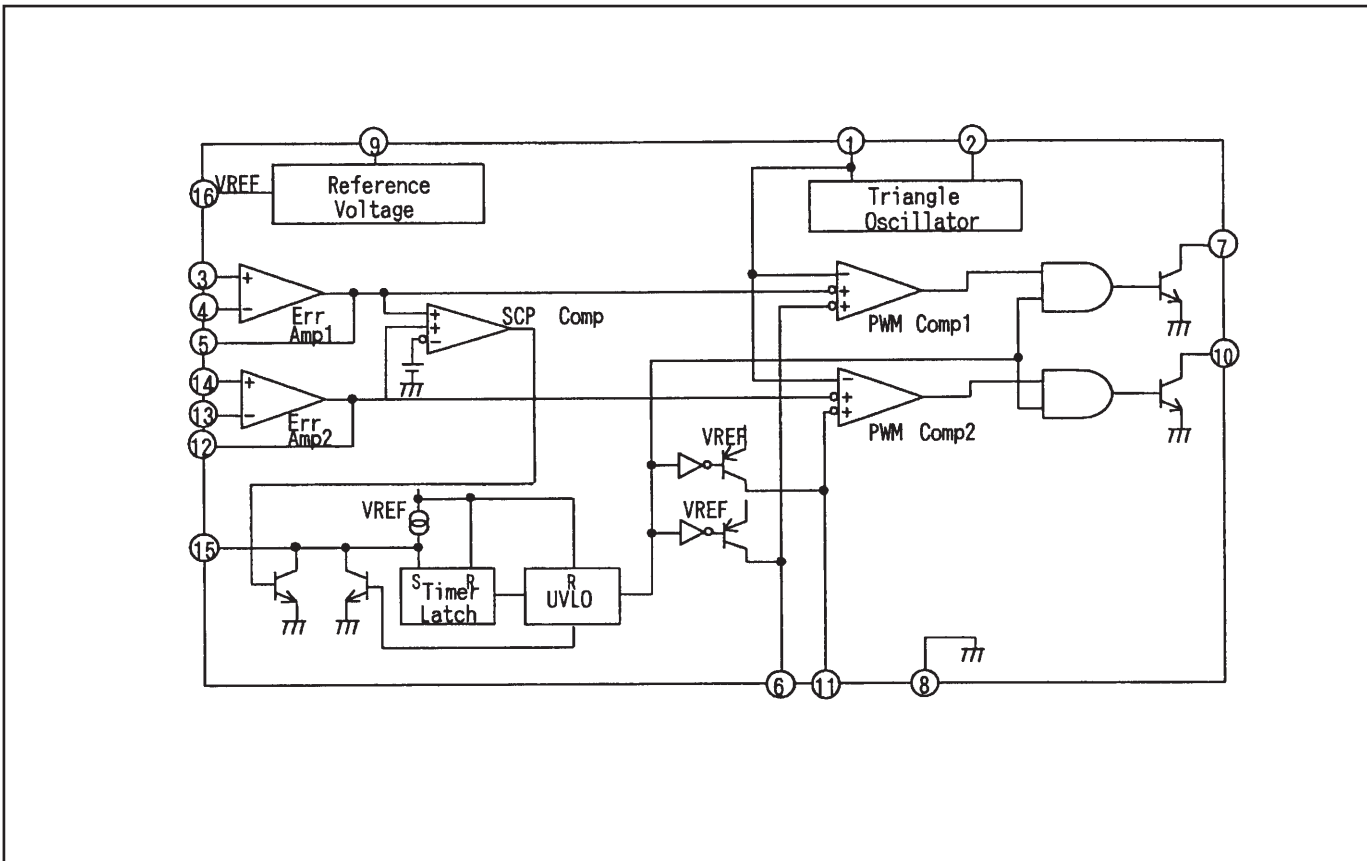
● AN5870 <RGB, SYNC-SW, IC5201>



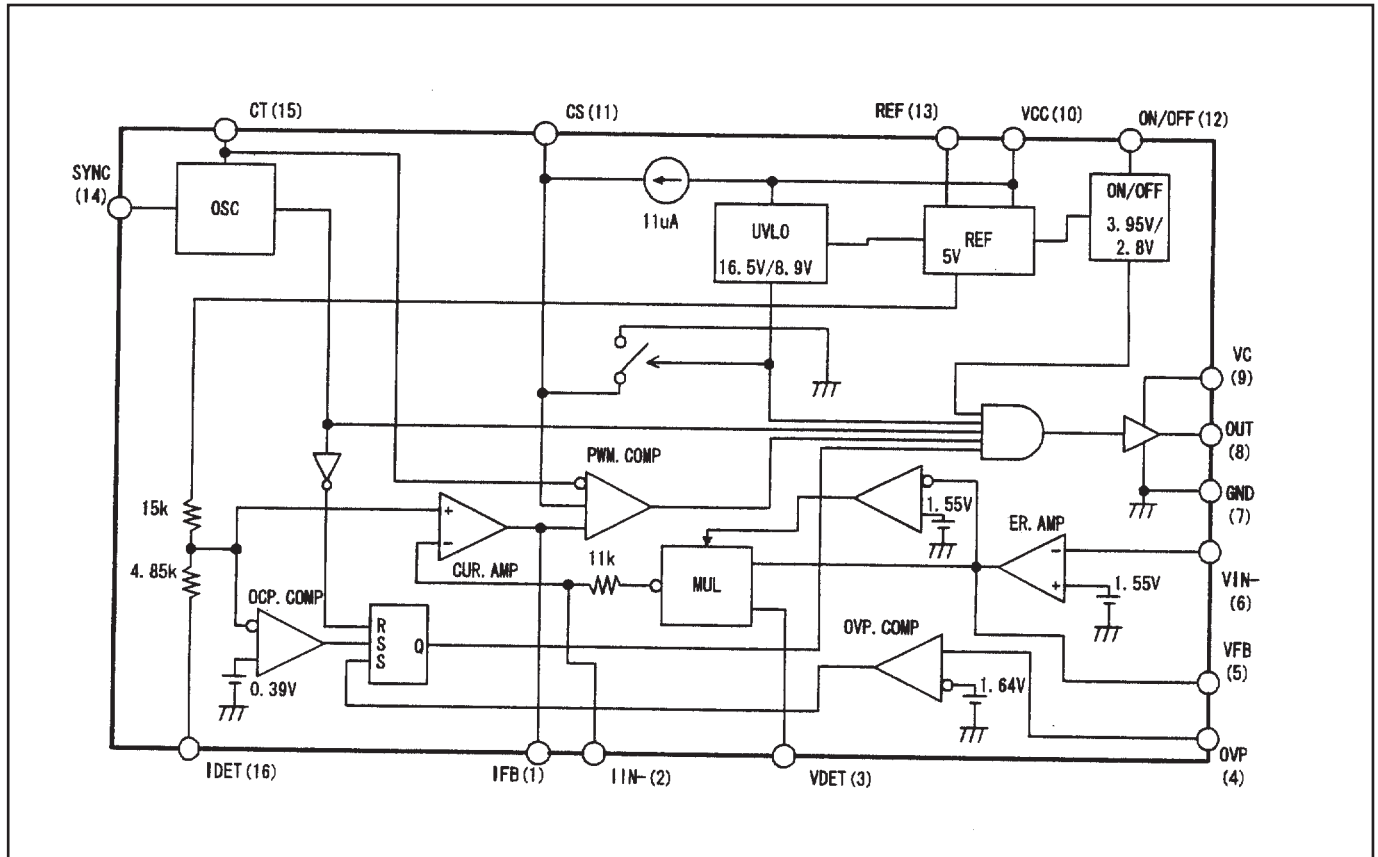
● BA7078 <Sync Separator, IC5301>



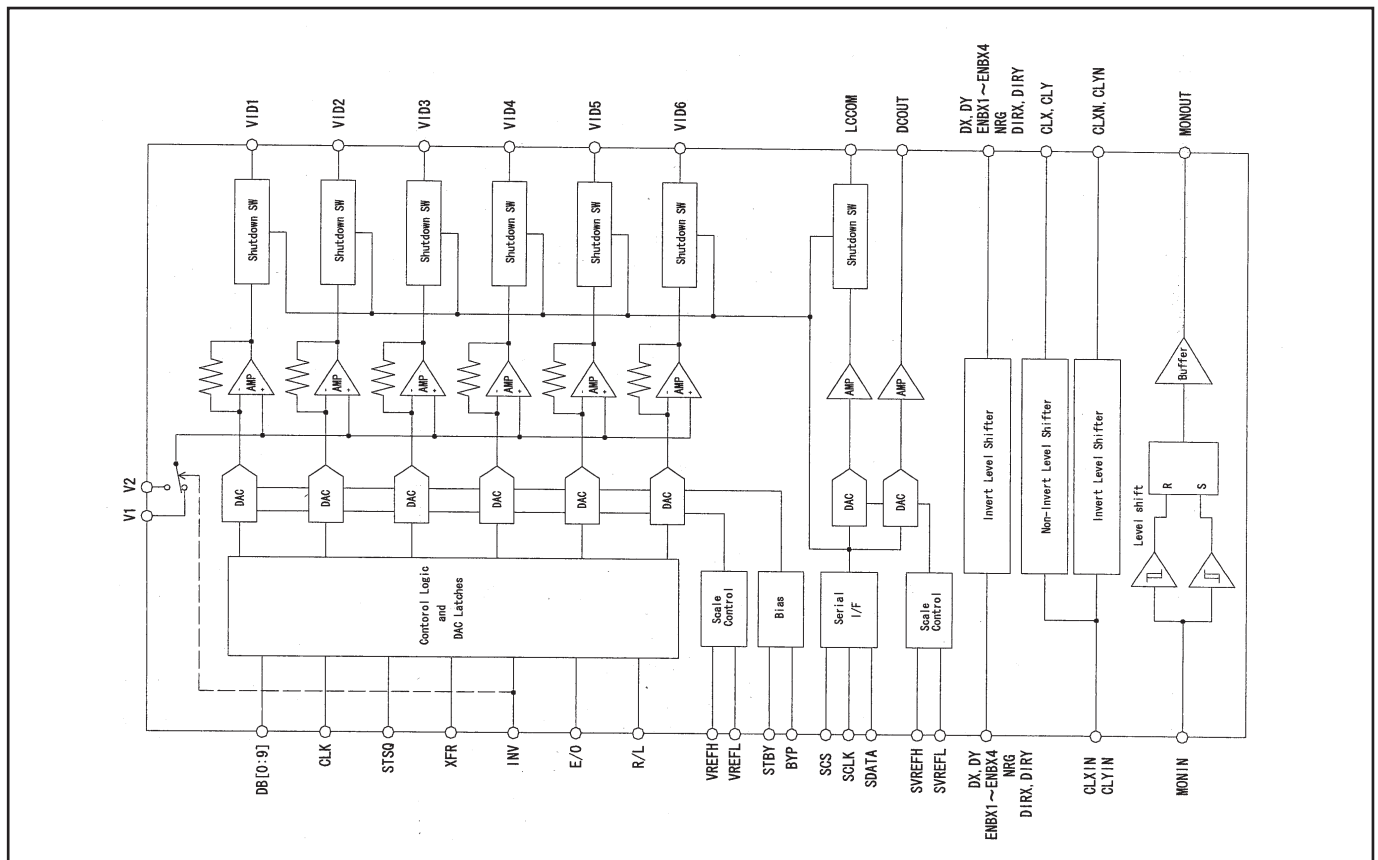
● BA9743 <DDC Control, IC5651>



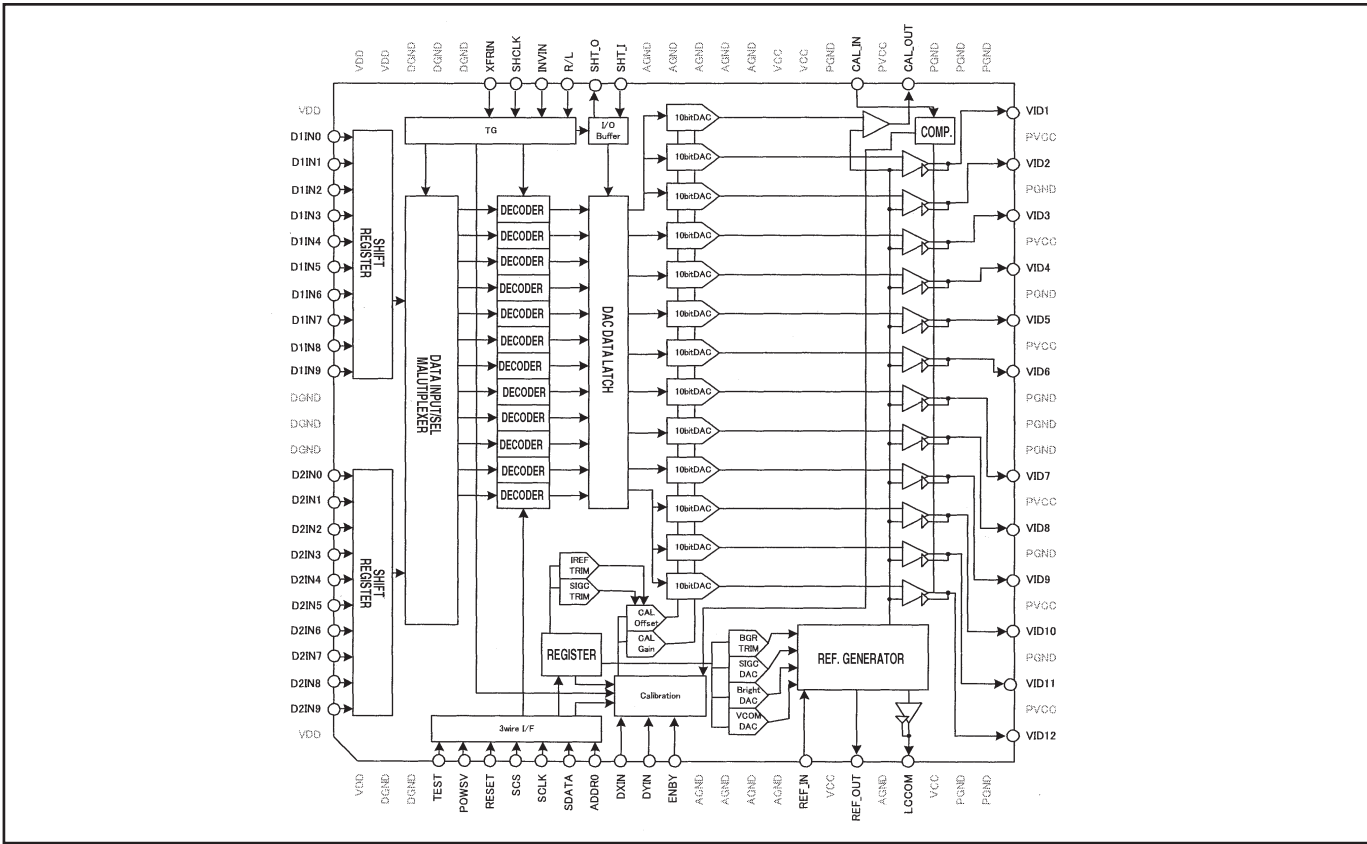
● FA5502 <P.F. Control, IC621>



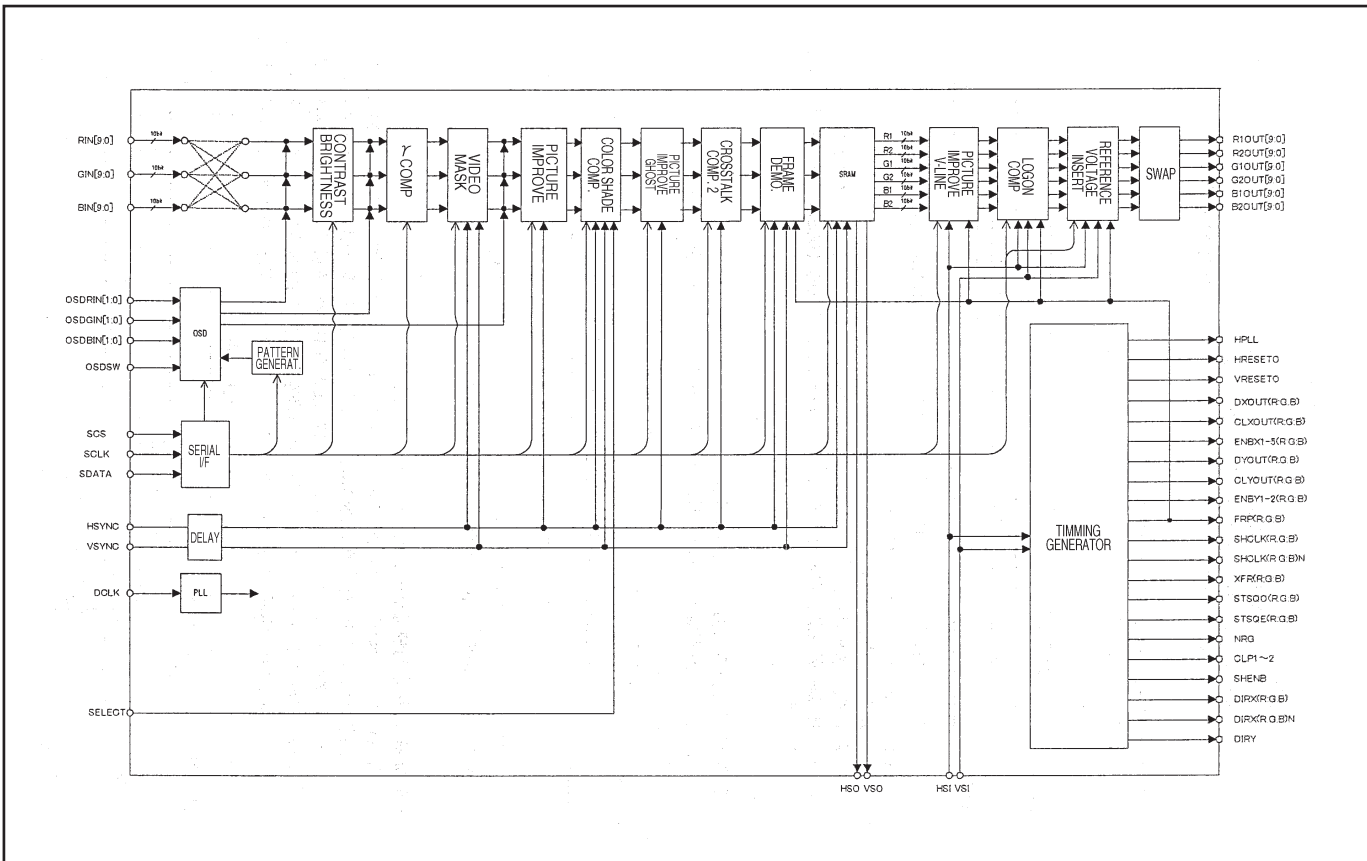
● L3E01060 <LEVEL SHIFT, IC2501, IC2531, IC2561>



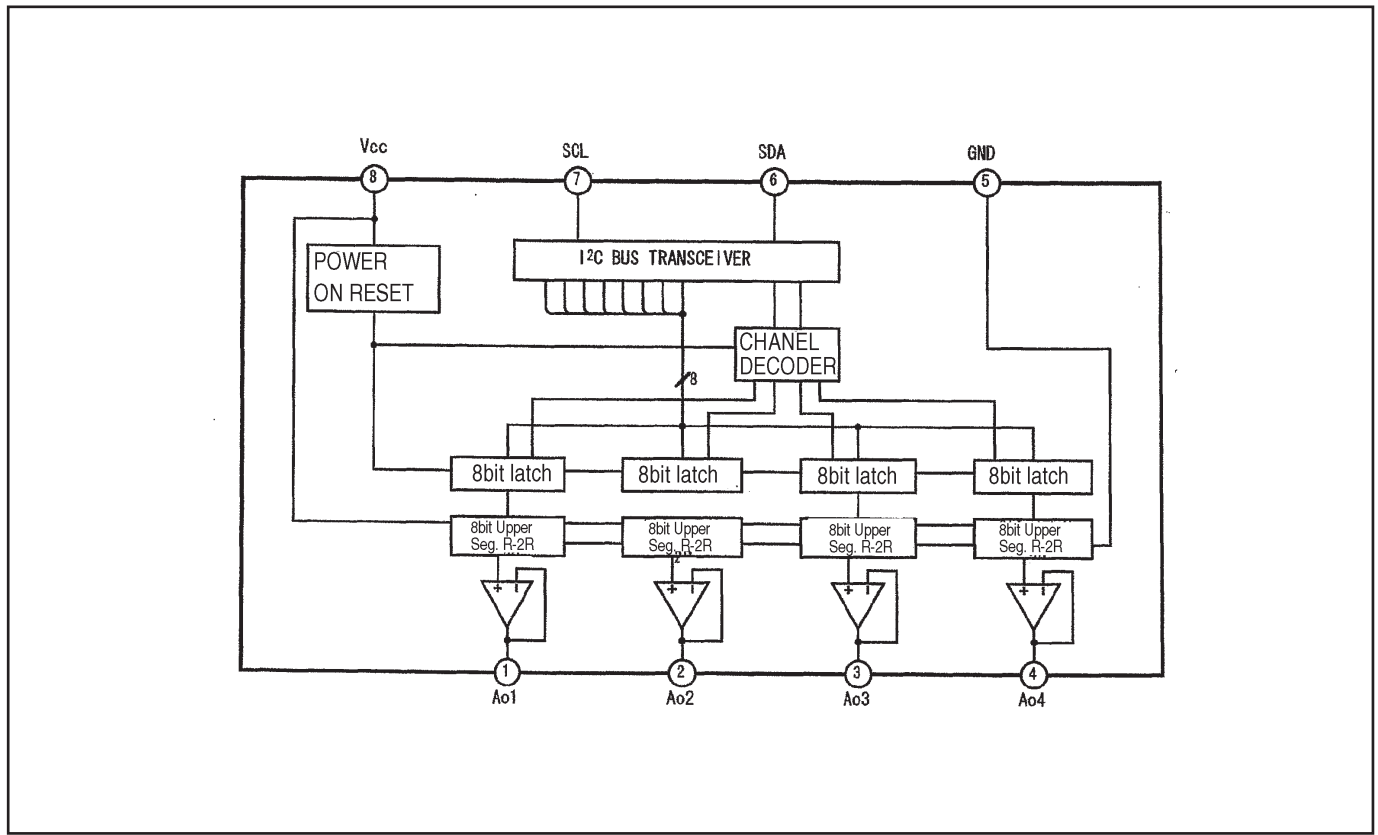
● L3E06150 <D/A S&H, IC501, IC531, IC561>



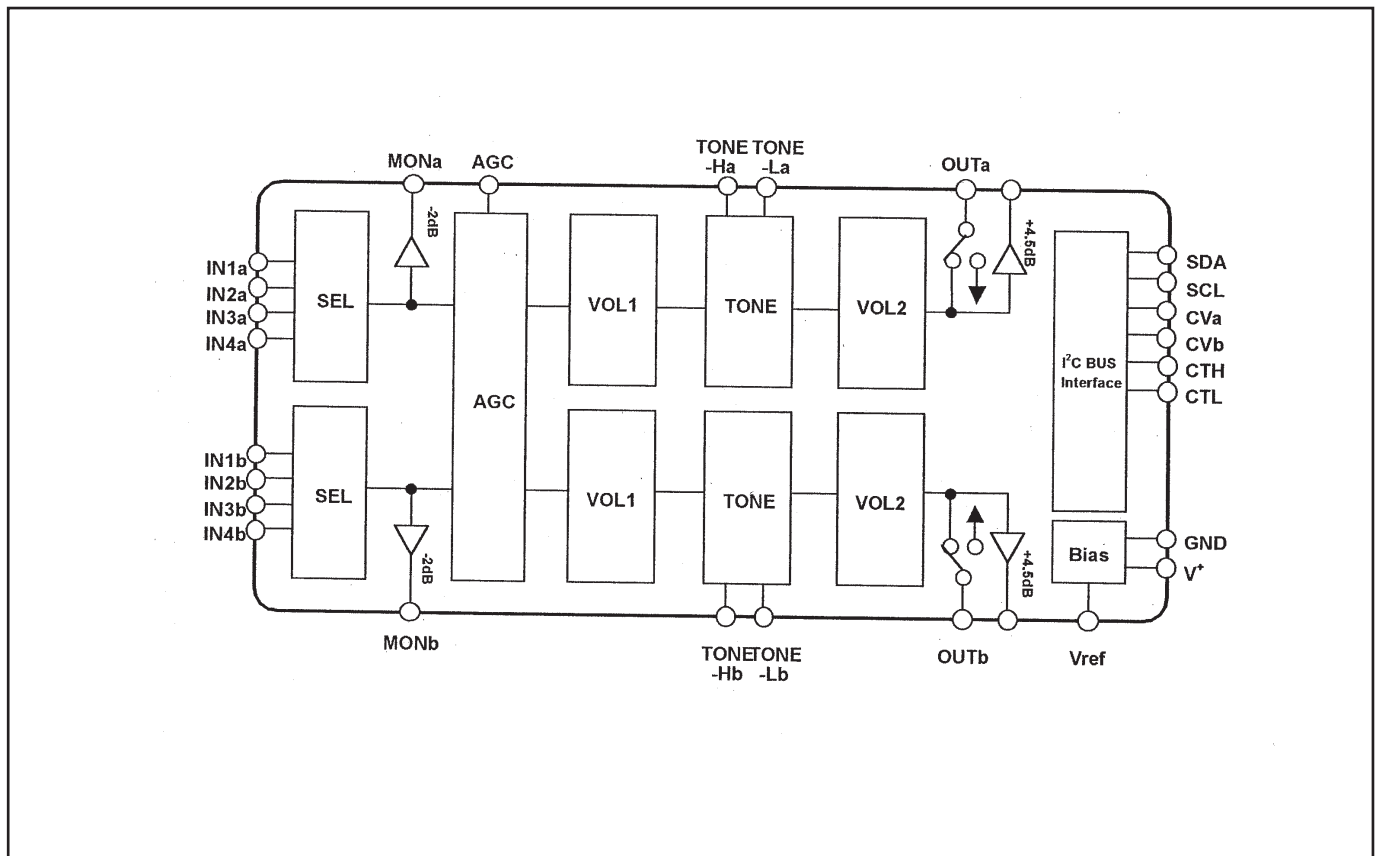
● L3E07110 <LCD Driver & Gamma Correction IC401>



