SANYO

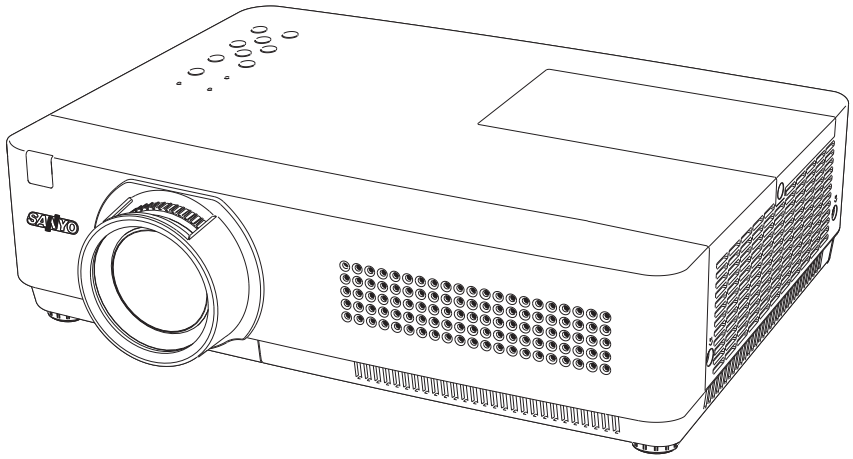
FILE NO.

SERVICE MANUAL

Multimedia Projector

Model No. **PLC-WXU300**
U.S.A, Canada,
Europe, U.K, Asia

Original Version



Chassis No. KE5-WXU30000

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

PRODUCT CODE
PLC-WXU300
1 122 469 00 (KE5AC)
1 122 470 00 (LE5AC)
1 122 470 02 (LE5CC)

REFERENCE NO. SM5111074-00

Contents

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 T HE PROTECTIVE SHIELD IN POSITION AND PROP ERLY 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 there 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)	12.80" x 3.27" x 9.12" (326mm x 83.1mm x 231.6mm) (Not including protrusions)
Net Weight	6.18 lbs (2.8 kg)
Feet Adjustment	0˚ to 12˚

Panel Resolution

LCD Panel System	0.59" TFT Active Matrix type, 3 panels
Panel Resolution	1,280 x 800 dots
Number of Pixels	3,072,000 (1,280 x 800 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
SD/HDTV Signal	Analog: 480i, 480p, 575i, 575p, 720p, 1035i, and 1080i HDMI: 480p, 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 30" to 300"
Throw Distance	2.4' ~ 25.2' (0.74 m ~ 7.67 m)
Projection Lens	F 1.65 ~ 2.33 lens with f 15.47 mm ~ 24.53 mm with manual zoom and focus
Projection Lamp	225 W

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 1/Computer 2 Audio Input Jacks	Mini Jack (stereo) x 2
Computer In 1/Component Input Terminal	Mini D-sub 15 pin x 1
Computer In 2/Monitor Output Terminal	Mini D-sub 15 pin x 1
Control Port Connector	D-sub 9 pin x 1
Audio Output Jack	Mini Jack (stereo) x 1 (variable)
LAN Connection Terminal	100 Base-TX (100Mbps)/10 Base-T (10Mbps), RJ45
HDMI	x 1

Audio

Internal Audio Amp	7.0 W RMS
Built-in Speaker	1 speaker, ø1.46" (37mm)

Power

Voltage and Power Consumption	AC 100–120 V (3.7A Max. Ampere), 50/60 Hz (The U.S.A and Canada) AC 200–240 V (2.0A 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	AAA or LR03 1.5V ALKALINE TYPE x 2
Operating Range	16.4' (5 m)/±30˚
Dimensions	2.0" (W) x 0.7" (H) x 4.3" (D) (52 mm x 18 mm x 110 mm)
Net Weight	2.37 oz (67 g) (including batteries)

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

c UL® US LISTED

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

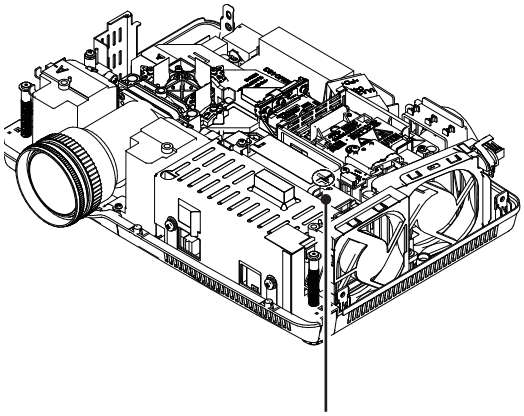
This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

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 100˚C, the thermal switch opens to stop the operation of the power supply circuit.

The thermal switch can be reset itself automatically when the internal temperature becomes normal.

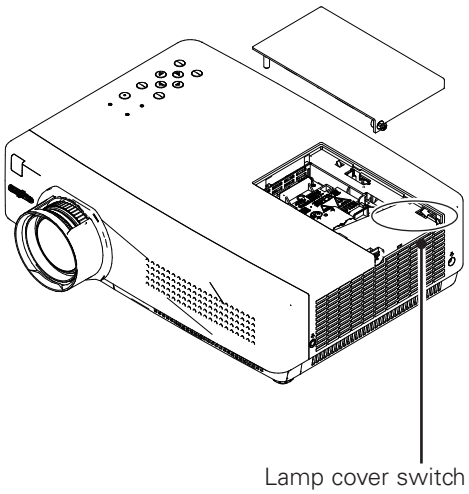
When the internal temperature reaches near 70˚C, the thermal switch returns automatically.



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.

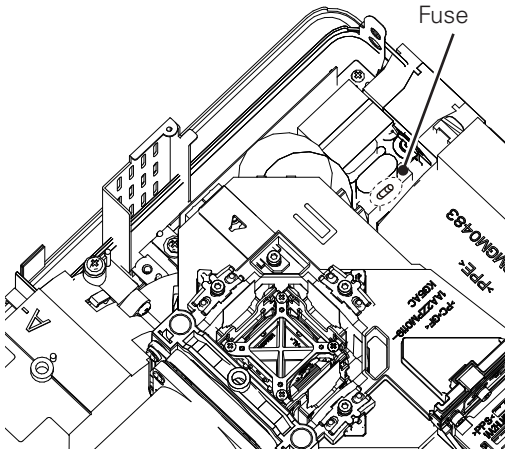


Lamp cover switch (SW901)

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. The fuse is placed on the filter board under the main board. Remove the cabinet top and the main board.
2. Take the fuse off, 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.

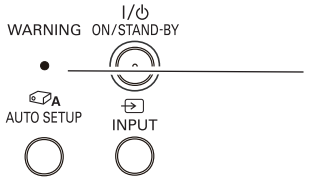
Possible causes

- 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)

The projector is shut down and the WARNING indicator lights red.

When the projector detects an abnormal condition, it is automatically shut down to protect the inside of the projector and the WARNING indicator lights red. In this case, unplug the AC power cord and reconnect it, and then turn the projector on once again to verify operation. If the projector cannot be turned on and the WARNING indicator still lights red, unplug the AC power cord and contact the service station.

Top Control



CAUTION

DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Maintenance

Cleaning the Air Filter

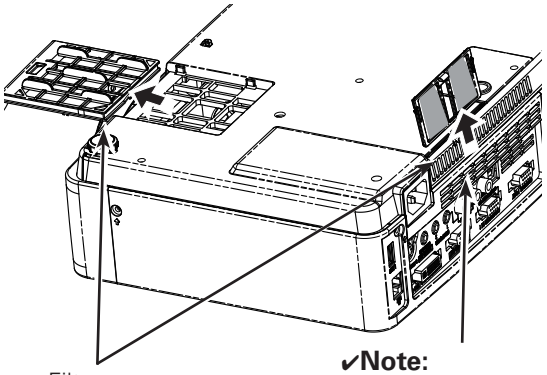
Filter prevents dust from accumulating on the optical elements inside the projector. Should the filters become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a Filter warning icon appears on the screen, clean the filters immediately. Clean the filters by following the steps below.

1 Turn off the projector, and unplug the AC power cord from the AC outlet.

2 Turn the projector over and remove the filters.

3 Clean the filters softly by using a brush.

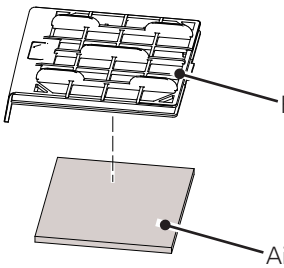
4 Replace the filters properly. Make sure that the filters are fully inserted to the projector.



Filters

✔Note:

When reinserting this filter, be sure that the slit part is facing the outer side.



Filter Base

Air Filter

CAUTION

Do not operate the projector with the filters removed. Dust may accumulate on the optical elements degrading picture quality.
Do not put anything into the air vents. Doing so may result in malfunction of the projector.

RECOMMENDATION

We recommend avoiding dusty/smoky environments when you operate 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 degrading the quality of a projected image. When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Resetting the Filter Counter

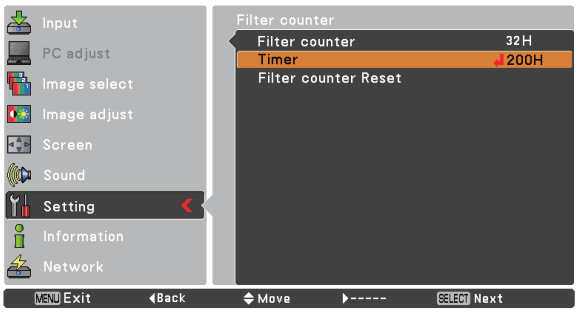
Be sure to reset the Filter counter after cleaning or replacing the filters.

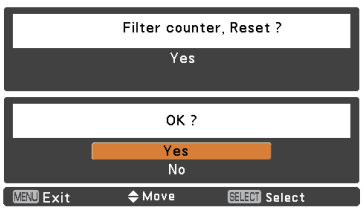
1 Press the MENU button to display the On-Screen Menu. Use the Point buttons to select **Setting** and then press the Point or SELECT button.

2 Use the Point buttons to select **Filter counte**r and then press the SELECT button. Use the Point buttons to select **Filter counter reset** and then press SELECT button. **Filter counter Reset?** appears. Select **Yes** to continue.

3 Another confirmation dialog box appears, select **Yes** to reset the Filter counter.

Filter counter





Filter counter , Reset? appears.

Select **Yes**, then another confirmation box appears.

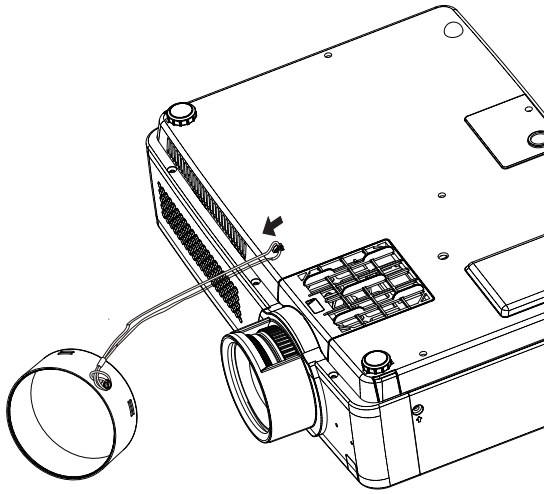
Select **Yes** again to reset the Filter counter.

Attaching the Lens Cover

When moving the projector or while it is not in use, replace the lens cap.

1 Thread the string through the hole on the lens cap and then tie a knot in the string to secure it in place.

2 To pass the other end of the string into the hole on the top of the projector and pull at it.

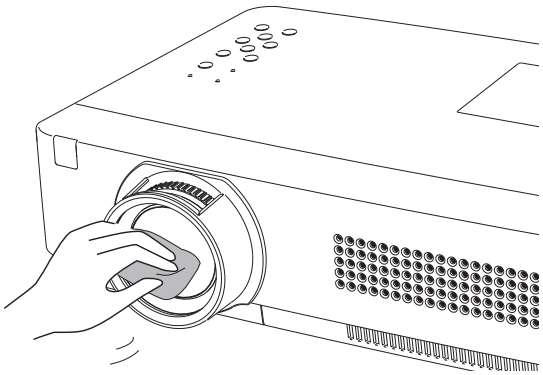


Cleaning the Projection Lens

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner or use a lens cleaning paper or commercially available air blower to clean the lens.

Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch the surface of the lens.

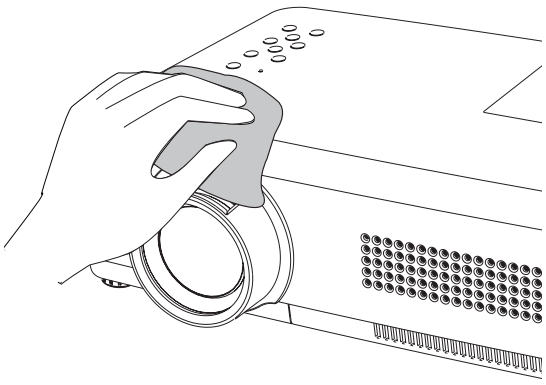


Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a soft dry cleaning cloth. When the cabinet is heavily soiled, use a small amount of mild detergent and finish with a soft dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in an appropriate carrying case to protect it from dust and scratches.



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.

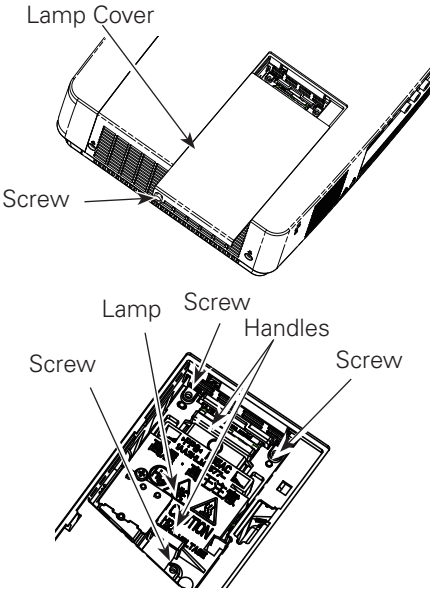
Procedure

1. Unplug the AC power cord. Let the projector cool for at least 45 minutes.
2. Loosen the screw and open the lamp cover.
3. Loosen the three (3) screws that secure the lamp. Lift the lamp out of the projector by using the handles.
4. Replace the lamp with a new one and secure the three (3) screws. Make sure that the lamp is set properly. Push the lamp cover and secure the screw.
5. Connect the AC power cord to the projector and turn on the projector.

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.	**POA-LMP131**
Service Parts No.	**610 343 2069**



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

CAUTION

Allow a projector to cool for at least 45 minutes before you open the Lamp Cover. The inside of the projector can become very hot.

CAUTION

For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

CAUTION

When replacing the lamp because it has stopped illuminating, there is a possibility that the lamp may be broken.
If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is broken, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently. Small pieces of glass may fall out when the lamp cover is opened. If pieces of glass get into your eyes or mouth, seek medical advice immediately.

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".

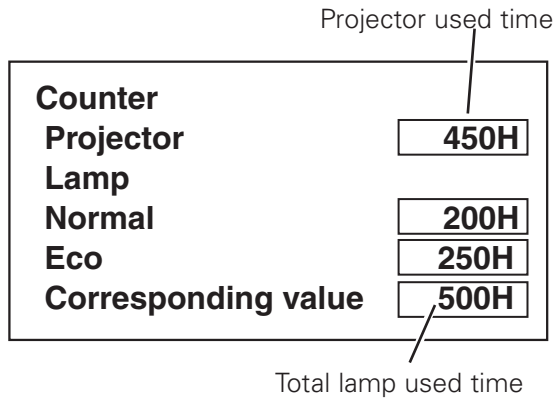
How to check Lamp Used Time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 2,500 hours. This is to indicate that lamp replacement is required.
The total lamp used time is calculated by using the below expression,
Total lamp used time = **T**eco + **T**normal x 1.25

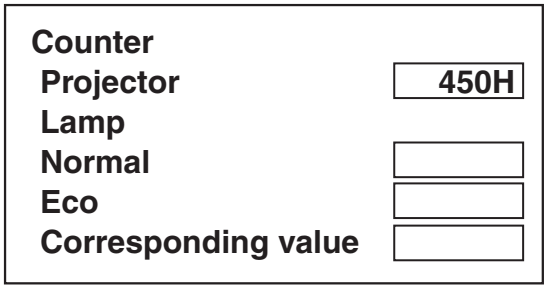
Teco: used time in the Eco mode
Tnormal : used time in the Normal mode.

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

1 Press and hold the **ON/STAND-BY** button on the projector for more than 20 seconds.
2 The projector used time and lamp used time will be displayed on the screen briefly as follows.

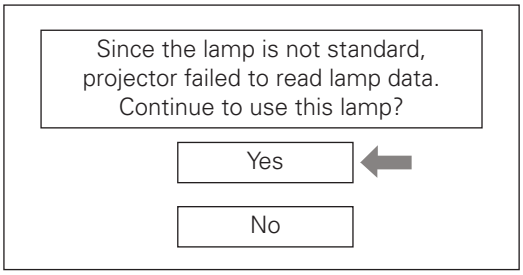


Note:
When non-standard lamp is used, lamp used time should not appear.



Warning Message on the non-standard lamp used

If the non-standard lamp is used, the warning and confirmation messages will appear on the screen every startup. Some of the functions are limited when the non-standard lamp is used in spite of the warning.



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. Initial setting: Key lock function is disabled
PIN code lock	Prevents the projector from being operated by an unauthorized person. Initial code: "1234"
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo on the screen. Initial code: "4321"

Resetting procedure

1 Disconnect the AC power cord from the AC outlet.

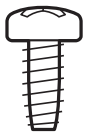
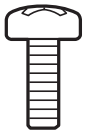
2 As pressing the **SELECT** button on the projector, connect the AC power cord into an AC outlet again. Keep pressing the **SELECT** button until the POWER indicator lights continuously.

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.