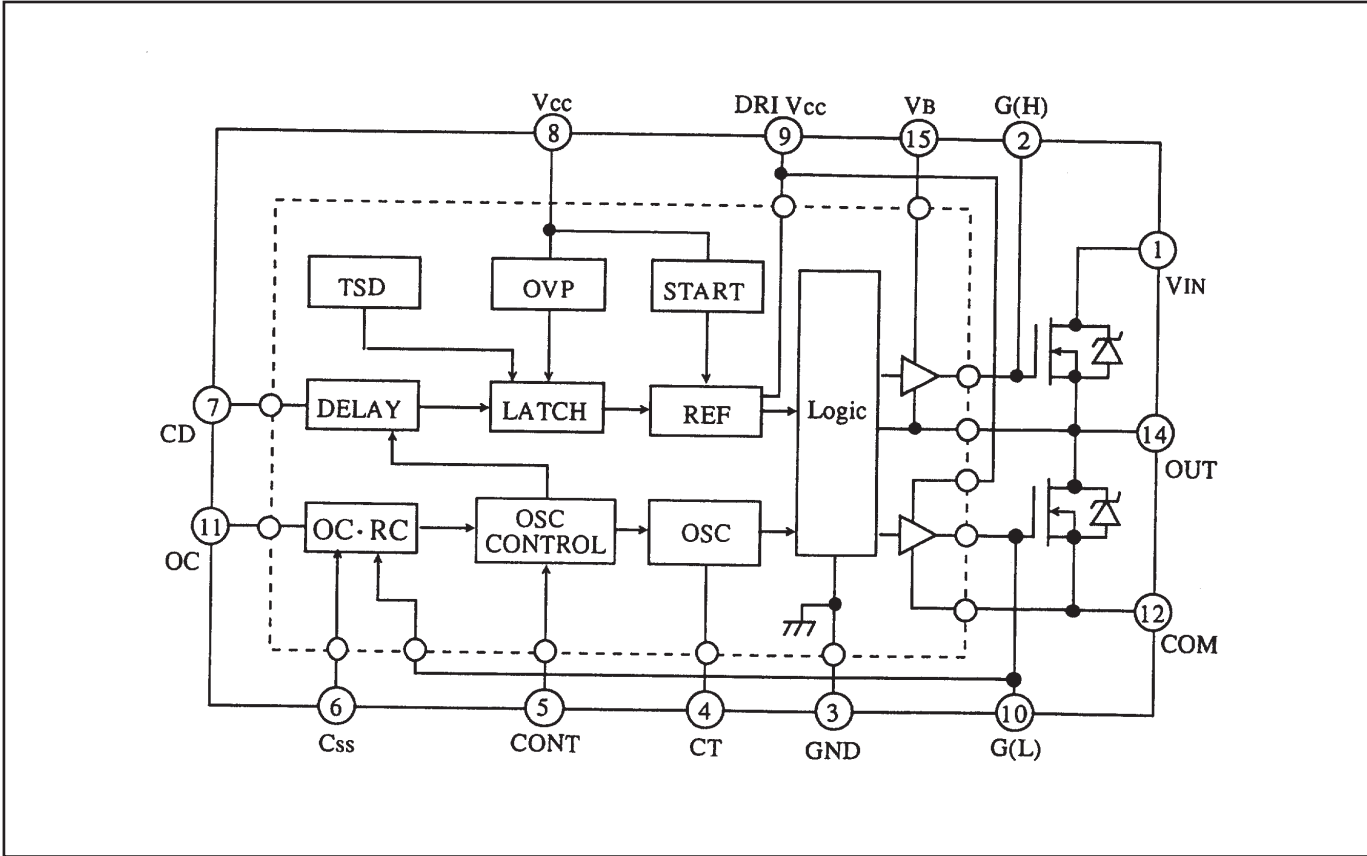
● M62334 <D/A, IC3571>



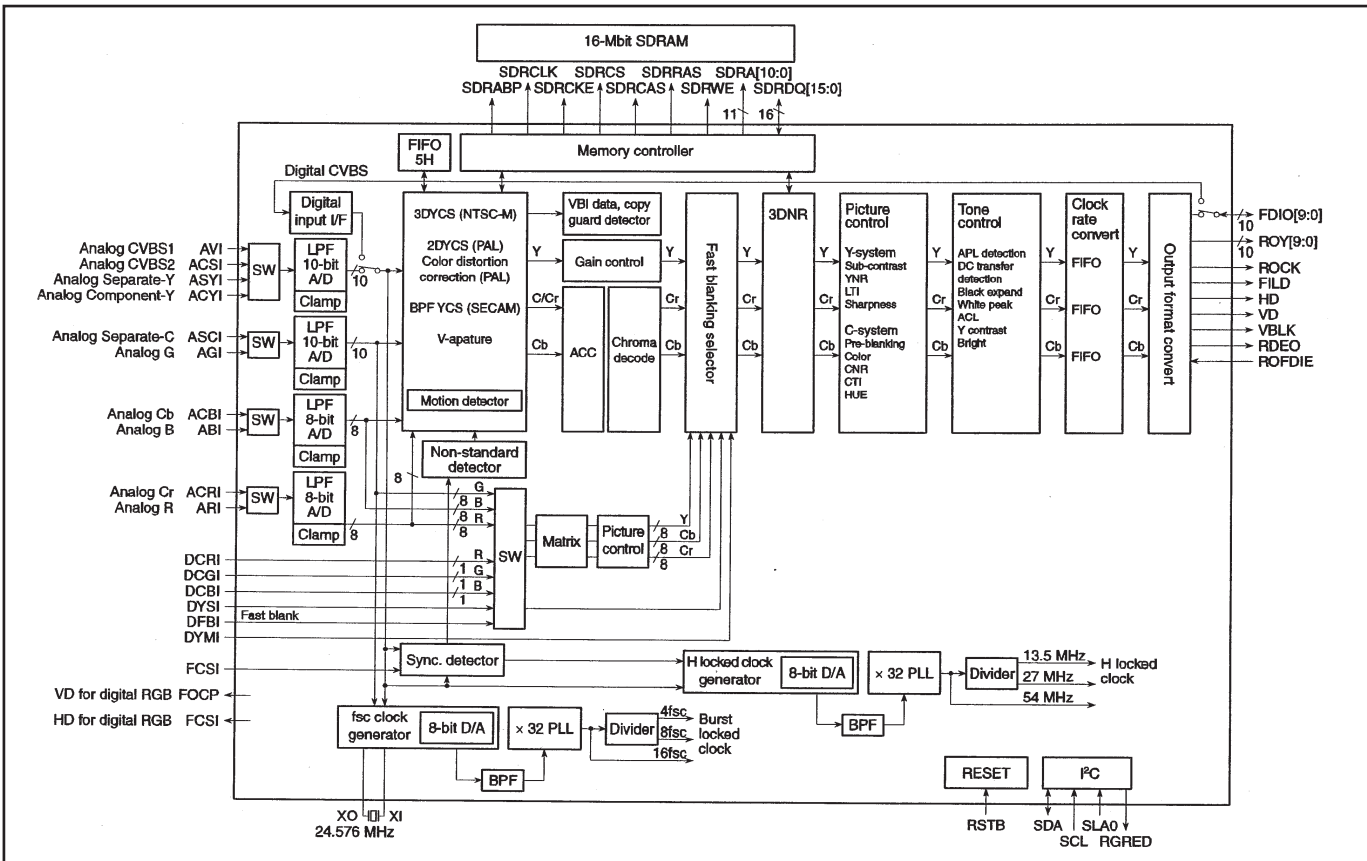
● NJW1141 <Audio Control, IC5001>



● STR-Z2156A <Power Switching, IC631>



● uPD64012 <Video Decoder, IC101>

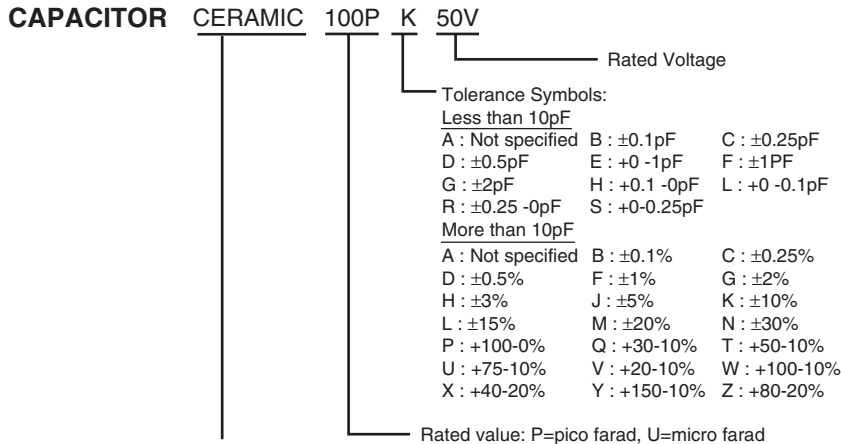


Electrical Parts List

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

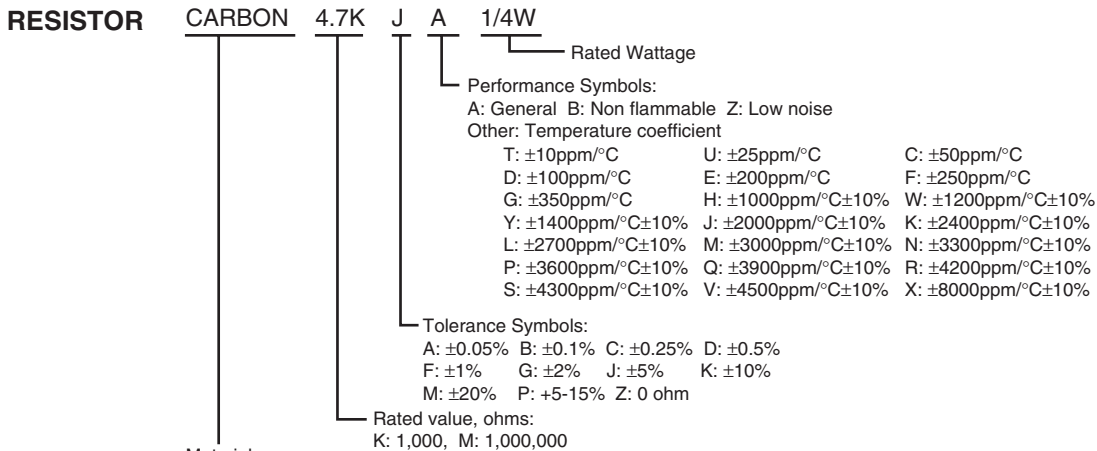
● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:



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



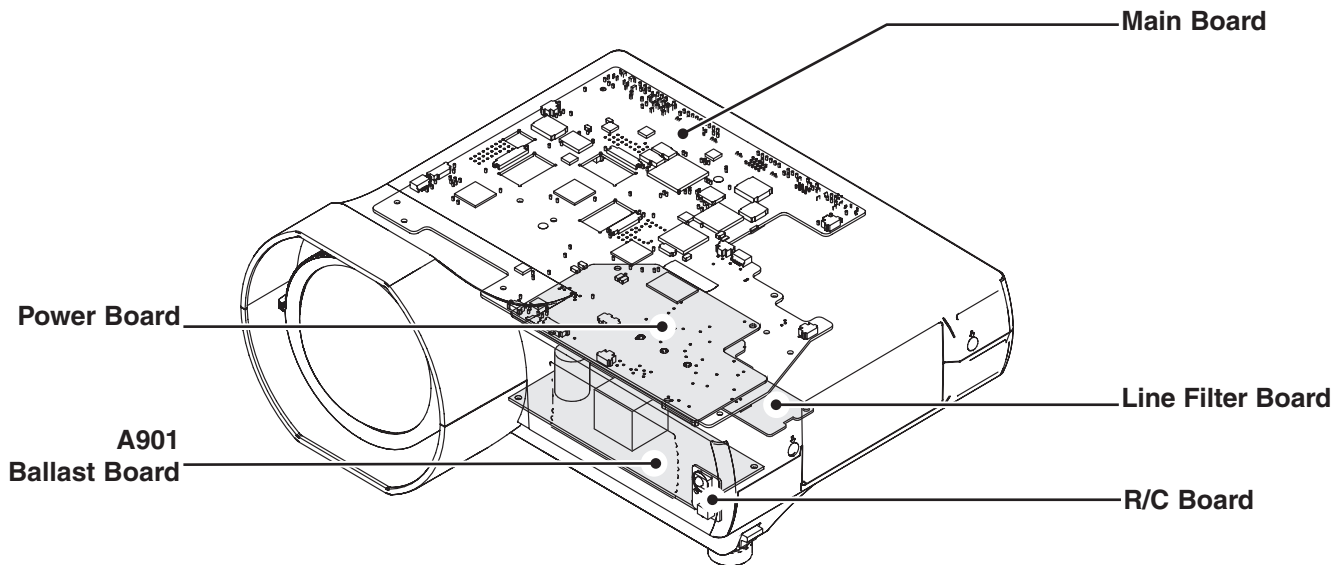
Material:

- 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

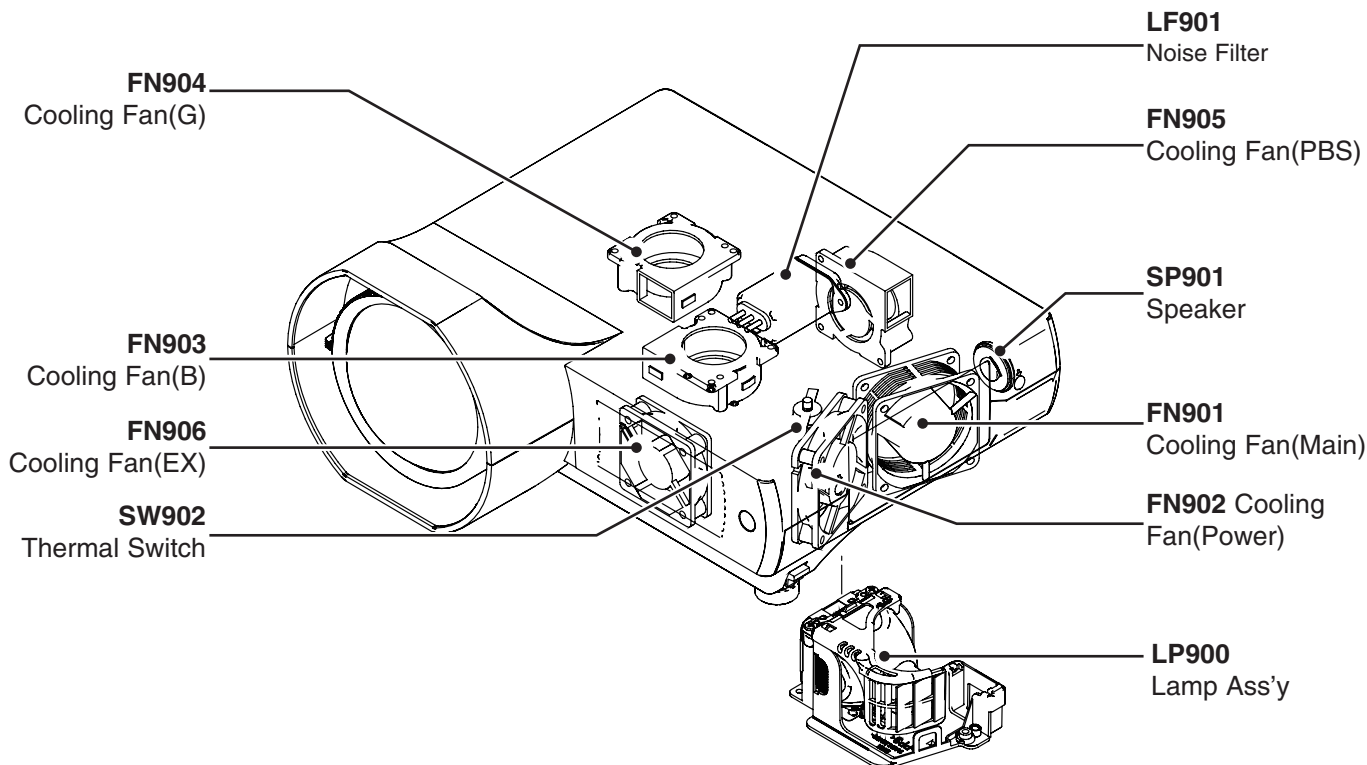
Electrical Parts List

Electrical Parts Location

● Assembled Boards



● OUT OF CIRCUIT BOARD



Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|--|--------------|----------------------------|---------------------------|--------------|------------------------|
| ASSEMBLED BOARDS | | | | | |
| △ 610 334 8797 | | ASSY,PWB,POWER KZ6AC | Q643 | 305 217 6600 | TR 2SK3934 |
| △ 610 334 8889 | | ASSY,PWB,LINE FILTER KZ6AC | Q651 | 305 014 4512 | TR 2SC2412K T146 R |
| △ 610 334 8810 | | ASSY,PWB,MAIN KZ6AC | | 305 014 4611 | TR 2SC2412K T146 S |
| △ 610 334 8773 | | ASSY,PWB,R/C KZ6AC | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| | | | | 305 163 1615 | TR 2SC2812N-L6-TB0 |
| | | | | 305 173 9816 | TR 2SC3928A1R |
| | | | | 305 173 9915 | TR 2SC3928A1S |
| | | | Q661 | 305 047 9010 | TR 2SB1204-S-TL |
| | | | | 305 047 9119 | TR 2SB1204-T-TL |
| | | | Q662 | 305 014 4512 | TR 2SC2412K T146 R |
| | | | | 305 014 4611 | TR 2SC2412K T146 S |
| | | | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| | | | | 305 163 1615 | TR 2SC2812N-L6-TB0 |
| | | | | 305 173 9816 | TR 2SC3928A1R |
| | | | | 305 173 9915 | TR 2SC3928A1S |
| OUT OF CIRCUIT BOARD | | | INTEGRATED CIRCUIT | | |
| △ LF901 | 945 078 6472 | UNIT,NOISE FILTER | IC621 | 309 523 1413 | IC FA5502M |
| △ LP900 | 610 332 3855 | LAMP, POA-LMP106 | IC631 | 309 558 4202 | IC STR-Z2156A |
| A630A | 655 001 6027 | GASKET-KT6AC | IC651 | 309 344 6522 | IC UPC1093T-E1 |
| △ A901 | 945 086 0981 | UNIT,BALLAST | CAPACITOR | | |
| A901A | 910 322 7093 | CABLE,BALLAST M55A | C605 | 303 164 0217 | CERAMIC 0.1U Z 25V |
| △ FN901 | 945 084 2970 | MOTOR,FAN DC 2.64W | C611 | 303 222 1326 | CERAMIC 1000P K 1K |
| △ FN902 | 945 079 7195 | MOTOR,FAN DC 2.52W | C612 | 303 222 1326 | CERAMIC 1000P K 1K |
| △ FN903 | 945 062 3104 | MOTOR,FAN DC 3.6W | C613 | 303 371 8518 | MT-POLYEST 1U K 400V |
| △ FN904 | 945 062 3104 | MOTOR,FAN DC 3.6W | | 303 427 2019 | MT-POLYEST 1U K 400V |
| △ FN905 | 945 062 3104 | MOTOR,FAN DC 3.6W | | 303 451 4119 | MT-POLYEST 1U K 450V |
| △ FN906 | 945 078 5666 | MOTOR,FAN DC 1.56W | C614 | 303 371 8518 | MT-POLYEST 1U K 400V |
| SP901 | 952 001 6157 | SPEAKER,8 | | 303 427 2019 | MT-POLYEST 1U K 400V |
| | 652 002 3055 | SPEAKER,8 | | 303 451 4119 | MT-POLYEST 1U K 450V |
| | 652 002 4397 | SPEAKER,8 | C615 | 304 102 7104 | ELECT 120U M 420V |
| △ SW902 | 945 079 2527 | SWITCH,THERMAL(105DEG) | | 304 106 8800 | ELECT 120U M 420V |
| 610 334 8797 ASSY,PWB,POWER KZ6AC | | | C616 | 303 371 8617 | MT-POLYEST 0.1U K 450V |
| TRANSISTOR | | | | 303 427 1814 | MT-POLYEST 0.1U K 450V |
| Q601 | 305 134 5928 | TR 2SA1037AK-T146-R | C62A | 303 157 3317 | CERAMIC 68P J 50V |
| | 305 147 2218 | TR 2SA1037AK-S-T146 | C62B | 303 157 6615 | CERAMIC 470P K 50V |
| | 305 173 9618 | TR 2SA1235A1E | C62C | 303 374 4210 | CERAMIC 0.33U K 10V |
| | 305 173 9717 | TR 2SA1235A1F | C62D | 303 164 0217 | CERAMIC 0.1U Z 25V |
| | 405 220 3115 | TR ISA1235AC1E | C62E | 303 164 0217 | CERAMIC 0.1U Z 25V |
| | 405 220 3016 | TR ISA1235AC1F | C62F | 303 370 9110 | CERAMIC 0.068U K 50V |
| Q602 | 305 014 4512 | TR 2SC2412K T146 R | C62I | 303 149 9211 | CERAMIC 0.01U Z 50V |
| | 305 014 4611 | TR 2SC2412K T146 S | C62J | 303 169 2810 | CERAMIC 330P J 50V |
| | 305 015 8727 | TR 2SC2812-L6-TB | C62K | 303 323 3615 | CERAMIC 0.047U K 50V |
| | 305 015 8925 | TR 2SC2812-L7-TB | C62M | 303 164 0217 | CERAMIC 0.1U Z 25V |
| | 305 163 1615 | TR 2SC2812N-L6-TB0 | C62R | 303 417 9912 | CERAMIC 4.7U K 25V |
| | 305 173 9816 | TR 2SC3928A1R | C62T | 303 164 0217 | CERAMIC 0.1U Z 25V |
| | 305 173 9915 | TR 2SC3928A1S | C631 | 303 268 7013 | TA-SOLID 2.2U M 35V |
| Q611 | 305 140 3707 | TR 2SK2698 | C633 | 303 113 3818 | CERAMIC 1000P K 50V |
| Q621 | 305 014 4512 | TR 2SC2412K T146 R | C634 | 303 247 3319 | CERAMIC 330P K 2K |
| | 305 014 4611 | TR 2SC2412K T146 S | C635 | 303 167 8616 | CERAMIC 220P K 2K |
| | 305 015 8727 | TR 2SC2812-L6-TB | C636 | 303 070 2619 | CERAMIC 0.1U Z 50V |
| | 305 015 8925 | TR 2SC2812-L7-TB | C637 | 303 157 6813 | CERAMIC 680P K 50V |
| | 305 163 1615 | TR 2SC2812N-L6-TB0 | C638 | 303 182 8110 | TA-SOLID 1U M 25V |
| | 305 173 9816 | TR 2SC3928A1R | | 303 208 1415 | TA-SOLID 1U M 25V |
| | 305 173 9915 | TR 2SC3928A1S | | 303 411 5712 | TA-SOLID 1U M 25V |
| Q622 | 305 134 5928 | TR 2SA1037AK-T146-R | C639 | 303 410 7618 | ELECT 220U M 35V |
| | 305 147 2218 | TR 2SA1037AK-S-T146 | C640 | 303 164 0217 | CERAMIC 0.1U Z 25V |
| | 305 173 9618 | TR 2SA1235A1E | C641 | 303 352 8216 | CERAMIC 0.47U Z 16V |
| | 305 173 9717 | TR 2SA1235A1F | C642 | 303 084 0311 | POLYPRO 0.022U J 630V |
| | 405 220 3115 | TR ISA1235AC1E | C643 | 303 256 2419 | CERAMIC 0.22U Z 50V |
| | 405 220 3016 | TR ISA1235AC1F | C644 | 303 417 9912 | CERAMIC 4.7U K 25V |
| Q642 | 305 014 4512 | TR 2SC2412K T146 R | C651 | 303 392 0703 | ELECT 1000U M 25V |
| | 305 014 4611 | TR 2SC2412K T146 S | C652 | 303 427 6245 | ELECT 1000U M 10V |
| | 305 015 8727 | TR 2SC2812-L6-TB | C653 | 303 437 4713 | ELECT 470U M 16V |
| | 305 015 8925 | TR 2SC2812-L7-TB | C654 | 303 164 0217 | CERAMIC 0.1U Z 25V |
| | 305 163 1615 | TR 2SC2812N-L6-TB0 | | | |
| | 305 173 9816 | TR 2SC3928A1R | | | |
| | 305 173 9915 | TR 2SC3928A1S | | | |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|-----------------|--------------|-------------------------|--|--------------|-------------------------------|
| C655 | 303 164 0217 | CERAMIC 0.1U Z 25V | R658 | 301 150 6212 | MT-GLAZE 1K JA 1/10W |
| C656 | 303 345 9619 | CERAMIC 0.47U K 10V | R659 | 301 150 6212 | MT-GLAZE 1K JA 1/10W |
| C657 | 303 157 6417 | CERAMIC 330P K 50V | R660 | 301 162 3711 | MT-GLAZE 4.7K JA 1/10W |
| C658 | 303 157 6417 | CERAMIC 330P K 50V | R661 | 301 150 5918 | MT-GLAZE 10K JA 1/10W |
| C659 | 303 199 6344 | ELECT 1000U M 25V | R662 | 301 230 8013 | MT-GLAZE 1K JA 1/3W |
| | 303 400 6822 | ELECT 1000U M 25V | R663 | 301 162 3711 | MT-GLAZE 4.7K JA 1/10W |
| C660 | 303 164 0217 | CERAMIC 0.1U Z 25V | R664 | 301 150 5918 | MT-GLAZE 10K JA 1/10W |
| C661 | 303 358 3215 | CERAMIC 10U K 6.3V | | | |
| | 303 368 7319 | CERAMIC 10U K 6.3V | VARIABLE RESISTOR | | |
| C691 | 303 400 7136 | ELECT 330U M 25V | VR611 | 945 025 7415 | VR,SEMI,1K S |
| | 304 106 9708 | ELECT 330U M 25V | | | |
| C693 | 303 219 7829 | ELECT 1000U M 10V | TRANSFORMER | | |
| | 303 400 5023 | ELECT 1000U M 10V | △ T651 | 945 077 6312 | TRANS,POWER,PULSE |
| C694 | 303 443 4605 | ELECT 1000U M 6.3V | | 945 083 6948 | TRANS,POWER,PULSE |
| | | | | | |
| RESISTOR | | | COIL | | |
| R603 | 301 255 8517 | MT-GLAZE 9.1K JA 1/10W | △ L611 | 945 086 6853 | LINE FILTER |
| R604 | 301 256 6611 | MT-GLAZE 68K JA 1/10W | L612 | 945 077 6565 | INDUCTOR,900U |
| R606 | 301 162 4015 | MT-GLAZE 560 JA 1/10W | | 945 084 0273 | INDUCTOR,1400U |
| R607 | 301 162 2417 | MT-GLAZE 1.2K JA 1/10W | | | |
| R611 | 302 088 0102 | RESISTER 0.15 KA 2W | DIODE | | |
| R612 | 302 088 0102 | RESISTER 0.15 KA 2W | D611 | 307 191 3903 | DIODE FML-G16S |
| R615 | 301 242 3914 | MT-GLAZE 240K JA 1/2W | D612 | 307 164 4015 | DIODE RB160L-40-TE25 |
| R616 | 301 242 3914 | MT-GLAZE 240K JA 1/2W | | 307 149 6327 | DIODE SFPB-54V |
| R617 | 301 259 9015 | MT-GLAZE 150K FA 1/2W | D616 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| R618 | 301 259 9015 | MT-GLAZE 150K FA 1/2W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| R619 | 301 259 9015 | MT-GLAZE 150K FA 1/2W | D617 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| R61A | 301 275 2915 | MT-GLAZE 68K JA 1W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| R61B | 301 275 2915 | MT-GLAZE 68K JA 1W | D618 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| R61E | 301 275 2915 | MT-GLAZE 68K JA 1W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| R61F | 301 275 2915 | MT-GLAZE 68K JA 1W | D619 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| R620 | 301 259 9015 | MT-GLAZE 150K FA 1/2W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| R623 | 301 162 3711 | MT-GLAZE 4.7K JA 1/10W | D62R | 307 163 0414 | DIODE 1SS352-(TPH3) |
| R62A | 301 256 3818 | MT-GLAZE 1.5K JA 1/10W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| R62B | 301 150 5918 | MT-GLAZE 10K JA 1/10W | D631 | 307 247 8827 | DIODE RF101L2S |
| R62C | 301 162 3810 | MT-GLAZE 470K JA 1/10W | D633 | 307 223 0514 | ZENER DIODE 02DZ12Y(TPH3) |
| R62D | 301 255 6810 | MT-GLAZE 30K JA 1/10W | | 307 221 7119 | ZENER DIODE UDZS-TE-1712B |
| R62E | 301 256 3719 | MT-GLAZE 750 JA 1/10W | D636 | 407 256 3213 | DIODE CRF03(TE85L) |
| R62F | 301 264 2810 | MT-GLAZE 1.2K FA 1/10W | D651 | 307 222 9607 | DIODE FMB-2306 |
| R62G | 301 255 6513 | MT-GLAZE 100 JA 1/10W | | 307 250 2403 | DIODE RB225T-60 |
| R62H | 301 152 3219 | MT-GLAZE 330 JA 1/10W | D652 | 307 222 9706 | DIODE FMJ-23L |
| R62I | 301 265 0914 | MT-GLAZE 4.7 JA 1/10W | | 307 250 2502 | DIODE RSX1001T3 |
| R62J | 301 162 2714 | MT-GLAZE 180 JA 1/10W | D653 | 307 247 8827 | DIODE RF101L2S |
| R62L | 301 256 2613 | MT-GLAZE 2.4K JA 1/10W | D654 | 307 223 1115 | ZENER DIODE 02DZ6.2Y(TPH3) |
| R62M | 301 256 7519 | MT-GLAZE 390 JA 1/10W | | 307 209 1214 | ZD UDZS-TE-176.2B |
| R62P | 301 256 6314 | MT-GLAZE 47K JA 1/10W | DB611 | 307 202 7708 | DIODE D10XB60 |
| R62Q | 301 255 8715 | MT-GLAZE 22 JA 1/10W | | | |
| R62R | 301 256 4716 | MT-GLAZE 5.6M JA 1/10W | MISCELLANEOUS | | |
| R62T | 301 255 9514 | MT-GLAZE 220K JA 1/10W | FB611 | 910 244 3975 | CORE |
| △ R631 | 324 006 1305 | FUSE 250V 2.5A | FB613 | 910 244 3975 | CORE |
| R633 | 301 323 4618 | MT(LEADFREE) 15 JA 3/4W | FB691 | 910 244 3975 | CORE |
| R634 | 301 238 4512 | MT-GLAZE 47 JA 1/3W | FB693 | 910 244 3975 | CORE |
| R635 | 301 150 6212 | MT-GLAZE 1K JA 1/10W | FB694 | 307 210 5416 | DIODE RB551V-30-TE-17 |
| R636 | 301 257 7419 | MT-GLAZE 120 JA 1/3W | △ PC641 | 307 223 7315 | PC TLP421F(D4-GB-TP4) |
| R637 | 301 162 3711 | MT-GLAZE 4.7K JA 1/10W | | 307 223 8312 | PC TLP421F(D4-GR-TP4) |
| R638 | 301 150 5918 | MT-GLAZE 10K JA 1/10W | △ PC642 | 307 223 7315 | PC TLP421F(D4-GB-TP4) |
| R639 | 301 256 2613 | MT-GLAZE 2.4K JA 1/10W | | 307 223 8312 | PC TLP421F(D4-GR-TP4) |
| R641 | 301 188 0114 | MT-GLAZE 18K JA 1/4W | △ PC643 | 307 223 7315 | PC TLP421F(D4-GB-TP4) |
| R646 | 301 150 5918 | MT-GLAZE 10K JA 1/10W | | 307 223 8312 | PC TLP421F(D4-GR-TP4) |
| R647 | 301 256 5911 | MT-GLAZE 2.7K JA 1/10W | PTH611 | 308 037 5501 | THERMISTOR NTH11D5R0LC |
| R648 | 301 256 3610 | MT-GLAZE 15K JA 1/10W | PTH612 | 308 053 9101 | THERMISTOR PTFM04BC222Q2N34B0 |
| R651 | 301 150 6212 | MT-GLAZE 1K JA 1/10W | | | |
| R652 | 301 162 2219 | MT-GLAZE 10 JA 1/10W | | | |
| R653 | 301 326 1713 | MT-GLAZE 10K DA 1/10W | | | |
| R654 | 301 152 3219 | MT-GLAZE 330 JA 1/10W | | | |
| R655 | 301 256 7311 | MT-GLAZE 6.8K JA 1/10W | | | |
| R656 | 301 256 6215 | MT-GLAZE 270 JA 1/10W | | | |
| R657 | 301 150 6212 | MT-GLAZE 1K JA 1/10W | | | |
| | | | 610 334 8889 ASSY,PWB,LINE FILTER KZ6AC | | |
| | | | CAPACITOR | | |
| | | | △ C601 | 304 079 5608 | MT-POLYEST 0.47U M 275V |
| | | | | 304 094 2002 | MT-POLYEST 0.47U K 275V |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|---|--------------|-------------------------|---------|--------------|---------------------|
| △C602 | 304 079 5608 | MT-POLYEST 0.47U M 275V | | 305 014 4611 | TR 2SC2412K T146 S |
| | 304 094 2002 | MT-POLYEST 0.47U K 275V | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| | | | | 305 163 1615 | TR 2SC2812N-L6-TB0 |
| | | | | 305 173 9816 | TR 2SC3928A1R |
| | | | | 305 173 9915 | TR 2SC3928A1S |
| RESISTOR | | | Q2031 | 305 014 4512 | TR 2SC2412K T146 R |
| △R601 | 301 287 9018 | MT-GLAZE 470K JA 1W | | 305 014 4611 | TR 2SC2412K T146 S |
| △R602 | 301 287 9018 | MT-GLAZE 470K JA 1W | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| VARIABLE RESISTOR | | | | 305 163 1615 | TR 2SC2812N-L6-TB0 |
| △VA601 | 308 061 5607 | VARISTOR ENE471D-14A-S6 | | 305 173 9816 | TR 2SC3928A1R |
| | | | | 305 173 9915 | TR 2SC3928A1S |
| COIL | | | Q3051 | 305 014 4512 | TR 2SC2412K T146 R |
| △L601 | 945 050 2232 | LINE FILTER | | 305 014 4611 | TR 2SC2412K T146 S |
| | | | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| MISCELLANEOUS | | | | 305 163 1615 | TR 2SC2812N-L6-TB0 |
| △F601 | 323 021 7804 | FUSE 250V 6.3A | | 305 173 9816 | TR 2SC3928A1R |
| SW901 | 945 063 8078 | SWITCH,PUSH 2P-2TX3 | | 305 173 9915 | TR 2SC3928A1S |
| | | | Q3501 | 305 014 4512 | TR 2SC2412K T146 R |
| | | | | 305 014 4611 | TR 2SC2412K T146 S |
| | | | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| | | | | 305 163 1615 | TR 2SC2812N-L6-TB0 |
| | | | | 305 173 9816 | TR 2SC3928A1R |
| | | | | 305 173 9915 | TR 2SC3928A1S |
| | | | Q3501 | 305 014 4512 | TR 2SC2412K T146 R |
| | | | | 305 014 4611 | TR 2SC2412K T146 S |
| | | | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| | | | | 305 163 1615 | TR 2SC2812N-L6-TB0 |
| | | | | 305 173 9816 | TR 2SC3928A1R |
| | | | | 305 173 9915 | TR 2SC3928A1S |
| | | | Q3501 | 305 014 4512 | TR 2SC2412K T146 R |
| | | | | 305 014 4611 | TR 2SC2412K T146 S |
| | | | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| | | | | 305 163 1615 | TR 2SC2812N-L6-TB0 |
| | | | | 305 173 9816 | TR 2SC3928A1R |
| | | | | 305 173 9915 | TR 2SC3928A1S |
| | | | Q3502 | 305 002 8327 | TR 2SA1203-Y-TE12L |
| | | | Q3581 | 305 014 4512 | TR 2SC2412K T146 R |
| | | | | 305 014 4611 | TR 2SC2412K T146 S |
| | | | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| | | | | 305 163 1615 | TR 2SC2812N-L6-TB0 |
| | | | | 305 173 9816 | TR 2SC3928A1R |
| | | | | 305 173 9915 | TR 2SC3928A1S |
| | | | Q3582 | 305 002 8327 | TR 2SA1203-Y-TE12L |
| | | | Q3601 | 305 014 4512 | TR 2SC2412K T146 R |
| | | | | 305 014 4611 | TR 2SC2412K T146 S |
| | | | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| | | | | 305 163 1615 | TR 2SC2812N-L6-TB0 |
| | | | | 305 173 9816 | TR 2SC3928A1R |
| | | | | 305 173 9915 | TR 2SC3928A1S |
| | | | Q3801 | 305 045 8728 | TR 2SK536-TB |
| | | | Q4001 | 305 134 5928 | TR 2SA1037AK-T146-R |
| | | | | 305 147 2218 | TR 2SA1037AK-S-T146 |
| | | | | 305 173 9618 | TR 2SA1235A1E |
| | | | | 305 173 9717 | TR 2SA1235A1F |
| | | | | 405 220 3115 | TR ISA1235AC1E |
| | | | | 405 220 3016 | TR ISA1235AC1F |
| | | | Q4011 | 305 134 5928 | TR 2SA1037AK-T146-R |
| | | | | 305 147 2218 | TR 2SA1037AK-S-T146 |
| | | | | 305 173 9618 | TR 2SA1235A1E |
| | | | | 305 173 9717 | TR 2SA1235A1F |
| | | | | 405 220 3115 | TR ISA1235AC1E |
| | | | | 405 220 3016 | TR ISA1235AC1F |
| | | | Q4014 | 305 014 4512 | TR 2SC2412K T146 R |
| | | | | 305 014 4611 | TR 2SC2412K T146 S |
| | | | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| | | | | 305 163 1615 | TR 2SC2812N-L6-TB0 |
| | | | | 305 173 9816 | TR 2SC3928A1R |
| | | | | 305 173 9915 | TR 2SC3928A1S |
| | | | Q4071 | 305 014 4512 | TR 2SC2412K T146 R |
| | | | | 305 014 4611 | TR 2SC2412K T146 S |
| | | | | 305 015 8727 | TR 2SC2812-L6-TB |
| | | | | 305 015 8925 | TR 2SC2812-L7-TB |
| | | | | | |
| 610 334 8810 ASSY,PWB,MAIN KZ6AC | | | | | |
| TRANSISTOR | | | | | |
| Q101 | 305 014 4512 | TR 2SC2412K T146 R | | | |
| | 305 014 4611 | TR 2SC2412K T146 S | | | |
| | 305 015 8727 | TR 2SC2812-L6-TB | | | |
| | 305 015 8925 | TR 2SC2812-L7-TB | | | |
| | 305 163 1615 | TR 2SC2812N-L6-TB0 | | | |
| | 305 173 9816 | TR 2SC3928A1R | | | |
| | 305 173 9915 | TR 2SC3928A1S | | | |
| Q1031 | 305 014 4512 | TR 2SC2412K T146 R | | | |
| | 305 014 4611 | TR 2SC2412K T146 S | | | |
| | 305 015 8727 | TR 2SC2812-L6-TB | | | |
| | 305 015 8925 | TR 2SC2812-L7-TB | | | |
| | 305 163 1615 | TR 2SC2812N-L6-TB0 | | | |
| | 305 173 9816 | TR 2SC3928A1R | | | |
| | 305 173 9915 | TR 2SC3928A1S | | | |
| Q1051 | 305 134 5928 | TR 2SA1037AK-T146-R | | | |
| | 305 147 2218 | TR 2SA1037AK-S-T146 | | | |
| | 305 173 9618 | TR 2SA1235A1E | | | |
| | 305 173 9717 | TR 2SA1235A1F | | | |
| | 405 220 3115 | TR ISA1235AC1E | | | |
| | 405 220 3016 | TR ISA1235AC1F | | | |
| Q1061 | 305 134 5928 | TR 2SA1037AK-T146-R | | | |
| | 305 147 2218 | TR 2SA1037AK-S-T146 | | | |
| | 305 173 9618 | TR 2SA1235A1E | | | |
| | 305 173 9717 | TR 2SA1235A1F | | | |
| | 405 220 3115 | TR ISA1235AC1E | | | |
| | 405 220 3016 | TR ISA1235AC1F | | | |
| Q1062 | 305 014 4512 | TR 2SC2412K T146 R | | | |
| | 305 014 4611 | TR 2SC2412K T146 S | | | |
| | 305 015 8727 | TR 2SC2812-L6-TB | | | |
| | 305 015 8925 | TR 2SC2812-L7-TB | | | |
| | 305 163 1615 | TR 2SC2812N-L6-TB0 | | | |
| | 305 173 9816 | TR 2SC3928A1R | | | |
| | 305 173 9915 | TR 2SC3928A1S | | | |
| Q1071 | 305 134 5928 | TR 2SA1037AK-T146-R | | | |
| | 305 147 2218 | TR 2SA1037AK-S-T146 | | | |
| | 305 173 9618 | TR 2SA1235A1E | | | |
| | 305 173 9717 | TR 2SA1235A1F | | | |
| | 405 220 3115 | TR ISA1235AC1E | | | |
| | 405 220 3016 | TR ISA1235AC1F | | | |
| Q2011 | 305 014 4512 | TR 2SC2412K T146 R | | | |
| | 305 014 4611 | TR 2SC2412K T146 S | | | |
| | 305 015 8727 | TR 2SC2812-L6-TB | | | |
| | 305 015 8925 | TR 2SC2812-L7-TB | | | |
| | 305 163 1615 | TR 2SC2812N-L6-TB0 | | | |
| | 305 173 9816 | TR 2SC3928A1R | | | |
| | 305 173 9915 | TR 2SC3928A1S | | | |
| Q2021 | 305 014 4512 | TR 2SC2412K T146 R | | | |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description | |
|--------------|---------------|---------------------|---------------------------|----------------|--------------------|--------------------|
| Q5284 | 305 163 1615 | TR 2SC2812N-L6-TB0 | Q6841 | 305 014 4512 | TR 2SC2412K T146 R | |
| | 305 173 9816 | TR 2SC3928A1R | | 305 014 4611 | TR 2SC2412K T146 S | |
| | 305 173 9915 | TR 2SC3928A1S | | 305 015 8727 | TR 2SC2812-L6-TB | |
| | 305 014 4512 | TR 2SC2412K T146 R | | 305 015 8925 | TR 2SC2812-L7-TB | |
| | 305 014 4611 | TR 2SC2412K T146 S | | 305 163 1615 | TR 2SC2812N-L6-TB0 | |
| | 305 015 8727 | TR 2SC2812-L6-TB | | 305 173 9816 | TR 2SC3928A1R | |
| | 305 015 8925 | TR 2SC2812-L7-TB | | 305 173 9915 | TR 2SC3928A1S | |
| Q5286 | 305 163 1615 | TR 2SC2812N-L6-TB0 | Q6842 | 305 014 4512 | TR 2SC2412K T146 R | |
| | 305 173 9816 | TR 2SC3928A1R | | 305 014 4611 | TR 2SC2412K T146 S | |
| | 305 173 9915 | TR 2SC3928A1S | | 305 015 8727 | TR 2SC2812-L6-TB | |
| | 305 014 4512 | TR 2SC2412K T146 R | | 305 015 8925 | TR 2SC2812-L7-TB | |
| | 305 014 4611 | TR 2SC2412K T146 S | | 305 163 1615 | TR 2SC2812N-L6-TB0 | |
| | 305 015 8727 | TR 2SC2812-L6-TB | | 305 173 9816 | TR 2SC3928A1R | |
| | 305 015 8925 | TR 2SC2812-L7-TB | | 305 173 9915 | TR 2SC3928A1S | |
| Q5287 | 305 163 1615 | TR 2SC2812N-L6-TB0 | Q6843 | 305 014 4512 | TR 2SC2412K T146 R | |
| | 305 173 9816 | TR 2SC3928A1R | | 305 014 4611 | TR 2SC2412K T146 S | |
| | 305 173 9915 | TR 2SC3928A1S | | 305 015 8727 | TR 2SC2812-L6-TB | |
| | 305 014 4512 | TR 2SC2412K T146 R | | 305 015 8925 | TR 2SC2812-L7-TB | |
| | 305 014 4611 | TR 2SC2412K T146 S | | 305 163 1615 | TR 2SC2812N-L6-TB0 | |
| | 305 015 8727 | TR 2SC2812-L6-TB | | 305 173 9816 | TR 2SC3928A1R | |
| | 305 015 8925 | TR 2SC2812-L7-TB | | 305 173 9915 | TR 2SC3928A1S | |
| Q5288 | 305 163 1615 | TR 2SC2812N-L6-TB0 | Q6844 | 305 014 4512 | TR 2SC2412K T146 R | |
| | 305 173 9816 | TR 2SC3928A1R | | 305 014 4611 | TR 2SC2412K T146 S | |
| | 305 173 9915 | TR 2SC3928A1S | | 305 015 8727 | TR 2SC2812-L6-TB | |
| | 305 014 4512 | TR 2SC2412K T146 R | | 305 015 8925 | TR 2SC2812-L7-TB | |
| | 305 014 4611 | TR 2SC2412K T146 S | | 305 163 1615 | TR 2SC2812N-L6-TB0 | |
| | 305 015 8727 | TR 2SC2812-L6-TB | | 305 173 9816 | TR 2SC3928A1R | |
| | 305 015 8925 | TR 2SC2812-L7-TB | | 305 173 9915 | TR 2SC3928A1S | |
| Q5301 | 305 163 1615 | TR 2SC2812N-L6-TB0 | Q7801 | 305 014 4512 | TR 2SC2412K T146 R | |
| | 305 173 9816 | TR 2SC3928A1R | | 305 014 4611 | TR 2SC2412K T146 S | |
| | 305 173 9915 | TR 2SC3928A1S | | 305 015 8727 | TR 2SC2812-L6-TB | |
| | 305 014 4512 | TR 2SC2412K T146 R | | 305 015 8925 | TR 2SC2812-L7-TB | |
| | 305 014 4611 | TR 2SC2412K T146 S | | 305 163 1615 | TR 2SC2812N-L6-TB0 | |
| | 305 015 8727 | TR 2SC2812-L6-TB | | 305 173 9816 | TR 2SC3928A1R | |
| | 305 015 8925 | TR 2SC2812-L7-TB | | 305 173 9915 | TR 2SC3928A1S | |
| Q5302 | 305 163 1615 | TR 2SC2812N-L6-TB0 | Q7811 | 305 014 4512 | TR 2SC2412K T146 R | |
| | 305 173 9816 | TR 2SC3928A1R | | 305 014 4611 | TR 2SC2412K T146 S | |
| | 305 173 9915 | TR 2SC3928A1S | | 305 015 8727 | TR 2SC2812-L6-TB | |
| | 305 134 5928 | TR 2SA1037AK-T146-R | | 305 015 8925 | TR 2SC2812-L7-TB | |
| | 305 147 2218 | TR 2SA1037AK-S-T146 | | 305 163 1615 | TR 2SC2812N-L6-TB0 | |
| | 305 173 9618 | TR 2SA1235A1E | | 305 173 9816 | TR 2SC3928A1R | |
| | 305 173 9717 | TR 2SA1235A1F | | 305 173 9915 | TR 2SC3928A1S | |
| Q5303 | 405 220 3115 | TR ISA1235AC1E | Q7812 | 305 217 8515 | TR RSQ025P03-TR | |
| | 405 220 3016 | TR ISA1235AC1F | | Q7813 | 305 139 7719 | TR IMZ1A-T108 |
| | 305 134 5928 | TR 2SA1037AK-T146-R | | Q7861 | 305 014 4512 | TR 2SC2412K T146 R |
| | 305 147 2218 | TR 2SA1037AK-S-T146 | | 305 014 4611 | TR 2SC2412K T146 S | |
| | 305 173 9618 | TR 2SA1235A1E | | 305 015 8727 | TR 2SC2812-L6-TB | |
| | 305 173 9717 | TR 2SA1235A1F | | 305 015 8925 | TR 2SC2812-L7-TB | |
| | 405 220 3115 | TR ISA1235AC1E | | 305 163 1615 | TR 2SC2812N-L6-TB0 | |
| Q5304 | 405 220 3016 | TR ISA1235AC1F | 305 173 9816 | TR 2SC3928A1R | | |
| | 305 014 4512 | TR 2SC2412K T146 R | 305 173 9915 | TR 2SC3928A1S | | |
| | 305 014 4611 | TR 2SC2412K T146 S | Q7862 | 305 217 8515 | TR RSQ025P03-TR | |
| | 305 015 8727 | TR 2SC2812-L6-TB | Q7864 | 305 139 7719 | TR IMZ1A-T108 | |
| | 305 015 8925 | TR 2SC2812-L7-TB | INTEGRATED CIRCUIT | | | |
| | 305 163 1615 | TR 2SC2812N-L6-TB0 | IC101 | 309 635 1219 | IC UPD64012GJ | |
| | 305 173 9816 | TR 2SC3928A1R | IC1041 | 310 517 6809 | IC TC74LVX4053FT | |
| 305 173 9915 | TR 2SC3928A1S | IC1051 | 309 462 0327 | IC 24LC21AT/SN | | |
| Q5601 | 305 217 8515 | TR RSQ025P03-TR | IC1341 | 309 301 5312 | IC TC7S32FU-TE85L | |
| Q5611 | 305 217 8515 | TR RSQ025P03-TR | IC1371 | 310 538 4907 | IC 24LC64T-I/SNG | |
| Q5692 | 305 217 8515 | TR RSQ025P03-TR | IC1471 | 310 479 4004 | IC TC7WBD125AFK | |
| Q5693 | 305 014 4512 | TR 2SC2412K T146 R | IC1571 | 310 479 4004 | IC TC7WBD125AFK | |
| | 305 014 4611 | TR 2SC2412K T146 S | IC161 | 309 416 6419 | IC BA033FP-E2 | |
| | 305 015 8727 | TR 2SC2812-L6-TB | | 309 588 6316 | IC BA33BC0FP | |
| | 305 015 8925 | TR 2SC2812-L7-TB | | 309 673 6412 | IC TA48033AF | |
| | 305 163 1615 | TR 2SC2812N-L6-TB0 | IC1801 | 309 671 7817 | IC TE7783APF | |
| | 305 173 9816 | TR 2SC3928A1R | | 309 633 6117 | IC TE7783PF | |
| | 305 173 9915 | TR 2SC3928A1S | IC301 | 309 649 1311 | IC PW186-10L | |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description | | |
|------------------|--------------|---------------------------|---------|--------------|-------------|--------|-----|
| IC3571 | 309 431 4424 | IC M62334FP-DF5Q | C141 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| IC3801 | 309 565 9613 | IC SP232AEN-L | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| IC4011 | 310 358 1506 | IC TC74HC4053AFT(EL) | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| IC4071 | 310 348 7501 | IC TC7WT241FU(TE12L) | C142 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| IC4891 | 309 404 7213 | IC TC7SET00FU-(TE85L) | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| IC5001 | 309 564 1519 | IC NJW1141M | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| IC5031 | 309 594 1916 | IC LM4889MM | C143 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| IC5081 | 309 398 1914 | IC L88MS05TL-TL | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| IC5201 | 309 530 7217 | IC AN5870SB-E1V | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| IC5301 | 309 484 2016 | IC BA7078AF-E2 | C144 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| IC5302 | 309 439 8919 | IC TC7WH125FU | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| IC5601 | 309 416 6518 | IC BA05FP-E2 | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | 309 591 8611 | IC BA50BC0FP | C145 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | 309 673 6313 | IC TA4805AF | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| IC5621 | 309 670 0314 | IC BD12KA5WFP | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| IC5641 | 309 563 9615 | IC SI-3012KS-TL | C146 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| IC5642 | 309 497 6315 | IC BA09FP-E2 | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| IC5651 | 309 555 6318 | IC BA9743AFV-E2 | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| IC5681 | 309 563 9615 | IC SI-3012KS-TL | C147 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| IC5691 | 309 531 6229 | IC FA7701V-TE1 | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| IC5712 | 310 616 3402 | IC PST413A300NR | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| IC7811 | 309 531 6229 | IC FA7701V-TE1 | C1471 | 303 409 3426 | CERAMIC | 0.1U K | 16V |
| IC7861 | 309 531 6229 | IC FA7701V-TE1 | C148 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| IC801 | 410 639 0300 | IC S29GL032A90TFIR30-0809 | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| IC8201 | 310 519 2007 | IC AD9883AKSTZ-140 | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| IC8291 | 309 592 8511 | IC BA15BC0FP | C149 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | 309 673 6917 | IC TA48015AF | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| IC8811 | 309 481 8615 | IC LM76CHMX-5 | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| IC8821 | 309 481 8615 | IC LM76CHMX-5 | C150 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| IC8831 | 309 481 8615 | IC LM76CHMX-5 | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| IC891 | 310 337 0605 | IC HD74LVC14T | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| IC9882 | 309 464 1411 | IC TC74ACT14FT | C151 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | | | C152 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | | | C153 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | | | C154 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | | | C155 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | | | C156 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | | | C157 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | | | C1571 | 303 409 3426 | CERAMIC | 0.1U K | 16V |
| | | | C158 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | | | C159 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | | | C160 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | | | C161 | 403 461 3710 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 454 0514 | CERAMIC | 0.1U Z | 25V |
| | | | | 303 343 3718 | CERAMIC | 0.1U Z | 25V |
| | | | C162 | 303 453 7316 | CERAMIC | 8P J | 50V |
| | | | C163 | 303 453 7316 | CERAMIC | 8P J | 50V |
| CAPACITOR | | | | | | | |
| C101 | 301 226 1516 | MT-GLAZE | | 0.000 ZA | | 1/16W | |
| C102 | 303 379 6714 | CERAMIC | | 10U K | | 16V | |
| C103 | 403 461 3710 | CERAMIC | | 0.1U Z | | 25V | |
| | 303 454 0514 | CERAMIC | | 0.1U Z | | 25V | |
| | 303 343 3718 | CERAMIC | | 0.1U Z | | 25V | |
| C104 | 303 449 1212 | POS-SOLID | | 47U M | | 6.3V | |
| C1041 | 303 453 9716 | CERAMIC | | 0.022U K | | 25V | |
| C1042 | 303 409 3426 | CERAMIC | | 0.1U K | | 16V | |
| C105 | 403 461 3710 | CERAMIC | | 0.1U Z | | 25V | |
| | 303 454 0514 | CERAMIC | | 0.1U Z | | 25V | |
| | 303 343 3718 | CERAMIC | | 0.1U Z | | 25V | |
| C1051 | 303 409 3426 | CERAMIC | | 0.1U K | | 16V | |
| C1091 | 303 453 9716 | CERAMIC | | 0.022U K | | 25V | |
| C1092 | 303 368 7319 | CERAMIC | | 10U K | | 6.3V | |
| C130 | 303 454 0415 | CERAMIC | | 0.068U K | | 16V | |
| C131 | 303 454 0415 | CERAMIC | | 0.068U K | | 16V | |
| C132 | 303 454 0415 | CERAMIC | | 0.068U K | | 16V | |
| C133 | 303 454 0415 | CERAMIC | | 0.068U K | | 16V | |
| C1331 | 303 453 7118 | CERAMIC | | 12P J | | 50V | |
| | 303 453 9112 | CERAMIC | | 12P J | | 50V | |
| | 303 276 2918 | CERAMIC | | 12P J | | 50V | |
| C1332 | 303 453 7118 | CERAMIC | | 12P J | | 50V | |
| | 303 453 9112 | CERAMIC | | 12P J | | 50V | |
| | 303 276 2918 | CERAMIC | | 12P J | | 50V | |
| C134 | 303 454 0415 | CERAMIC | | 0.068U K | | 16V | |
| C135 | 303 454 0415 | CERAMIC | | 0.068U K | | 16V | |
| C136 | 303 454 0415 | CERAMIC | | 0.068U K | | 16V | |
| C137 | 303 454 0415 | CERAMIC | | 0.068U K | | 16V | |
| C1371 | 403 461 3710 | CERAMIC | | 0.1U Z | | 25V | |
| | 303 454 0514 | CERAMIC | | 0.1U Z | | 25V | |
| | 303 343 3718 | CERAMIC | | 0.1U Z | | 25V | |
| C138 | 303 454 0415 | CERAMIC | | 0.068U K | | 16V | |
| C139 | 303 454 0415 | CERAMIC | | 0.068U K | | 16V | |
| C140 | 303 379 6714 | CERAMIC | | 10U K | | 16V | |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|---------|--------------|-------------|---------|----------|-------------|
| C164 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C165 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C166 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C167 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C168 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C170 | 303 453 9310 | CERAMIC | | 0.22U Z | 16V |
| | 303 442 0212 | CERAMIC | | 0.22U Z | 16V |
| C171 | 303 453 9310 | CERAMIC | | 0.22U Z | 16V |
| | 303 442 0212 | CERAMIC | | 0.22U Z | 16V |
| C173 | 303 453 9310 | CERAMIC | | 0.22U Z | 16V |
| | 303 442 0212 | CERAMIC | | 0.22U Z | 16V |
| C174 | 303 453 9310 | CERAMIC | | 0.22U Z | 16V |
| | 303 442 0212 | CERAMIC | | 0.22U Z | 16V |
| C175 | 303 394 1312 | ELECT | | 100U M | 6.3V |
| | 303 387 4917 | ELECT | | 100U M | 6.3V |
| C176 | 303 453 9310 | CERAMIC | | 0.22U Z | 16V |
| | 303 442 0212 | CERAMIC | | 0.22U Z | 16V |
| C180 | 303 453 8214 | CERAMIC | | 10P J | 50V |
| | 303 453 9013 | CERAMIC | | 10P J | 50V |
| | 303 279 6210 | CERAMIC | | 10P J | 50V |
| C1801 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1802 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1803 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1804 | 303 453 8511 | CERAMIC | | 1000P K | 50V |
| | 303 454 1214 | CERAMIC | | 1000P K | 50V |
| C1805 | 303 453 7910 | CERAMIC | | 18P J | 50V |
| | 303 454 0712 | CERAMIC | | 18P J | 50V |
| | 303 276 2819 | CERAMIC | | 18P J | 50V |
| C1806 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1807 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1808 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1809 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1810 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1811 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1812 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1820 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| C1821 | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1822 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1823 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1830 | 303 449 1212 | POS-SOLID | | 47U M | 6.3V |
| C1831 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1833 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C1837 | 303 453 6616 | CERAMIC | | 6P D | 50V |
| | 303 454 0217 | CERAMIC | | 6P D | 50V |
| | 303 279 2915 | CERAMIC | | 6P D | 50V |
| C1871 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C2001 | 303 453 8917 | CERAMIC | | 0.1U K | 16V |
| | 303 453 8610 | CERAMIC | | 0.1U K | 16V |
| C2002 | 303 449 1212 | POS-SOLID | | 47U M | 6.3V |
| C2013 | 403 461 3710 | CERAMIC | | 0.1U Z | 25V |
| | 303 454 0514 | CERAMIC | | 0.1U Z | 25V |
| | 303 343 3718 | CERAMIC | | 0.1U Z | 25V |
| C2023 | 303 391 5412 | ELECT | | 22U M | 6.3V |
| C2033 | 303 391 5412 | ELECT | | 22U M | 6.3V |
| C2041 | 303 323 8818 | CERAMIC | | 2.2U Z | 16V |
| C2051 | 303 323 8818 | CERAMIC | | 2.2U Z | 16V |
| C2504 | 303 453 8016 | CERAMIC | | 1U Z | 6.3V |
| | 303 454 1313 | CERAMIC | | 1U Z | 6.3V |
| | 303 373 5218 | CERAMIC | | 1U Z | 6.3V |
| C2506 | 303 396 9613 | CERAMIC | | 1U K | 25V |
| C2507 | 303 396 9613 | CERAMIC | | 1U K | 25V |
| C2508 | 303 396 9613 | CERAMIC | | 1U K | 25V |
| C2509 | 303 453 8016 | CERAMIC | | 1U Z | 6.3V |
| | 303 454 1313 | CERAMIC | | 1U Z | 6.3V |
| | 303 373 5218 | CERAMIC | | 1U Z | 6.3V |
| C2511 | 303 453 8016 | CERAMIC | | 1U Z | 6.3V |
| | 303 454 1313 | CERAMIC | | 1U Z | 6.3V |
| | 303 373 5218 | CERAMIC | | 1U Z | 6.3V |
| C2512 | 303 453 8016 | CERAMIC | | 1U Z | 6.3V |
| | 303 454 1313 | CERAMIC | | 1U Z | 6.3V |
| | 303 373 5218 | CERAMIC | | 1U Z | 6.3V |
| C2513 | 303 396 9613 | CERAMIC | | 1U K | 25V |
| C2514 | 303 391 5511 | ELECT | | 10U M | 16V |
| | 303 175 7212 | ELECT | | 10U M | 16V |
| C2534 | 303 453 8016 | CERAMIC | | 1U Z | 6.3V |
| | 303 454 1313 | CERAMIC | | 1U Z | 6.3V |
| | 303 373 5218 | CERAMIC | | 1U Z | 6.3V |
| C2535 | 303 391 5115 | ELECT | | 100U M | 16V |
| | 303 296 9515 | ELECT | | 100U M | 16V |
| C2536 | 303 396 9613 | CERAMIC | | 1U K | 25V |
| C2537 | 303 396 9613 | CERAMIC | | 1U K | 25V |
| C2538 | 303 396 9613 | CERAMIC | | 1U K | 25V |
| C2539 | 303 453 8016 | CERAMIC | | 1U Z | 6.3V |
| | 303 454 1313 | CERAMIC | | 1U Z | 6.3V |
| | 303 373 5218 | CERAMIC | | 1U Z | 6.3V |
| C2541 | 303 453 8016 | CERAMIC | | 1U Z | 6.3V |
| | 303 454 1313 | CERAMIC | | 1U Z | 6.3V |
| | 303 373 5218 | CERAMIC | | 1U Z | 6.3V |
| C2542 | 303 453 8016 | CERAMIC | | 1U Z | 6.3V |
| | 303 454 1313 | CERAMIC | | 1U Z | 6.3V |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|---------|--------------|-------------|---------|--------------|-------------|
| | 303 373 5218 | CERAMIC | | 303 343 3718 | CERAMIC |
| C2543 | 303 396 9613 | CERAMIC | | 403 461 3710 | CERAMIC |
| C2544 | 303 391 5511 | ELECT | C311 | 303 454 0514 | CERAMIC |
| | 303 175 7212 | ELECT | | 303 343 3718 | CERAMIC |
| C2564 | 303 453 8016 | CERAMIC | C312 | 403 461 3710 | CERAMIC |
| | 303 454 1313 | CERAMIC | | 303 454 0514 | CERAMIC |
| | 303 373 5218 | CERAMIC | | 303 343 3718 | CERAMIC |
| C2565 | 303 391 5115 | ELECT | C313 | 403 461 3710 | CERAMIC |
| | 303 296 9515 | ELECT | | 303 454 0514 | CERAMIC |
| C2566 | 303 396 9613 | CERAMIC | | 303 343 3718 | CERAMIC |
| C2567 | 303 396 9613 | CERAMIC | C314 | 403 461 3710 | CERAMIC |
| C2568 | 303 396 9613 | CERAMIC | | 303 454 0514 | CERAMIC |
| C2569 | 303 453 8016 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 454 1313 | CERAMIC | C316 | 403 461 3710 | CERAMIC |
| | 303 373 5218 | CERAMIC | | 303 454 0514 | CERAMIC |
| C2571 | 303 453 8016 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 454 1313 | CERAMIC | C317 | 403 461 3710 | CERAMIC |
| | 303 373 5218 | CERAMIC | | 303 454 0514 | CERAMIC |
| C2572 | 303 453 8016 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 454 1313 | CERAMIC | C318 | 403 461 3710 | CERAMIC |
| | 303 373 5218 | CERAMIC | | 303 454 0514 | CERAMIC |
| C2573 | 303 396 9613 | CERAMIC | | 303 343 3718 | CERAMIC |
| C2574 | 303 391 5511 | ELECT | C319 | 403 461 3710 | CERAMIC |
| | 303 175 7212 | ELECT | | 303 454 0514 | CERAMIC |
| C2891 | 403 461 3710 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 454 0514 | CERAMIC | C321 | 403 461 3710 | CERAMIC |
| | 303 343 3718 | CERAMIC | | 303 454 0514 | CERAMIC |
| C2892 | 303 453 7217 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 454 1610 | CERAMIC | C322 | 403 461 3710 | CERAMIC |
| | 303 305 8812 | CERAMIC | | 303 454 0514 | CERAMIC |
| C3001 | 303 323 8818 | CERAMIC | | 303 343 3718 | CERAMIC |
| C301 | 403 461 3710 | CERAMIC | C323 | 403 461 3710 | CERAMIC |
| | 303 454 0514 | CERAMIC | | 303 454 0514 | CERAMIC |
| | 303 343 3718 | CERAMIC | | 303 343 3718 | CERAMIC |
| C3011 | 303 323 8818 | CERAMIC | C324 | 403 461 3710 | CERAMIC |
| C302 | 403 461 3710 | CERAMIC | | 303 454 0514 | CERAMIC |
| | 303 454 0514 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 343 3718 | CERAMIC | C326 | 403 461 3710 | CERAMIC |
| C303 | 403 461 3710 | CERAMIC | | 303 454 0514 | CERAMIC |
| | 303 454 0514 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 343 3718 | CERAMIC | C327 | 403 461 3710 | CERAMIC |
| C304 | 403 461 3710 | CERAMIC | | 303 454 0514 | CERAMIC |
| | 303 454 0514 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 343 3718 | CERAMIC | C329 | 403 455 1012 | CERAMIC |
| C3051 | 303 453 6319 | CERAMIC | | 303 433 1112 | CERAMIC |
| | 303 454 0910 | CERAMIC | C331 | 403 461 3710 | CERAMIC |
| | 303 294 6110 | CERAMIC | | 303 454 0514 | CERAMIC |
| C3052 | 303 439 8412 | CERAMIC | | 303 343 3718 | CERAMIC |
| C3053 | 403 455 1012 | CERAMIC | C332 | 403 461 3710 | CERAMIC |
| | 303 433 1112 | CERAMIC | | 303 454 0514 | CERAMIC |
| C306 | 403 461 3710 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 454 0514 | CERAMIC | C336 | 403 455 1012 | CERAMIC |
| | 303 343 3718 | CERAMIC | | 303 433 1112 | CERAMIC |
| C3061 | 303 453 6319 | CERAMIC | C340 | 303 347 5510 | POS-SOLID |
| | 303 454 0910 | CERAMIC | | 303 396 9613 | CERAMIC |
| | 303 294 6110 | CERAMIC | C3501 | 303 396 9613 | CERAMIC |
| C307 | 403 461 3710 | CERAMIC | C3502 | 303 396 9613 | CERAMIC |
| | 303 454 0514 | CERAMIC | C3503 | 303 391 5115 | ELECT |
| | 303 343 3718 | CERAMIC | | 303 296 9515 | ELECT |
| C308 | 403 461 3710 | CERAMIC | C3504 | 303 396 9613 | CERAMIC |
| | 303 454 0514 | CERAMIC | C3505 | 303 391 5511 | ELECT |
| | 303 343 3718 | CERAMIC | | 303 175 7212 | ELECT |
| C309 | 403 461 3710 | CERAMIC | C3506 | 303 396 9613 | CERAMIC |
| | 303 454 0514 | CERAMIC | C3507 | 303 396 9613 | CERAMIC |
| | 303 343 3718 | CERAMIC | C3508 | 303 391 5115 | ELECT |
| C3091 | 403 461 3710 | CERAMIC | | 303 296 9515 | ELECT |
| | 303 454 0514 | CERAMIC | C3509 | 303 398 3817 | ELECT |
| | | | C3531 | 303 396 9613 | CERAMIC |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|---------|--------------|-----------------------|---------|--------------|----------------------|
| C3532 | 303 396 9613 | CERAMIC 1U K 25V | C413 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C3533 | 303 391 5115 | ELECT 100U M 16V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 296 9515 | ELECT 100U M 16V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C3534 | 303 396 9613 | CERAMIC 1U K 25V | C414 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C3535 | 303 391 5511 | ELECT 10U M 16V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 175 7212 | ELECT 10U M 16V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C3536 | 303 396 9613 | CERAMIC 1U K 25V | C416 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C3555 | 303 341 3918 | POS-SOLID 100U M 6.3V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| C3561 | 303 396 9613 | CERAMIC 1U K 25V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C3562 | 303 396 9613 | CERAMIC 1U K 25V | C417 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C3563 | 303 391 5115 | ELECT 100U M 16V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 296 9515 | ELECT 100U M 16V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C3564 | 303 396 9613 | CERAMIC 1U K 25V | C421 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C3565 | 303 391 5511 | ELECT 10U M 16V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 175 7212 | ELECT 10U M 16V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C3566 | 303 396 9613 | CERAMIC 1U K 25V | C422 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C3571 | 303 391 5511 | ELECT 10U M 16V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 175 7212 | ELECT 10U M 16V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C3581 | 303 394 1312 | ELECT 100U M 6.3V | C423 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 387 4917 | ELECT 100U M 6.3V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| C3801 | 303 439 8412 | CERAMIC 2.2U M 6.3V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C3802 | 303 439 8412 | CERAMIC 2.2U M 6.3V | C424 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C3803 | 303 439 8412 | CERAMIC 2.2U M 6.3V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| C3804 | 303 439 8412 | CERAMIC 2.2U M 6.3V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C3806 | 303 454 1412 | CERAMIC 1U Z 10V | C426 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 442 2018 | CERAMIC 1U Z 10V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| C4001 | 303 453 8917 | CERAMIC 0.1U K 16V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| | 303 453 8610 | CERAMIC 0.1U K 16V | C427 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C4002 | 303 453 8917 | CERAMIC 0.1U K 16V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 453 8610 | CERAMIC 0.1U K 16V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C4003 | 403 461 3710 | CERAMIC 0.1U Z 25V | C431 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 454 0514 | CERAMIC 0.1U Z 25V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 343 3718 | CERAMIC 0.1U Z 25V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C401 | 303 453 8016 | CERAMIC 1U Z 6.3V | C432 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C4011 | 403 461 3710 | CERAMIC 0.1U Z 25V | C433 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 454 0514 | CERAMIC 0.1U Z 25V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 343 3718 | CERAMIC 0.1U Z 25V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C4012 | 403 461 3710 | CERAMIC 0.1U Z 25V | C434 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 454 0514 | CERAMIC 0.1U Z 25V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 343 3718 | CERAMIC 0.1U Z 25V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C4013 | 403 461 3710 | CERAMIC 0.1U Z 25V | C436 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 454 0514 | CERAMIC 0.1U Z 25V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 343 3718 | CERAMIC 0.1U Z 25V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C402 | 303 453 8016 | CERAMIC 1U Z 6.3V | C437 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C403 | 303 453 8016 | CERAMIC 1U Z 6.3V | C438 | 303 449 1212 | POS-SOLID 47U M 6.3V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | C439 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| C404 | 303 453 8016 | CERAMIC 1U Z 6.3V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | C471 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| C4057 | 303 449 1212 | POS-SOLID 47U M 6.3V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C406 | 303 453 8016 | CERAMIC 1U Z 6.3V | C479 | 303 392 1215 | ELECT 47U M 6.3V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | C480 | 303 449 1212 | POS-SOLID 47U M 6.3V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | C4808 | 303 378 3110 | CERAMIC 47U Z 6.3V |
| C407 | 303 453 8016 | CERAMIC 1U Z 6.3V | C481 | 303 449 1212 | POS-SOLID 47U M 6.3V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | C482 | 303 449 1212 | POS-SOLID 47U M 6.3V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | C483 | 303 449 1212 | POS-SOLID 47U M 6.3V |
| C411 | 303 453 8016 | CERAMIC 1U Z 6.3V | C4891 | 303 453 8917 | CERAMIC 0.1U K 16V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | | 303 453 8610 | CERAMIC 0.1U K 16V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | C4892 | 303 453 8917 | CERAMIC 0.1U K 16V |
| C412 | 303 453 8016 | CERAMIC 1U Z 6.3V | | 303 453 8610 | CERAMIC 0.1U K 16V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | C5001 | 303 453 8917 | CERAMIC 0.1U K 16V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | | 303 453 8610 | CERAMIC 0.1U K 16V |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|---------|--------------|---------------------|---------|--------------|----------------------|
| C5002 | 303 454 0613 | CERAMIC 0.01U K 50V | C5081 | 303 379 6714 | CERAMIC 10U K 16V |
| C5003 | 303 454 0613 | CERAMIC 0.01U K 50V | C5083 | 303 394 1312 | ELECT 100U M 6.3V |
| C5004 | 303 453 8917 | CERAMIC 0.1U K 16V | | 303 387 4917 | ELECT 100U M 6.3V |
| | 303 453 8610 | CERAMIC 0.1U K 16V | C5084 | 403 461 3710 | CERAMIC 0.1U Z 25V |
| C5006 | 303 453 8917 | CERAMIC 0.1U K 16V | | 303 454 0514 | CERAMIC 0.1U Z 25V |
| | 303 453 8610 | CERAMIC 0.1U K 16V | | 303 343 3718 | CERAMIC 0.1U Z 25V |
| C5007 | 303 454 0613 | CERAMIC 0.01U K 50V | C5086 | 303 394 1312 | ELECT 100U M 6.3V |
| C5008 | 303 454 0613 | CERAMIC 0.01U K 50V | | 303 387 4917 | ELECT 100U M 6.3V |
| C5009 | 303 453 8917 | CERAMIC 0.1U K 16V | C5087 | 303 394 9318 | ELECT 220U M 6.3V |
| | 303 453 8610 | CERAMIC 0.1U K 16V | | 303 387 5112 | ELECT 220U M 6.3V |
| C501 | 303 453 8016 | CERAMIC 1U Z 6.3V | C5088 | 303 394 9318 | ELECT 220U M 6.3V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | | 303 387 5112 | ELECT 220U M 6.3V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | C509 | 303 396 9613 | CERAMIC 1U K 25V |
| C5011 | 303 071 8115 | CERAMIC 2200P K 50V | C510 | 303 396 9613 | CERAMIC 1U K 25V |
| C5012 | 303 453 8917 | CERAMIC 0.1U K 16V | C511 | 303 396 9613 | CERAMIC 1U K 25V |
| | 303 453 8610 | CERAMIC 0.1U K 16V | C512 | 303 396 9613 | CERAMIC 1U K 25V |
| C5013 | 303 454 1412 | CERAMIC 1U Z 10V | C513 | 303 396 9613 | CERAMIC 1U K 25V |
| | 303 442 2018 | CERAMIC 1U Z 10V | C514 | 303 396 9613 | CERAMIC 1U K 25V |
| C5014 | 303 454 1412 | CERAMIC 1U Z 10V | C515 | 303 396 9613 | CERAMIC 1U K 25V |
| | 303 442 2018 | CERAMIC 1U Z 10V | C516 | 303 453 8511 | CERAMIC 1000P K 50V |
| C5016 | 303 071 8115 | CERAMIC 2200P K 50V | | 303 454 1214 | CERAMIC 1000P K 50V |
| C5017 | 303 453 8917 | CERAMIC 0.1U K 16V | C517 | 303 396 9613 | CERAMIC 1U K 25V |
| | 303 453 8610 | CERAMIC 0.1U K 16V | C519 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C5018 | 303 279 4315 | CERAMIC 0.33U K 16V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| C5019 | 403 455 1012 | CERAMIC 1U K 10V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| | 303 433 1112 | CERAMIC 1U K 10V | C520 | 303 396 9613 | CERAMIC 1U K 25V |
| C502 | 303 453 8016 | CERAMIC 1U Z 6.3V | C5201 | 303 323 8818 | CERAMIC 2.2U Z 16V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | C5202 | 303 323 8818 | CERAMIC 2.2U Z 16V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | C5203 | 303 323 8818 | CERAMIC 2.2U Z 16V |
| C5021 | 403 455 1012 | CERAMIC 1U K 10V | C5204 | 303 323 8818 | CERAMIC 2.2U Z 16V |
| | 303 433 1112 | CERAMIC 1U K 10V | C5206 | 403 455 1012 | CERAMIC 1U K 10V |
| C5022 | 403 455 1012 | CERAMIC 1U K 10V | | 303 433 1112 | CERAMIC 1U K 10V |
| | 303 433 1112 | CERAMIC 1U K 10V | C5207 | 303 314 5918 | CERAMIC 0.47U K 16V |
| C5023 | 303 454 1412 | CERAMIC 1U Z 10V | C5208 | 303 323 8818 | CERAMIC 2.2U Z 16V |
| | 303 442 2018 | CERAMIC 1U Z 10V | C5209 | 303 323 8818 | CERAMIC 2.2U Z 16V |
| C5024 | 303 379 6714 | CERAMIC 10U K 16V | C5212 | 303 453 8917 | CERAMIC 0.1U K 16V |
| C5025 | 303 391 5511 | ELECT 10U M 16V | | 303 453 8610 | CERAMIC 0.1U K 16V |
| | 303 175 7212 | ELECT 10U M 16V | C5214 | 303 454 0613 | CERAMIC 0.01U K 50V |
| C5026 | 303 391 5511 | ELECT 10U M 16V | C5219 | 303 207 0310 | CERAMIC 1U Z 16V |
| | 303 175 7212 | ELECT 10U M 16V | C5221 | 303 379 6714 | CERAMIC 10U K 16V |
| C5027 | 303 391 5511 | ELECT 10U M 16V | C5222 | 403 455 1012 | CERAMIC 1U K 10V |
| | 303 175 7212 | ELECT 10U M 16V | | 303 433 1112 | CERAMIC 1U K 10V |
| C5028 | 303 391 5511 | ELECT 10U M 16V | C5223 | 303 394 9318 | ELECT 220U M 6.3V |
| | 303 175 7212 | ELECT 10U M 16V | | 303 387 5112 | ELECT 220U M 6.3V |
| C503 | 303 453 8016 | CERAMIC 1U Z 6.3V | C524 | 303 391 5511 | ELECT 10U M 16V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | | 303 175 7212 | ELECT 10U M 16V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | C5241 | 403 461 3710 | CERAMIC 0.1U Z 25V |
| C5031 | 303 323 8818 | CERAMIC 2.2U Z 16V | | 303 454 0514 | CERAMIC 0.1U Z 25V |
| C5032 | 303 314 5918 | CERAMIC 0.47U K 16V | | 303 343 3718 | CERAMIC 0.1U Z 25V |
| C5033 | 303 454 1412 | CERAMIC 1U Z 10V | C526 | 303 391 5115 | ELECT 100U M 16V |
| | 303 442 2018 | CERAMIC 1U Z 10V | | 303 296 9515 | ELECT 100U M 16V |
| C5037 | 303 454 1412 | CERAMIC 1U Z 10V | C529 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 442 2018 | CERAMIC 1U Z 10V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| C5038 | 303 454 0613 | CERAMIC 0.01U K 50V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C5039 | 303 454 0613 | CERAMIC 0.01U K 50V | C5301 | 303 449 1212 | POS-SOLID 47U M 6.3V |
| C504 | 303 453 8016 | CERAMIC 1U Z 6.3V | C5302 | 403 455 1012 | CERAMIC 1U K 10V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | | 303 433 1112 | CERAMIC 1U K 10V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | C5303 | 303 355 9913 | CERAMIC 2.2U K 10V |
| C5041 | 303 454 0613 | CERAMIC 0.01U K 50V | C5304 | 303 314 5918 | CERAMIC 0.47U K 16V |
| C505 | 303 396 9613 | CERAMIC 1U K 25V | C5306 | 303 316 5411 | CERAMIC 1U K 10V |
| C506 | 303 396 9613 | CERAMIC 1U K 25V | C5307 | 303 314 5918 | CERAMIC 0.47U K 16V |
| C5061 | 303 391 5511 | ELECT 10U M 16V | C5308 | 303 355 9913 | CERAMIC 2.2U K 10V |
| | 303 175 7212 | ELECT 10U M 16V | C5309 | 403 455 1012 | CERAMIC 1U K 10V |
| C5069 | 303 391 5511 | ELECT 10U M 16V | | 303 433 1112 | CERAMIC 1U K 10V |
| | 303 175 7212 | ELECT 10U M 16V | C531 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C507 | 303 396 9613 | CERAMIC 1U K 25V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| C508 | 303 396 9613 | CERAMIC 1U K 25V | | 303 373 5218 | CERAMIC 1U Z 6.3V |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|---------|--------------|----------------------|---------|--------------|---------------------|
| C5311 | 303 453 6319 | CERAMIC 100P J 50V | C5609 | 303 391 5115 | ELECT 100U M 16V |
| | 303 454 0910 | CERAMIC 100P J 50V | | 303 296 9515 | ELECT 100U M 16V |
| | 303 294 6110 | CERAMIC 100P J 50V | C561 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C5312 | 303 323 8818 | CERAMIC 2.2U Z 16V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| C5313 | 303 449 1212 | POS-SOLID 47U M 6.3V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C5314 | 403 455 1012 | CERAMIC 1U K 10V | C5612 | 303 398 1813 | ELECT 220U M 6.3V |
| | 303 433 1112 | CERAMIC 1U K 10V | | 303 224 3417 | ELECT 220U M 6.3V |
| C5315 | 303 454 1412 | CERAMIC 1U Z 10V | C562 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| | 303 442 2018 | CERAMIC 1U Z 10V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| C5316 | 303 207 0310 | CERAMIC 1U Z 16V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| C5317 | 403 455 1012 | CERAMIC 1U K 10V | C5621 | 403 461 3710 | CERAMIC 0.1U Z 25V |
| | 303 433 1112 | CERAMIC 1U K 10V | | 303 454 0514 | CERAMIC 0.1U Z 25V |