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, Front, R/C Board removal

1. Loose screw A (M3x8) to remove the Lamp Cover.
2. Remove 5 screws B (M3x8) to remove the Cabinet top.
3. Remove the Control Buttons and Dec Inlay LED.
4. Remove 3 screws C (M3x6) and 3 screws D (T3x8) to remove the Cabinet Front.
5. Remove screw E (T3x6) to remove the R/C Board.

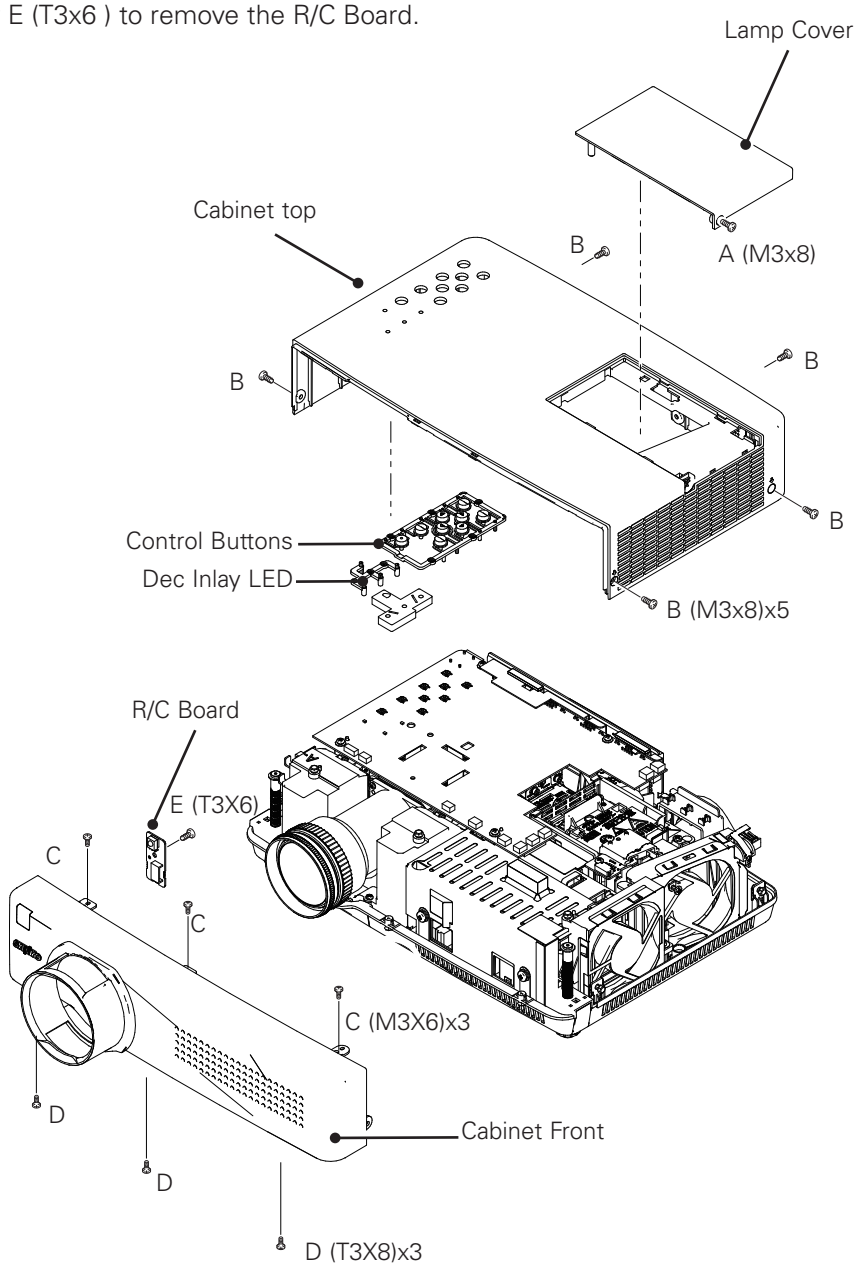


Fig.1

2 Main Board, AV Panel and Fan removal

1. Remove 5 screws A (M2.5x6) and 2 screws B (M4x4) to remove the Main Board.
2. Release the hooks to remove the AV Panel, remove 3 screws C (T3x6) and screw D(M3x6) to remove the AV Board.
3. Remove 3 screws E (T3X8) to remove the fans (FN902 and FN906).

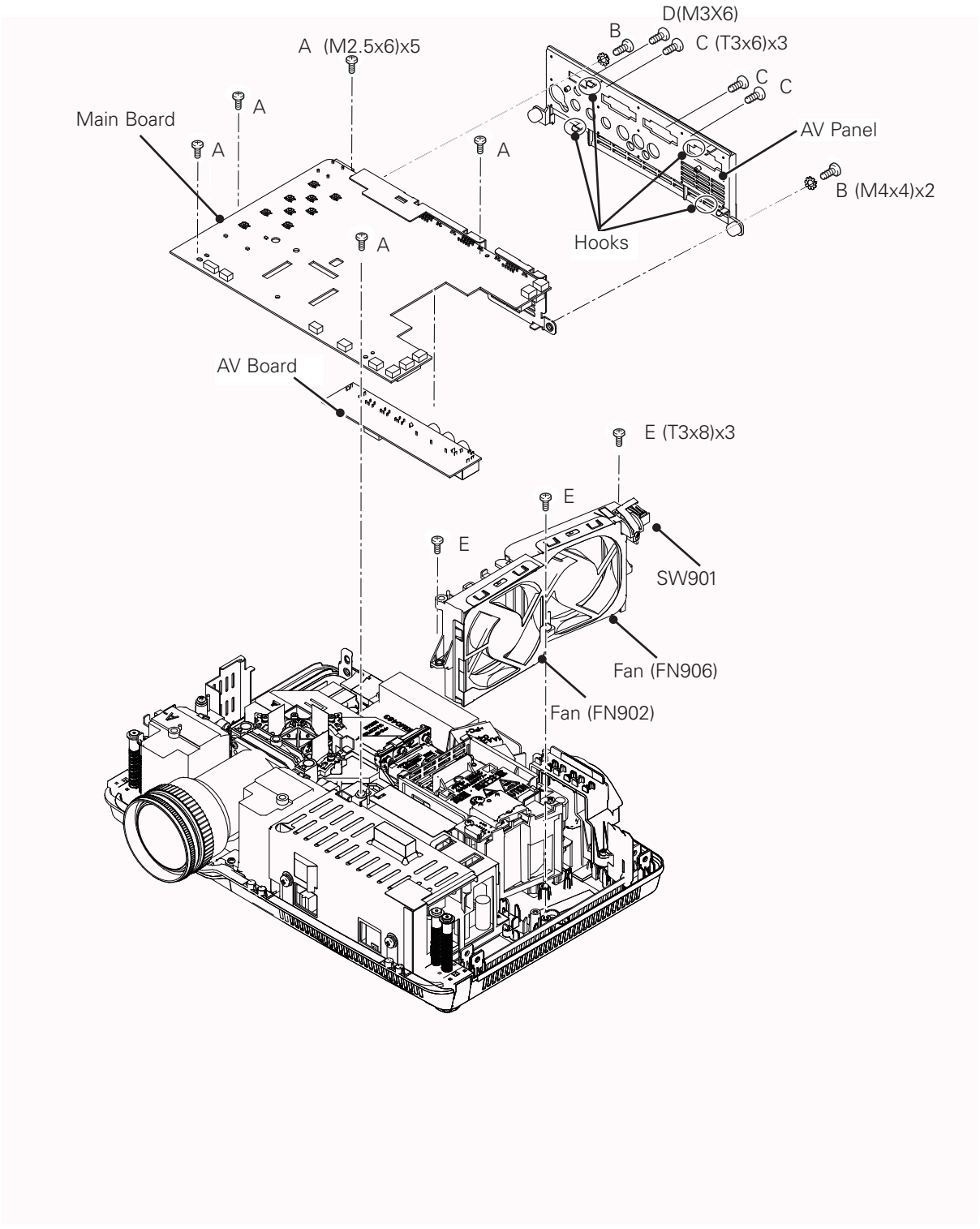


Fig.2

3 Speaker(SP901), Fan (FN901),Lamp Unit(LP900) and Optical Unit removal

1. Remove the 4 screws A (T3x8) to remove the speaker holder and the Speaker (SP901).
2. Remove 2 screws B (T3x8) and screw C (T3x12) to remove the fan (FN901).
3. Remove the lamp shield-top. Remove 3 screws D(M3x7) to remove the Lamp unit (LP900).
4. Remove the 2 screws E (T3x6) to remove the CONNECT ID board.
5. Remove the screw F (T3x8) to disconnect the Ballast socket.
6. Remove 5 screws G (T3x8) and 3 screws H(T3x8) to remove the Optical Unit and the Lamp holder.

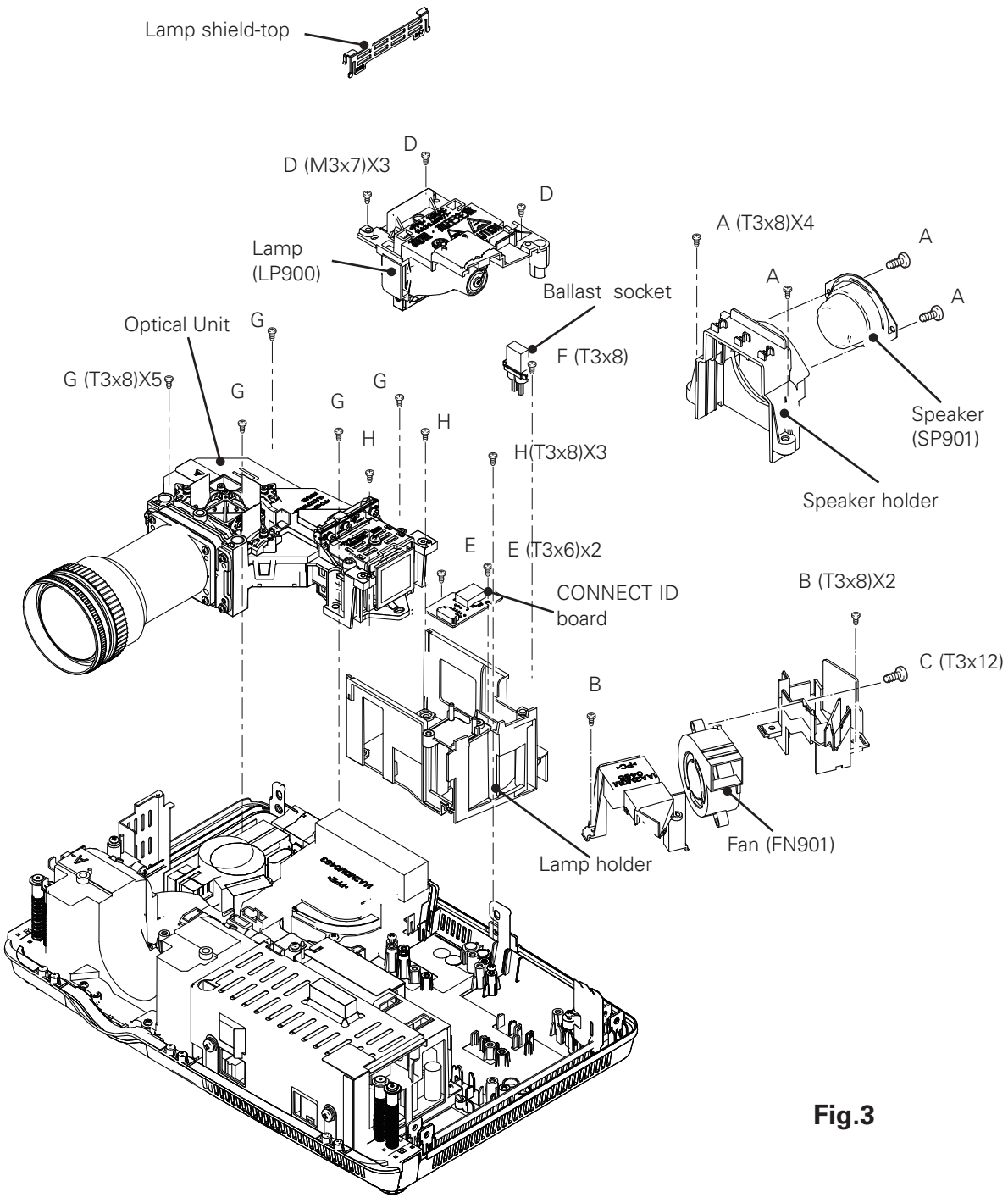


Fig.3

4 Power Board removal

1. Remove 3 screws A (T3x8), screw B (M3x8) and 3 screws C (M4x4) to remove the power board shield.
2. Remove the 2 screws D (T3x8) to remove the Ballast board.
3. Remove the power board holder. Loose the hooks to remove the Power board.

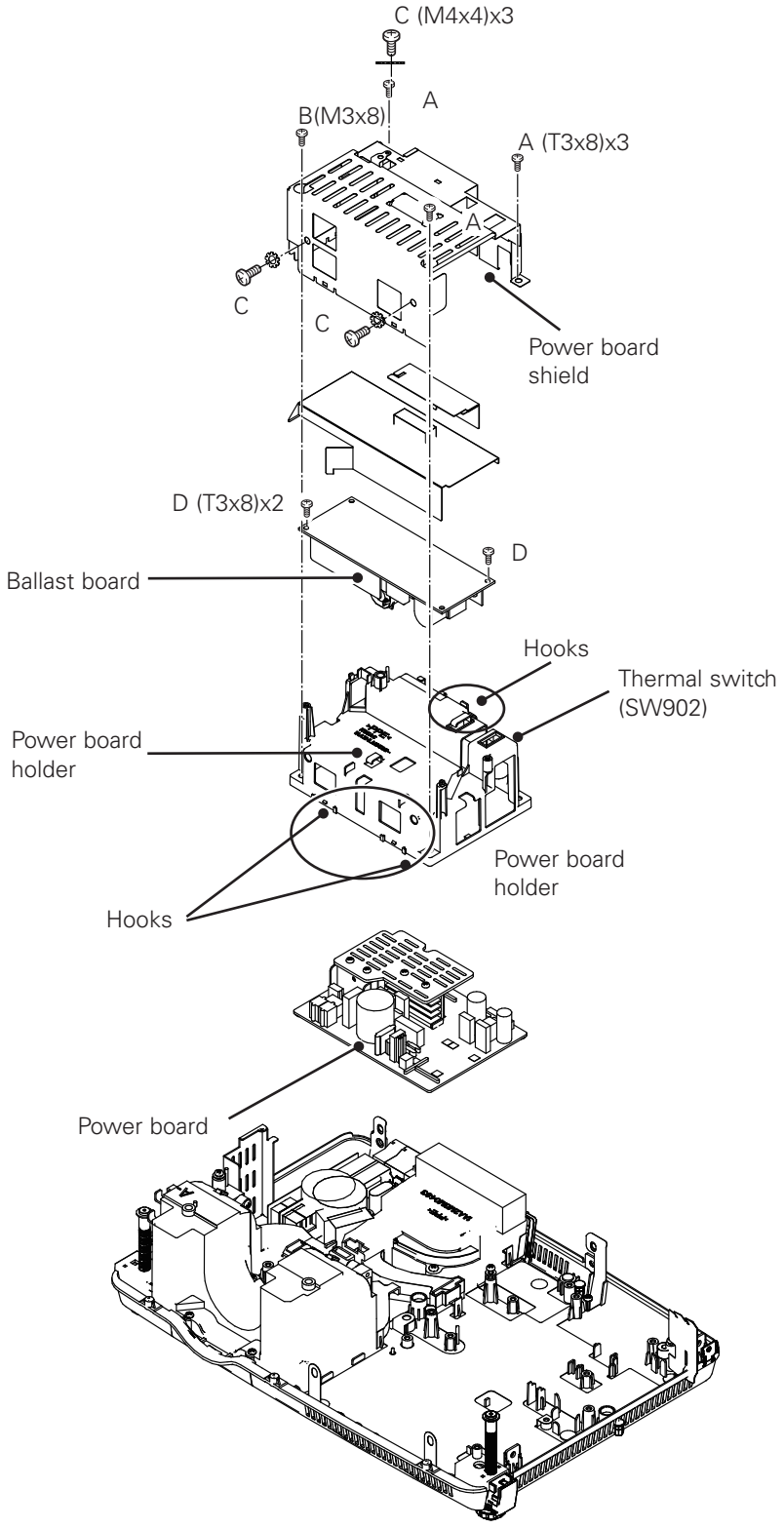


Fig.4

5 Mounting Duct, Fan(FN903, FN904, FN905) and Filter Board removal

1. Remove screw A (M4x4) , 2 screws B (T3x12) and 4screws C (T3x6) to remove the Mounting duct top, Mounting duct bottom and fan (FN904).
2. Remove 2 screws D (T3x12) to remove the fans (FN903 and FN905).
3. Remove screw E (T3x8) and screw F (M3X8) to remove the Left side shield.
4. Remove 2 screws G (T3x8) to remove the filter board.
5. Remove the Air filters.

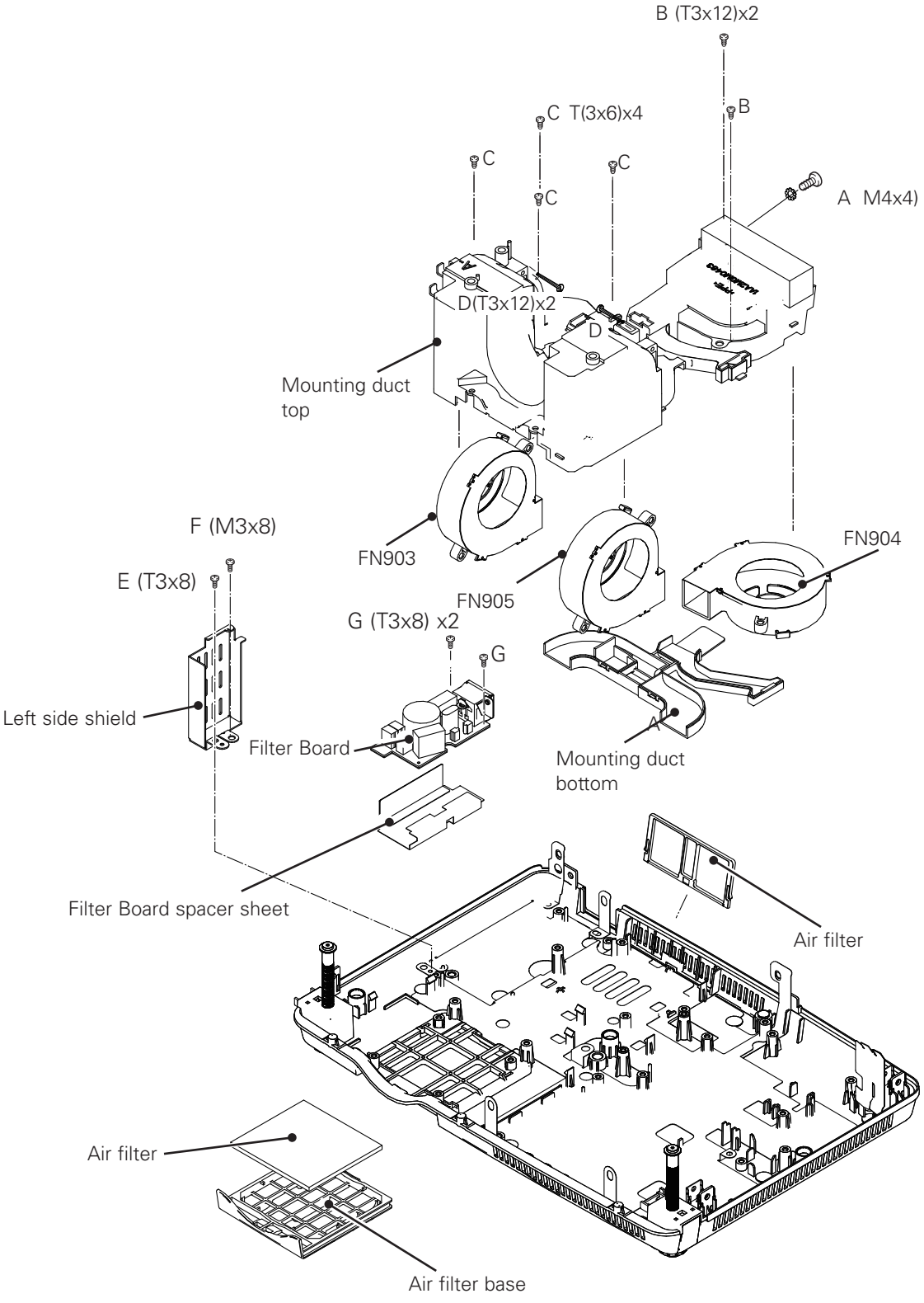


Fig.5

Optical Parts Disassembly

Before taking this procedure, remove Cabinet Top , Main Board and the Network board following to the "Mechanical Disassembly".
Disassembly requires a 2.0mm hex wrench.

1 Projection lens disassembly

Note: The optical unit should be removed from the cabinet bottom before removing the projection lens.

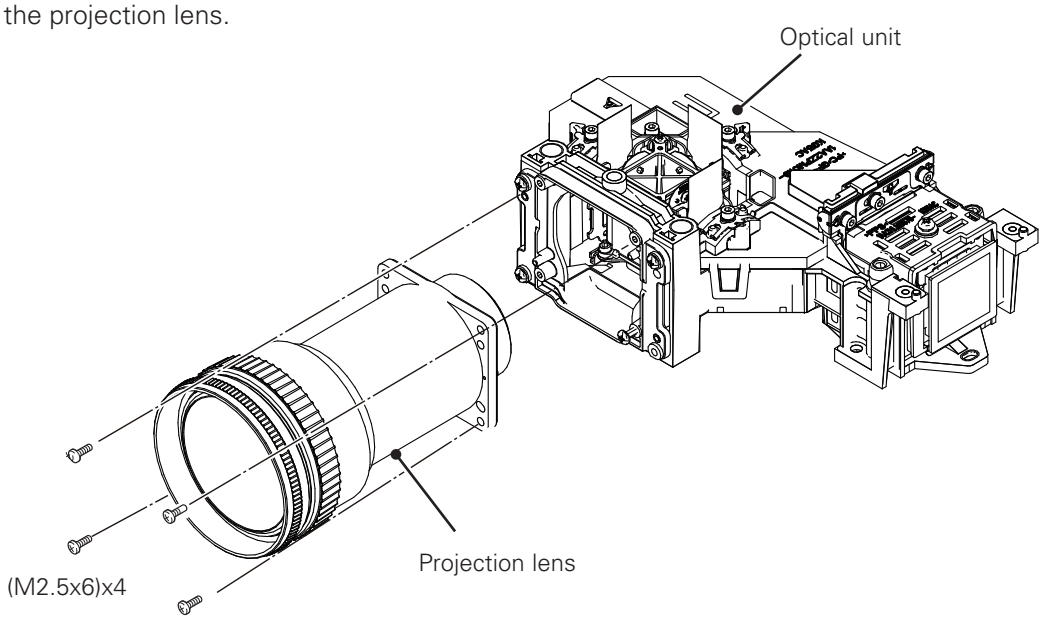


Fig.1

2 Integrator lens-in disassembly

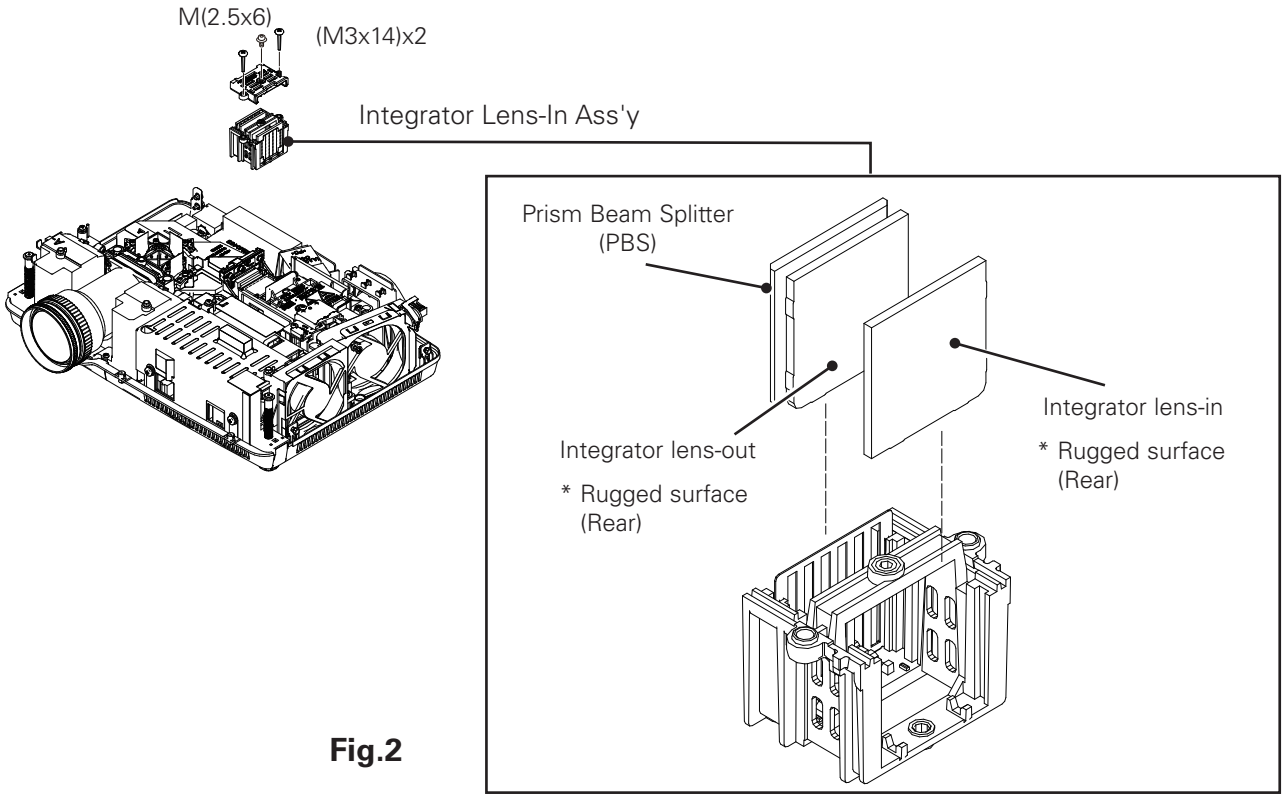


Fig.2

3 LCD Panel/Prism Ass'y removal

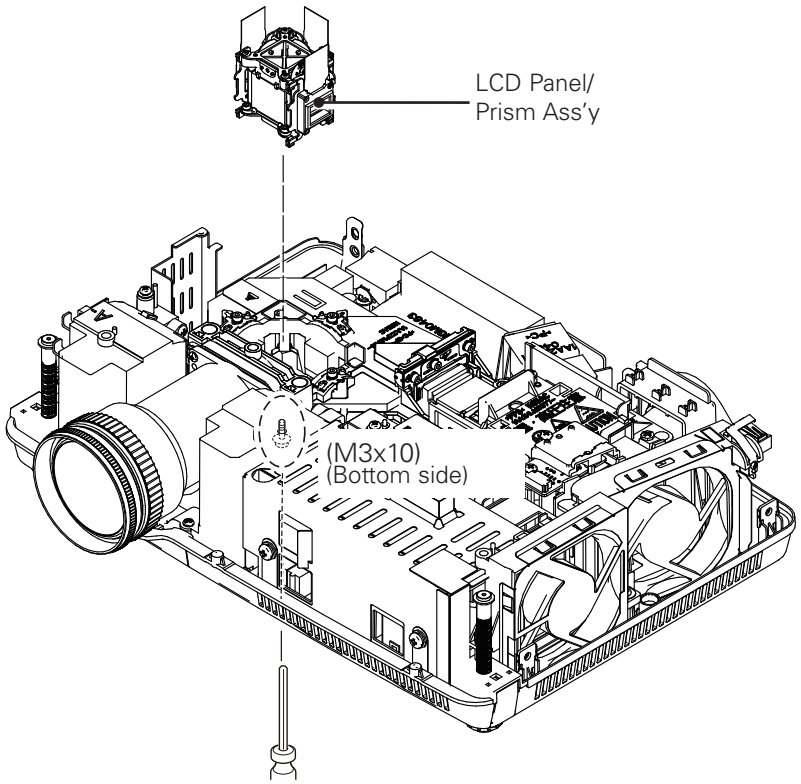


Fig.3-1

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 Center 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 Panel/Prism Ass'y for this model. Either L-Type or R-Type LCD Panel/Prism Ass'y is used on the projector. Check which type of LCD Panel/Prism Ass'y is used with the figure below.
When replacing the LCD Panel/Prism Ass'y, you need to take "Panel Type Check and Setting" on the Electrical Adjustment for the replaced LCD Panel/Prism Ass'y.
The gamma-characteristics is different between L-Type and R-Type LCD Panel/Prism Ass'y.

How to check the type of LCDPanel/Prism Ass'y
Check the printed number on the flat cable of the G-LCD Panel.

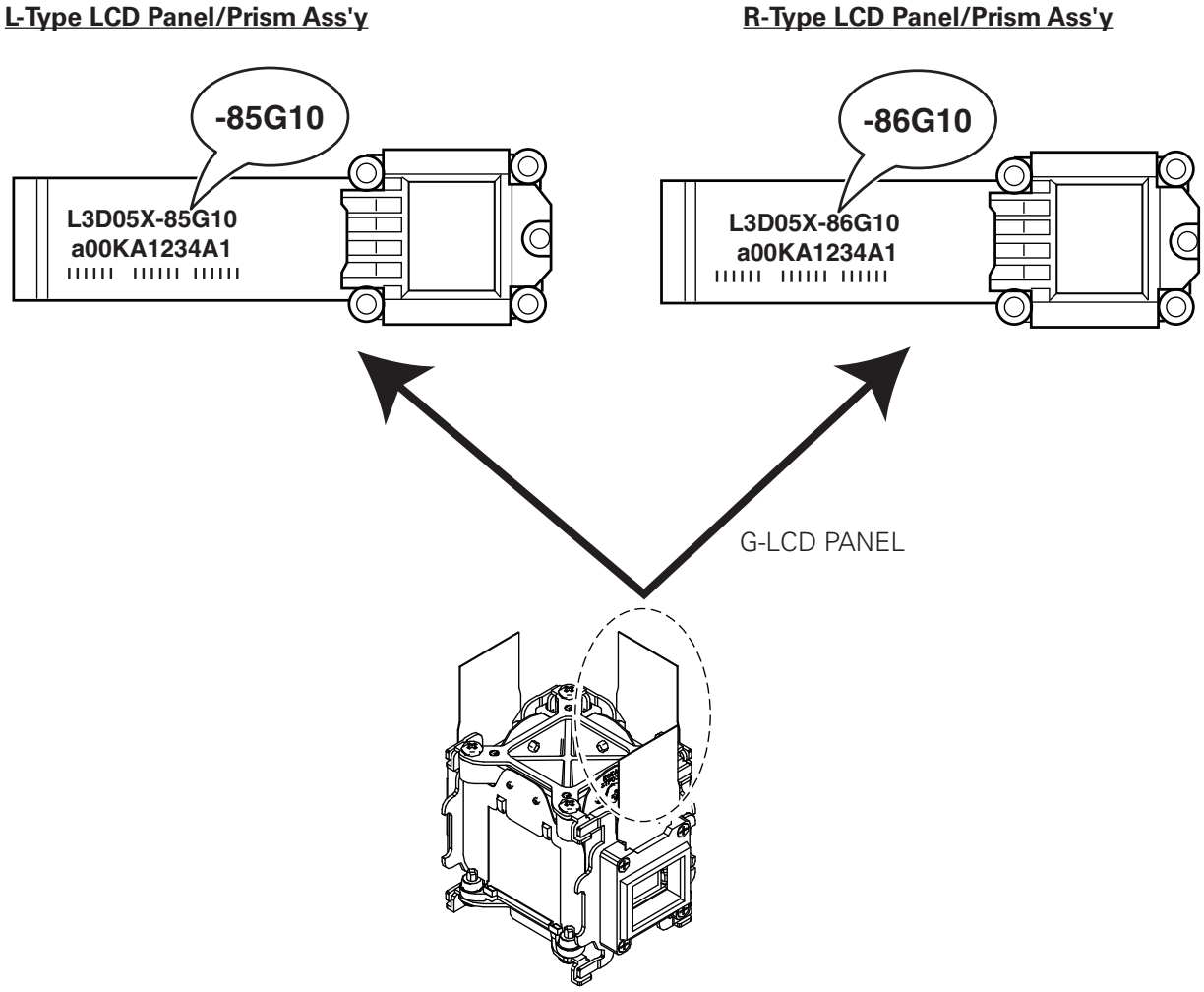


Fig.3-2

4 Polarized glass-in disassembly

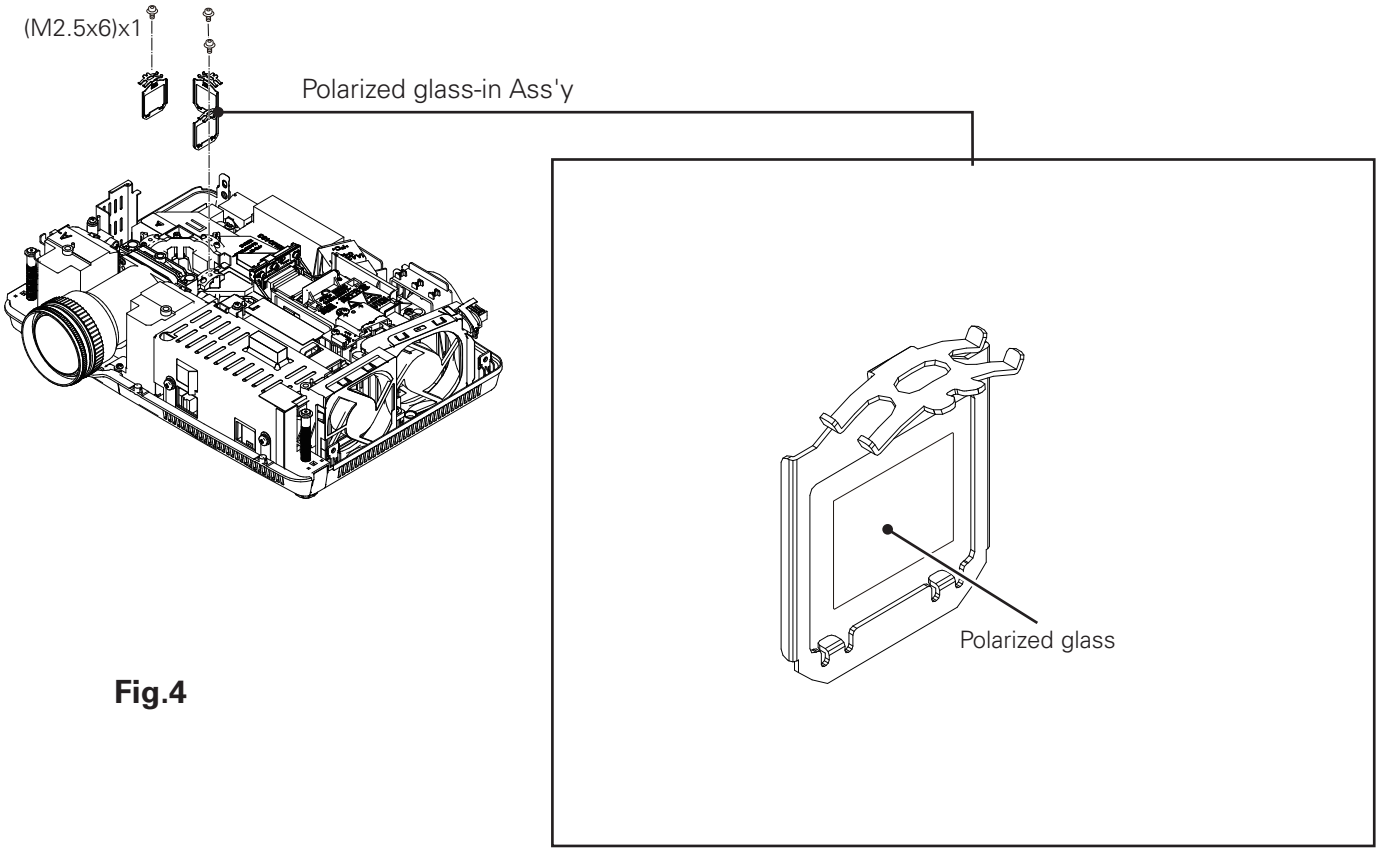


Fig.4

5 Polarized glass, Pre-polarized glass removal

* Mount the polarized glasses as the film attached side faces the LCD panel side.