| C5318 | 303 453 8214 | CERAMIC 10P J 50V | | 303 343 3718 | CERAMIC 0.1U Z 25V |
| | 303 453 9013 | CERAMIC 10P J 50V | C5622 | 303 394 1312 | ELECT 100U M 6.3V |
| | 303 279 6210 | CERAMIC 10P J 50V | C5623 | 403 461 3710 | CERAMIC 0.1U Z 25V |
| C532 | 303 453 8016 | CERAMIC 1U Z 6.3V | | 303 454 0514 | CERAMIC 0.1U Z 25V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | | 303 343 3718 | CERAMIC 0.1U Z 25V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | C563 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C533 | 303 453 8016 | CERAMIC 1U Z 6.3V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | C564 | 303 453 8016 | CERAMIC 1U Z 6.3V |
| C534 | 303 453 8016 | CERAMIC 1U Z 6.3V | | 303 454 1313 | CERAMIC 1U Z 6.3V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | | 303 373 5218 | CERAMIC 1U Z 6.3V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | C5641 | 303 296 9515 | ELECT 100U M 16V |
| C535 | 303 396 9613 | CERAMIC 1U K 25V | C5642 | 403 461 3710 | CERAMIC 0.1U Z 25V |
| C536 | 303 396 9613 | CERAMIC 1U K 25V | | 303 454 0514 | CERAMIC 0.1U Z 25V |
| C537 | 303 396 9613 | CERAMIC 1U K 25V | | 303 343 3718 | CERAMIC 0.1U Z 25V |
| C538 | 303 396 9613 | CERAMIC 1U K 25V | C5643 | 303 391 5115 | ELECT 100U M 16V |
| C539 | 303 396 9613 | CERAMIC 1U K 25V | | 303 296 9515 | ELECT 100U M 16V |
| C540 | 303 396 9613 | CERAMIC 1U K 25V | C5644 | 303 374 8416 | OS-SOLID 39U M 16V |
| C541 | 303 396 9613 | CERAMIC 1U K 25V | C565 | 303 396 9613 | CERAMIC 1U K 25V |
| C542 | 303 396 9613 | CERAMIC 1U K 25V | C5651 | 303 453 6913 | CERAMIC 330P J 50V |
| C543 | 303 396 9613 | CERAMIC 1U K 25V | | 303 305 4715 | CERAMIC 330P J 50V |
| C544 | 303 396 9613 | CERAMIC 1U K 25V | C5652 | 303 454 1016 | CERAMIC 8200P K 50V |
| C545 | 303 396 9613 | CERAMIC 1U K 25V | C5653 | 303 376 6311 | CERAMIC 0.47U K 10V |
| C546 | 303 453 8511 | CERAMIC 1000P K 50V | C5654 | 403 461 3710 | CERAMIC 0.1U Z 25V |
| | 303 454 1214 | CERAMIC 1000P K 50V | | 303 454 0514 | CERAMIC 0.1U Z 25V |
| C547 | 303 396 9613 | CERAMIC 1U K 25V | | 303 343 3718 | CERAMIC 0.1U Z 25V |
| C549 | 303 453 8016 | CERAMIC 1U Z 6.3V | C5655 | 403 461 3710 | CERAMIC 0.1U Z 25V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | | 303 454 0514 | CERAMIC 0.1U Z 25V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | | 303 343 3718 | CERAMIC 0.1U Z 25V |
| C550 | 303 396 9613 | CERAMIC 1U K 25V | C5656 | 303 453 8917 | CERAMIC 0.1U K 16V |
| C554 | 303 391 5511 | ELECT 10U M 16V | | 303 453 8610 | CERAMIC 0.1U K 16V |
| | 303 175 7212 | ELECT 10U M 16V | C5657 | 303 453 9310 | CERAMIC 0.22U Z 16V |
| C556 | 303 391 5115 | ELECT 100U M 16V | | 303 442 0212 | CERAMIC 0.22U Z 16V |
| | 303 296 9515 | ELECT 100U M 16V | C5658 | 303 454 1818 | CERAMIC 2200P K 50V |
| C559 | 303 453 8016 | CERAMIC 1U Z 6.3V | C5659 | 303 454 1917 | CERAMIC 4700P K 50V |
| | 303 454 1313 | CERAMIC 1U Z 6.3V | C566 | 303 396 9613 | CERAMIC 1U K 25V |
| | 303 373 5218 | CERAMIC 1U Z 6.3V | C5660 | 303 454 1917 | CERAMIC 4700P K 50V |
| C5600 | 303 398 1813 | ELECT 220U M 6.3V | C5661 | 303 394 9318 | ELECT 220U M 6.3V |
| | 303 224 3417 | ELECT 220U M 6.3V | | 303 387 5112 | ELECT 220U M 6.3V |
| C5601 | 303 394 9318 | ELECT 220U M 6.3V | C5666 | 303 454 1016 | CERAMIC 8200P K 50V |
| | 303 387 5112 | ELECT 220U M 6.3V | C5667 | 303 347 5510 | POS-SOLID 470U M 4V |
| C5602 | 403 461 3710 | CERAMIC 0.1U Z 25V | C5669 | 403 461 3710 | CERAMIC 0.1U Z 25V |
| | 303 454 0514 | CERAMIC 0.1U Z 25V | | 303 454 0514 | CERAMIC 0.1U Z 25V |
| | 303 343 3718 | CERAMIC 0.1U Z 25V | | 303 343 3718 | CERAMIC 0.1U Z 25V |
| C5603 | 303 394 9318 | ELECT 220U M 6.3V | C567 | 303 396 9613 | CERAMIC 1U K 25V |
| | 303 387 5112 | ELECT 220U M 6.3V | C5671 | 303 394 9318 | ELECT 220U M 6.3V |
| C5604 | 403 461 3710 | CERAMIC 0.1U Z 25V | | 303 387 5112 | ELECT 220U M 6.3V |
| | 303 454 0514 | CERAMIC 0.1U Z 25V | C5676 | 303 454 1016 | CERAMIC 8200P K 50V |
| | 303 343 3718 | CERAMIC 0.1U Z 25V | C568 | 303 396 9613 | CERAMIC 1U K 25V |
| C5606 | 303 391 5115 | ELECT 100U M 16V | C5680 | 303 376 6311 | CERAMIC 0.47U K 10V |
| | 303 296 9515 | ELECT 100U M 16V | C5681 | 303 347 5510 | POS-SOLID 470U M 4V |
| C5607 | 303 391 5115 | ELECT 100U M 16V | C5682 | 403 461 3710 | CERAMIC 0.1U Z 25V |
| | 303 296 9515 | ELECT 100U M 16V | | 303 454 0514 | CERAMIC 0.1U Z 25V |
| C5608 | 303 394 9318 | ELECT 220U M 6.3V | | 303 343 3718 | CERAMIC 0.1U Z 25V |
| | 303 387 5112 | ELECT 220U M 6.3V | C5684 | 403 461 3710 | CERAMIC 0.1U Z 25V |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|---------|--------------|-------------|---------|--------------|-------------|
| | 303 454 0514 | CERAMIC | | 303 454 1917 | CERAMIC |
| | 303 343 3718 | CERAMIC | | 303 381 5316 | ELECT |
| C5687 | 303 394 1312 | ELECT | C7872 | 303 381 5316 | ELECT |
| | 303 387 4917 | ELECT | | 303 369 3211 | ELECT |
| C569 | 303 396 9613 | CERAMIC | | 303 381 5316 | ELECT |
| C5691 | 403 461 3710 | CERAMIC | | 303 369 3211 | ELECT |
| | 303 454 0514 | CERAMIC | C7874 | 303 381 5316 | ELECT |
| | 303 343 3718 | CERAMIC | | 303 369 3211 | ELECT |
| C5692 | 403 461 3710 | CERAMIC | C801 | 403 461 3710 | CERAMIC |
| | 303 454 0514 | CERAMIC | | 303 454 0514 | CERAMIC |
| | 303 343 3718 | CERAMIC | | 303 343 3718 | CERAMIC |
| C5693 | 303 453 8511 | CERAMIC | C8203 | 303 439 8412 | CERAMIC |
| | 303 454 1214 | CERAMIC | C8204 | 303 453 7217 | CERAMIC |
| C570 | 303 396 9613 | CERAMIC | | 303 454 1610 | CERAMIC |
| C5704 | 303 454 1016 | CERAMIC | | 303 305 8812 | CERAMIC |
| C5705 | 303 347 5510 | POS-SOLID | C8206 | 303 398 3817 | ELECT |
| C571 | 303 396 9613 | CERAMIC | C8213 | 303 439 8412 | CERAMIC |
| C5711 | 303 453 8511 | CERAMIC | C8214 | 303 453 7217 | CERAMIC |
| | 303 454 1214 | CERAMIC | | 303 454 1610 | CERAMIC |
| C5712 | 303 453 7613 | CERAMIC | | 303 305 8812 | CERAMIC |
| | 303 320 1317 | CERAMIC | C8216 | 303 398 3817 | ELECT |
| C5713 | 303 449 1212 | POS-SOLID | C8223 | 303 439 8412 | CERAMIC |
| C5714 | 303 454 1412 | CERAMIC | C8224 | 303 453 7217 | CERAMIC |
| | 303 442 2018 | CERAMIC | | 303 454 1610 | CERAMIC |
| C572 | 303 396 9613 | CERAMIC | | 303 305 8812 | CERAMIC |
| C573 | 303 396 9613 | CERAMIC | C8226 | 303 398 3817 | ELECT |
| C574 | 303 396 9613 | CERAMIC | C8251 | 303 449 1212 | POS-SOLID |
| C575 | 303 396 9613 | CERAMIC | C8252 | 403 461 3710 | CERAMIC |
| C576 | 303 453 8511 | CERAMIC | | 303 454 0514 | CERAMIC |
| | 303 454 1214 | CERAMIC | | 303 343 3718 | CERAMIC |
| C577 | 303 396 9613 | CERAMIC | C8253 | 403 461 3710 | CERAMIC |
| C579 | 303 453 8016 | CERAMIC | | 303 454 0514 | CERAMIC |
| | 303 454 1313 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 373 5218 | CERAMIC | C8254 | 403 461 3710 | CERAMIC |
| C580 | 303 396 9613 | CERAMIC | | 303 454 0514 | CERAMIC |
| C584 | 303 175 7212 | ELECT | | 303 343 3718 | CERAMIC |
| C586 | 303 391 5115 | ELECT | C8256 | 303 454 1115 | CERAMIC |
| | 303 296 9515 | ELECT | C8257 | 303 454 0118 | CERAMIC |
| C589 | 303 453 8016 | CERAMIC | | 303 441 9919 | CERAMIC |
| | 303 454 1313 | CERAMIC | C8259 | 403 461 3710 | CERAMIC |
| | 303 373 5218 | CERAMIC | | 303 454 0514 | CERAMIC |
| C6801 | 403 461 3710 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 454 0514 | CERAMIC | C8261 | 403 461 3710 | CERAMIC |
| | 303 343 3718 | CERAMIC | | 303 454 0514 | CERAMIC |
| C6802 | 403 461 3710 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 454 0514 | CERAMIC | C8262 | 303 449 1212 | POS-SOLID |
| | 303 343 3718 | CERAMIC | C8263 | 403 461 3710 | CERAMIC |
| C6803 | 403 461 3710 | CERAMIC | | 303 454 0514 | CERAMIC |
| | 303 454 0514 | CERAMIC | | 303 343 3718 | CERAMIC |
| | 303 343 3718 | CERAMIC | C8264 | 403 461 3710 | CERAMIC |
| C7811 | 303 314 6212 | CERAMIC | | 303 454 0514 | CERAMIC |
| C7813 | 303 381 5316 | ELECT | | 303 343 3718 | CERAMIC |
| | 303 369 3211 | ELECT | C8266 | 403 461 3710 | CERAMIC |
| C7814 | 303 381 5316 | ELECT | | 303 454 0514 | CERAMIC |
| | 303 369 3211 | ELECT | | 303 343 3718 | CERAMIC |
| C7817 | 403 461 3710 | CERAMIC | C8267 | 403 461 3710 | CERAMIC |
| | 303 454 0514 | CERAMIC | | 303 454 0514 | CERAMIC |
| | 303 343 3718 | CERAMIC | | 303 343 3718 | CERAMIC |
| C7818 | 303 454 1917 | CERAMIC | C8268 | 403 461 3710 | CERAMIC |
| C7861 | 303 314 6212 | CERAMIC | | 303 454 0514 | CERAMIC |
| C7863 | 303 381 5316 | ELECT | | 303 343 3718 | CERAMIC |
| | 303 369 3211 | ELECT | C8269 | 403 461 3710 | CERAMIC |
| C7864 | 303 381 5316 | ELECT | | 303 454 0514 | CERAMIC |
| | 303 369 3211 | ELECT | | 303 343 3718 | CERAMIC |
| C7867 | 403 461 3710 | CERAMIC | C8271 | 403 461 3710 | CERAMIC |
| | 303 454 0514 | CERAMIC | | 303 454 0514 | CERAMIC |
| | 303 343 3718 | CERAMIC | | 303 343 3718 | CERAMIC |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|-----------------|--------------|-------------|---------|--------------|-------------------------|
| C8272 | 403 461 3710 | CERAMIC | R1042 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| | 303 454 0514 | CERAMIC | R1043 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| | 303 343 3718 | CERAMIC | R1044 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| C8273 | 403 461 3710 | CERAMIC | R1045 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| | 303 454 0514 | CERAMIC | R1046 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| | 303 343 3718 | CERAMIC | R1047 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| C8274 | 403 461 3710 | CERAMIC | R1048 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| | 303 454 0514 | CERAMIC | R1049 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| | 303 343 3718 | CERAMIC | R1051 | 301 260 4214 | MT-GLAZE 82 JA 1/3W |
| C8291 | 303 449 1212 | POS-SOLID | R1052 | 301 263 7420 | MT-GLAZE 75 JA 1/16W |
| C8292 | 403 461 3710 | CERAMIC | R1053 | 301 225 7915 | MT-GLAZE 220 JA 1/16W |
| | 303 454 0514 | CERAMIC | R1054 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| | 303 343 3718 | CERAMIC | R1055 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| C8293 | 303 372 8715 | OS-SOLID | R1056 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| C8294 | 403 461 3710 | CERAMIC | R1057 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| | 303 454 0514 | CERAMIC | R106 | 301 225 1319 | MT-GLAZE 470 JA 1/16W |
| | 303 343 3718 | CERAMIC | R1061 | 301 260 4214 | MT-GLAZE 82 JA 1/3W |
| C848 | 303 454 0613 | CERAMIC | R1062 | 301 263 7420 | MT-GLAZE 75 JA 1/16W |
| C8811 | 303 453 7019 | CERAMIC | R1063 | 301 225 7915 | MT-GLAZE 220 JA 1/16W |
| | 303 453 9617 | CERAMIC | R1064 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| | 303 276 3113 | CERAMIC | R1066 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| C8812 | 303 453 7019 | CERAMIC | R1067 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| | 303 453 9617 | CERAMIC | R1068 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| | 303 276 3113 | CERAMIC | R1071 | 301 260 4214 | MT-GLAZE 82 JA 1/3W |
| C8813 | 403 461 3710 | CERAMIC | R1072 | 301 263 7420 | MT-GLAZE 75 JA 1/16W |
| | 303 454 0514 | CERAMIC | R1073 | 301 225 7915 | MT-GLAZE 220 JA 1/16W |
| | 303 343 3718 | CERAMIC | R1074 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| C8821 | 303 453 7019 | CERAMIC | R1076 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| | 303 453 9617 | CERAMIC | R1081 | 301 225 1418 | MT-GLAZE 47K JA 1/16W |
| | 303 276 3113 | CERAMIC | R1082 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| C8822 | 303 453 7019 | CERAMIC | R1084 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| | 303 453 9617 | CERAMIC | R1091 | 301 225 1418 | MT-GLAZE 47K JA 1/16W |
| | 303 276 3113 | CERAMIC | R1092 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| C8823 | 403 461 3710 | CERAMIC | R117 | 301 225 8110 | MT-GLAZE 10 JA 1/16W |
| | 303 454 0514 | CERAMIC | R119 | 301 225 8110 | MT-GLAZE 10 JA 1/16W |
| | 303 343 3718 | CERAMIC | R122 | 301 225 8110 | MT-GLAZE 10 JA 1/16W |
| C8831 | 303 453 7019 | CERAMIC | R1321 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| | 303 453 9617 | CERAMIC | R1322 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| | 303 276 3113 | CERAMIC | R1331 | 301 224 9415 | MT-GLAZE 1M JA 1/16W |
| C8832 | 303 453 7019 | CERAMIC | R137 | 945 049 0249 | IMPEDANCE,120 OHM P |
| | 303 453 9617 | CERAMIC | R138 | 301 225 8110 | MT-GLAZE 10 JA 1/16W |
| | 303 276 3113 | CERAMIC | R139 | 301 225 8110 | MT-GLAZE 10 JA 1/16W |
| C8833 | 403 461 3710 | CERAMIC | R141 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| | 303 454 0514 | CERAMIC | R143 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| | 303 343 3718 | CERAMIC | R1476 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| C891 | 403 461 3710 | CERAMIC | R1478 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| | 303 454 0514 | CERAMIC | R1576 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| | 303 343 3718 | CERAMIC | R1578 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| C9882 | 403 461 3710 | CERAMIC | R161 | 301 276 4710 | MT-GLAZE 0.000 ZA 1/3W |
| | 303 454 0514 | CERAMIC | R1802 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| | 303 343 3718 | CERAMIC | R1803 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| | | | R1804 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| | | | R1805 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| RESISTOR | | | R1806 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R1001 | 301 260 4115 | MT-GLAZE | R1807 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R1002 | 301 224 8814 | MT-GLAZE | R1808 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R101 | 301 225 8110 | MT-GLAZE | R1810 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R1011 | 301 260 4115 | MT-GLAZE | R1811 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W |
| R1012 | 301 224 8814 | MT-GLAZE | R1812 | 301 224 9415 | MT-GLAZE 1M JA 1/16W |
| R1021 | 301 260 4115 | MT-GLAZE | R1813 | 301 237 2915 | MT-GLAZE 51 JA 1/16W |
| R1022 | 301 224 8814 | MT-GLAZE | R1814 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R103 | 301 224 9316 | MT-GLAZE | R1815 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R1031 | 301 225 1418 | MT-GLAZE | R1819 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W |
| R1032 | 301 224 8814 | MT-GLAZE | R1827 | 301 241 6619 | MT-GLAZE 62K JA 1/16W |
| R1034 | 301 224 9316 | MT-GLAZE | R1828 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R1036 | 301 224 9316 | MT-GLAZE | R1830 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R1037 | 301 224 8814 | MT-GLAZE | R1831 | 301 225 3818 | MT-GLAZE 1.5K JA 1/16W |
| R1038 | 301 224 8814 | MT-GLAZE | | | |
| R1041 | 301 225 1418 | MT-GLAZE | | | |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|---------|--------------|-------------------------|---------|--------------|-------------------------|
| R1832 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R3051 | 301 224 8913 | MT-GLAZE 100K JA 1/16W |
| R1833 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | R3052 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| R1834 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R3053 | 301 224 8913 | MT-GLAZE 100K JA 1/16W |
| R1837 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R3054 | 301 224 8913 | MT-GLAZE 100K JA 1/16W |
| R1838 | 301 225 3818 | MT-GLAZE 1.5K JA 1/16W | R3056 | 301 224 9415 | MT-GLAZE 1M JA 1/16W |
| R1841 | 301 224 9217 | MT-GLAZE 15K JA 1/16W | R3057 | 301 224 9910 | MT-GLAZE 22K JA 1/16W |
| R1842 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R3061 | 301 224 8913 | MT-GLAZE 100K JA 1/16W |
| R1848 | 301 225 1111 | MT-GLAZE 27 JA 1/16W | R3062 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| R1849 | 301 225 1111 | MT-GLAZE 27 JA 1/16W | R3073 | 301 225 8110 | MT-GLAZE 10 JA 1/16W |
| R1851 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R308 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R1855 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R3091 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| R1861 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R3092 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| R1862 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R310 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R1863 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R312 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R1864 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R314 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R1866 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R321 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R1867 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R322 | 301 225 2019 | MT-GLAZE 680 JA 1/16W |
| R1868 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R323 | 301 225 8011 | MT-GLAZE 330 JA 1/16W |
| R1869 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R327 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R1871 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R328 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R1880 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R329 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R1881 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R330 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R2002 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | R331 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R2003 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R332 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R2004 | 301 224 9217 | MT-GLAZE 15K JA 1/16W | R3501 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R2006 | 301 035 4319 | MT-GLAZE 10 JA 1/8W | R3502 | 301 225 1418 | MT-GLAZE 47K JA 1/16W |
| R2012 | 301 278 0116 | MT-GLAZE 62 JA 1/3W | R3503 | 301 224 8913 | MT-GLAZE 100K JA 1/16W |
| R2013 | 301 225 1418 | MT-GLAZE 47K JA 1/16W | R3505 | 301 225 3818 | MT-GLAZE 1.5K JA 1/16W |
| R2016 | 301 224 9316 | MT-GLAZE 1K JA 1/16W | R3507 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R2018 | 301 225 1418 | MT-GLAZE 47K JA 1/16W | R3509 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R2019 | 301 227 2413 | MT-GLAZE 15 JA 1/16W | R351 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R2022 | 301 278 0116 | MT-GLAZE 62 JA 1/3W | R3510 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R2023 | 301 225 1418 | MT-GLAZE 47K JA 1/16W | R353 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R2026 | 301 224 9316 | MT-GLAZE 1K JA 1/16W | R3531 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R2028 | 301 225 1418 | MT-GLAZE 47K JA 1/16W | R3532 | 301 225 1418 | MT-GLAZE 47K JA 1/16W |
| R2029 | 301 227 2413 | MT-GLAZE 15 JA 1/16W | R3533 | 301 224 8913 | MT-GLAZE 100K JA 1/16W |
| R2032 | 301 278 0116 | MT-GLAZE 62 JA 1/3W | R3535 | 945 044 9032 | FILTER,EMI 2200PF |
| R2033 | 301 225 1418 | MT-GLAZE 47K JA 1/16W | R3538 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| R2034 | 301 234 9917 | MT-GLAZE 6.8K JA 1/16W | R3539 | 301 224 8814 | MT-GLAZE 100 JA 1/16W |
| R2036 | 301 224 9316 | MT-GLAZE 1K JA 1/16W | R354 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W |
| R2038 | 301 225 1418 | MT-GLAZE 47K JA 1/16W | R355 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W |
| R2039 | 301 227 2413 | MT-GLAZE 15 JA 1/16W | R356 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R2041 | 301 224 8913 | MT-GLAZE 100K JA 1/16W | R3561 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R2042 | 301 225 1418 | MT-GLAZE 47K JA 1/16W | R3562 | 301 225 1418 | MT-GLAZE 47K JA 1/16W |
| R2043 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | R3563 | 301 224 8913 | MT-GLAZE 100K JA 1/16W |
| R2051 | 301 224 8913 | MT-GLAZE 100K JA 1/16W | R3571 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W |
| R2052 | 301 225 1418 | MT-GLAZE 47K JA 1/16W | R358 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R2053 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | R3581 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| R2501 | 945 044 9032 | FILTER,EMI 2200PF | R3582 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R2502 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R3583 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R2521 | 301 224 8913 | MT-GLAZE 100K JA 1/16W | R3584 | 301 225 3818 | MT-GLAZE 1.5K JA 1/16W |
| R2531 | 945 044 9032 | FILTER,EMI 2200PF | R359 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R2532 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R3601 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| R2551 | 301 224 8913 | MT-GLAZE 100K JA 1/16W | R3602 | 301 225 0619 | MT-GLAZE 5.6K JA 1/16W |
| R2561 | 945 044 9032 | FILTER,EMI 2200PF | R3621 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R2562 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R3622 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R2581 | 301 224 8913 | MT-GLAZE 100K JA 1/16W | R3623 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R2890 | 301 224 9712 | MT-GLAZE 22 JA 1/16W | R3624 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R2891 | 301 224 9712 | MT-GLAZE 22 JA 1/16W | R3626 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R2892 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | R3627 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R300 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R367 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R3001 | 301 224 8913 | MT-GLAZE 100K JA 1/16W | R370 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R3002 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | R371 | 301 224 9712 | MT-GLAZE 22 JA 1/16W |
| R3003 | 301 225 1418 | MT-GLAZE 47K JA 1/16W | R372 | 301 224 9712 | MT-GLAZE 22 JA 1/16W |
| R3011 | 301 224 8913 | MT-GLAZE 100K JA 1/16W | R376 | 301 224 9712 | MT-GLAZE 22 JA 1/16W |
| R3012 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | R3801 | 301 225 8110 | MT-GLAZE 10 JA 1/16W |
| R3013 | 301 225 1418 | MT-GLAZE 47K JA 1/16W | R3802 | 301 225 8110 | MT-GLAZE 10 JA 1/16W |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|---------|--------------|-------------------|----------|----------|-------------|
| R3804 | 301 225 0213 | MT-GLAZE | 3.3K JA | 1/16W | |
| R3806 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R381 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R382 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R383 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R384 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R386 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R389 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R397 | 301 225 8516 | MT-GLAZE | 1.8K JA | 1/16W | |
| R4001 | 301 224 9514 | MT-GLAZE | 2.2K JA | 1/16W | |
| R4002 | 301 225 0213 | MT-GLAZE | 3.3K JA | 1/16W | |
| R401 | 301 225 1814 | MT-GLAZE | 47 JA | 1/16W | |
| R4011 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R4013 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R4014 | 301 224 9514 | MT-GLAZE | 2.2K JA | 1/16W | |
| R4016 | 301 224 9514 | MT-GLAZE | 2.2K JA | 1/16W | |
| R4017 | 301 224 9514 | MT-GLAZE | 2.2K JA | 1/16W | |
| R402 | 301 225 1814 | MT-GLAZE | 47 JA | 1/16W | |
| R4021 | 301 225 8110 | MT-GLAZE | 10 JA | 1/16W | |
| R4022 | 301 225 8110 | MT-GLAZE | 10 JA | 1/16W | |
| R4023 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R4024 | 301 225 1418 | MT-GLAZE | 47K JA | 1/16W | |
| R4032 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R404 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R4071 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R4072 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R4073 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R4074 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R4076 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R4077 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R421 | 301 225 1814 | MT-GLAZE | 47 JA | 1/16W | |
| R422 | 301 225 1814 | MT-GLAZE | 47 JA | 1/16W | |
| R424 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R437 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R438 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R439 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R441 | 301 225 1814 | MT-GLAZE | 47 JA | 1/16W | |
| R442 | 301 225 1814 | MT-GLAZE | 47 JA | 1/16W | |
| R444 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R472 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R479 | 301 037 5017 | MT-GLAZE | 0.000 ZA | 1/10W | |
| R4834 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R484 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R485 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R486 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R4861 | 301 037 5017 | MT-GLAZE | 0.000 ZA | 1/10W | |
| R4862 | 301 038 5016 | MT-GLAZE | 390 JA | 1/10W | |
| R4863 | 301 225 1616 | MT-GLAZE | 390 JA | 1/16W | |
| R4891 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R5001 | 301 276 4314 | MT-GLAZE | 4.7 JA | 1/3W | |
| R5002 | 301 224 9118 | MT-GLAZE | 150 JA | 1/16W | |
| R5003 | 301 224 9118 | MT-GLAZE | 150 JA | 1/16W | |
| R5004 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R5006 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R5007 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R5008 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R501 | 945 044 9032 | FILTER,EMI 2200PF | | | |
| R5011 | 301 225 1418 | MT-GLAZE | 47K JA | 1/16W | |
| R5012 | 301 225 1418 | MT-GLAZE | 47K JA | 1/16W | |
| R5013 | 301 225 1418 | MT-GLAZE | 47K JA | 1/16W | |
| R5014 | 301 225 1418 | MT-GLAZE | 47K JA | 1/16W | |
| R5031 | 301 225 1319 | MT-GLAZE | 470 JA | 1/16W | |
| R5032 | 301 225 1319 | MT-GLAZE | 470 JA | 1/16W | |
| R5033 | 301 235 1415 | MT-GLAZE | 1.2K JA | 1/16W | |
| R5034 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5036 | 301 235 1415 | MT-GLAZE | 1.2K JA | 1/16W | |
| R5037 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5038 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R5039 | 301 229 7218 | MT-GLAZE | 18K JA | 1/16W | |
| R5041 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5042 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5043 | 301 276 4710 | MT-GLAZE | 0.000 ZA | 1/3W | |
| R5044 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R5046 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R5047 | 301 224 9613 | MT-GLAZE | 2.7K JA | 1/16W | |
| R5048 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5051 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R5052 | 301 284 3613 | MT-GLAZE | 16K JA | 1/16W | |
| R5053 | 301 224 9217 | MT-GLAZE | 15K JA | 1/16W | |
| R5056 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R5058 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R506 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R5061 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5062 | 301 235 1415 | MT-GLAZE | 1.2K JA | 1/16W | |
| R5063 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5064 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5066 | 301 235 1415 | MT-GLAZE | 1.2K JA | 1/16W | |
| R5067 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5068 | 301 235 1415 | MT-GLAZE | 1.2K JA | 1/16W | |
| R5069 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R507 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R5071 | 301 235 1415 | MT-GLAZE | 1.2K JA | 1/16W | |
| R5081 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R5082 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5083 | 301 225 1210 | MT-GLAZE | 4.7K JA | 1/16W | |
| R510 | 301 294 3115 | MT-GLAZE | 1K FA | 1/16W | |
| R511 | 301 225 8110 | MT-GLAZE | 10 JA | 1/16W | |
| R519 | 301 226 1516 | MT-GLAZE | 0.000 ZA | 1/16W | |
| R5201 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R5202 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R5203 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R5204 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5208 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5209 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5212 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5213 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R5216 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R5218 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R5219 | 301 227 2413 | MT-GLAZE | 15 JA | 1/16W | |
| R5226 | 301 224 9514 | MT-GLAZE | 2.2K JA | 1/16W | |
| R5227 | 301 224 9316 | MT-GLAZE | 1K JA | 1/16W | |
| R5228 | 301 227 2413 | MT-GLAZE | 15 JA | 1/16W | |
| R5233 | 301 227 2413 | MT-GLAZE | 15 JA | 1/16W | |
| R5238 | 301 276 4710 | MT-GLAZE | 0.000 ZA | 1/3W | |
| R5239 | 301 037 5116 | MT-GLAZE | 10 JA | 1/10W | |
| R5241 | 301 035 4111 | MT-GLAZE | 0.000 ZA | 1/8W | |
| R5242 | 301 224 8814 | MT-GLAZE | 100 JA | 1/16W | |
| R5243 | 301 224 9613 | MT-GLAZE | 2.7K JA | 1/16W | |
| R5244 | 301 261 1519 | MT-GLAZE | 4.3K JA | 1/16W | |
| R5251 | 301 225 1210 | MT-GLAZE | 4.7K JA | 1/16W | |
| R5254 | 301 225 3818 | MT-GLAZE | 1.5K JA | 1/16W | |
| R5255 | 301 224 9514 | MT-GLAZE | 2.2K JA | 1/16W | |
| R5261 | 301 225 1210 | MT-GLAZE | 4.7K JA | 1/16W | |
| R5262 | 301 225 1319 | MT-GLAZE | 470 JA | 1/16W | |
| R5264 | 301 225 3818 | MT-GLAZE | 1.5K JA | 1/16W | |
| R5265 | 301 224 9514 | MT-GLAZE | 2.2K JA | 1/16W | |
| R5266 | 301 035 4111 | MT-GLAZE | 0.000 ZA | 1/8W | |
| R5271 | 301 225 1210 | MT-GLAZE | 4.7K JA | 1/16W | |
| R5274 | 301 225 3818 | MT-GLAZE | 1.5K JA | 1/16W | |
| R5275 | 301 224 9514 | MT-GLAZE | 2.2K JA | 1/16W | |
| R5281 | 301 224 9019 | MT-GLAZE | 10K JA | 1/16W | |
| R5282 | 301 224 9514 | MT-GLAZE | 2.2K JA | 1/16W | |
| R5283 | 301 225 1319 | MT-GLAZE | 470 JA | 1/16W | |
| R5284 | 301 225 1319 | MT-GLAZE | 470 JA | 1/16W | |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|---------|--------------|-------------------------|---------|--------------|-------------------------|
| R5286 | 301 225 1319 | MT-GLAZE 470 JA 1/16W | R5698 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| R5287 | 301 225 1319 | MT-GLAZE 470 JA 1/16W | R5699 | 301 287 2029 | MT-GLAZE 100K FA 1/16W |
| R5288 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R570 | 301 294 3115 | MT-GLAZE 1K FA 1/16W |
| R5289 | 301 224 9514 | MT-GLAZE 2.2K JA 1/16W | R5701 | 301 328 3913 | MT-GLAZE 36K FA 1/16W |
| R5293 | 301 225 1418 | MT-GLAZE 47K JA 1/16W | R5702 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W |
| R5301 | 301 035 4111 | MT-GLAZE 0.000 ZA 1/8W | R571 | 301 225 8110 | MT-GLAZE 10 JA 1/16W |
| R5303 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | R5713 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| R5304 | 301 224 9415 | MT-GLAZE 1M JA 1/16W | R5715 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5306 | 301 225 1517 | MT-GLAZE 3.9K JA 1/16W | R579 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R531 | 945 044 9032 | FILTER,EMI 2200PF | R590 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5312 | 301 224 9514 | MT-GLAZE 2.2K JA 1/16W | R591 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5313 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | R592 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5314 | 301 225 8615 | MT-GLAZE 560K JA 1/16W | R6801 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W |
| R5316 | 301 224 9316 | MT-GLAZE 1K JA 1/16W | R6802 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5319 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | R6803 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R5321 | 301 224 9316 | MT-GLAZE 1K JA 1/16W | R6804 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W |
| R536 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R6806 | 301 224 9217 | MT-GLAZE 15K JA 1/16W |
| R537 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R6807 | 301 234 9917 | MT-GLAZE 6.8K JA 1/16W |
| R540 | 301 294 3115 | MT-GLAZE 1K FA 1/16W | R6808 | 301 225 1517 | MT-GLAZE 3.9K JA 1/16W |
| R541 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | R6809 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W |
| R549 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R6811 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5601 | 301 190 1710 | MT-GLAZE 0.000 ZA 1W | R6812 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W |
| R561 | 945 044 9032 | FILTER,EMI 2200PF | R6813 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R5611 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | R6818 | 301 225 1517 | MT-GLAZE 3.9K JA 1/16W |
| R5622 | 301 218 8615 | MT-GLAZE 5.6 JA 1W | R6819 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W |
| R5623 | 301 190 1710 | MT-GLAZE 0.000 ZA 1W | R6821 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5625 | 301 198 7516 | MT-GLAZE 15 JA 1W | R6822 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W |
| R5626 | 301 198 7516 | MT-GLAZE 15 JA 1W | R6823 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R5641 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R6831 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5642 | 301 259 2313 | MT-GLAZE 200K JA 1/16W | R6832 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5643 | 301 261 1113 | MT-GLAZE 24K JA 1/16W | R6836 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5650 | 301 259 7823 | MT-GLAZE 20K JA 1/16W | R6837 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5651 | 301 261 2011 | MT-GLAZE 9.1K JA 1/16W | R6838 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5652 | 301 261 2011 | MT-GLAZE 9.1K JA 1/16W | R6839 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5653 | 301 241 6619 | MT-GLAZE 62K JA 1/16W | R6841 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5654 | 301 225 1715 | MT-GLAZE 39K JA 1/16W | R6842 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5655 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R6843 | 301 225 8011 | MT-GLAZE 330 JA 1/16W |
| R5656 | 301 241 6619 | MT-GLAZE 62K JA 1/16W | R6846 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R5657 | 301 225 1715 | MT-GLAZE 39K JA 1/16W | R6847 | 301 225 8011 | MT-GLAZE 330 JA 1/16W |
| R5658 | 301 261 2011 | MT-GLAZE 9.1K JA 1/16W | R6848 | 301 225 2019 | MT-GLAZE 680 JA 1/16W |
| R5659 | 301 261 2011 | MT-GLAZE 9.1K JA 1/16W | R6849 | 301 225 2019 | MT-GLAZE 680 JA 1/16W |
| R566 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R6851 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R5661 | 301 237 2915 | MT-GLAZE 51 JA 1/16W | R6853 | 301 225 1319 | MT-GLAZE 470 JA 1/16W |
| R5662 | 301 225 8011 | MT-GLAZE 330 JA 1/16W | R6854 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R5663 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W | R6857 | 301 225 1616 | MT-GLAZE 390 JA 1/16W |
| R5664 | 301 227 5612 | MT-GLAZE 8.2K JA 1/16W | R6858 | 301 225 1616 | MT-GLAZE 390 JA 1/16W |
| R5666 | 301 229 7218 | MT-GLAZE 18K JA 1/16W | R6859 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R567 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R699 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5671 | 301 237 2915 | MT-GLAZE 51 JA 1/16W | R7801 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R5672 | 301 225 8011 | MT-GLAZE 330 JA 1/16W | R7802 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R5673 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W | R7803 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R5674 | 301 286 4717 | MT-GLAZE 30K JA 1/16W | R7811 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R5676 | 301 229 7218 | MT-GLAZE 18K JA 1/16W | R7812 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R5677 | 301 276 4710 | MT-GLAZE 0.000 ZA 1/3W | R7813 | 301 224 9415 | MT-GLAZE 1M JA 1/16W |
| R5678 | 301 225 0114 | MT-GLAZE 27K JA 1/16W | R7816 | 301 237 2915 | MT-GLAZE 51 JA 1/16W |
| R5679 | 301 276 4710 | MT-GLAZE 0.000 ZA 1/3W | R7818 | 301 276 3010 | MT-GLAZE 75K JA 1/16W |
| R5680 | 301 276 4710 | MT-GLAZE 0.000 ZA 1/3W | R7819 | 301 224 8913 | MT-GLAZE 100K JA 1/16W |
| R5681 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W | R7821 | 301 225 0114 | MT-GLAZE 27K JA 1/16W |
| R5682 | 301 229 7218 | MT-GLAZE 18K JA 1/16W | R7824 | 301 225 8516 | MT-GLAZE 1.8K JA 1/16W |
| R5683 | 301 261 1113 | MT-GLAZE 24K JA 1/16W | R7828 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R5684 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R7829 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W |
| R5691 | 301 224 9316 | MT-GLAZE 1K JA 1/16W | R7831 | 301 224 9316 | MT-GLAZE 1K JA 1/16W |
| R5692 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W | R7832 | 301 227 5612 | MT-GLAZE 8.2K JA 1/16W |
| R5693 | 301 225 9018 | MT-GLAZE 470K JA 1/16W | R7833 | 301 224 9613 | MT-GLAZE 2.7K JA 1/16W |
| R5694 | 301 235 0012 | MT-GLAZE 7.5K JA 1/16W | R7861 | 301 224 9019 | MT-GLAZE 10K JA 1/16W |
| R5695 | 301 259 7823 | MT-GLAZE 20K JA 1/16W | R7862 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W |
| R5697 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | R7863 | 301 224 9415 | MT-GLAZE 1M JA 1/16W |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|---------|--------------|-------------------------|--------------------|--------------|-------------------------|
| R7866 | 301 237 2915 | MT-GLAZE 51 JA 1/16W | | 945 037 0824 | R-NETWORK 22X4 1/16W |
| R7868 | 301 276 3010 | MT-GLAZE 75K JA 1/16W | RB104 | 945 034 5051 | R-NETWORK 22X4 1/32W |
| R7869 | 301 224 8913 | MT-GLAZE 100K JA 1/16W | | 945 037 0824 | R-NETWORK 22X4 1/16W |
| R7871 | 301 225 0114 | MT-GLAZE 27K JA 1/16W | RB2501 | 945 028 0697 | R-NETWORK 100X4 1/16W |
| R7874 | 301 225 8516 | MT-GLAZE 1.8K JA 1/16W | RB2531 | 945 028 0697 | R-NETWORK 100X4 1/16W |
| R7875 | 945 044 9032 | FILTER,EMI 2200PF | RB2561 | 945 028 0697 | R-NETWORK 100X4 1/16W |
| R7876 | 945 044 9032 | FILTER,EMI 2200PF | RB401 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R7878 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB402 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R7879 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | RB403 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R7881 | 301 224 9316 | MT-GLAZE 1K JA 1/16W | RB404 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R7882 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB406 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R7883 | 301 224 9613 | MT-GLAZE 2.7K JA 1/16W | RB421 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R801 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB422 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R802 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | RB423 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R803 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | RB424 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R804 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB426 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R806 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | RB441 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R807 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB442 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R808 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB443 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R812 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB444 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R8201 | 301 225 1913 | MT-GLAZE 68 JA 1/16W | RB446 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R8202 | 301 235 2115 | MT-GLAZE 82 JA 1/16W | RB480 | 945 028 0697 | R-NETWORK 100X4 1/16W |
| R8211 | 301 225 1913 | MT-GLAZE 68 JA 1/16W | RB481 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R8212 | 301 235 2115 | MT-GLAZE 82 JA 1/16W | RB482 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R8221 | 301 225 1913 | MT-GLAZE 68 JA 1/16W | RB483 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R8222 | 301 235 2115 | MT-GLAZE 82 JA 1/16W | RB484 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R8250 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB485 | 945 037 0831 | R-NETWORK 47X4 1/16W |
| R8251 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | RB486 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R8254 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | RB501 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R8256 | 301 224 9613 | MT-GLAZE 2.7K JA 1/16W | RB502 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R8257 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | RB503 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R8258 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | RB531 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R8261 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB532 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R8262 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | RB533 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R8263 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | RB561 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R8291 | 301 276 4710 | MT-GLAZE 0.000 ZA 1/3W | RB562 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R839 | 301 225 0213 | MT-GLAZE 3.3K JA 1/16W | RB563 | 945 037 0817 | R-NETWORK 0X4 1/16W |
| R842 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB8251 | 945 034 5051 | R-NETWORK 22X4 1/32W |
| R844 | 301 225 1210 | MT-GLAZE 4.7K JA 1/16W | | 945 037 0824 | R-NETWORK 22X4 1/16W |
| R857 | 301 224 9316 | MT-GLAZE 1K JA 1/16W | RB8252 | 945 034 5051 | R-NETWORK 22X4 1/32W |
| R868 | 301 224 9316 | MT-GLAZE 1K JA 1/16W | | 945 037 0824 | R-NETWORK 22X4 1/16W |
| R869 | 301 224 9316 | MT-GLAZE 1K JA 1/16W | RB8253 | 945 034 5051 | R-NETWORK 22X4 1/32W |
| R871 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | | 945 037 0824 | R-NETWORK 22X4 1/16W |
| R872 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | RB8254 | 945 034 5051 | R-NETWORK 22X4 1/32W |
| R8811 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | | 945 037 0824 | R-NETWORK 22X4 1/16W |
| R8812 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | RB8256 | 945 034 5051 | R-NETWORK 22X4 1/32W |
| R8813 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | | 945 037 0824 | R-NETWORK 22X4 1/16W |
| R8821 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | RB8257 | 945 034 5051 | R-NETWORK 22X4 1/32W |
| R8822 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | | 945 037 0824 | R-NETWORK 22X4 1/16W |
| R8823 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB8258 | 945 028 0697 | R-NETWORK 100X4 1/16W |
| R8824 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | RB8259 | 945 028 0697 | R-NETWORK 100X4 1/16W |
| R8831 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | RB8260 | 945 028 0697 | R-NETWORK 100X4 1/16W |
| R8832 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | | | |
| R8833 | 301 224 9019 | MT-GLAZE 10K JA 1/16W | TRANSFORMER | | |
| R893 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | T5601 | 305 139 7719 | TR IMZ1A-T108 |
| R894 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | T5611 | 305 139 7719 | TR IMZ1A-T108 |
| R896 | 301 226 2414 | MT-GLAZE 560 JA 1/16W | COIL | | |
| R897 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | L1002 | 945 068 8349 | FILTER,EMI 400MHZ |
| R898 | 301 224 8814 | MT-GLAZE 100 JA 1/16W | L1012 | 945 068 8349 | FILTER,EMI 400MHZ |
| R9822 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | L1022 | 945 068 8349 | FILTER,EMI 400MHZ |
| R9823 | 301 225 8110 | MT-GLAZE 10 JA 1/16W | L1031 | 945 068 8332 | FILTER,EMI 200MHZ |
| R9882 | 301 226 1516 | MT-GLAZE 0.000 ZA 1/16W | L1041 | 945 068 8332 | FILTER,EMI 200MHZ |
| RB101 | 945 034 5051 | R-NETWORK 22X4 1/32W | L105 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W |
| | 945 037 0824 | R-NETWORK 22X4 1/16W | L1051 | 945 068 8349 | FILTER,EMI 400MHZ |
| RB102 | 945 034 5051 | R-NETWORK 22X4 1/32W | L106 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W |
| | 945 037 0824 | R-NETWORK 22X4 1/16W | L1061 | 945 068 8349 | FILTER,EMI 400MHZ |
| RB103 | 945 034 5051 | R-NETWORK 22X4 1/32W | L107 | 945 059 2264 | INDUCTOR,4.7U M |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|--------------|--------------|----------------------------|---------|--------------|----------------------------|
| L1071 | 945 068 8349 | FILTER,EMI 400MHZ | D3051 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L108 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L1081 | 945 068 8332 | FILTER,EMI 200MHZ | D3501 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L109 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L1091 | 945 068 8332 | FILTER,EMI 200MHZ | D3601 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L1092 | 945 004 6644 | INDUCTOR,220 OHM | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L1801 | 945 062 2824 | INDUCTOR,3.3U M | D3606 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L1802 | 945 059 1748 | INDUCTOR,2.2U J | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L1803 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | D3608 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L1804 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L2001 | 945 068 8325 | FILTER,EMI 20MHZ | D3611 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L2011 | 301 035 4111 | MT-GLAZE 0.000 ZA 1/8W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L2012 | 945 068 8318 | FILTER,EMI 100MHZ | D3612 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L2021 | 301 035 4111 | MT-GLAZE 0.000 ZA 1/8W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L2022 | 945 068 8318 | FILTER,EMI 100MHZ | D3613 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L2031 | 301 035 4111 | MT-GLAZE 0.000 ZA 1/8W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L2032 | 945 068 8318 | FILTER,EMI 100MHZ | D3614 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L2041 | 945 068 8325 | FILTER,EMI 20MHZ | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L2051 | 945 068 8325 | FILTER,EMI 20MHZ | D3617 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L2501 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L2502 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | D3618 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L2531 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L2532 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | D3619 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L2561 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L2562 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | D3620 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L3002 | 945 068 8325 | FILTER,EMI 20MHZ | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L301 | 301 150 6014 | MT-GLAZE 0.000 ZA 1/10W | D3621 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L3011 | 945 068 8325 | FILTER,EMI 20MHZ | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L302 | 945 050 8449 | IMPEDANCE,1000 OHM P | D3622 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L3051 | 945 068 8325 | FILTER,EMI 20MHZ | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L3061 | 945 068 8325 | FILTER,EMI 20MHZ | D3623 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L3081 | 945 068 8325 | FILTER,EMI 20MHZ | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L3082 | 945 068 8325 | FILTER,EMI 20MHZ | D3624 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L351 | 945 050 8449 | IMPEDANCE,1000 OHM P | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L3581 | 945 062 2824 | INDUCTOR,3.3U M | D3626 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L401 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L402 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | D3627 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L501 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L5031 | 945 062 2824 | INDUCTOR,3.3U M | D4812 | 307 223 1115 | ZENER DIODE 02DZ6.2Y(TPH3) |
| L5302 | 945 059 2264 | INDUCTOR,4.7U M | | 307 209 1214 | ZD UDZS-TE-176.2B |
| L531 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | D4813 | 307 223 1115 | ZENER DIODE 02DZ6.2Y(TPH3) |
| L5311 | 945 059 2264 | INDUCTOR,4.7U M | | 307 209 1214 | ZD UDZS-TE-176.2B |
| L5600 | 945 033 7940 | INDUCTOR,33U M | D5061 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L5601 | 945 062 2855 | INDUCTOR,33U M | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L5602 | 645 089 2677 | FILTER,EMI 1500PF | D5062 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L5604 | 645 089 2677 | FILTER,EMI 1500PF | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L5606 | 645 089 2677 | FILTER,EMI 1500PF | D5601 | 307 201 2724 | DIODE RB051L-40-TE25 |
| L5609 | 645 089 2677 | FILTER,EMI 1500PF | D5602 | 307 254 2914 | ZENER DIODE 02DZ6.8Y(TPH3) |
| L561 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W | | 307 209 4512 | ZD UDZS-TE-176.8B |
| L5611 | 945 062 2855 | INDUCTOR,33U M | D5611 | 307 201 2724 | DIODE RB051L-40-TE25 |
| L5612 | 945 033 7940 | INDUCTOR,33U M | D5612 | 307 254 2914 | ZENER DIODE 02DZ6.8Y(TPH3) |
| L5644 | 645 089 2677 | FILTER,EMI 1500PF | | 307 209 4512 | ZD UDZS-TE-176.8B |
| L5691 | 945 062 2855 | INDUCTOR,33U M | D5621 | 301 037 5017 | MT-GLAZE 0.000 ZA 1/10W |
| L7811 | 945 038 4579 | INDUCTOR,33U M | D5622 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| | 945 075 1012 | INDUCTOR,33U M | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L7861 | 945 038 4562 | INDUCTOR,100U M | D5623 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| L7872 | 645 089 2677 | FILTER,EMI 1500PF | | 307 149 0810 | DIODE 1SS355-TE-17 |
| L8251 | 301 035 4111 | MT-GLAZE 0.000 ZA 1/8W | D5624 | 307 163 0414 | DIODE 1SS352-(TPH3) |
| | | | | 307 149 0810 | DIODE 1SS355-TE-17 |
| DIODE | | | D5631 | 307 254 2914 | ZENER DIODE 02DZ6.8Y(TPH3) |
| D1091 | 307 205 5216 | DIODE RB521S-30-TE61 | | 307 209 4512 | ZD UDZS-TE-176.8B |
| D1092 | 307 205 5216 | DIODE RB521S-30-TE61 | D5691 | 307 201 2724 | DIODE RB051L-40-TE25 |
| D2002 | 307 223 1115 | ZENER DIODE 02DZ6.2Y(TPH3) | D5694 | 307 254 2914 | ZENER DIODE 02DZ6.8Y(TPH3) |
| | 307 209 1214 | ZD UDZS-TE-176.2B | | 307 209 4512 | ZD UDZS-TE-176.8B |
| D2891 | 307 223 1115 | ZENER DIODE 02DZ6.2Y(TPH3) | D6801 | 307 223 1115 | ZENER DIODE 02DZ6.2Y(TPH3) |
| | 307 209 1214 | ZD UDZS-TE-176.2B | | 307 209 1214 | ZD UDZS-TE-176.2B |
| D2892 | 307 223 1115 | ZENER DIODE 02DZ6.2Y(TPH3) | D6802 | 307 223 1115 | ZENER DIODE 02DZ6.2Y(TPH3) |
| | 307 209 1214 | ZD UDZS-TE-176.2B | | | |