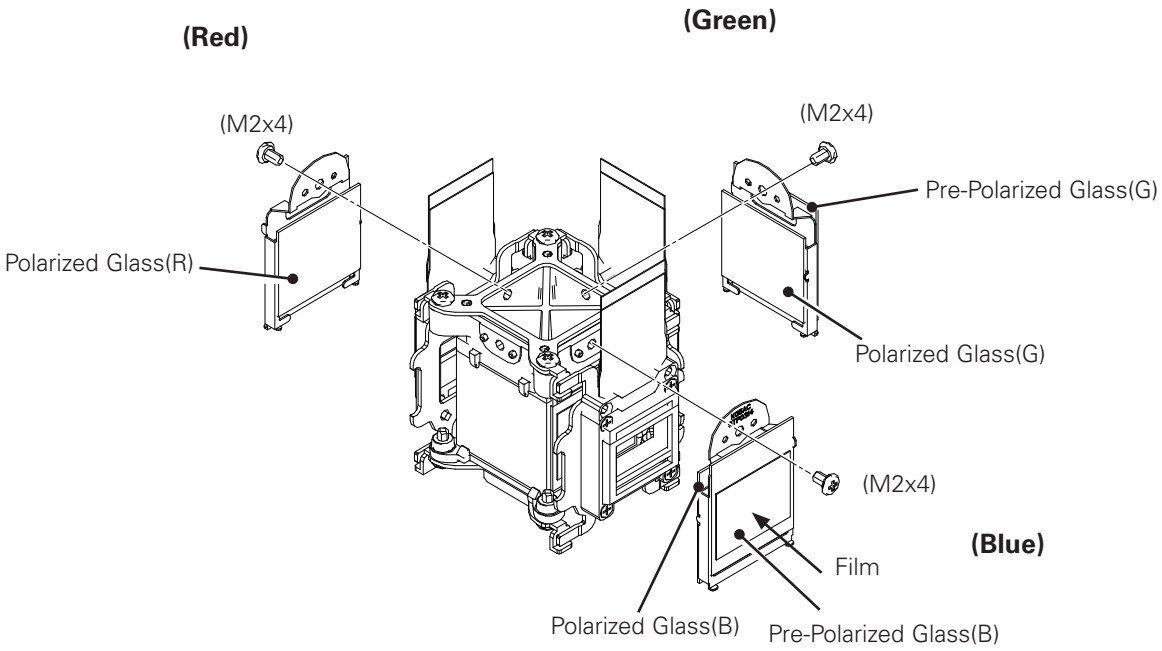


Fig.5

6 Optical unit top removal

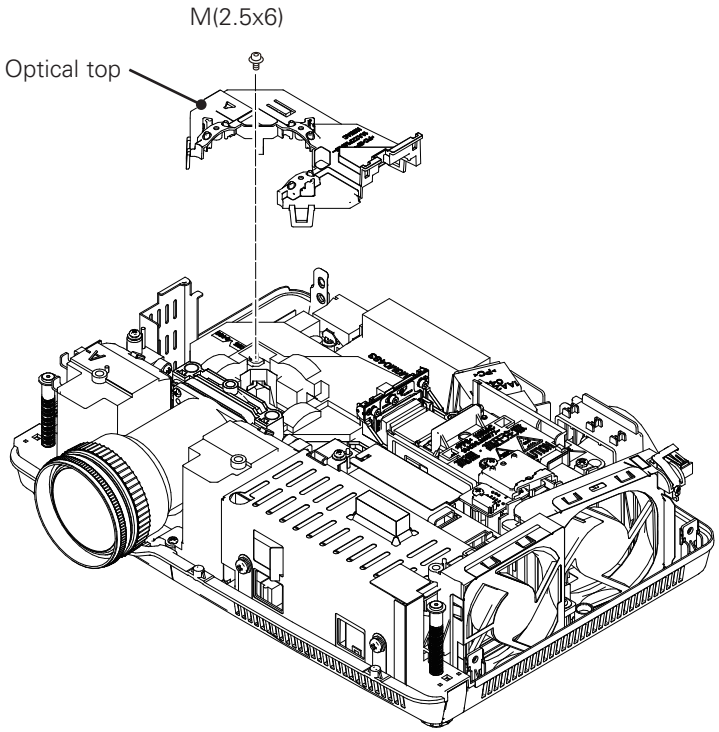


Fig.6

7 Condenser lens disassembly

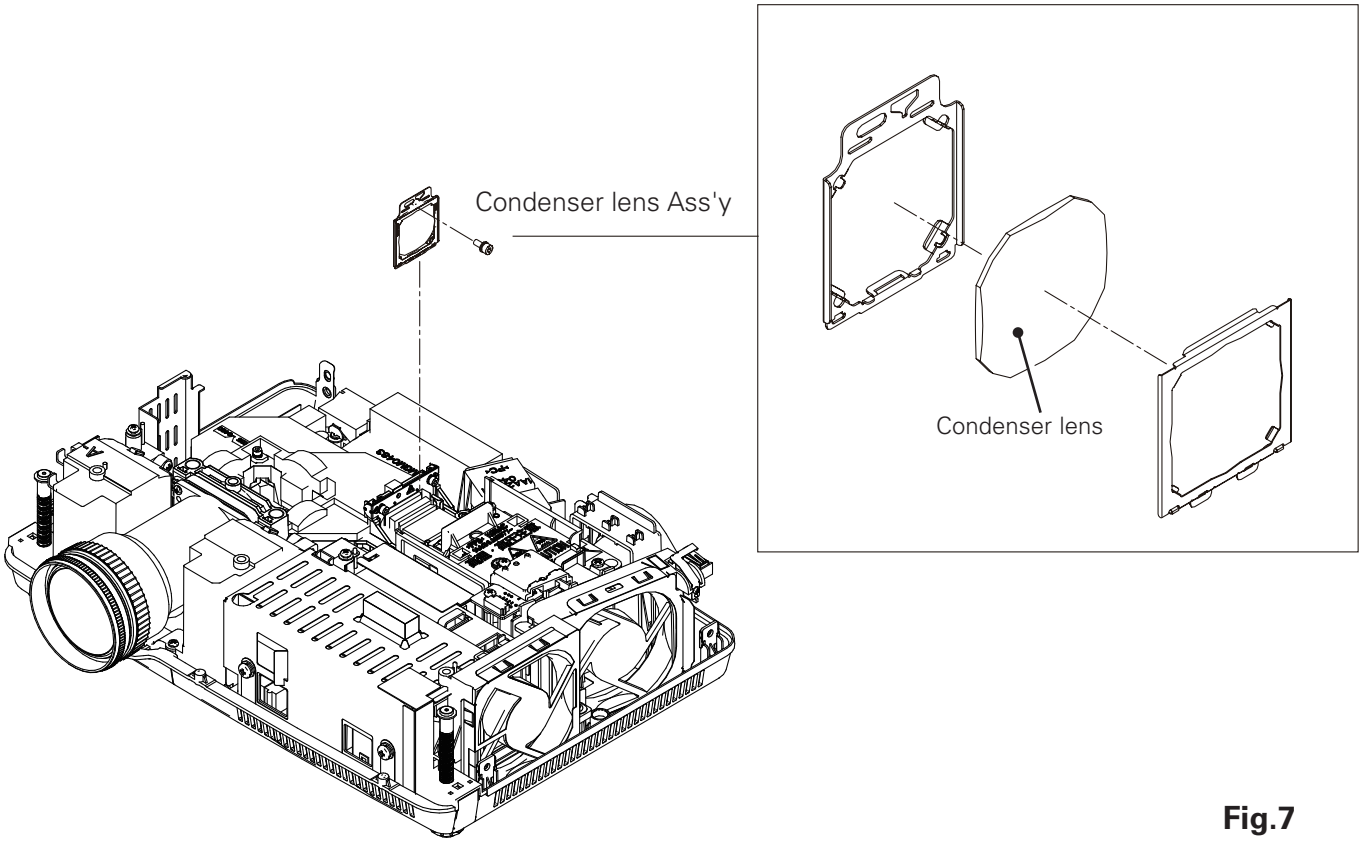


Fig.7

8 Relay lens disassembly

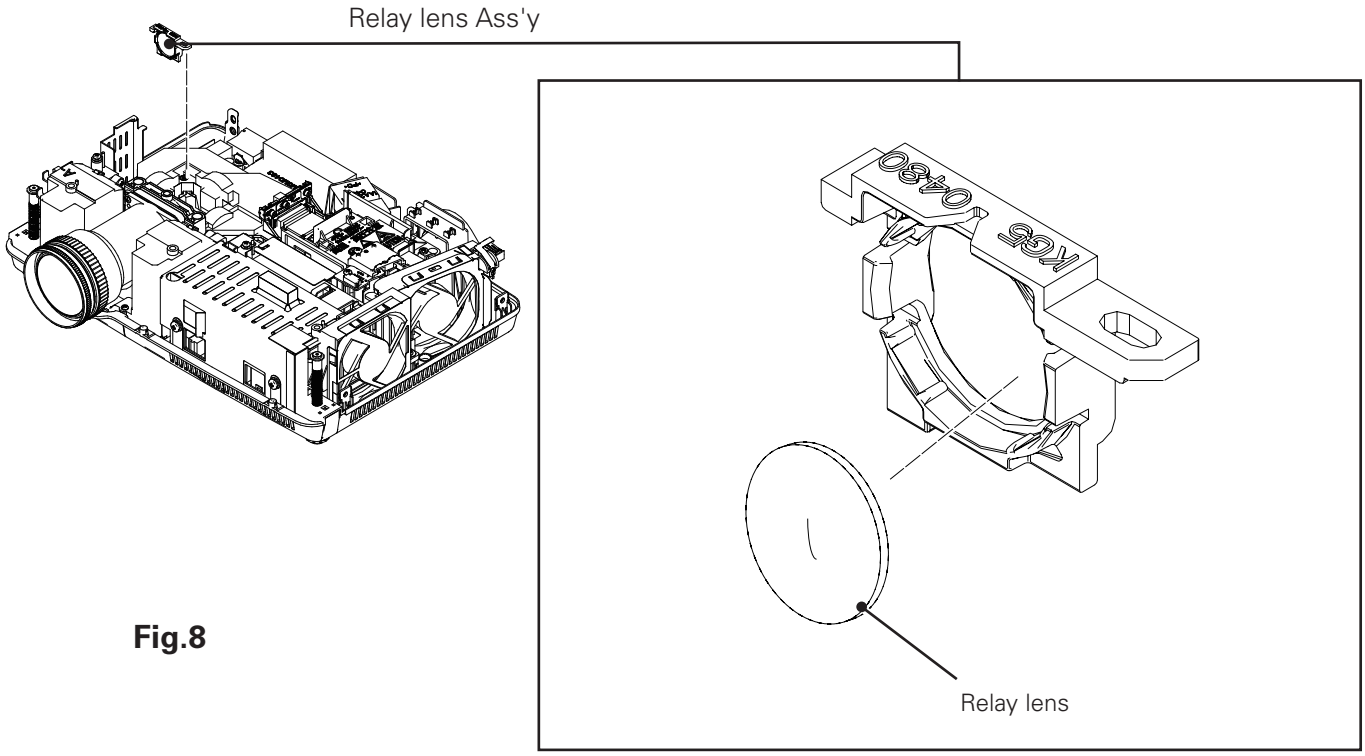


Fig.8

9 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 (IN)
2	Integrator lens (OUT)
3	Prism beam splitter (PBS)
4	Condenser lens (OUT)
5	Dichroic mirror (B)
6	Dichroic mirror (G)
7	Condenser lens (G)
8	Mirror (R)
9	Relay lens (IN)
10	Condenser lens (R)
11	Condenser lens (B)
12	Mirror (B)

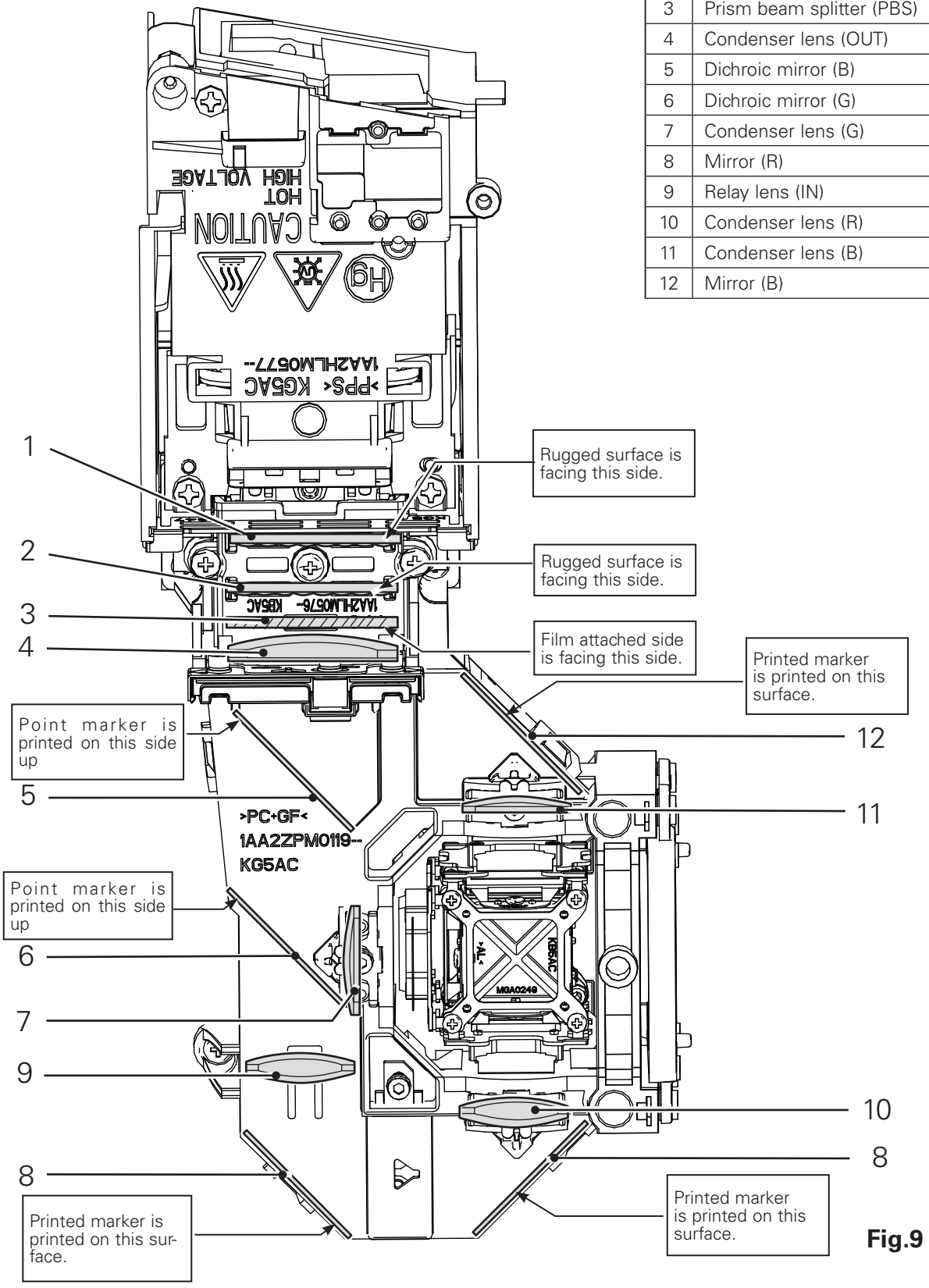


Fig.9

Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced Parts					
		LCD/ Prism Ass'y	Integrator Lens (OUT)	Relay Lens (OUT)	Polarized Glass G	Power Board	Main Board
Optical Adjustments	Contrast Adjustment						
	G-Contrast adjustment	❍			●		
	Integrator lens adjustment	❍	●				
	Relay lens-out adjustment	❍		●			
Electrical Adjustments	Fan control adjustment					●	●
	Reference voltage adjustment						●
	Panel type check and setting	●					●
	Auto calibration adjustment [PC]						●
	Auto calibration adjustment [Component]						●
	Auto calibration adjustment [Video]						●
	Common center adjustment	●					●
	50% white adjustment [PC]	●					●
	White balance adjustment [PC]	❍					❍
	50% white adjustment [Video]	●					●
	White balance adjustment [Video]	❍					❍
	White uniformity adjustment	❍					❍
	Keystone offset 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)** on the polarized glass mounting base which you intend to adjust.
2 Adjust the slot **B** to obtain the darkest brightness on the screen by using a hex screwdriver.
3 Tighten the screw **A** to fix the polarized glass mounting base.

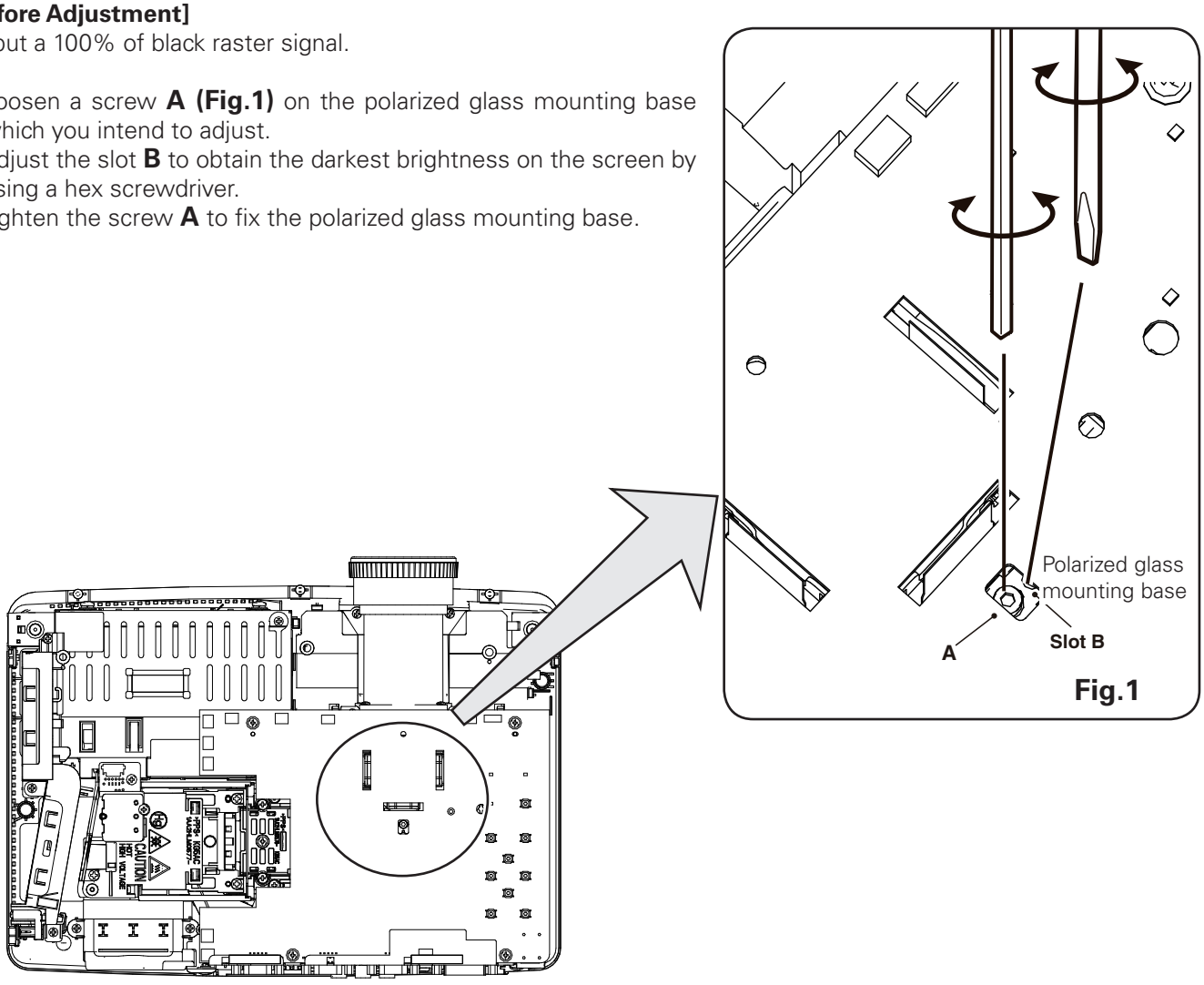
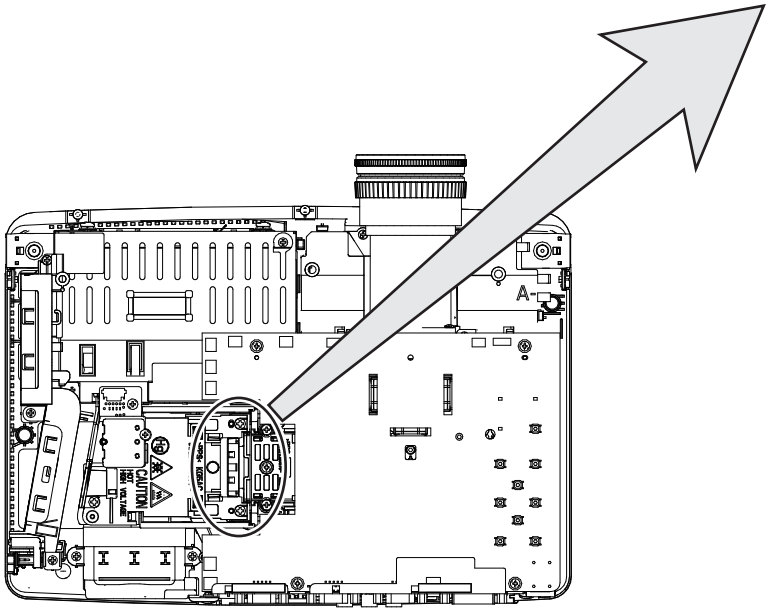


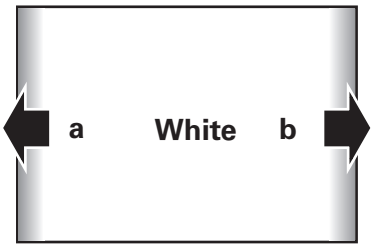
Fig.1

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.





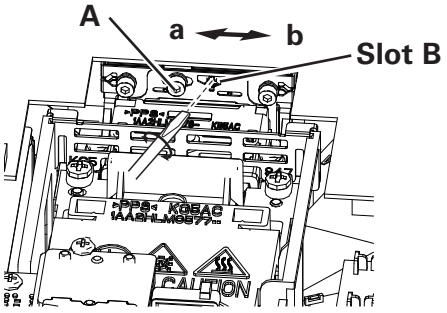
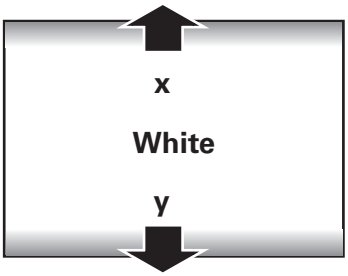


Fig.2-1
Moving of slot B



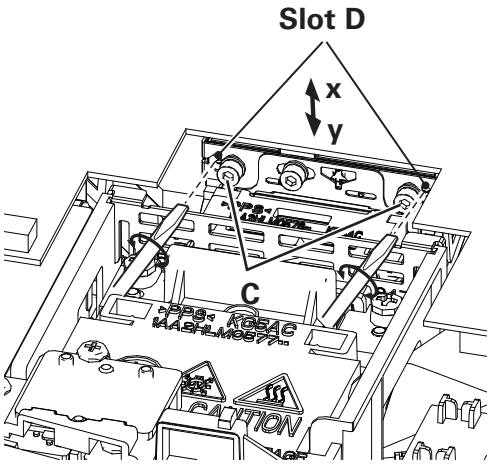


Fig.2-2
Moving of Slot D

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** by using a hex screwdriver, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
4 Tighten the screw **A** to fix the relay lens unit.

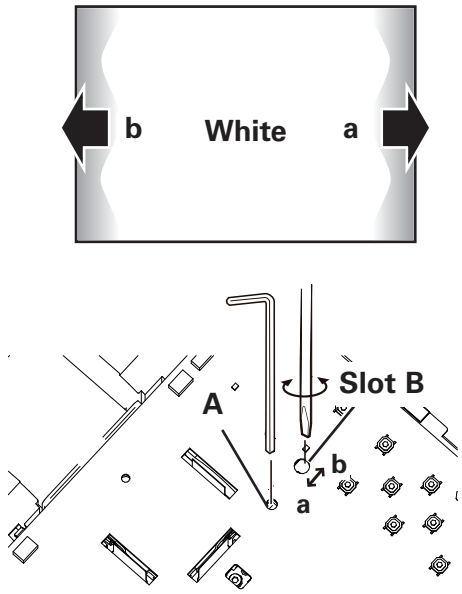
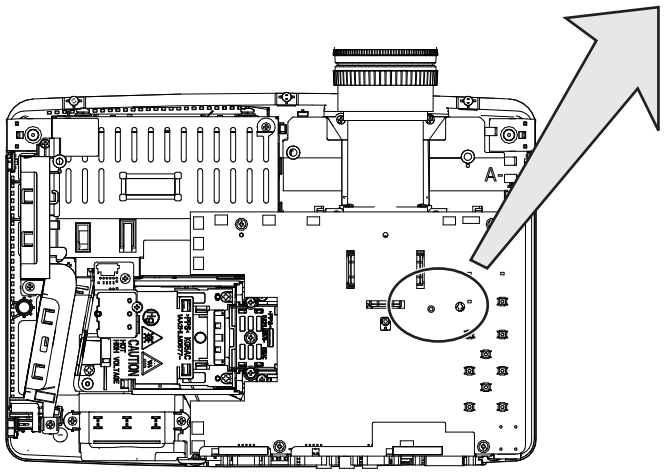


Fig.3
Moving of slot B



Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

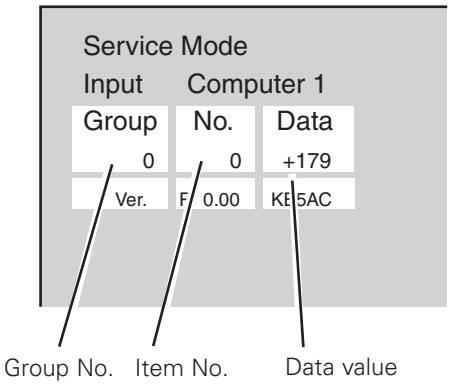
To enter the "Service Mode", press and hold the **MENU** and **SELECT button** for more than 3 seconds. The service menu appears on the screen as follows.

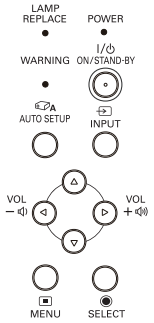
To adjust service data

Select the adjustment group no. by pressing the **MENU button** (increase) or **SELECT button** (decrease), 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 **ON/STAND-BY button**.





Memory IC (IC1391) 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".

● **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. Before adjustment, please turn on the projector more than ten minutes.

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

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

[Adjustment Condition]

- Input signal

Video signal .....1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)

Component Video signal .....1.0Vp-p/75Ω terminated, 8 color 100% color bar or 16 step gray scale (Component video signal)

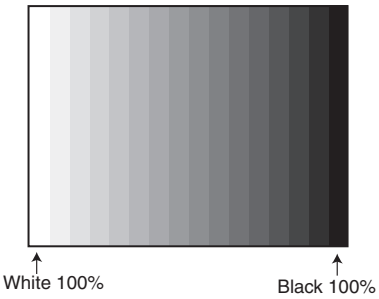
Computer signal.....0.7Vp-p/75Ω terminated, 16 steps gray scale pattern

- Image control mode.....“STANDARD” mode unless otherwise noted.

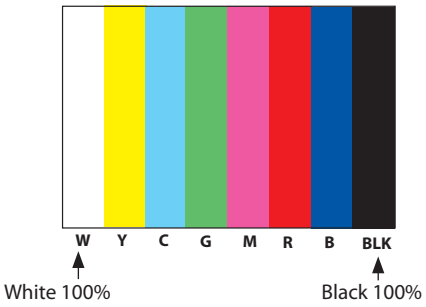
Note:

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

16 steps gray scale pattern



8 color 100% color bar



Output Voltage adjustment

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

1. Connect a digital voltmeter to RED WIRE (+) and BLACK WIRE (-).
2. Adjust the voltage by using VR621 as following.

AC Input	Reading
230V	374V ±1V

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.

2. Fan Control adjustment

1. Enter the service mode.
2. Connect a digital voltmeter to test point "**TPFANA**" (+) and chassis ground (-). Select group no. "**250**", item no. "**0**" and change data value to adjust voltage to be **5.0 ±0.1V**.
3. Connect a digital voltmeter to test point "**TPFANA**" (+) and chassis ground (-). Select item no. "**1**" and change data value to adjust voltage to be **13.5 ±0.1V**.
4. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**2**" and change data value to adjust voltage to be **4.5 ±0.1V**.
5. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**3**" and change data value to adjust voltage to be **13.5 ±0.1V**.
6. Connect a digital voltmeter to test point "**TPFANC**" (+) and chassis ground (-). Select item no. "**4**" and change data value to adjust voltage to be **5.0 ±0.1V**.
7. Connect a digital voltmeter to test point "**TPFANC**" (+) and chassis ground (-). Select item no. "**5**" and change data value to adjust voltage to be **13.5 ±0.1V**.

1. Panel Type Check and Setting

* Before setting, you need to check which type of LCD panel is placed on the projector according to the item "LCD Panel/Prism Ass'y removal" in the chapter "Optical Parts Disassembly".

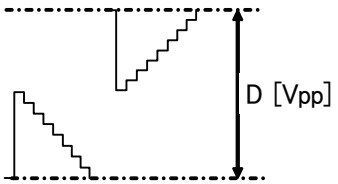
1. Enter the service mode.
2. Panel Type Check
   Select group no. "**290**", item no. "**0**". Check the data value as follows;
   Data value: 0 For L-Type of LCD Panel
   Data value: 20 For R-Type of LCD panel
3. Panel Type Setting
   Select group no. "**290**", item no. "**1**" and change data value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

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.

3 .Reference Voltage Adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer 1 [RGB]** mode.
3. Select group no. "**106**", item no. "**0**" to adjust the voltage of **TP_VMIDG** to be **7.50 ±0.01V**.
4. Select group no. "**106**", item no. "**1**" to adjust the voltage of **TP35R** to make the amplitude "**D[Vpp]**" to be **10.00 ±0.05V**.
5. Select group no. "**106**", item no. "**2**" to adjust the voltage of **TP35G** to make the amplitude "**D[Vpp]**" to be **10.00 ±0.05V**.
6. Select group no. "**106**", item no. "**3**" to adjust the voltage of **TP35B** to make the amplitude "**D[Vpp]**" to be **10.00 ±0.05V**.



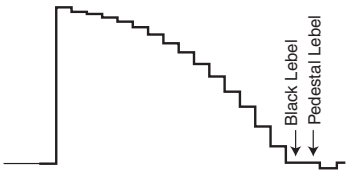
4. Auto Calibration adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. To start the auto-calibration for PC adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

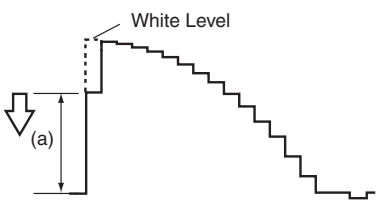
Pedestal adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) 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 "**TP35R**" (+) 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 "**TP35B**" (+) 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.



Gain adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) 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 "**TP35R**" (+) and chassis ground (-).
6. Select group no. "**0**", item no. "**4**" and adjust the amplitude "**a**" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TP35B**" (+) and chassis ground (-).
8. Select group no. "**0**", item no. "**5**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



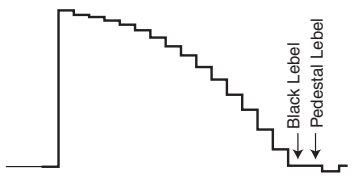
5. Auto Calibration adjustment [Component]

1. Enter the service mode.
2. Receive the 8 color 100% color bar 480i-component signal with **Computer1 [Component]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

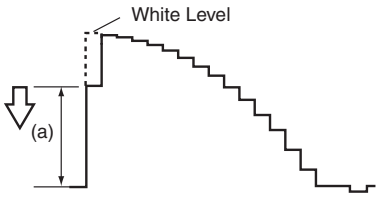
Pedestal adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer1 [Component]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) 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 "**TP35R**" (+) 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 "**TP35B**" (+) 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.



Gain adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component signal with **Computer1 [Component]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**3**" and adjust the amplitude "**a**" to be minimum by changing the Data value.



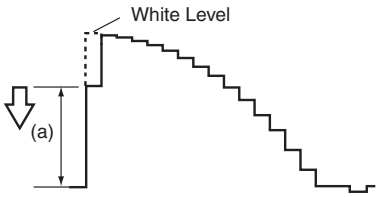
6. Auto Calibration adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

below adjustment is performed when the above auto calibration is failed.

Gain adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**20**", item no. "**0**" and adjust the amplitude "**a**" to be minimum by changing the Data value.

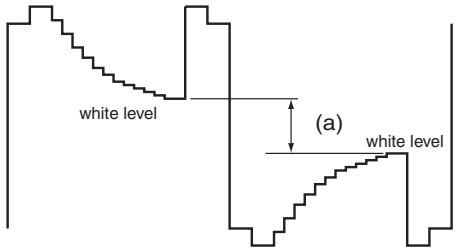


7. Common Center adjustment

1. Enter the service mode.
2. Receive the 50%-Whole Gray computer signal with **Computer1 [RGB]** mode.
3. Select group no." **104**", item no." **76**" and change data value to" **2**" to reduce the panel frequency.
4. Project only green light component to the screen.
5. Select group no." **105**", item no." **10**" 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." **9**" 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." **11**" and change data value to obtain the minimum flicker on the screen.
10. Select group no." **104**", item no." **76**" and change data value to" **0**" to reset the panel frequency.

8. 50% White adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**104**", item no. "**220**" and change data value to adjust amplitude "**a**" to be **1.6 V**.



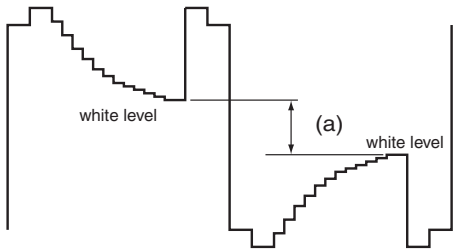
9. White Balance adjustment [PC]

1. Enter the service mode,
2. Select group no. "**252**", item no. "**9**" and change data value to "**2**" to change the Lamp Mode to MAX.
3. Receive the 16-step gray scale computer signal with **Computer1 [RGB]** mode.
4. Select group no. "**104**" item no. "**217**" (Red) or "**223**" (Blue), and change Data values respectively to make a proper white balance.
5. Select group no. "**252**", item no. "**9**" and change data value to "**0**" to reset the Lamp Mode.