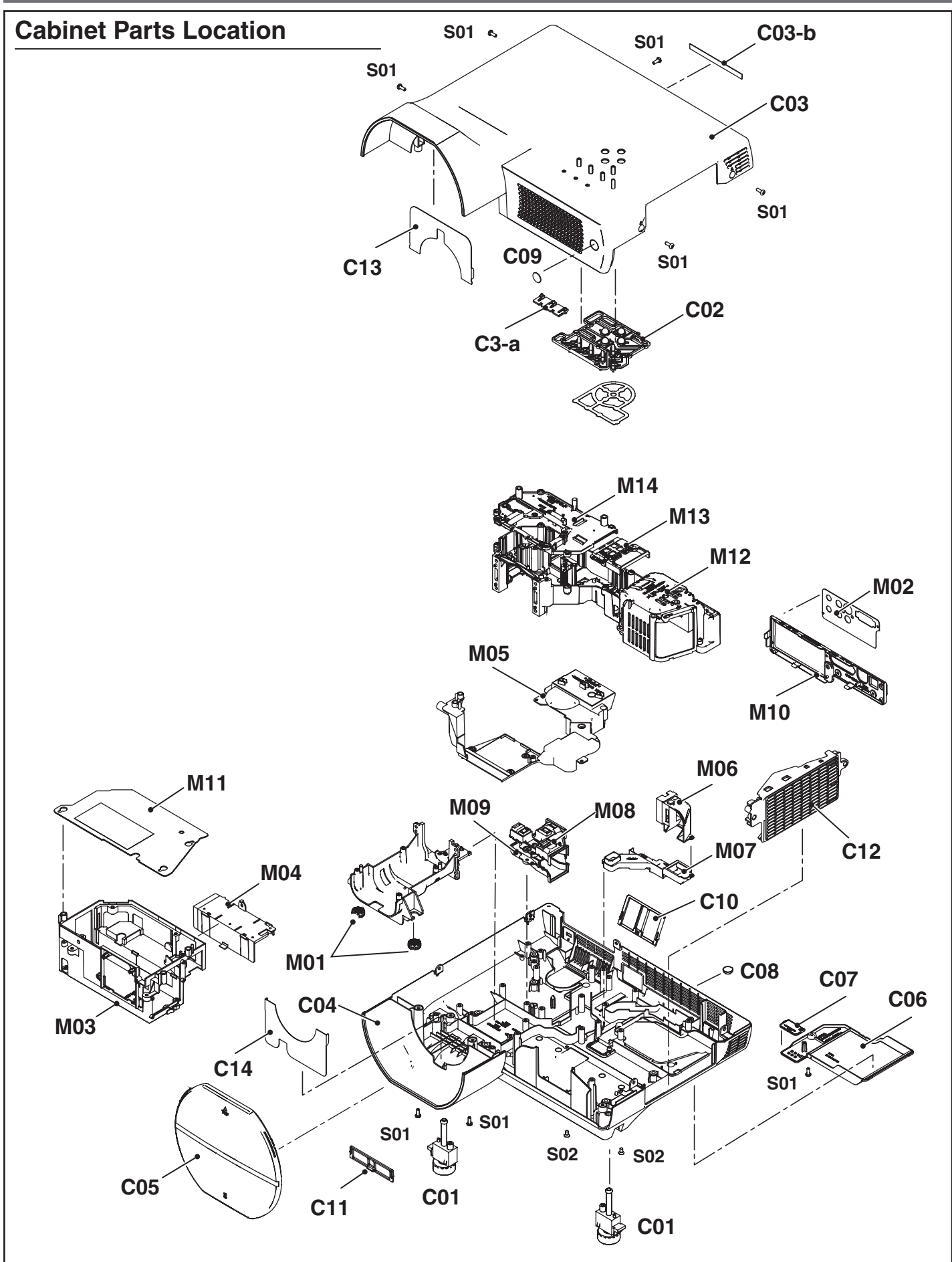
Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|----------------------|--------------|---------------------------|--|-------------------------------|---------------------------|
| D6803 | 307 209 1214 | ZD UDZS-TE-176.2B | SC5602 | 945 076 3503 | SURGE-ABSORBER |
| | 307 223 1115 | ZENER DIODE 02DZ6.2Y(TPH3 | SC5603 | 945 076 3503 | SURGE-ABSORBER |
| | 307 209 1214 | ZD UDZS-TE-176.2B | SC5607 | 945 076 3503 | SURGE-ABSORBER |
| D6804 | 307 223 1115 | ZENER DIODE 02DZ6.2Y(TPH3 | SC5608 | 945 076 3503 | SURGE-ABSORBER |
| | 307 209 1214 | ZD UDZS-TE-176.2B | SC5691 | 945 076 3503 | SURGE-ABSORBER |
| D6831 | 307 209 7414 | LED SML-210YT-K-T86 | SW50A | 945 035 6828 | SWITCH,PUSH |
| | 307 209 7513 | LED SML-210YT T86 L | SW6801 | 945 026 2792 | SWITCH,PUSH 1P-1TX1 |
| D6832 | 307 203 7816 | LED SML-210LT T86 M | SW6802 | 945 026 2792 | SWITCH,PUSH 1P-1TX1 |
| D6833 | 307 222 4810 | LED SML-521MUW T86 | SW6803 | 945 026 2792 | SWITCH,PUSH 1P-1TX1 |
| D6841 | 307 223 0514 | ZENER DIODE 02DZ12Y(TPH3) | SW6804 | 945 026 2792 | SWITCH,PUSH 1P-1TX1 |
| | 307 221 7119 | ZENER DIODE UDZS-TE-1712B | SW6806 | 945 026 2792 | SWITCH,PUSH 1P-1TX1 |
| D6842 | 307 223 0514 | ZENER DIODE 02DZ12Y(TPH3) | SW6807 | 945 026 2792 | SWITCH,PUSH 1P-1TX1 |
| | 307 221 7119 | ZENER DIODE UDZS-TE-1712B | SW6808 | 945 026 2792 | SWITCH,PUSH 1P-1TX1 |
| D6843 | 307 223 0514 | ZENER DIODE 02DZ12Y(TPH3) | SW6809 | 945 026 2792 | SWITCH,PUSH 1P-1TX1 |
| | 307 221 7119 | ZENER DIODE UDZS-TE-1712B | SW6811 | 945 026 2792 | SWITCH,PUSH 1P-1TX1 |
| D6844 | 307 223 0514 | ZENER DIODE 02DZ12Y(TPH3) | X101 | 652 002 0085 | OSC,CRYSTAL24.576000MHZ |
| | 307 221 7119 | ZENER DIODE UDZS-TE-1712B | X1331 | 652 002 0061 | OSC,CRYSTAL14.318180MHZ |
| D7812 | 307 201 2724 | DIODE RB051L-40-TE25 | X1801 | 652 002 0078 | OSC,CRYSTAL48.000000MHZ |
| D7862 | 307 201 2724 | DIODE RB051L-40-TE25 | ZD1041 | 307 223 0514 | ZENER DIODE 02DZ12Y(TPH3) |
| | | | | 307 221 7119 | ZENER DIODE UDZS-TE-1712B |
| | | | ZD1042 | 307 223 0514 | ZENER DIODE 02DZ12Y(TPH3) |
| | | | | 307 221 7119 | ZENER DIODE UDZS-TE-1712B |
| MISCELLANEOUS | | | 610 334 8773 ASSY,PWB,R/C KZ6AC | | |
| FB2881 | 945 041 1978 | INDUCTOR,330 OHM | CAPACITOR | | |
| FB2882 | 945 041 1978 | INDUCTOR,330 OHM | C2951 | 303 283 6312 | CERAMIC 1U Z 10V |
| FB2891 | 945 041 1978 | INDUCTOR,330 OHM | C2952 | 303 157 6615 | CERAMIC 470P K 50V |
| FB3621 | 945 041 1978 | INDUCTOR,330 OHM | C2953 | 303 378 3110 | CERAMIC 47U Z 6.3V |
| FB3622 | 945 041 1978 | INDUCTOR,330 OHM | RESISTOR | | |
| FB3623 | 945 041 1978 | INDUCTOR,330 OHM | R2951 | 301 256 5614 | MT-GLAZE 47 JA 1/10W |
| FB3624 | 945 041 1978 | INDUCTOR,330 OHM | R2952 | 301 255 6513 | MT-GLAZE 100 JA 1/10W |
| FB3626 | 945 041 1978 | INDUCTOR,330 OHM | MISCELLANEOUS | | |
| FB3627 | 945 041 1978 | INDUCTOR,330 OHM | A2951 | 945 084 1997 | UNIT,REMOCON RECEIVER |
| FB4801 | 945 041 1978 | INDUCTOR,330 OHM | PACKING MATERIALS | | |
| K10A | 952 001 8571 | SOCKET,D-SUB 15P | 610 333 9559 | SPACER LENS-LK6AC | |
| K10B | 952 001 8571 | SOCKET,D-SUB 15P | 610 334 9398 | CARTON CASE-KZ6AC | |
| K20A | 952 001 9585 | JACK,RCA-2 | 610 332 2759 | CUSHION SPACER-LK6AC | |
| K20B | 952 001 7932 | TERMINAL, BOARD | 610 334 5666 | CUSHION SPACER TOP-LK6AC | |
| K30B | 945 076 2742 | JACK,PHON D3.6 | 610 334 5765 | CUSHION SPACER BTM-LK6AC | |
| K40A | 645 075 1752 | SOCKET,USB 4P | 610 334 5758 | CUSHION SPACER FB-LK6AC | |
| | 645 095 2647 | SOCKET,USB 4P | 610 334 5826 | CUSHION SPACER LR-LK6AC | |
| K40B | 952 001 8427 | SOCKET,DIN 8P | 610 334 5734 | CUSHION SPACER LNS SIDE-LK6AC | |
| SC1031 | 945 076 3503 | SURGE-ABSORBER | 645 093 9020 | POLY BAG-0500X0580*NC | |
| SC1041 | 945 076 3503 | SURGE-ABSORBER | 655 002 0116 | SPACER SHEET-LK6AC | |
| SC1081 | 945 076 3503 | SURGE-ABSORBER | 655 002 0109 | SPACER SHEET-LK6AC | |
| SC1091 | 945 076 3503 | SURGE-ABSORBER | ACCESSORIES | | |
| SC2001 | 945 076 3503 | SURGE-ABSORBER | OWNER'S MANUAL | | |
| SC2011 | 945 076 3503 | SURGE-ABSORBER | 610 334 9237 | CD-ROM,OWNERS MANUAL-KZ6AC | |
| SC2021 | 945 076 3503 | SURGE-ABSORBER | 610 334 9091 | SETUP INST MANUAL-KZ6AC | |
| SC2031 | 945 076 3503 | SURGE-ABSORBER | REMOTE CONTROL | | |
| SC2041 | 945 076 3503 | SURGE-ABSORBER | 945 079 3548 | ASSY,REMOCON CXTC | |
| SC2051 | 945 076 3503 | SURGE-ABSORBER | 910 321 4482 | RC-BATTERY LID-CXTJ | |
| SC3001 | 945 076 3503 | SURGE-ABSORBER | AC CORD | | |
| SC3011 | 945 076 3503 | SURGE-ABSORBER | US | 945 064 6363 | CORD,POWER-3.0MK,US |
| SC303 | 945 076 3503 | SURGE-ABSORBER | EU | 945 054 1156 | CORD,POWER-3.0MK |
| SC304 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC3051 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC306 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC3061 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC307 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC3071 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC3072 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC3073 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC308 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC3081 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC3082 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC309 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC3091 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC311 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC313 | 945 076 3503 | SURGE-ABSORBER | | | |
| SC5601 | 945 076 3503 | SURGE-ABSORBER | | | |