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

10. 50% White adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**104**", item no. "**220**" and change data value to adjust amplitude "**a**" to be **1.6V**.



11.White Balance adjustment [Video]

1. Enter the service mode.
2. Select group no. "**252"**, item no. "**9**" and change data value to "**2**" to change the Lamp Mode to MAX.
3. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
4. Select group no. "**104**" item no. "**217**" (Red) or "**223**" (Blue), and change Data values respectively to make a proper white balance.
5. Select group no. "**252**", item no. "**9**" and change data value to "**0**" to reset the Lamp Mode.

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

12.Keystone Offset adjustment

After replacing the G-sensor circuit (IC3850) or Memory IC (IC1391), readjust the Keystone Offset adjustment as follows.

1. Put the projector on a horizontal place with the adjustable feet being minimum range and then enter the service mode.
2. Select group no." **75**", item no." **3**" and set data value from" **0**" to" **5**".
3. By pressing the **SELECT** button, the Keystone Offset adjustment will start.
4. When it has completed, the "OK" message will appear on the screen.
5. By pressing any button on the projector or the remote control, the "OK" message will disappear. (Data value of Group no." **75**", item no." **3**" will be back from" **5**" to" **0**" for initial value.)

Color Shading Correction adjustment

If the correction of the Color shading adjustment is necessary, please adjust the "Color shading" by using the "COLOR SHADING CORRECTION" software supplied separately.

Before Color Shading Correction adjustment, select group no. "**252**", item no. "**9**" and change data value to "**2**" to change the Lamp Mode to MAX.

After Color Shading Correction adjustment, select group no. "**252**", item no. "**9**" and change data value to "**0**" to reset the Lamp Mode.

The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as below.

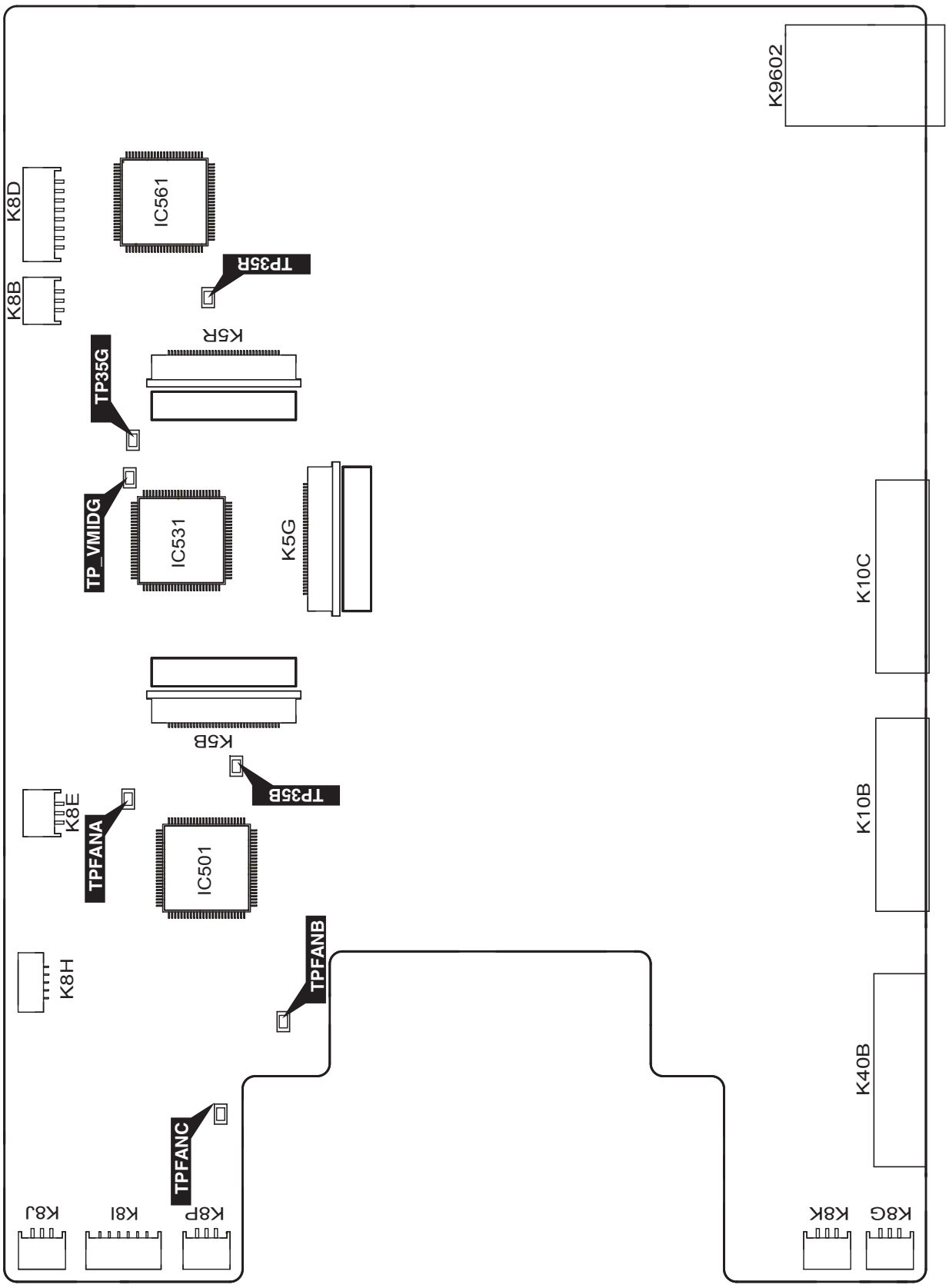
4-input patterns:
6% gray, 12.5% gray, 25% gray, 50% gray

The Color Shading Correction can be ordered with following service code.

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.

Group/ Item	Item Name	Function	Initial	Range	Note
Group 0	**AD Converter (PW392)**				
0	ADC G-OFFSET	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	512/512/512/512/512	0 - 1023	* G-Pedestal Adjustment
1	ADC R-OFFSET	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	512/512/512/512/512	0 - 1023	* R-Pedestal Adjustment
2	ADC B-OFFSET	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	512/512/512/512/512	0 - 1023	* B-Pedestal Adjustment
3	ADC G-GAIN	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	265/200/200/200/200.265	0 - 1023	* G-Gain Adjustmen
4	ADC R-GAIN	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	265/205/205/205/205/265	0 - 1023	* R-Gain Adjustmen
5	ADC B-GAIN	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	255/205/205/205/205/265	0 - 1023	* B-Gain Adjustmen
10	SOGTH	RGB / COMPONENT / SCART	2/4/4	0 - 15	
11	SOGHYSDIS	RGB / COMPONENT / SCART	1/1/0	0 - 1	
12	HS1TH	H Sync1 Threshold RGB / COMPONENT / SCART	*/4/4	0 - 15	
13	HS0TH	H Sync0 Threshold RGB / COMPONENT / SCART	*/4/4	0 - 15	
20	Anti-Alias Filter	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	4	0 –7	
21	Anti-Alias Downsample (Read Only)	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	3	0 -3	
22	Anti-Alias High Frequency (Read Only)	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	3	0-3	
Group 10	**Sync Processor**				
3	ADC G-GAIN	PC/YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50)	235/120/120/120/120	0 - 1023	
4	ADC R-GAIN	PC/YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50)	235/140/140/140/140	0 - 1023	
5	ADC B-GAIN	PC/YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50)	235/140/140/140/140	0-1023	
Group 20	**Video Decoder** *R : Read Only Value				
0	Y Level	Composite / S-Video -Y Level (ADC RGB Gain)	175/175/185/185	0 - 1023	Composite / S-Video * Gain Adjustment [Video]
1	C Level	Composite / S-Video - C Level (ADC Saturation)	457/457/440/440	0 - 1023	Composite / S-Video
10	XCXL Parameter	XCXL Level	2	0 - 3	NTSC/PAL
11	Sync Amp Low	Minimum sync amplitude threshold for HLOCK 1 to 0 transition	0x0700	0 - 3	NTSC/PAL
12	Sync Amp High	Minimum sync amplitude threshold for HLOCK 0 to 1 transition	0x1000	0 - 3	NTSC/PAL
13	Luma Setup Enable	7.5IRE Mode	0	0 - 1	Effective only NTSC Signal
14	Anti-Alias Filter	Anti-Alias Filter	4	0-7	
15	Anti-Alias Downsample	Anti-Alias Downsample	0	0-3	
16	Anti-Alias High Frequency	Anti-Alias High Frequency	3	0-3	
17	CSC Adjust	Composite / S-Video - CSC Adjust	0x400/0x400	0x300-0x500	
20	Comb 3D Cross-Luma Top/ Bottom Amplitude	for PAL/SECAM only	3	0-3	

Group/ Item	Item Name	Function	Initial	Range	Note
Group 35	**DVI Equalizer(DS16E5110)**				
0	CH0 Boost Data	DVI Equalizer CHO Boost Value	-	0 - 7	
1	CH1 Boost Data	DVI Equalizer CH1 Boost Value	-	0 - 7	
2	CH2 Boost Data	DVI Equalizer CH2 Boost Value	-	0 - 7	
Group 40	**General**				
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode	bit0 : Global Motion bit1 : Video Motion	1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down	0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	NR Enable for Digital YUV	0: Detect Y or UV, Noise Reduction 1: Detect Y, YUV for Noise Reduction	1	0 - 1	
4	NR Enable for Digital YUV	Analog YUV : PC/Video/S-Video/ Component Digital YUV : HDMI <NSYUVEN>	0	0 - 1	
Group 41	**Deinterlacer setting** Effective only for Progressive Mode 1, Film mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30/30/30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4/4/4	0 - 5	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0/0/0	0 -255	
Group 42	**Deinterlacer setting** Effective only for Progressive Mode2 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	0/0/0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	2/2/2	0 - 5	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0/0/0	0 - 255	
Group 47	**Noise Reduction (Time)** Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 49	**Noise Reduction (Time)** Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	**2:2pull down setting**				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 1023	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 1023	
3	Video Motion Window Start X	<VOFSTARX>	10	0 - 255	
4	Video Motion Window Start X	<VOFSTARX>	10	0 - 255	
5	Video Motion Window Start Y	<VOFSTARY>	10	0 - 255	
6	Video Motion Window Start Y	<VOFSTARY>	10	0 - 255	
Group 51	**2:3pull down setting**				

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	4	1 - 5	
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 1023	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 1023	
4	Global Motion Threshold	<GMDTHRD>	100	0 - 1023	
5	23Film Mode Threshold	<FILMTHRD23>	10	0 - 1023	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 255	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 255	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 255	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 255	Range of detective for Film mode
Group 55	**LTI /CTI**				
0	Video Enhancement Enable	VEHEN	1	0 - 1	
1	DLTI Gain	DLTIGAIN	3	0 - 15	
2	DLTI Frequency	DLTIFREQ	2	0 - 3	
3	Bypass Anti-Alias Filter	DTIBYPASSAAL	0	0 - 1	
4	Lower DCTI Frequency	LOWERDCTIFREQ	1	0 - 1	
5	DCTI Gain	DCTIGAIN	4	0 - 15	
6	DCTI Frequency	DCTIFREQ	0	0 - 3	
7	Color Shift Limit	COLORSHIFTLMT	3	0 - 3	
Group 60	**Image**				
0	Center Contrast		560/534/580/492/492/534	0 - 1023	Composite / S-Video / Component / Digital /D-RGB-Video /AnalogRGB / RGB-Video / HDCP-PC /HDCP-AV /SCART / PJ-Net Setting Value= (MENU Value - MENU Center Value) x Alpha / 10 + Center For moels without FPGA: Sharpness setting Value= Center-(Menu Value-MENU Center Value)xAlpha/10 [Setting Value to PW] Contrast [Max] 1023 [Min] 0 Brightness [Max] 1023 [Min] 0 Color [Max] 1023 [Min] 0 Tint [Max] 180 [Min] 0 Sharpness [Max] 57 [Min] 0
1	Center Brightness		512/512/512/512/512/496	0 - 1023	
2	Center Color		580/560/512/512/560/512	0 - 1023	
3	Center Tint		90/90/90/90/90/90	0-180	
4	Fixed Sharpness (Up Scaling)		8/8/8/8/8/8	0 - 37	
5	Fixed Sharpness (Down Scaling)		8/8/8/8/8/8	0 - 37	
6	Center Sharpness(Models without FPGA)		8/8/10/16/10/16/	0 - 37	
7	Center WB Red		512/512/512/512/512/512	0 - 1023	
8	Center WB Green		512/512/512/512/512/512	0 - 1023	
9	Center WB Blue		512/5/12/512/512/512/512	0 - 1023	
10	Center BB Red		512/512/512/512/512/512	0 - 1023	
11	Center BB Green		512/512/512/512/512/512	0 - 1023	
12	Center BB Blue		512/512/512/512/512/512	0 - 1023	
13	Alpha Contrast		60/60/60/60/60/60	0-1000	
14	Alpha Brightness		90/90/90/90/90/90	0-1000	
15	Alpha Color		140/140/140/140/140/140	0-1000	
16	Alpha Tint		10/10/10/10/10/10	0-1000	
17	Alpha Sharpness		10/10/10/10/10/10	0-1000	
18	Alpha WB Red		40/40/40/40/40/40	0- 1000	
19	Alpha WB Green		40/40/40/40/40/40	0- 1000	
20	Alpha WB Blue		40/40/40/40/40/40	0-1000	
21	Alpha BB Red		20/20/20/20/20/20	0-1000	
22	Alpha BB Green		20/20/20/20/20/20	0-1000	
23	Alpha BB Blue		20/20/20/20/20/20	0-1000	
Group75 : Auto Keystone Setup Value					
0	OFFSET		0	-1056 - 1056	
1	OFFSET SWITCH		0	0 - 1	
2	DEBUG MODE		0	0 - 1	
3	SERVICE CALIBRATION		0	0 - 1	
2	DEBUG MODE		0	0 - 1	
3	SERVICE CALIBRATION		0	0 - 1	
4	LOCK COUNT		5	1 - 255	
5	DELT VERT RESULT		64	1 - 255	
6	ANGLE 1 COUNT		1	1 - 10	
7	ANGLE 2 COUNT		5	1 - 10	
8	BLIND SECTOR 1		160	0 - 1024	
9	BLIND SECTOR 3		32	0 - 1024	
10	BLIND SECTOR BIAS		61	0 - 1024	
Group104 : Panel (EP7111) Services					

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
0	FRP_SET		84	0-4095	
1	DXOut_R		270	0 - 1023	
2	DXOut_G		270	0 - 1023	
3	DXOut_B		270	0-1023	
4	H_Change_Pos		21	0-256	
5	SH_Pos		273	0-4095	
6	SH_Pos_R		1	0-12	
7	SH_Pos_G		1	1 - 12	
8	SH_Pos_B		1	0 - 12	
9	NGR_Pos		44	0 - 127	
10	NGR_Width		49	0 - 255	
11	FRP_Pos		26	0 - 3	
12	SWAP_InOut		1344	0 - 2047	
13	OSD_Pos		2	0 - 3	
14	OSD_Ptn		0	0 - 9	
15	GammaCtrl		3	0 - 1023	
16	GammaCtrl_Ena		1	0 - 1	1: Enable, 0: Disable
17	GammaCtrl_PreEnable		0	0 - 1	1: Enable, 0: Disable
18	REF_GatePos		12	0 - 1023	
19	REF_GateDur		184	0 - 1023	
20	BasePos_R		8	0 -11	
21	BasePos_G		8	0 - 11	
22	BasePos_B		8	0 - 11	
23	RGB_sIDEmODE		0	0 -7	
24	LineCont		0	0 -4095	
25	GhostPos_R		8	0 - 23	
26	GhostPos_G		8	0 - 23	
27	GhostPos_B		8	0 - 23	
28	GHOSTCoef_R_C		0	0-2047	MIN<-->MAX cyclation
29	GHOSTCoef_R_S		128	0-255	
30	GHOSTCoef_R_E		128	0-255	
31	GHSTCoef_G_C		0	0-2047	MIN<-->MAX cyclation
32	GHSTCoef_G_S		128	0-255	
33	GHSTCoef_G_E		128	0-255	
34	GHSTCoef_B_C		0	0-2047	MIN<-->MAX cyclation
35	GHSTCoef_B_S		128	0-255	
36	GHSTCoef_B_E		128	0-255	
37	GHSTCoef_1R		0	0-2047	MIN<-->MAX cyclation
38	GHSTCoef_1G		0	0-2047	MIN<-->MAX cyclation
39	GHSTCoef_1B		0	0-2047	MIN<-->MAX cyclation
40	GHSTCoef_2R		0	0-2047	MIN<-->MAX cyclation
41	GHSTCoef_2G		0	0-2047	MIN<-->MAX cyclation
42	GHSTCoef_2B		0	0-2047	MIN<-->MAX cyclation
43	BlkGHSTCoef_R		0	0-2047	MIN<-->MAX cyclation
44	BlkGHSTCoef_G		0	0-2047	MIN<-->MAX cyclation
45	BlkGHSTCoef_B		0	0-2047	MIN<-->MAX cyclation
46	CRSTLKCoef_R_C		0	0-2047	MIN<-->MAX cyclation
47	CRSTLKCoef_R_S		128	0-255	
48	CRSTLKCoef_R_E		128	0-255	
49	CRSTLKCoef_G_C		0	0-2047	MIN<-->MAX cyclation
50	CRSTLKCoef_G_S		128	0-255	
51	CRSTLKCoef_G_E		128	0-255	
52	CRSTLKCoef_B_C		0	0-2047	MIN<-->MAX cyclation
53	CRSTLKCoef_B_S		128	0-255	
54	CRSTLKCoef_B_E		128	0-255	
55	ColshdCtrl		16	0-511	
56	ColshdCtrl_Ena		1	0-1	1: Enable, 0: Disable
57	ColshdCtrl_PreEna		0	0-1	1: Enable, 0: Disable
58	Colshd_RLMin		290	0-1023	
59	Colshd_RLMid2		404	0-1023	
60	Colshd_RLMid1		574	0-1023	
61	Colshd_RLMax		622	0-1023	
62	Colshd_GLMin		290	0-1023	
63	Colshd_GLMid2		404	0-1023	
64	Colshd_GLMid1		574	0-1023	
65	Colshd_GLMax		622	0-1023	
66	Colshd_BLMin		290	0-1023	
67	Colshd_BLMid2		404	0-1023	
68	Colshd_BLMid1		574	0-1023	
69	Colshd_BLMax		622	0-1023	