Electrical Parts List

| Key No. | Part No. | Description | Key No. | Part No. | Description |
|----------------------|--------------|---------------------|---------|----------|-------------|
| UK | 945 054 1149 | CORD,POWER-3.138MK | | | |
| MISCELLANEOUS | | | | | |
| | 610 332 3299 | STRAP COMP-LK6AC | | | |
| | 945 073 4855 | CABLE,INTERFACE VGA | | | |

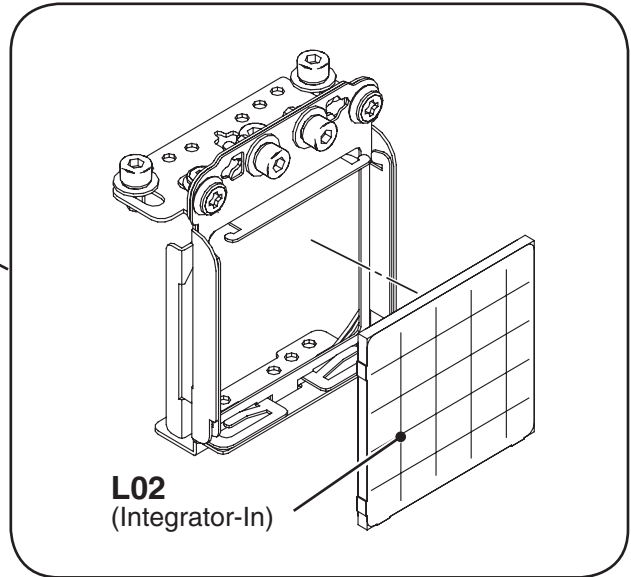
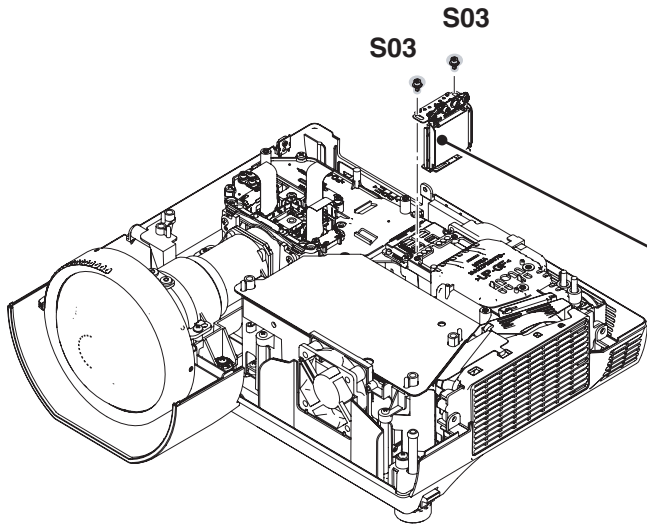
Mechanical Parts List



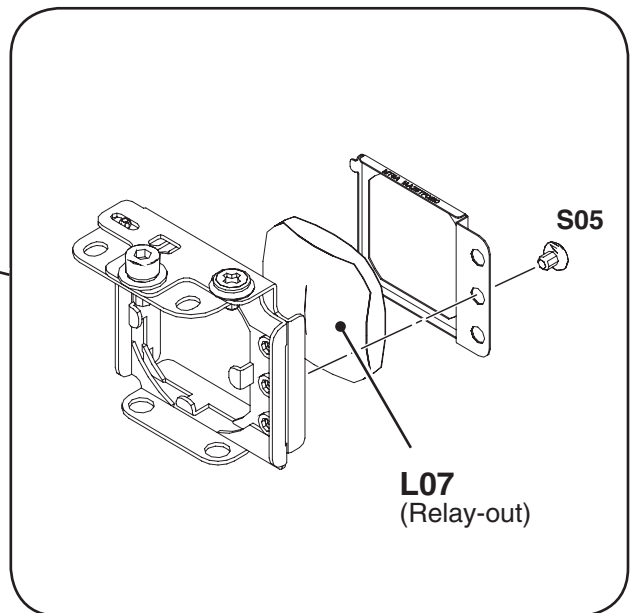
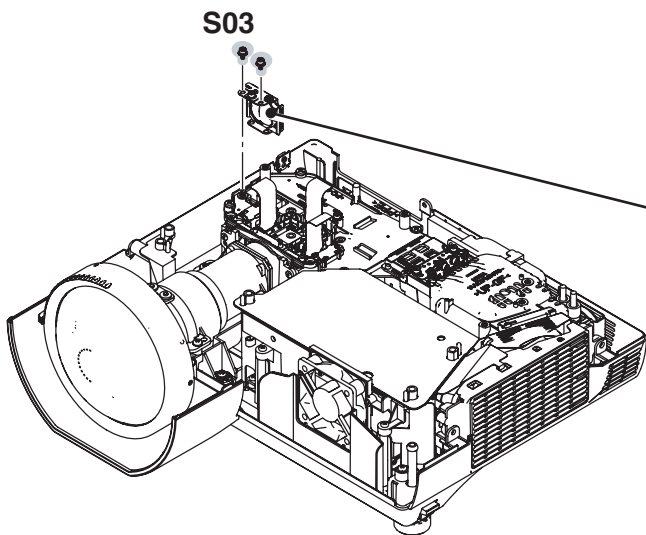
Mechanical Parts List

Optical Parts Location

Integrator Lens-In

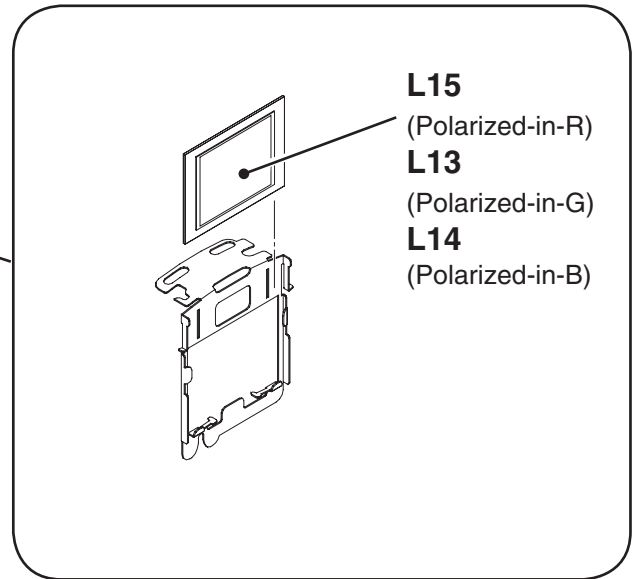
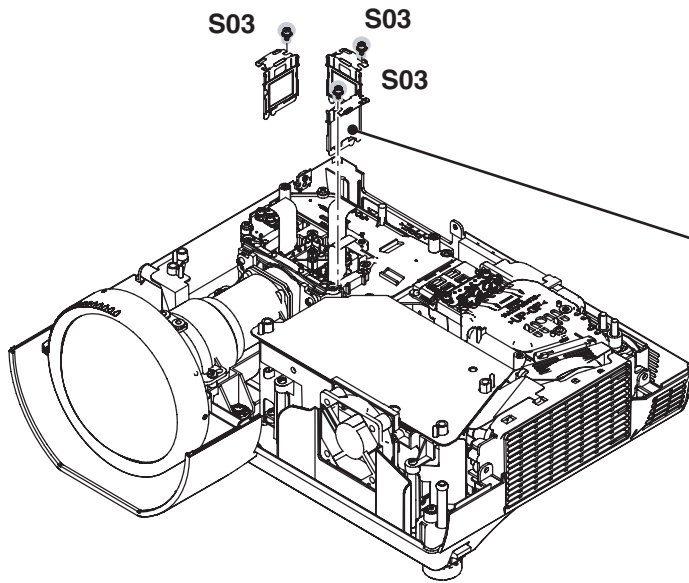


Relay Lens-Out

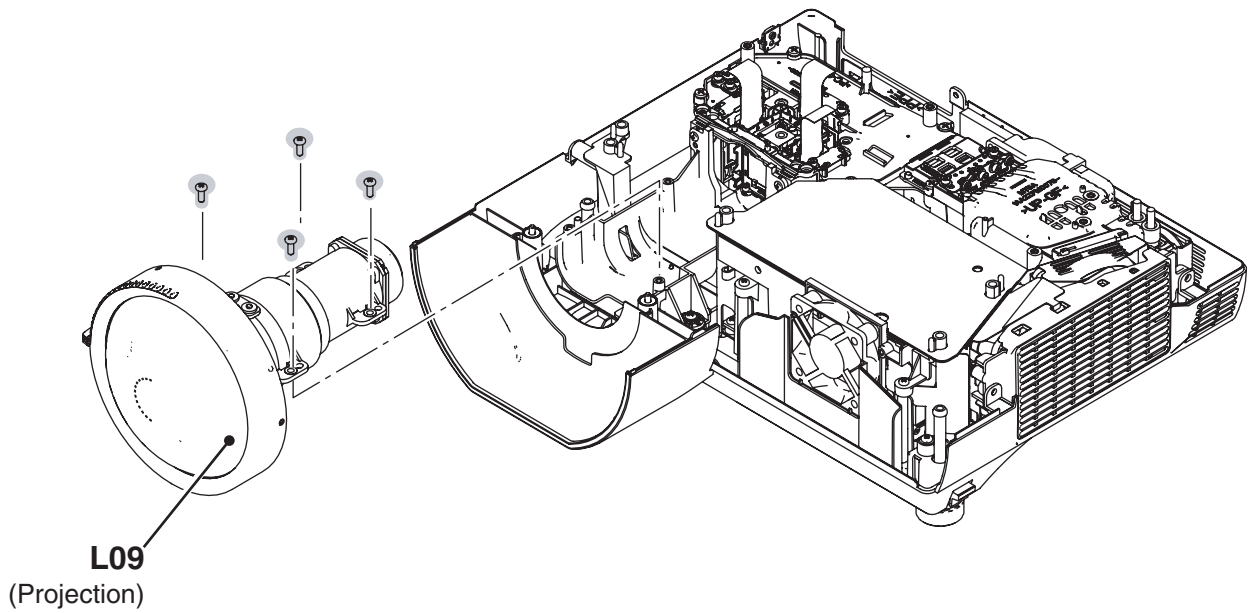


Mechanical Parts List

Polarized Glass-In

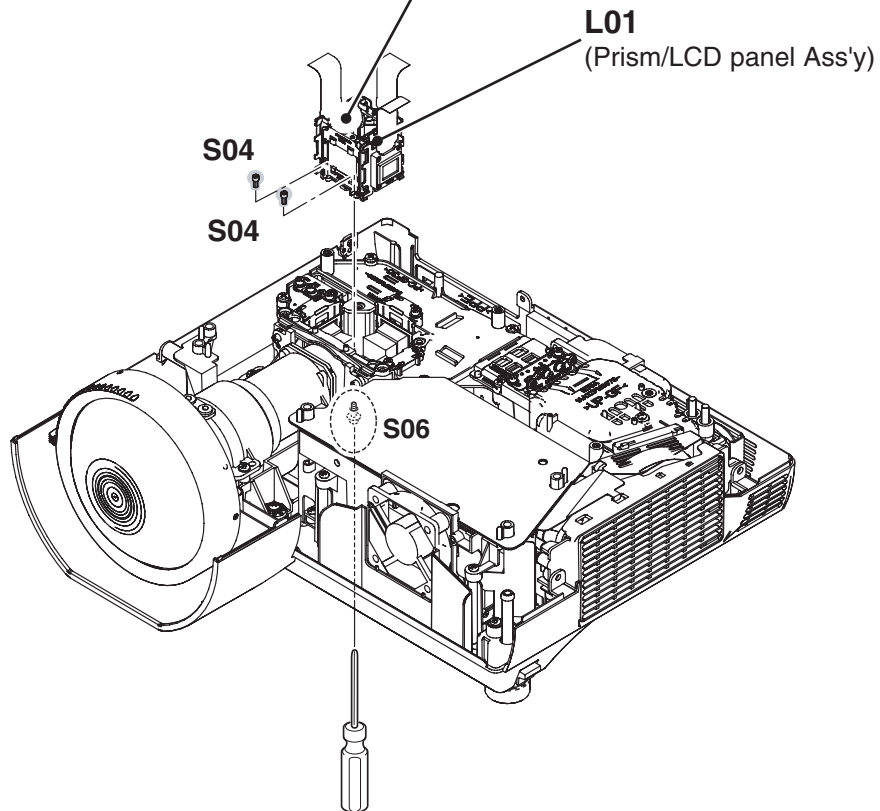
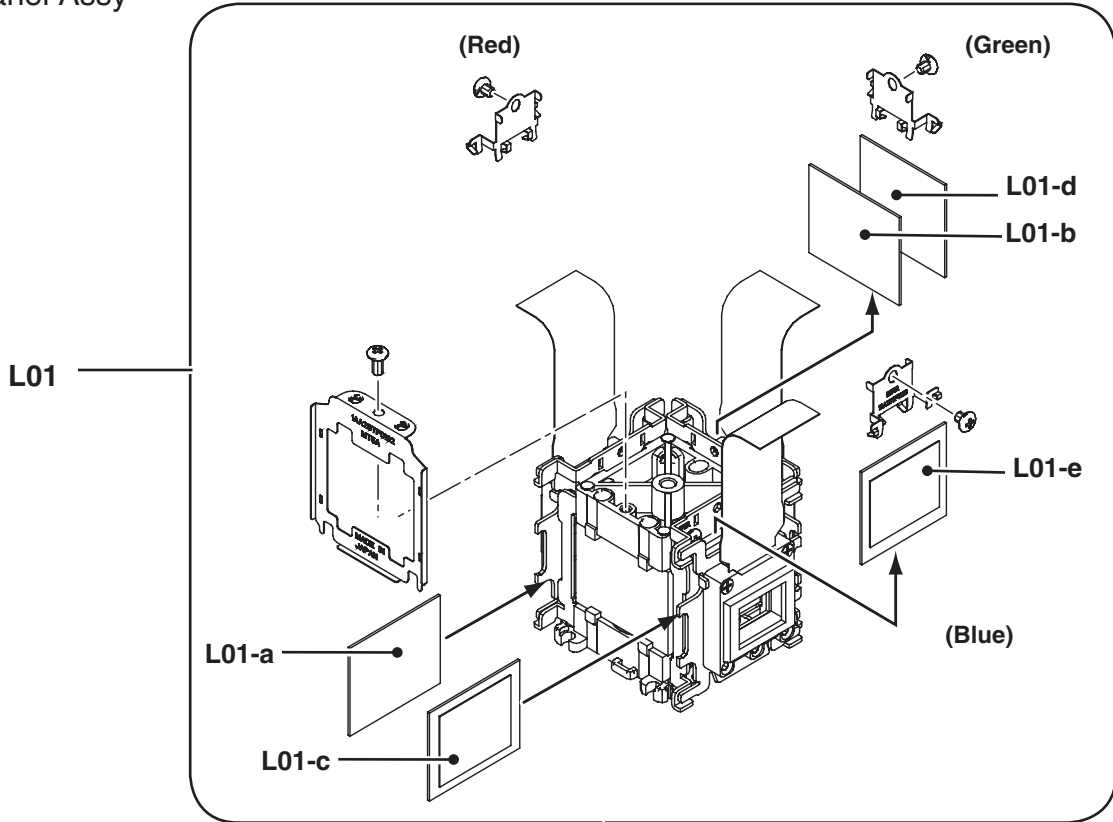


Projection Lens



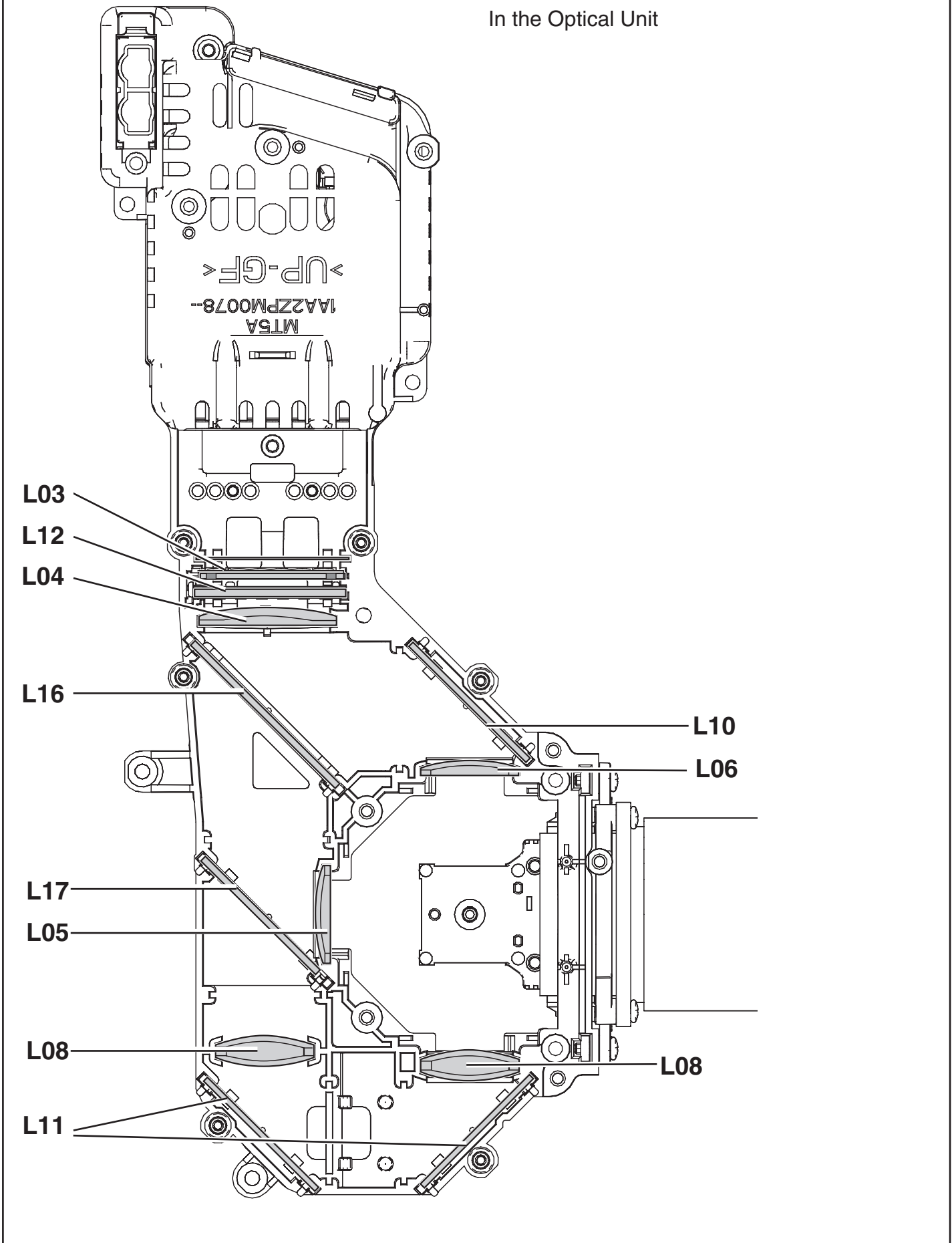
Mechanical Parts List

Prism/LCD Panel Assy



Mechanical Parts List

In the Optical Unit



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 | | | L15 | 945 077 8347 | POLARIZED GLASS(IN/R) |
| C01 | 910 323 1779 | ASSY,STAND LEG-MT5A | L16 | 945 085 0043 | DICHROIC MIRROR (B) |
| | 910 330 9362 | ASSY,STAND-KT6AC | L17 | 945 078 0784 | DAICHROIC MIRROR(G) |
| C02 | 910 325 2361 | BUTTON-PT5EC | | | |
| C03 | 610 337 0279 | CABINET TOP SERVICE-KZ6AC (Including Key No. C03-a and C03-b) | | | |
| C03-a | 910 325 2538 | DEC INLAY LED-PT5EC | | | |
| C03-b | 910 325 2606 | DEC AV SHEET A-PT5EC | | | |
| C04 | 610 334 8988 | CABINET BOTTOM SERVICE-KZ6AC | | | |
| C05 | 610 331 1302 | CAP LENS-LK6AC | | | |
| C06 | 910 327 6893 | COVER ,LP SERVICE-PT5EC | | | |
| C07 | 910 325 2040 | COVER, FUSE-PT5EC | | | |
| C08 | 910 325 2477 | DEC LEG-PT5EC | | | |
| C09 | 910 302 5613 | DEC SHEET-M4JA | | | |
| C10 | 910 325 2033 | FILTER BASE B-PT5EC | | | |
| C11 | 910 325 1982 | FILTER BASE F-PT5EC | | | |
| C12 | 910 325 2323 | GRILLE -PT5EC | | | |
| C13 | 610 332 0281 | SPACER SHEET LENS TOP-LK6AC | | | |
| C14 | 610 332 0267 | SPACER SHEET LENS BTM-LK6AC | | | |
| CHASSIS PARTS | | | | | |
| M01 | 610 332 4746 | BUSH-KK6A | | | |
| M02 | 910 325 2460 | DEC AV SHEET-PT5EC | | | |
| M03 | 610 331 9025 | HOLDER POWER PWB B-KW6AC | | | |
| M04 | 910 325 2675 | HOLDER LN FLT-PT5EC | | | |
| M05 | 610 332 0625 | MOUNTING DUCT TOP-LK6AC | | | |
| M06 | 910 325 1913 | MOUNTING DUCT LP-PT5EC | | | |
| M07 | 910 330 2493 | MOUNTING DUCT PBS-KT6AC | | | |
| M08 | 910 330 2622 | MOUNTING DUCT TOP#PNL-KT6AC | | | |
| M09 | 910 330 2400 | MOUNTING DUCT BTM#PNL-KT6AC | | | |
| M10 | 610 331 1081 | PANEL AV-KW6AC | | | |
| M11 | 910 325 2576 | SPACER SHEET#POWER T-PT5EC | | | |
| M12 | 910 321 7810 | OPTICAL BASE BTM-MT5A | | | |
| M13 | 910 321 7896 | OPTICAL BASE TOP A-MT5A | | | |
| M14 | 910 321 7780 | OPTICAL BASE TOP B-MT5A | | | |
| SCREWS | | | | | |
| S01 | 411 031 9304 | SCR BIN 3X8 | | | |
| S02 | 411 203 9507 | SCR TPG FLT 3X6 | | | |
| S03 | 411 189 6507 | BOLT HEX-SCT+SW+W 2.5X5 | | | |
| S04 | 312 069 7105 | SPECIAL SCREW V | | | |
| S05 | 411 192 9601 | SCR BIN 2X3 | | | |
| S06 | 312 070 3400 | SPECIAL SCREW-3.0X10V | | | |
| OPTICAL PARTS DIRECTORY | | | | | |
| L01 | 610 334 8971 | ASSY,LCD PNL/PSM -KZ6AC (Including Key No. L01-a to L01-e and LCD Panels) | | | |
| L01-a | 945 077 8354 | POLARIZED GLASS(OUT/R) | | | |
| L01-b | 945 087 1185 | POLARIZED GLASS(OUT/G) | | | |
| L01-c | 945 082 0824 | POLARIZED GLASS(OUT/B) | | | |
| L01-d | 945 077 8385 | PRE-POLARIZED GLASS | | | |
| L01-e | 945 083 6597 | PRE-POLARIZED GLASS | | | |
| L02 | 945 078 0692 | LENS,INTEGRATOR(IN) | | | |
| L03 | 945 078 0708 | LENS,INTEGRATOR(OUT) | | | |
| L04 | 945 078 0722 | LENS,CONDENSER(OUT) | | | |
| L05 | 945 078 0739 | LENS,CONDENSER(G) | | | |
| L06 | 945 087 1154 | LENS,CONDENSER(B) | | | |
| L07 | 945 078 0753 | LENS,RELAY(OUT) | | | |
| L08 | 945 078 0760 | LENS,CONDENSER(R) | | | |
| L09 | 645 095 2630 | LENS,PROJECTION | | | |
| L10 | 945 081 7640 | MIRROR(B) | | | |
| L11 | 945 081 7657 | MIRROR(R) | | | |
| L12 | 945 078 0845 | PRISM(PBS) | | | |
| L13 | 945 087 1178 | POLARIZED GLASS(IN/G) | | | |
| L14 | 945 083 3886 | POLARIZED GLASS(IN/B) | | | |

Mechanical Parts List



Diagrams & Drawings

Schematic Diagrams Printed Wiring Board Drawings

| Model | Chassis No. |
|----------|-------------|
| PLC-XL45 | KZ6-XL4500 |

These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KZ6-XL4500 model PLC-XL45.
File with the service manual No. SM5110900-00

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.

Resistor Reading

Example 1/2 D J 10K B

Example 6 W K 8.2

Example 1/2 C K 1M

Characteristic
 Z (Carbon fuse)
 B (Non-burnable)

K indicates in KΩ
 M indicates in MΩ

Resistance value
 Tolerance (see below table)
 Material (see below table)
 Rated wattage (W)

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 |

Capacitor Reading

Example 2000 K K 1000 BG

Example 160 E M 10

Characteristic

Capacitance value
 Excepting electric capacitors, all capacitance values of less than 1 are expressed in μF and more than 1 are in pF.

Tolerance
 Type
 Rated voltage

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 |

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 |

Coil Reading

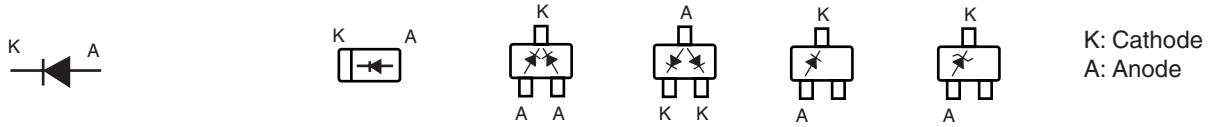
Example L2 C1 4R7 K N

Tolerance
 Inductance value
 Manufacture code
 Unique code

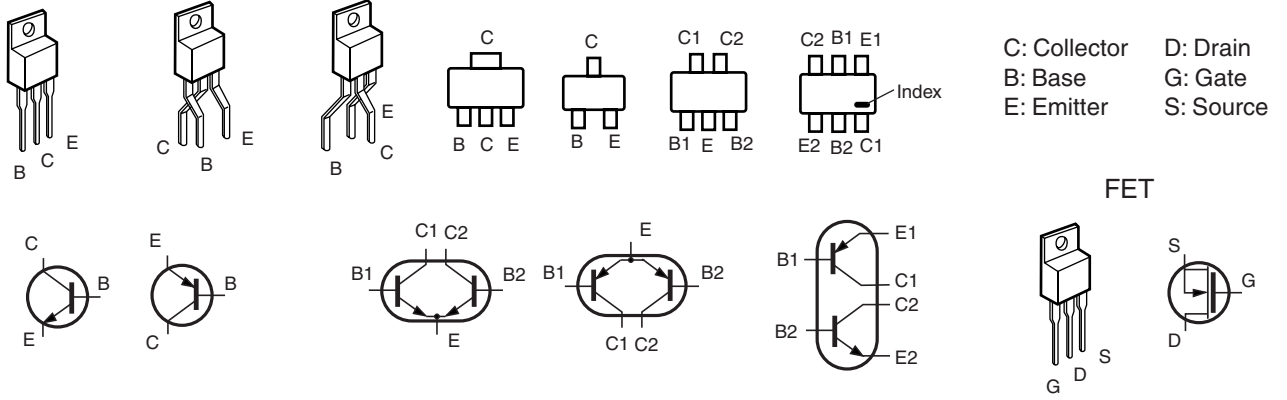
| Mark | Tolerance (nH) | Mark | Tolerance (%) |
|------|----------------|------|---------------|
| C | ±0.25 | G | ±2 |
| D | ±0.5 | J | ±5 |
| S | ±0.3 | K | ±10 |
| A | ±0.2 | L | ±15 |
| | | M | ±20 |

Pin description of diode, transistor and IC

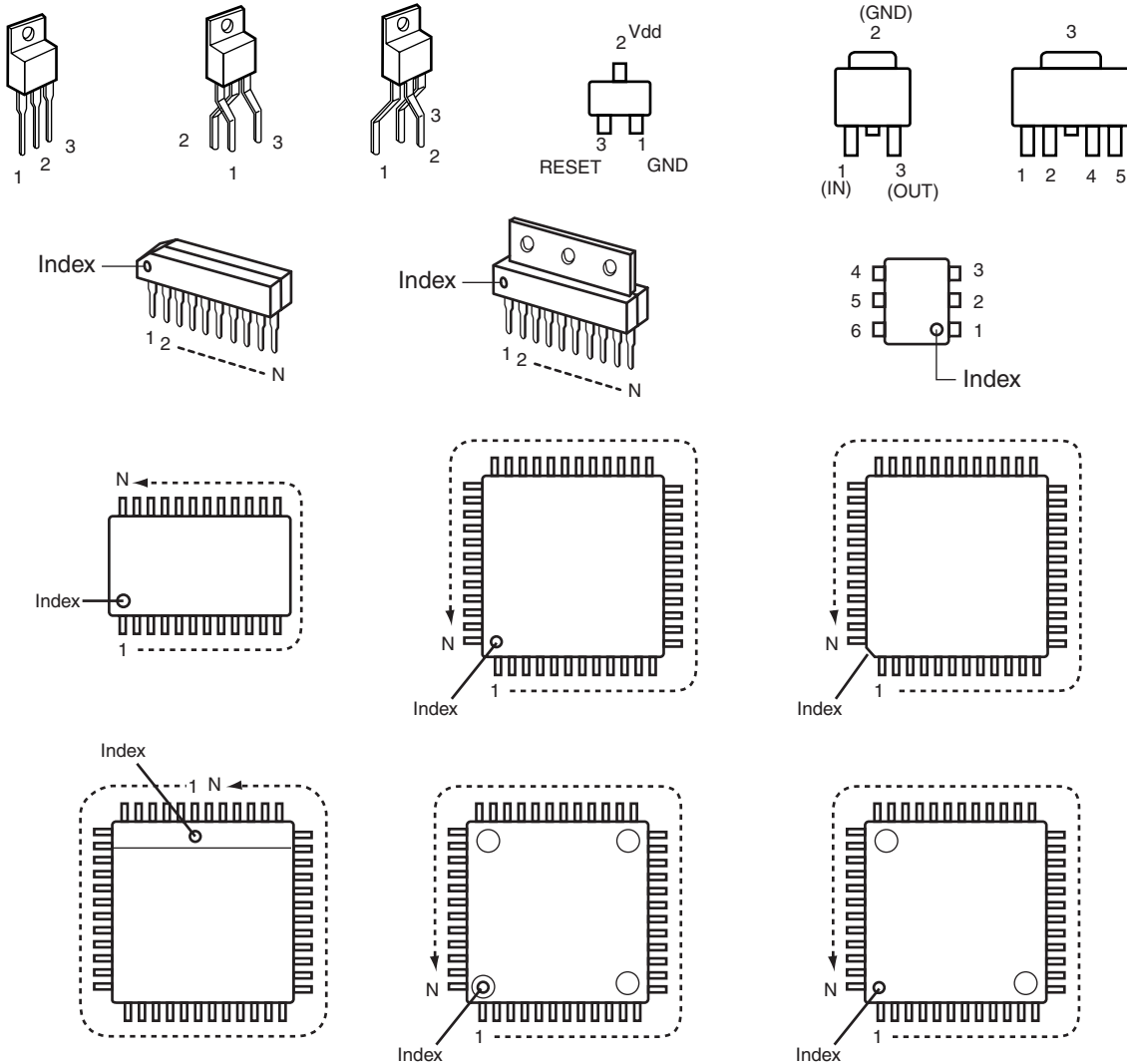
● Diode



● Transistor/FET



● IC



Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment.

Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.

The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.

Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

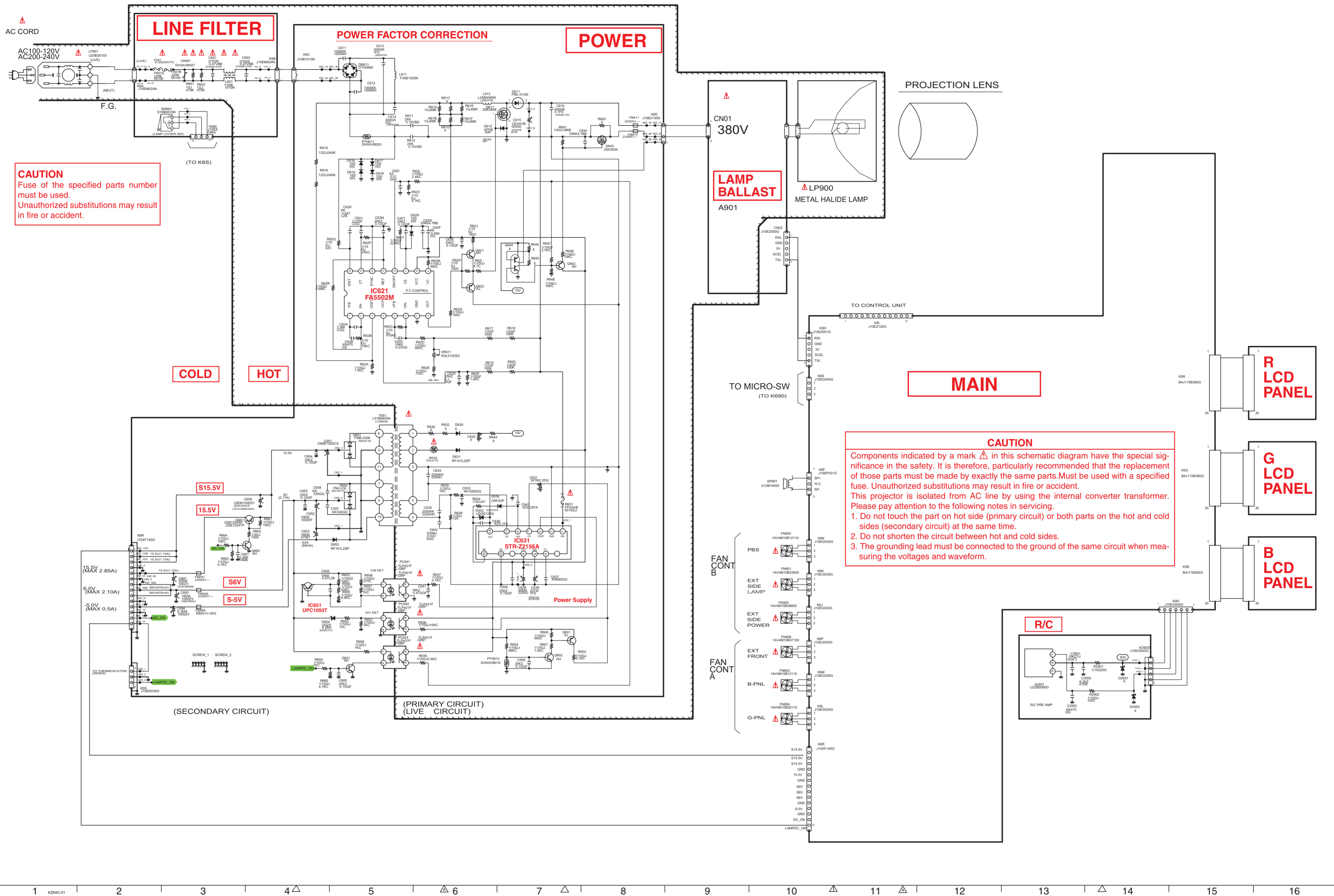
Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

| Metal content | Tin (Sn) | Silver (Ag) | Copper (Cu) |
|-----------------------------|----------|-------------|-------------|
| Composition ratio by weight | 96.5 % | 3.0 % | 0.5 % |

Note:

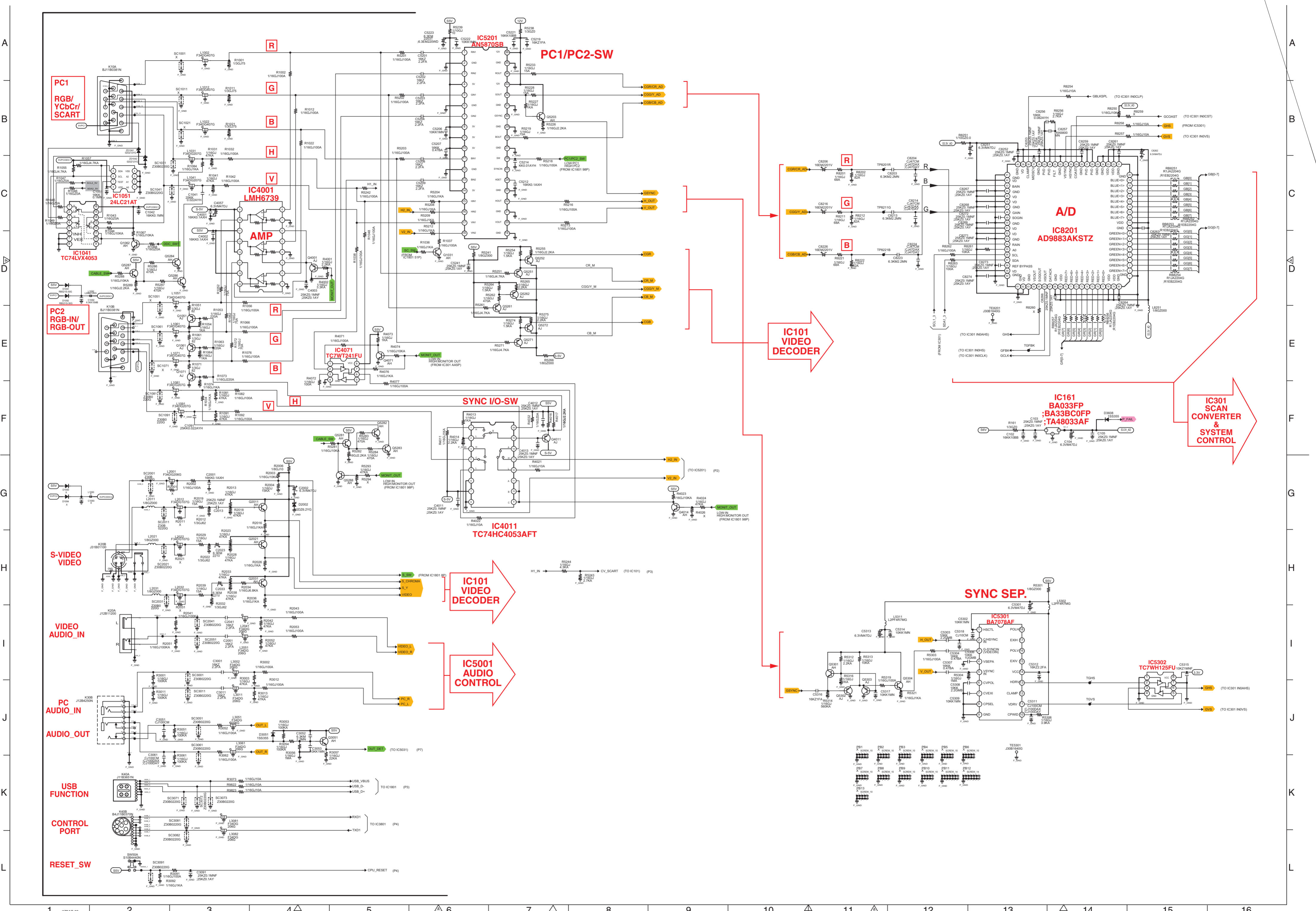
If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.

Schematic Diagrams



CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

CAUTION
Components indicated by a mark Δ in this schematic diagram have the special significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts. Must be used with a specified fuse. Unauthorized substitutions may result in fire or accident.
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 the 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 the voltages and waveform.



PC1

RGB/ YCbCr/ SCART

PC2

RGB-IN/ RGB-OUT

S-VIDEO

VIDEO_AUDIO_IN

PC_AUDIO_IN

AUDIO_OUT

USB FUNCTION

CONTROL PORT

RESET_SW

R

G

B

H

V

R

G

B

V

H

V

H

V

H

V

PC1/PC2-SW

IC4001
LMH6739

AMP

IC4011
TC74HC4053AFT

SYNC I/O-SW

IC101
VIDEO DECODER

IC5001
AUDIO CONTROL

IC101
VIDEO DECODER

IC301
SCAN CONVERTER & SYSTEM CONTROL

IC101
VIDEO DECODER

A/D

IC8201
AD9883AKSTZ

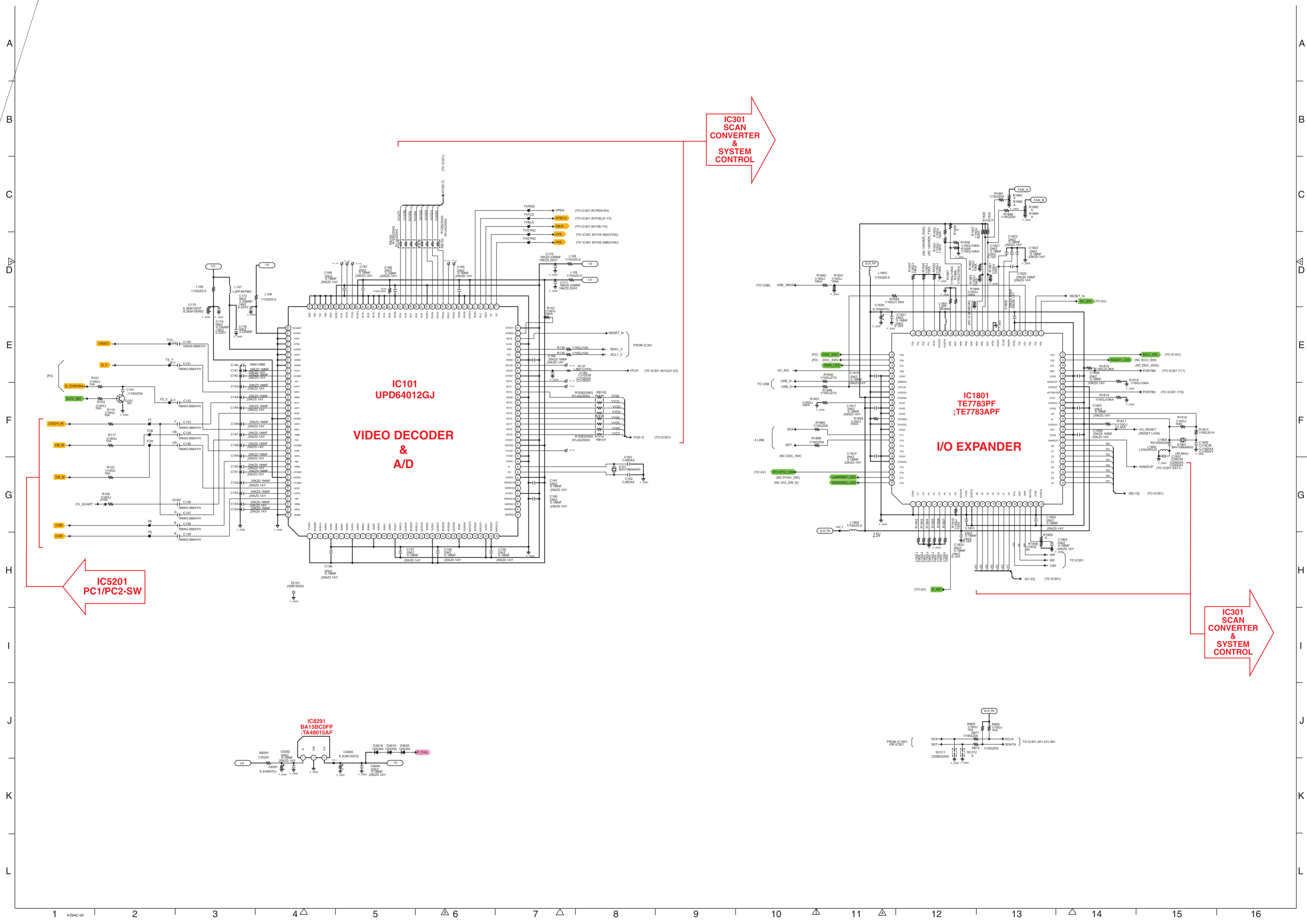
IC161
BA033FP
BA33BC0FP
TA48033AF

SCAN CONVERTER & SYSTEM CONTROL

SYNC SEP.

IC301
BA7078AF

IC302
TC7WH125FU



IC301
SCAN
CONVERTER
&
SYSTEM
CONTROL

IC1801
TE7783PF
;TE7783APF

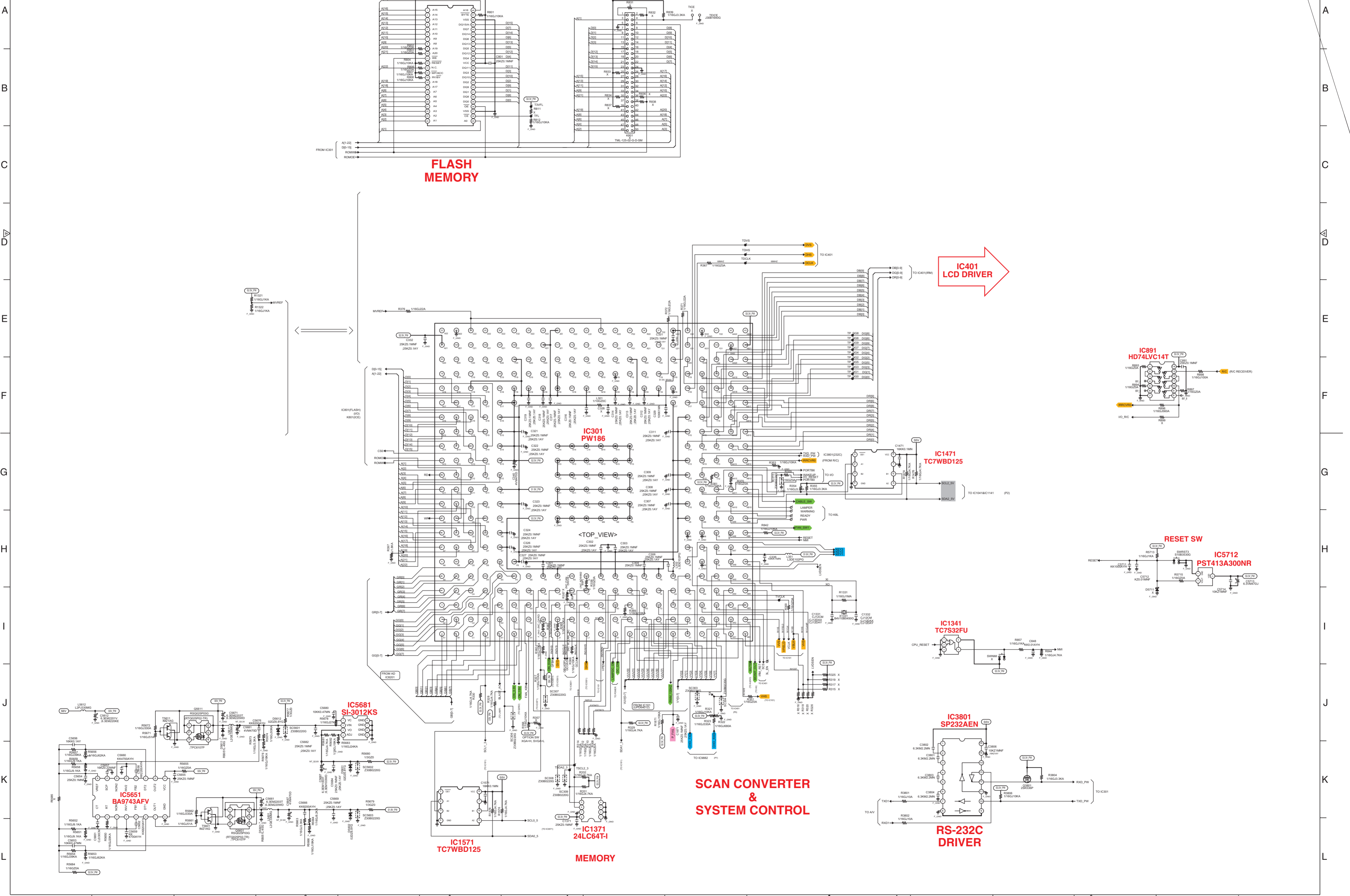
I/O EXPANDER

IC301
SCAN
CONVERTER
&
SYSTEM
CONTROL

IC5201
PC1/PC2-SW

IC101
UPD64012GJ
VIDEO DECODER
&
A/D

IC8291
BA158C0FP
;TA4801SAF



**FLASH
MEMORY**

**IC401
LCD DRIVER**

**IC301
PW186**

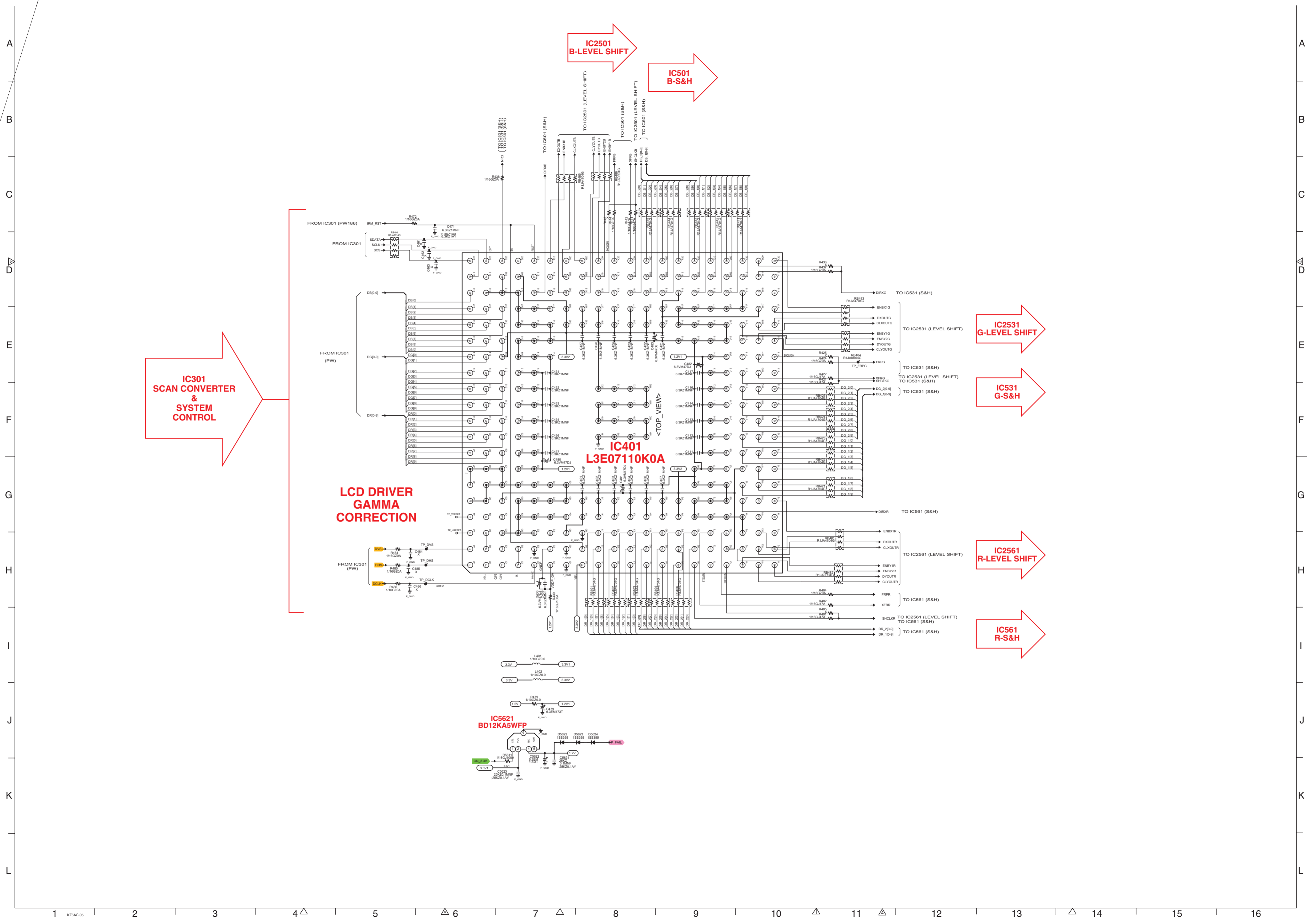
**SCAN CONVERTER
&
SYSTEM CONTROL**

**RS-232
DRIVER**

MEMORY

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

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



**IC301
SCAN CONVERTER
&
SYSTEM CONTROL**

**IC2501
B-LEVEL SHIFT**

**IC501
B-S&H**

**LCD DRIVER
GAMMA
CORRECTION**

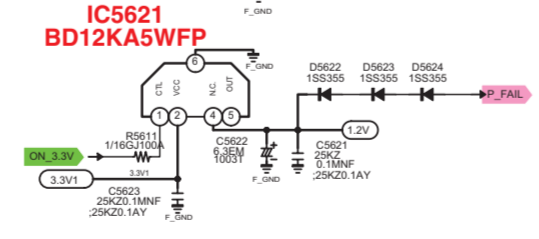
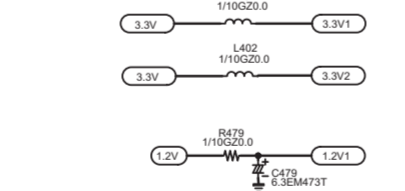
**IC401
L3E07110K0A**