Group/ Item	Item Name	Function	Initial	Range	Note
70	Colshd_Pre_Tbl		0	0-255	
71	EnaHSync		1	0-1	
72	OutPPos_H		122	0-2047	
73	Pixel_CONT_Out		2048	0-4095	
74	H_Sync		0	0-2047	
75	V_Sync		0	0-255	
76	FlickerMode		0	0-3	
77	EnaVSync		0	0-1	
78	EnbyPosUp1		40	0-255	
79	EnbyPosDwn1		826	0-1023	
80	EnbyPosUp2		42	0-255	
81	EnbyPosDwn2		826	0-1023	
82	FrmIRRMode		0	0-3	
83	CRCTCoef_R_C		0	0-2047	
84	CRCTCoef_R_S		128	0-255	
85	CRCTCoef_R_E		128	0-255	
86	CRCTCoef_G_C		0	0-2047	
87	CRCTCoef_G_S		128	0-255	
88	CRCTCoef_G_E		128	0-255	
89	CRCTCoef_B_C		0	0-2047	
90	CRCTCoef_B_S		128	0-255	
91	CRCTCoef_B_E		128	0-255	
92	CRSTLK_COEF2_R_C		0	0-2047	
93	CRSTLK_COEF2_R_S		128	0-255	
94	CRSTLK_COEF2_R_E		128	0-255	
95	CRSTLK_COEF2_G_C		0	0-2047	
96	CRSTLK_COEF2_G_S		128	0-255	
97	CRSTLK_COEF2_G_E		128	0-255	
98	CRSTLK_COEF2_B_C		0	0-2047	
99	CRSTLK_COEF2_B_S		128	0-255	
100	CRSTLK_COEF2_B_E		128	0-255	
101	OutputLimitMax_R		3359	0-4095	STANDARD
			4092	0-4095	DYNAMIC
			3359	0-4095	REAL
			3359	0-4095	BLACKBOARD
			3359	0-4095	COLORBOARD
102	OutputLimitMax_G		3359	0-4095	STANDARD
			4092	0-4095	DYNAMIC
			3359	0-4095	REAL
			3359	0-4095	BLACKBOARD
			3359	0-4095	COLORBOARD
103	OutputLimitMax_B		3359	0-4095	STANDARD
			4092	0-4095	DYNAMIC
			3359	0-4095	REAL
			3359	0-4095	BLACKBOARD
			3359	0-4095	COLORBOARD
104	VideoRRefCont_H		3359	0-4095	
105	VideoRRefCont_L		4078	0-4095	
106	DCOffset_MNS_R		400	0-1023	
107	DCOffset_MNS_R_01		0	0-2047	
108	DCOffset_MNS_R_02		0	2047	
109	DCOffset_MNS_R_03		0	0-2047	
110	DCOffset_MNS_R_04		0	0-2047	
111	DCOffset_MNS_R_05		0	0-2047	
112	DCOffset_MNS_R_06		0	0-2047	
113	DCOffset_MNS_R_07		0	0-2047	
114	DCOffset_MNS_R_08		0	0-2047	
115	DCOffset_MNS_R_09		0	0-2047	
116	DCOffset_MNS_R_10		0	0-2047	
117	DCOffset_MNS_R_11		0	0-2047	
118	DCOffset_MNS_R_12		0	0-2047	
119	DCOffset_PLS_R		0	0-1023	MIN<–>MAX cyclation
120	DCOffset_PLS_R_01		0	0-2047	MIN<–>MAX cyclation
121	DCOffset_PLS_R_02		0	0-2047	MIN<–>MAX cyclation
122	DCOffset_PLS_R_03		0	0-2047	MIN<–>MAX cyclation
123	DCOffset_PLS_R_04		0	0-2047	MIN<–>MAX cyclation
124	DCOffset_PLS_R_05		0	0-2047	MIN<–>MAX cyclation
125	DCOffset_PLS_R_06		0	0-2047	MIN<–>MAX cyclation
126	DCOffset_PLS_R_07		0	0-2047	MIN<–>MAX cyclation
127	DCOffset_PLS_R_08		0	0-2047	MIN<–>MAX cyclation

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
128	DCOffset_PLS_R_09		0	0-2047	MIN<-->MAX cyclation
129	DCOffset_PLS_R_10		0	0-2047	MIN<-->MAX cyclation
130	DCOffset_PLS_R_11		0	0-2047	MIN<-->MAX cyclation
131	DCOffset_PLS_R_12		0	0-2047	MIN<-->MAX cyclation
132	Lvl9Mode_R_0000		18	0-1023	MIN<-->MAX cyclation
133	Lvl9Mode_R_0512		10	0-1023	MIN<-->MAX cyclation
134	Lvl9Mode_R_1024		11	0-1023	MIN<-->MAX cyclation
135	Lvl9Mode_R_1536		4	0-1023	MIN<-->MAX cyclation
136	Lvl9Mode_R_2048		0	0-1023	MIN<-->MAX cyclation
137	Lvl9Mode_R_2560		1021	0-1023	MIN<-->MAX cyclation
138	Lvl9Mode_R_3072		0	0-1023	MIN<-->MAX cyclation
139	Lvl9Mode_R_3584		0	0-1023	MIN<-->MAX cyclation
140	Lvl9Mode_R_4096		0	0-1023	MIN<-->MAX cyclation
141	VideoGRefCont_H		4078	0-4095	
142	VideoGRefCont_L		400	0-4095	
143	DCOffset_MNS_G		0	0-1023	
144	DCOffset_MNS_G_01		0	0-2047	MIN<-->MAX cyclation
145	DCOffset_MNS_G_02		0	0-2047	MIN<-->MAX cyclation
146	DCOffset_MNS_G_03		0	0-2047	MIN<-->MAX cyclation
147	DCOffset_MNS_G_04		0	0-2047	MIN<-->MAX cyclation
148	DCOffset_MNS_G_05		0	0-2047	MIN<-->MAX cyclation
149	DCOffset_MNS_G_06		0	0-2047	MIN<-->MAX cyclation
150	DCOffset_MNS_G_07		0	0-2047	MIN<-->MAX cyclation
151	DCOffset_MNS_G_08		0	0-2047	MIN<-->MAX cyclation
152	DCOffset_MNS_G_09		0	0-2047	MIN<-->MAX cyclation
153	DCOffset_MNS_G_10		0	0-2047	MIN<-->MAX cyclation
154	DCOffset_MNS_G_11		0	0-2047	MIN<-->MAX cyclation
155	DCOffset_MNS_G_12		0	0-2047	MIN<-->MAX cyclation
156	DCOffset_PLS_G		0	0-1023	MIN<-->MAX cyclation
157	DCOffset_PLS_G_01		0	0-2047	MIN<-->MAX cyclation
158	DCOffset_PLS_G_02		0	0-2047	MIN<-->MAX cyclation
159	DCOffset_PLS_G_03		0	0-2047	MIN<-->MAX cyclation
160	DCOffset_PLS_G_04		0	0-2047	MIN<-->MAX cyclation
161	DCOffset_PLS_G_05		0	0-2047	MIN<-->MAX cyclation
162	DCOffset_PLS_G_06		0	0-2047	MIN<-->MAX cyclation
163	DCOffset_PLS_G_07		0	0-2047	MIN<-->MAX cyclation
164	DCOffset_PLS_G_08		0	0-2047	MIN<-->MAX cyclation
165	DCOffset_PLS_G_09		0	0-2047	MIN<-->MAX cyclation
166	DCOffset_PLS_G_10		0	0-2047	MIN<-->MAX cyclation
167	DCOffset_PLS_G_11		0	0-2047	MIN<-->MAX cyclation
168	DCOffset_PLS_G_12		0	0-2047	MIN<-->MAX cyclation
169	Lvl9Mode_G_0000		18	0-1023	MIN<-->MAX cyclation
170	Lvl9Mode_G_0512		10	0-1023	MIN<-->MAX cyclation
171	Lvl9Mode_G_1024		11	0-1023	MIN<-->MAX cyclation
172	Lvl9Mode_G_1536		4	0-1023	MIN<-->MAX cyclation
173	Lvl9Mode_G_2048		0	0-1023	MIN<-->MAX cyclation
174	Lvl9Mode_G_2560		10211	0-1023	MIN<-->MAX cyclation
175	Lvl9Mode_G_3072		0	0-1023	MIN<-->MAX cyclation
176	Lvl9Mode_G_3584		0	0-1023	MIN<-->MAX cyclation
177	Lvl9Mode_G_4096		0	0-1023	MIN<-->MAX cyclation
178	VideoBRefCont_H		4078	0-4095	
179	VideoBRefCont_L		400	0-4095	
180	DCOffset_MNS_B		0	0-1023	MIN<-->MAX cyclation
181	DCOffset_MNS_B_01		0	0-2047	MIN<-->MAX cyclation
182	DCOffset_MNS_B_02		0	0-2047	MIN<-->MAX cyclation
183	DCOffset_MNS_B_03		0	0-2047	MIN<-->MAX cyclation
184	DCOffset_MNS_B_04		0	0-2047	MIN<-->MAX cyclation
185	DCOffset_MNS_B_05		0	0-2047	MIN<-->MAX cyclation
186	DCOffset_MNS_B_06		0	0-2047	MIN<-->MAX cyclation
187	DCOffset_MNS_B_07		0	0-2047	MIN<-->MAX cyclation
188	DCOffset_MNS_B_08		0	0-2047	MIN<-->MAX cyclation
189	DCOffset_MNS_B_09		0	0-2047	MIN<-->MAX cyclation
190	DCOffset_MNS_B_10		0	0-2047	MIN<-->MAX cyclation
191	DCOffset_MNS_B_11		0	0-2047	MIN<-->MAX cyclation
192	DCOffset_MNS_B_12		0	0-2047	MIN<-->MAX cyclation
193	DCOffset_PLS_B		0	0-1023	MIN<-->MAX cyclation
194	DCOffset_PLS_B_01		0	0-2047	MIN<-->MAX cyclation
195	DCOffset_PLS_B_02		0	0-2047	MIN<-->MAX cyclation
196	DCOffset_PLS_B_03		0	0-2047	MIN<-->MAX cyclation
197	DCOffset_PLS_B_04		0	0-2047	MIN<-->MAX cyclation

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
198	DCOffset_PLS_B_05		0	0-2047	MIN<–>MAX cyclation
199	DCOffset_PLS_B_06		0	0-2047	MIN<–>MAX cyclation
200	DCOffset_PLS_B_07		0	0-2047	MIN<–>MAX cyclation
201	DCOffset_PLS_B_08		0	0-2047	MIN<–>MAX cyclation
202	DCOffset_PLS_B_09		0	0-2047	MIN<–>MAX cyclation
203	DCOffset_PLS_B_10		0	0-2047	MIN<–>MAX cyclation
204	DCOffset_PLS_B_11		0	0-2047	MIN<–>MAX cyclation
205	DCOffset_PLS_B_12		0	0-2047	MIN<–>MAX cyclation
206	Lvl9Mode_B_0000		18	0-2047	MIN<–>MAX cyclation
207	Lvl9Mode_B_0512		10	0-1023	MIN<–>MAX cyclation
208	Lvl9Mode_B_1024		11	0-1023	MIN<–>MAX cyclation
209	Lvl9Mode_B_1536		4	0-1023	MIN<–>MAX cyclation
210	Lvl9Mode_B_2048		0	0-1023	MIN<–>MAX cyclation
211	Lvl9Mode_B_2560		1021	0-1023	MIN<–>MAX cyclation
212	Lvl9Mode_B_3072		0	0-1023	MIN<–>MAX cyclation
213	Lvl9Mode_B_3584		0	0-1023	MIN<–>MAX cyclation
214	Lvl9Mode_B_4096		0	0-1023	MIN<–>MAX cyclation
215	VideoCont_R		2048	0-4095	Standard
			2068	0-4095	Dynamic
			1940	0-4095	Real
			1960	0-4095	BlackBoard
			1794	0-4095	R_Board
			1998	0-4095	B_Board
			1883	0-4095	Y_Board
			2100	0-4095	G_Board
216	VideoBright_R		0	0-4095	Standard
			0	0-4095	Dynamic
			0	0-4095	Real
			32	0-4095	BlackBoard
			32	0-4095	R_Board
			27	0-4095	B_Board
			10	0-4095	Y_Board
			56	0-4095	G_Board
217	VideoGammaShift_R		2048	0-2048	PC
			2048	0-2048	AV
218	VideoCont_G		2048	0-4095	Standard
			2068	0-4095	Dynamic
			1940	0-4095	Real
			1960	0-4095	BlackBoard
			1668	0-4095	R_Board
			1722	0-4095	B_Board
			1759	0-4095	Y_Board
			1719	0-4095	G_Board
219	VideoBright_G		0	0-4095	Standard
			0	0-4095	Dynamic
			32	0-4095	Real
			32	0-4095	BlackBoard
			19	0-4095	R_Board
			14	0-4095	B_Board
			10	0-4095	Y_Board
			19	0-4095	G_Board
220	VideoGammaShift_G		2048	0-2048	PC
			2048	0-2048	AV
221	VideoCont_B		2048	0-4095	Standard
			2068	0-4095	Dynamic
			1940	0-4095	Real
			1960	0-4095	BlackBoard
			2069	0-4095	R_Board
			1900	0-4095	B_Board
			2200	0-4095	Y_Board
			2100	0-4095	G_Board
222	VideoBright_B		0	0-4095	Standard
			0	0-4095	Dynamic
			32	0-4095	Real
			32	0-4095	BlackBoard
			22	0-4095	R_Board
			12	0-4095	B_Board
			60	0-4095	Y_Board
			22	0-4095	G_Board
223	VideoGammaShift_B		2048	0-2048	PC

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
			2048	0-2048	AV
Group 105	**Panel Services(6170)**				
0	201_R		4	0-31	
1	601_G		4	0-31	
2	A01_B		4	0-31	
3	202_R		44	28-64	
4	602_G		44	28-64	
5	A02_B		44	28-64	
6	205_R		26	0-31	
7	605_G		26	0-31	
8	A05_B		26	0-31	
9	300_R		191	0-255	
10	700_G		193	0-255	
11	B00_B		196	0-255	
Group 106	**Panel Service(62334)**				
0	VMID		100	0-255	
1	VREF_R		138	0-255	
2	VREF_G		141	0-255	
3	VREF_B		138	0-255	
Group 200	**Option**				
0	Logo Prohibition (Forced No Brand)	Logo Prohibition (0: Menu, 1: Forced, 2: China, 3-9: not used)	0	0 - 2	Effective after AC On
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps
4	CABLE SW	Long Cable	0	0 - 10	0: Disable, 1: Enable
5	PW Debug Command Enable		0	0 - 1	0:Disable (Serial Command Eanble) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
30	Lamp life test enable		0	0-1	0:Disable 1:Enable, for safety test only
31	Lmap On time(for life test)	For test purpose	2	1-720	
32	Lamp Off time(for life test)	For test purpose	2	1-720	
33	Lamp total time(for life test)	For test purpose	0	0-32767	
50	Lamp Replacement Display	Lamp Warning Display On / Off	1	0 - 1	1: On, 0: Off
51	Filter Warning Display	Filter Warning Display On / Off	1	0 - 1	1: On, 0: Off
52	Lamp Counter reset Times	Reset Times of Lamp Counter	0	0 - 255	Read only
54	Factory Default Execute Times	Reset times of Fanctory Default	0	0 - 255	Read only
55	Motor Disable	Motors Disable	0	0 - 1	0: On, 1: Off
56	Menu Position	Move menu (X asis)	0	0 - 1024	
57	Menu Position	Move menu (Y asis)	0	0 - 1024	
58	Lamp Go Out		n/a	0 - 1	
63	Souce Search Enable	Source Search Enable	1	0 -1	0: Disable 1:Enable
71	Component ADC Device Select	0: ISK51002, 1:PW392 AFE	0	0 - 1	
80	Determination Setting	0: English 1: Japanese	0	0 - 1	
90	Panel Life Mode	0 : On 1: Off	1	0 - 1	
100	Disable Auto Picture Control	0: Normal operation 1:Auto Picture Control	-	0 - 1	
Group 201	**Option (signal)**				
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) - Panel frequency of input signal