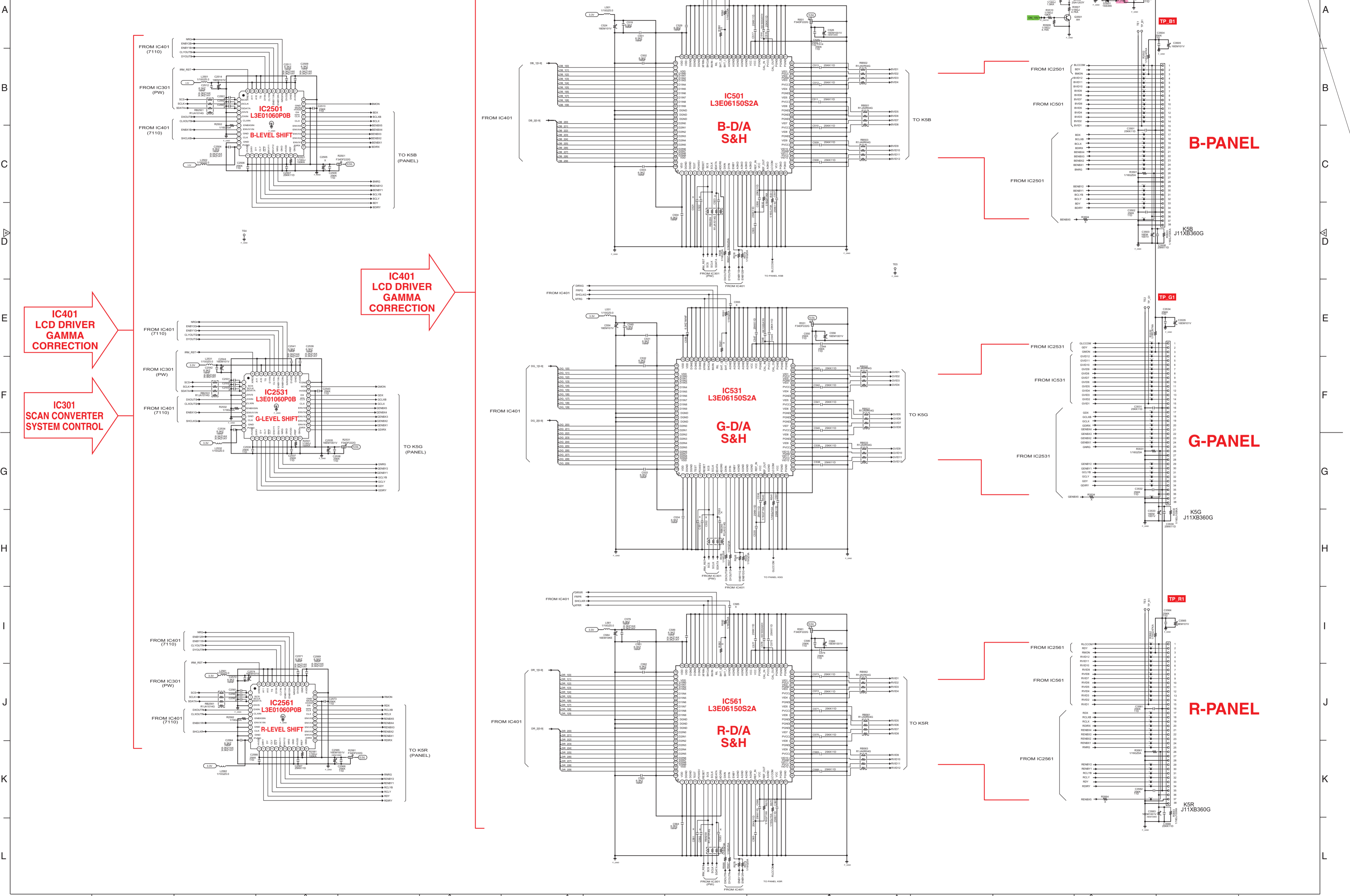
**IC2531
G-LEVEL SHIFT**

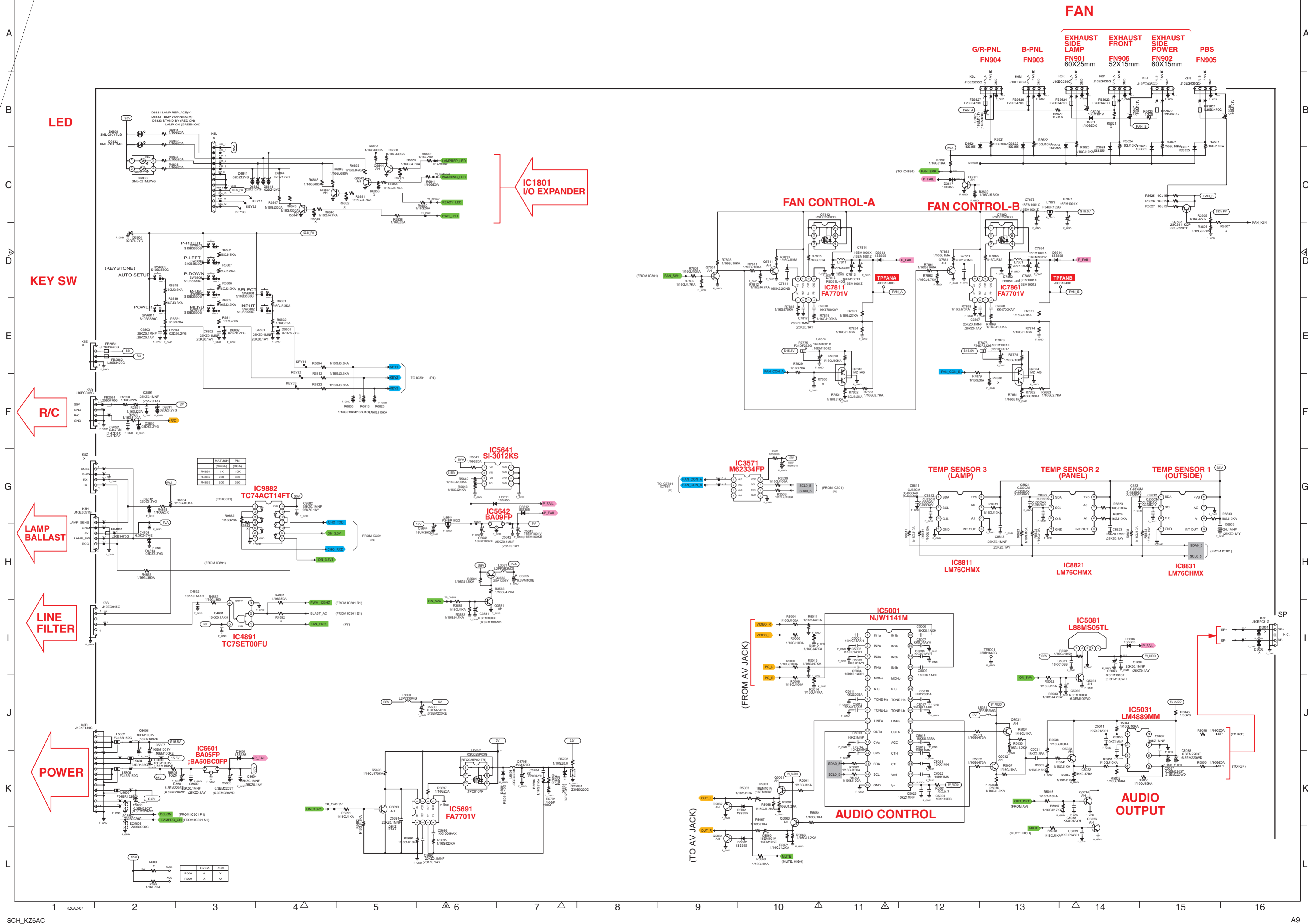
**IC531
G-S&H**

**IC2561
R-LEVEL SHIFT**

**IC561
R-S&H**







LED

KEY SW

R/C

LAMP BALLAST

LINE FILTER

POWER

FAN

FAN CONTROL-A

FAN CONTROL-B

TEMP SENSOR 3 (LAMP)

TEMP SENSOR 2 (PANEL)

TEMP SENSOR 1 (OUTSIDE)

AUDIO CONTROL

AUDIO OUTPUT

IC1801 I/O EXPANDER

IC3571 M62334FP

IC5641 SI-3012KS

IC5642 BA09FP

IC9882 TC74ACT14FT

IC4891 TC7SET00FU

IC5601 BA05CFP

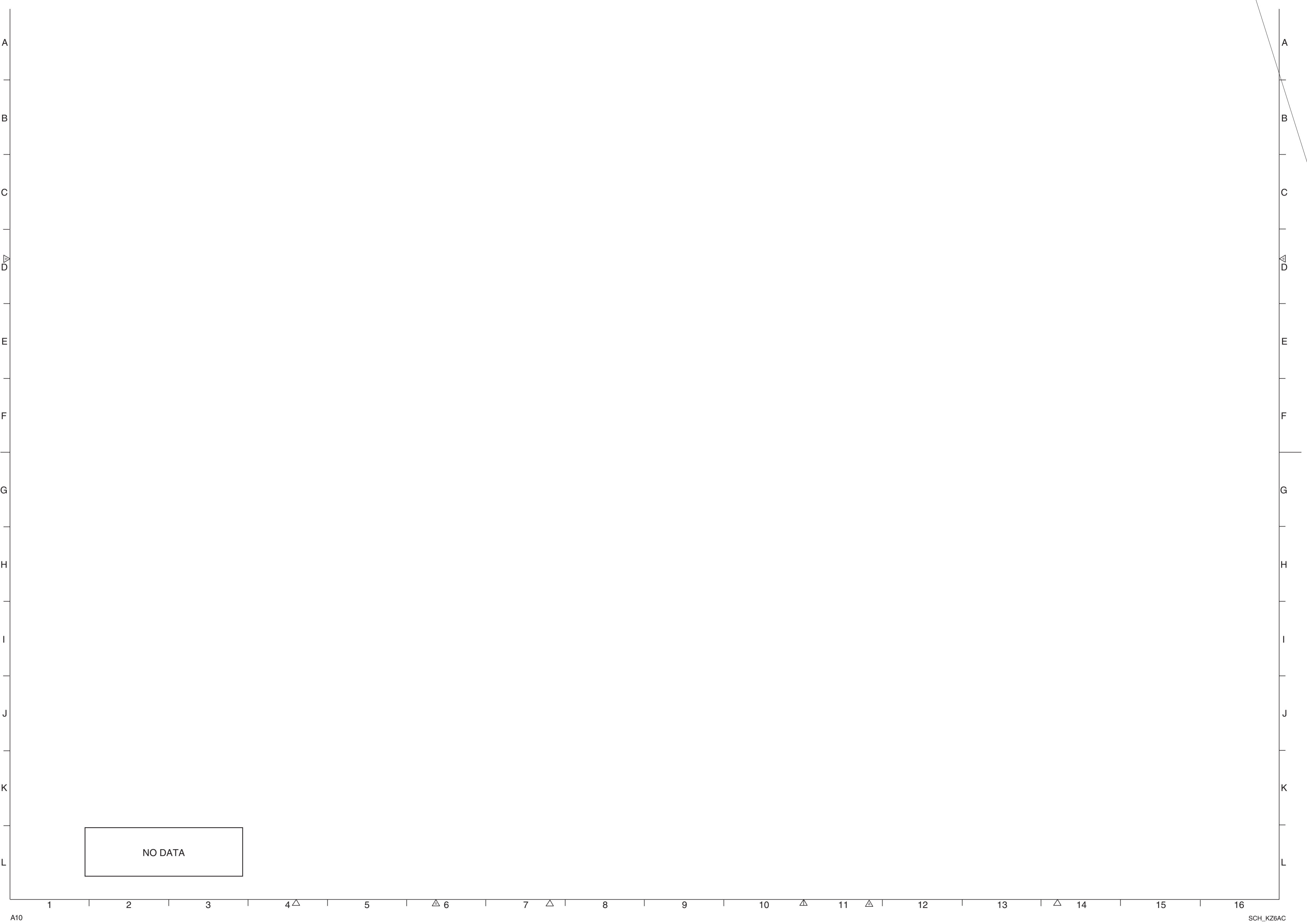
IC5691 FA7701V

IC5001 NJW1141M

IC5081 L88MS05TL

IC5031 LM4891MM

G/R-PNL FN904 B-PNL FN903 EXHAUST SIDE LAMP FN901 60X25mm EXHAUST FRONT FN906 52X15mm EXHAUST SIDE POWER FN902 60X15mm PBS FN905



A

B

C

D

E

F

G

H

I

J

K

L

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

A10

SCH_KZ6AC

NO DATA

A

B

C

D

E

F

G

H

I

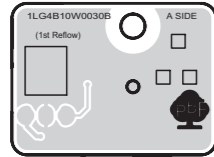
J

K

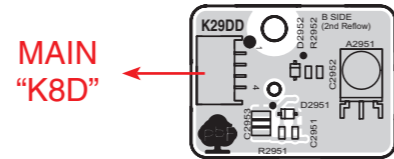
L

Printed Wiring Board Diagrams

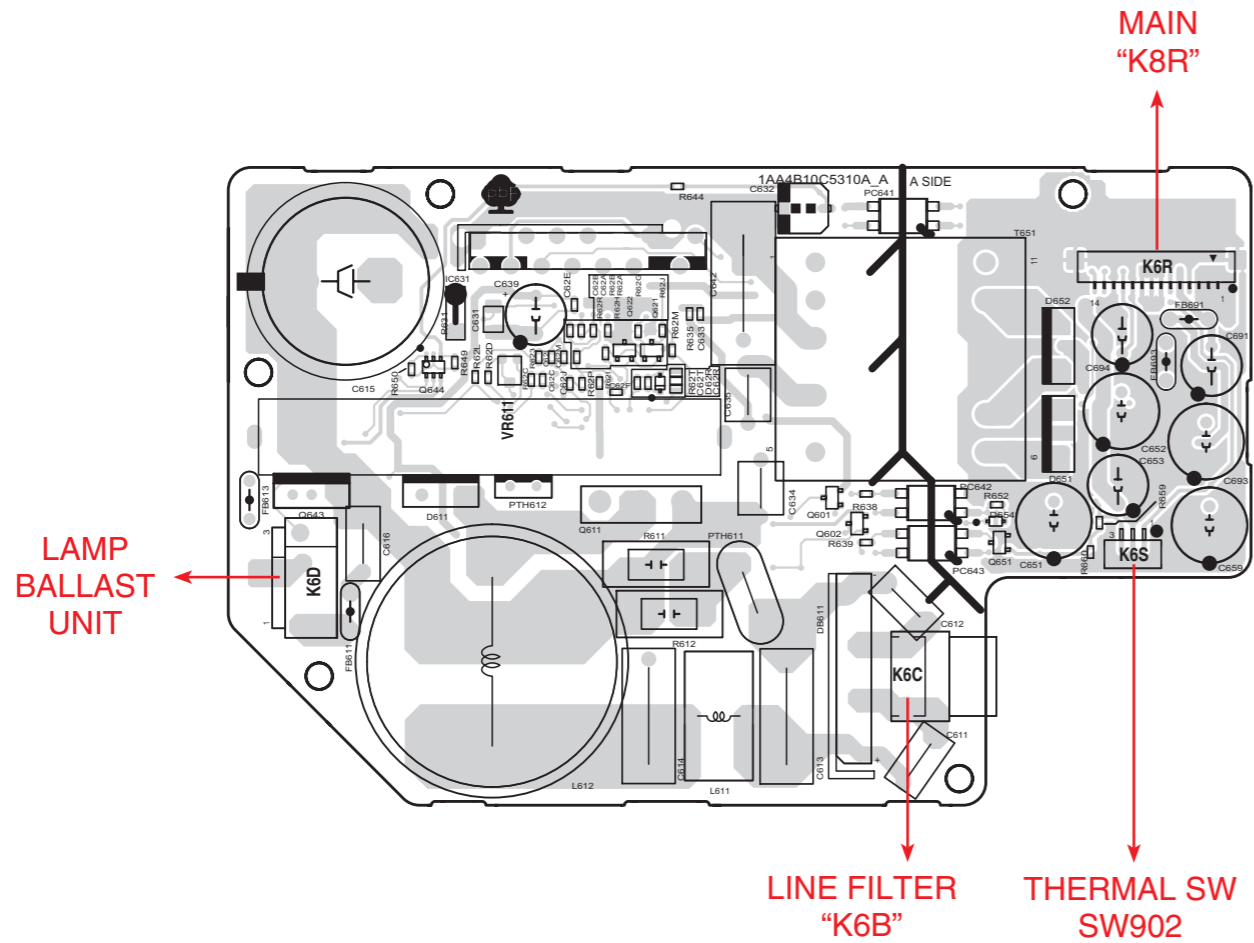
R/C (SIDE:A)



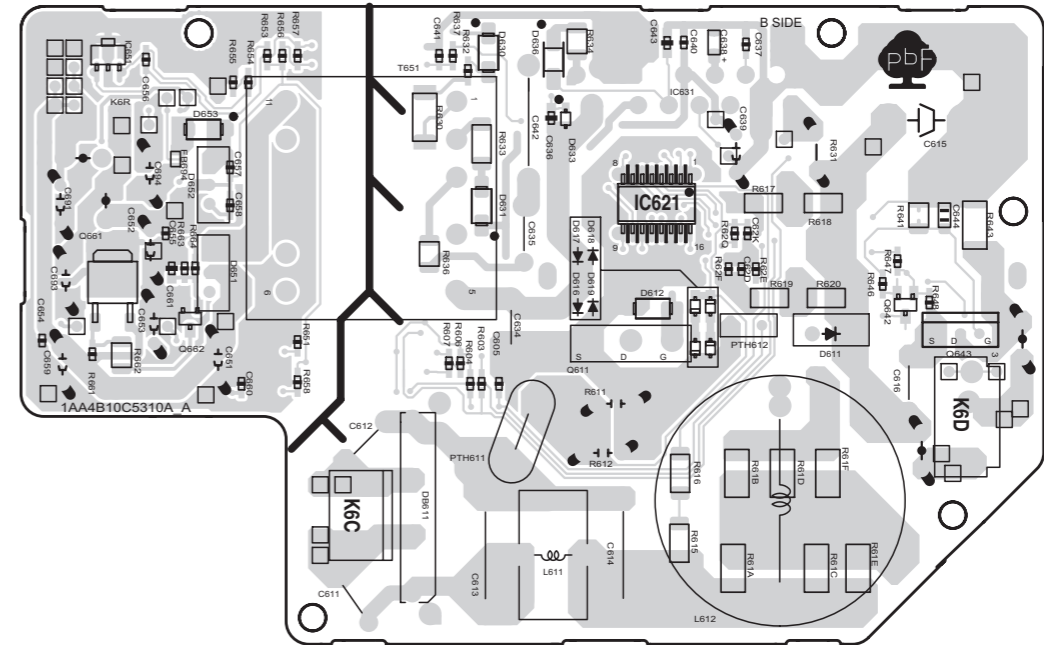
R/C (SIDE:B)



POWER (SIDE:A)



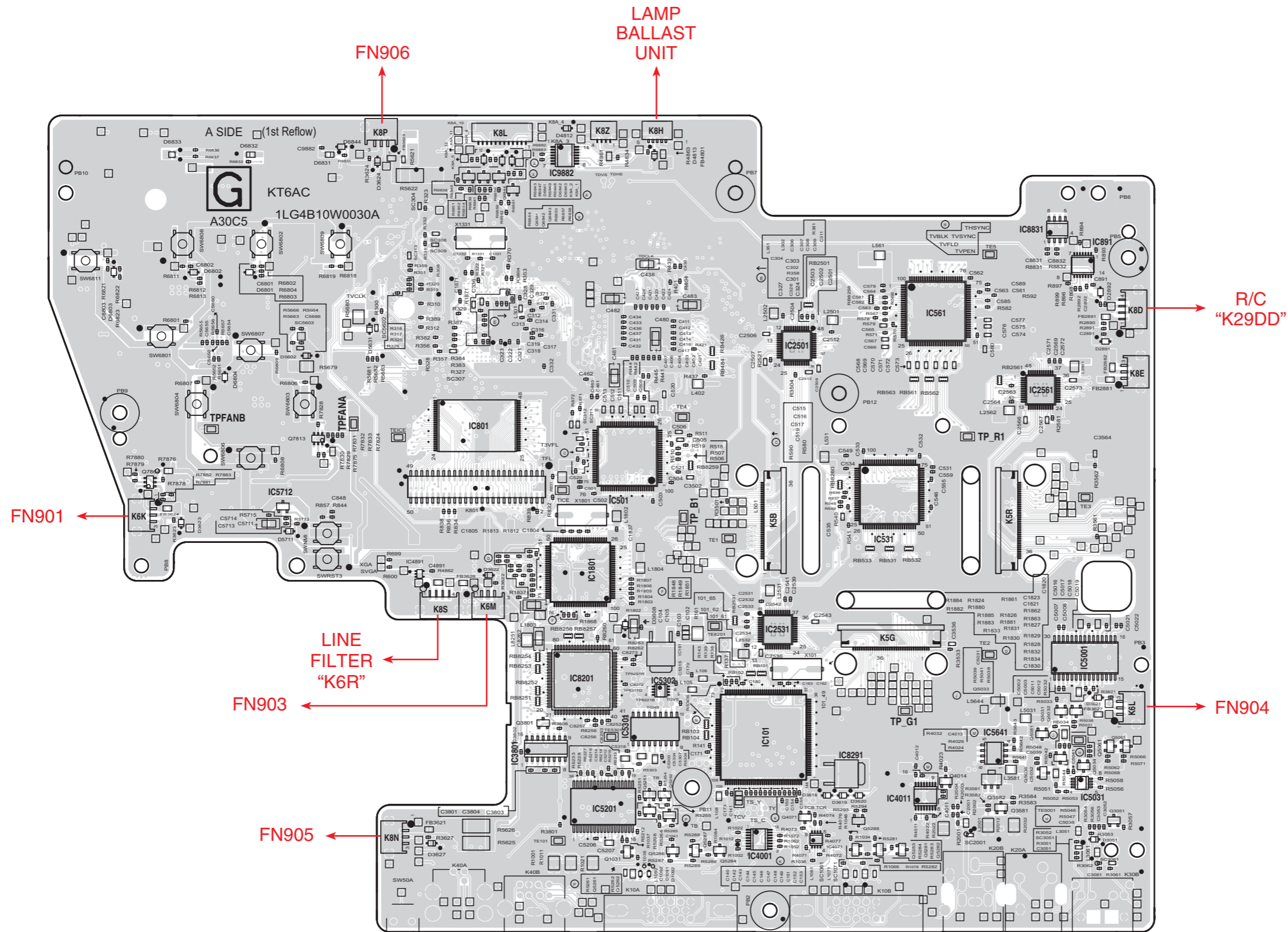
POWER (SIDE:B)



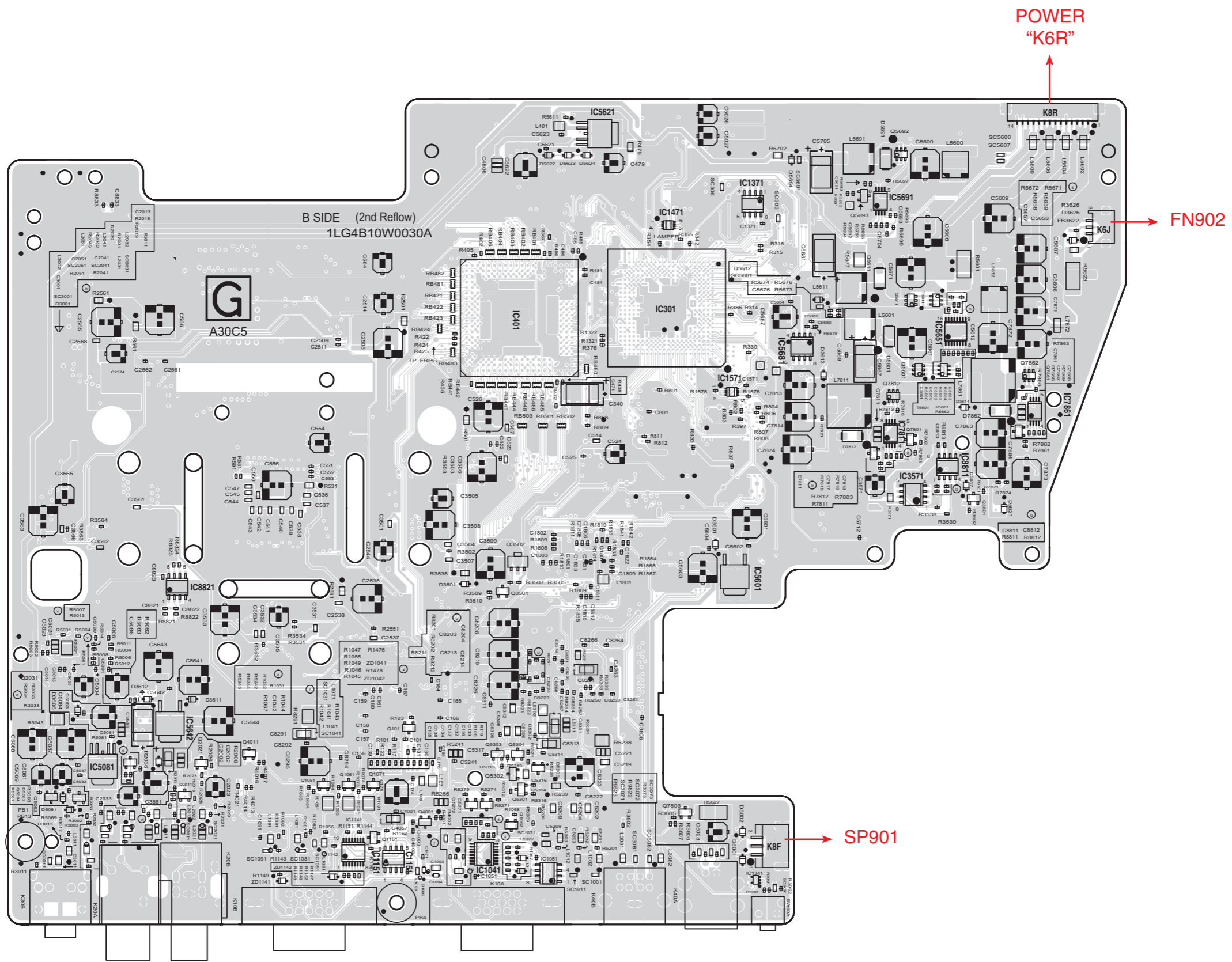
⚠ CAUTION

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

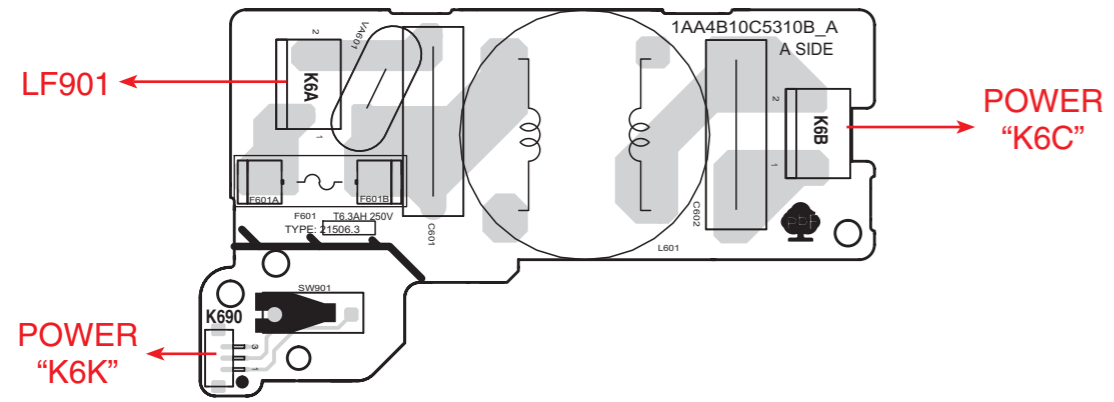
1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.



MAIN (SIDE:B)



LINE FILTER (SIDE:A)



LINE FILTER (SIDE:B)