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
1	VSBEG	VSBEG Setting	1	0 - 1	
Group 202	**Option (MCI model only)**				
0	Memory Viewer OSD	Memory Viewer OSD Display (1: Yes, 0: No)	1	0 - 1	
1	Wireless Simple mode Channel No.	Channel No.selecting in Wireless Simple mode.	11	0 - 11	
10	WPS mode select	0: Disable 1:WPS Push Button 2: WPS PIN Code select	0	0 - 2	
11	WPS Push Button/WPS PIN code auto setting		0	0 - 1	
12	WPS Push Button/WPS PIN code status	0: default and G202-10 disable 5:busy status,"please wait" in OSD 10: WPS Push Button OK 11:WPS Push Button NG 20:WPS PIN code OK 21: WPS PIN code NG	0	0 - 21	
13	WPS PIN code		0	0 - 1	
14	WPS PIN code (first 4 bits)		0	0 - 9999	
15	WPS PIN code (last 4 bits)		0	0 - 9999	
Group 204	**Simulation mode**				
0	PW392C Enable		0	0 -1	
1	PW610 Enable		-	0 - 1	
Group 205	**Spread Spectrum**				
0	Enable	0: Disable 1: Enable	1	0 -1	
1	Spead factor	Default: 100	100	0 - 300	
2	Wave period	Default: 300	80	1 - 500	
Group 210	**LampContorl**				
0	Dimmer SW	0: Auto 1: Manual	0	0 - 1	
1	Manual Control	Lampo manual control 0(Dim)-15(Bright)	0	0 -15	
2	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value	7	0 - 255	
3	DIMMER_CTRL_LEVEL2	Luminance Level 2 Data for Dimmer: Dim Level 2 at the less than the Value	14	0 - 255	
4	DIMMER_CTRL_LEVEL3	Luminance Level 3 Data for Dimmer: Dim Level 3 at the less than the Value	21	0 - 255	
5	DIMMER_CTRL_LEVEL4	Luminance Level 4 Data for Dimmer: Dim Level 4 at the less than the Value	28	0 - 255	
6	DIMMER_CTRL_LEVEL5	Luminance Level 5 Data for Dimmer: Dim Level 5 at the less than the Value	35	0 - 255	
7	DIMMER_CTRL_LEVEL6	Luminance Level 6 Data for Dimmer: Dim Level 6 at the less than the Value	42	0 - 255	
8	DIMMER_CTRL_LEVEL7	Luminance Level 7 Data for Dimmer: Dim Level 7 at the less than the Value	49	0 - 255	
9	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value	56	0 - 255	
10	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value	63	0 - 255	
11	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value	70	0 - 255	
12	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value	77	0 - 255	
13	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value	84	0 - 255	
14	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value	91	0 - 255	
15	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value	98	0 - 255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
16	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value	105	0 - 255	
17	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer	4	0 - 16	
18	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer	-	-	* Read only
19	DIMMER_LEVEL_AUTO	Current Dimmer Leverl	-	-	* Read only
20	DIMMER_LEVEL_NORMAL	Normal Dimmer Level	8	0 - 15	
21	DIMMER_LEVEL_ECO	Eco Dimmer Level	0	0 - 15	
22	Lamp check enable		1		0: Lamp Failure Detection OFF (White 50% Back), 1 : ON (Blue 100% Back)
23	VOLTAGE_LEVEL	Lamp Voltage	-		Unit: 8bit(Raw Data) * Read only
24	DIMMER_LEVEL_HIGH	Dimmer level High	15	0 - 15	
Group 220	**Projector Warning Log**				
0	Warning Log_1		-	0-32767	
..	..		-	..	
49	Warning Log_50		-	0-32767	
50	Warning Log Reset		-	0-10	
Group 250	**FAN Control**				
0	FAN1 MIN ADJUST (DAC)	DAC Output for Fan Adjust the tolerance of DAC and Fan Volage. * Lamp mode is forced Eco	17	0 - 255	
1	FAN1 MAX ADJUST (DAC)		227	0 - 255	
2	FAN2 MIN ADJUST (DAC)		7	0 - 255	
3	FAN2 MAX ADJUST (DAC)		236	0 - 255	
4	FAN3 MIN ADJUST (DAC)		17	0 - 255	
5	FAN3 MAX ADJUST (DAC)		227	0 - 255	
Group 251	**Filter detection setting**				
0	Filter Warning Calibration		0	0-1	
1	Filter Warning Offset Optio-0		1731	0000-9999	
2	Filter Warning Offset Optio-1		2686	0000-9999	
3	Filter Warning Offset Optio-2		3456	0000-9999	
4	Filter Warning Offset Optio-3		4139	0000-9999	
5	Filter Warning Offset Optio-4		4728	0000-9999	
6	Filter Warning Offset Optio-5		5221	0000-9999	
7	Filter Warning Offset Optio-6		5607	0000-9999	
8	Filter Warning Offset Optio-7		5899	0000-9999	
9	Not Used				
10	Not Used				
11	Not Used				
12	Not Used				
13	Filter Warning Times		3	0-10	
14	Fan-Add Filter Level 1		1000	0000-9999	
15	Fan-Add Filer Level 2		2000	0000-9999	
16	Filter Warning Calibration Range		1	0-10	
17	Filter Warning Calibration Time		2	0-10	
18	Filter Warning Calibration Error Log		255	0-255	
19	Filter Warning High Land Calibration Error Log		255	0-255	
20	Fliter Warning Calibration Temp		260	-	
21	Filter Warning Inclination Rpm (to 26˚C)		60	0000-9999	
22	Filter Warning Inclination Rpm (over 26˚C)		80	0000-9999	
23	Filter Warning Add Offset Rpm		-	-	
Group 252	**Fan Option**				
0	Fan Max SWITCH	0: Normal, 1: Max (13.5V)	0	0 - 1	
1	SAFETY SWITCH	For test purpose	0	0 - 6	
2	FAN MANUAL SWITCH	0: Auto, 1: Manual	0	0 - 1	
3	FAN1 MANUAL VOLTAGE	Fan Voltage (unit : 0.1V) Effective only when Fan Maual switch is 1	100	0 - 145	
4	FAN2 MANUAL VOLTAGE		100	0 - 145	
5	FAN3 MANUAL VOLTAGE		100	0 - 145	
6	FAN4 MANUAL VOLTAGE		100	0-255	
7	FAN5 MANUAL VOLTAGE		100	0-255	
8	FAN6-8 MANUAL DUTY		-	0-511	
9	All Fan MaxMin Control	0 : Normal 1 : Lamp Max / Fan Min 2 : Lamp Max / Fan Max 3 : Lamp Min / Fan Min 4 : Lamp Min / Fan Max	0	0 - 4	
10	Press Data				
Group 253	**Fan Tem Error Setting (Memorized)**		Normal	Ceiling	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial		Range	Note
0	Temp A Warning (High)	Temp. A to judge the Temp Error at High (Room)	51	51	30-100	
1	Temp B Warning (High)	Temp. B to judge the Temp Error at High (Panel)	64	64	30-100	
2	Temp C Warning (High)	Temp. C to judge the Temp Error at High (Lamp)	59	59	30-100	
3	Temp B-A Warning (High)	Temp. B-A to judge the Temp Error at High (Clogging Det.)	100	100	0-100	
4	Temp C-A Warning (High)	Temp. C-A to judge the Temp Error at High (Clogging Det.)	100	100	0-100	
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	44	44	30-100	
6	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	60	60	30-100	
7	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	60	60	30-100	
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	0-100	
9	Temp C-A Warning (Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	0-100	
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	44	44	30-100	
11	Temp B Warning (Eco)	Temp. B to judge the Temp Error at Eco (Panel)	60	60	30-100	
12	Temp C Warning (Eco)	Temp. C to judge the Temp Error at Eco (Lamp)	60	60	30-100	
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	0-100	
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	0-100	
15	Temp A Warning Offset (Temp)	Offset of Temp Error (Temp.) Error Setting Value is increased XC at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	5		0-100	
16	Temp B Warning Offset (Temp)		15		0-100	
17	Temp C Warning Offset (Temp)		15		0-100	
18	Temp B-A Warning Offset (Temp)		100		0-100	
19	Temp C-A Warning Offset (Temp)		100		0-100	
20	Temp A Warning Offset (Time)	Offset of Temp Error (Minutes) Error Setting Value is increased X minute at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	15		0-100	
21	Temp B Warning Offset (Time)		30		0-100	
22	Temp C Warning Offset (Time)		30		0-100	
23	Temp B-A Warning Offset (Time)		40		0-100	
24	Temp C-A Warning Offset (Time)		40		0-100	
Group 254	**Fan Control Range Setting (Temp./Voltage)**		Normal	Ceiling		
0	High Fan Control Min Temp	Temp Senser Control Start/End Temp. at High	29	29	20-100	
1	High Fan Control Max Temp		38	38	20-100	
2	High Fan1 Min	Fan voltage value at High (unit: 0.1V)	100	100	0-255	
3	High Fan1 Max		135	135	0-255	
4	High Fan2 Min		85	85	0-255	
5	High Fan2 Max		130	130	0-255	
6	High Fan3 Min		75	80	0-255	
7	High Fan3 Max		80	85	0-255	
8	High Fan4 Min(LAMP1)		-	-	0-255	
9	High Fan4 Max(LAMP1)		-	-	0-255	
10	High Fan5 Min(LAMP1)		-	-	0-255	
11	High Fan4 Max(LAMP1)		-	-	0-255	
12	Normal Fan Control Min Temp	Temp Senser Control Start/End Tem.p at Normal	33	33	20-100	
13	Normal Fan Control Max Temp		38	39	20-100	
14	Normal Fan1 Min	Fan voltage value at Normal (unit: 0.1V)	72	77	0-255	
15	Normal Fan1 Max		125	125	0-255	
16	Normal Fan2 Min		68	75	0-255	
17	Normal Fan2 Max		80	80	0-255	
18	Normal Fan3 Min		77	82	0-255	
19	Normal Fan3 Max		135	135	0-255	
20	Normal Fan4 Min		-	-	0-255	
21	Normal Fan4 Max		-	-	0-255	
22	Normal Fan5 Min		-	-	0-255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial		Range	Note
23	Normal Fan5 Max	Temp Senser Control Start/End Tem.p at Eco	-	-	0-255	
24	Eco Fan Control Min Temp		33	33	20-100	
25	Eco Fan Control Max Temp		38	39	20-100	
26	Eco Fan1 Min	Fan voltage value at Eco (unit: 0.1V)	72	77	0-255	
27	Eco Fan1 Max		125	125	0-255	
28	Eco Fan2 Min		68	75	0-255	
29	Eco Fan2 Max		80	80	0-255	
30	Eco Fan3 Min		77	82	0-255	
31	Eco Fan3 Max		135	135	0-255	
32	Eco Fan4 Min(LAMP1)		-	-	0-255	
33	Eco Fan4 Max(LAMP1)		-	-	0-255	
34	Eco Fan5 Min(LAMP1)		-	-	0-255	
35	Eco Fan5 Max(LAMP1)		-	-	0-255	
Group 255	**Fan Start/Cooling Setting**					
0	Fan1 Initial Volt	Fan Start Voltage (0.1V)	60		0-145	
1	Fan2 Initial Volt		60		0-145	
2	Fan3 Initial Volt		60		0-145	
3	Fan4 Initial Volt		-		0-255	
4	Fan5 Initial Volt	Fan Voltage at Power Off (0.1V)	-		0-255	
5	Fan6-8 Initial Duty		-		0-255	
6	Fan8 Initial Volt		-		0-255	
8	Cooling Time L1	Cooling Time stting at Fan Mode L1 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	3		1-15	
9	Cooling Time L2	Cooling Time stting at Fan Mode L2 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	4		1-15	
10	Temp Error Cooling Time	Cooling Time setting at Temp Erro (x 30 sec)	3		1-15	
11	OnStart Cooling Start Thresh-old		60		0-100	
12	After shutdown cooling	Cooling after shutdown (0: No, 1: Yes)	1		0-1	
Group 256	**Fan Lamp Voltage Down Setting**					
0	Lamp Voltage	Current Lamp Voltage (0.1V)(Read only)	-		0-255	
1	Lamp Vol Threshold	Threshold to judge Lamp Voltage Down (V×10)	30		30-90	
2	Fan1 Speed Gain	Additional Fan Speed of Min at Lamp Voltage Down (unit: 0.1V)	0		0-255	
3	Fan2 Speed Gain		300		0-255	
4	Fan3 Speed Gain		300		0-255	
5	Fan4 Speed Gain		300		0-255	
Group 257	**Fan Dimmer Setting**					
0	Dimmer Average Check Period	Dimmer Avarage measurement Time (0:10sec, 1:30sec, 2:6sec, 90sec...10:300sec)	1		0-10	
1	Dimmer Average	Dimmer Avarage Value (Read only)	-		-	
2	Last Voltage Difference		-		-	
3	Voltate Difference Goal					
Group 258	**Fan IC Temp for Netowrk model**					
0	Standby Cooling Check Cycle	Temp A check cycle at Standby	5		0-100	
1	Standby Cooling Start Threshold	Cooling start threshold temp A	46		0-100	
2	Standby Cooling Enable	Cooling in standby Enable	1		0-1	
Group 259	**Fan Press Setting**					
0	Press Ssource Range Low		-		0-1023	
1	Press Ssource Range High		-		0-1023	
2	Press Fan Add Range High(Lamp In)		-		0-5000	
3	Press Fan Add Range Low(Lamp In)		-		0-5000	
4	Press Fan Add Range High(No Lamp In)		-		0-5000	
5	Press Fan Add Range Low (No Lamp In)		-		05000	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
Group 260	**Auto Calibration (Commn) * Auto Calibration**				
0	Execute Calibration		0	0 - 1	Executes Auto-Calibration when changiing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	8	1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0	0 / 1 / 9	0: OK, 1: Adjusting,9: Error * ReadOnly
3	AutoWait	Wait Value for each setting	3	1 - 20	
4	CHECK -Tolelance	Torelance of OFFSET	4	1 - 255	
5	Time out wait	Time out waiting time(sec)	20	1-255	
Group 261	**Auto Calibration (RGB)**				
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975	0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500	0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25	0 - 1000	
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	20	0 - 1023	
7	OFFSET torelance	Torelance of Black Level Adj.	1	1 - 1023	
8	GAIN target	Target Value of White Level Adj.	955	0 - 1023	
9	GAIN torelance	Torelance of White Level Adj.	1	1 -1023	
10	Image Level tolerance		8	1-255	
Group 262	**Auto Calibration (CVBS/SVIDEO)**				
0	Y Image Area Start X	Y Acquiring Area H-Start Position	20	0 - 1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	200	0 - 1000	
6	Image Area H Width	Image Level Acquiring Area	8	0 - 4095	
7	Image Area V Hight	Image Level Acquiring Area Height	9	0 - 4095	
8	Y Target Level	Target Value of Y Level Adj.	835	0 - 1023	
11	Gain Tolerance	Torelance of Level Adj.	1	1 - 255	
12	Delta Gain	Deviation Width of Gain Value	2	1 - 255	
Group 264	**Auto Calibration (YCbCr)**				
0	Y-OFFSET AREA H START	Y - Offset Acquiring Area H-Start Position	925	0 - 1000	
1	Y-OFFSET AREA V START	Y - Offset Acquiring Area V-Start Position	500	0 - 1000	
2	CB - OFFSET AREA H START	CB - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
3	CB - OFFSET AREA V START	CB - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
4	CR - OFFSET AREA H START	CR - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
5	CR - OFFSET AREA V START	CR - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
6	Y - GAIN AREA H START	Y	50	0 - 1000	
7	Y - GAIN AREA V START		500	0 - 1000	
8	CB - GAIN AREA H START		800	0 - 1000	
9	CB - GAIN AREA V START		500	0 - 1000	
10	CR - GAIN AREA H START		700	0 - 1000	
11	CR - GAIN AREA V START		500	0 - 1000	
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	13	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
14	Y - OFFSET TARTGET		4	0 - 1023	
15	CB OFFSET TARGET		512	0 - 1023	
16	CR OFFSET TARGET		512	0 - 1023	
17	Y - GAIN TARGET		810	0 - 1023	
18	CB - GAIN TARGET		894	0 - 1023	
19	CR - GAIN TARGET		894	0 - 1023	
20	OFFSET torelance	Torelance of OFFSET Adj.	1	1 - 255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
21	GAIN torelance	Torelance of GAIN Adj.	2	1 - 255	
22	Image Level Tolerance		8	1 - 255	
Group 270	**Custom (Aspect)**				
0	Scaler Horizontal	H-Scaler	100	68-132	
1	Scaler Vertical	H-Vertical	100	68-132	
2	Connect	Link Edit 1: Link	0	0 - 1	
3	Position Horizontal	H-Position	100	85-115	
4	Position Vertical	V-Position	100	85-115	
5	Aspect Enable	Aspect Enale (0: On, 1: Off)	0	0 - 1	
Group 280	**AutoPC Adjsut**				
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Unsupported Signal Input	0	0 - 1	0: Enable, 1: Disable
1	Frequency Step	Frequency Steps of TotalDot	1	0-3	
2	Frequency Threshold	Total Dot Freqency Threshold	5	0 - 10	0 [] <— ——> 10[Not matched]
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0 - 1	0: Executes Fine Phase, 1: Not Execute
4	BLKDET	Black Level Detection Area	1	0 - 3	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit
Group 290	**PanelType * Panel Type Check**				
0	GammaL/R-View	Current Setting Check	0	0-20	0: Gamma for L-Turn 20: Gamma for R-Turn * Read only
1	GammaL/R-Change	Setting of Gamma	10	0-20	Sets L-Turn Gamma if the Value is set to 0. Sets R-Turn Gamma if the Value is set to 20.
Group 300	**Closed capture**				
0	Caption Mode	Capture Mode: OFF/CC1/CC2/CC3/CC4	0	0-5	
1	Color Mode	Color Mode	0	0-1	
Group 500	**Composite (NTSC) Composite / S-Video**				
0					
1	Disp Dots		674	0 - 4095	
2	H Back Porch		25	0 - 4095	
3	V Back Porch		14	0 - 4095	
4	Disp Line		458	0 - 4095	
Group 501	**Composite (PAL) Composite / S-Video**				
0					
1	Disp Dots		662	0 - 4095	
2	H Back Porch		31	0 - 4095	
3	V Back Porch		21	0 - 4095	
4	Disp Line		538	0 - 4095	
Group 502	**Composite (SECAM) Composite / S-Video**				
0					
1	Disp Dots		662	0 - 4095	
2	H Back Porch		32	0 - 4095	
3	V Back Porch		18	0 - 4095	
4	Disp Line		542	0 - 4095	
Group 510	**SCART(480i)**				
0	TRotal DOts		858	0 - 4095	
1	Disp Dots		662	0 - 4095	
2	H Back Porch		133	0 - 4095	
3	V Back Porch		40	0 - 4095	
4	Disp Line		453	0 - 4095	
5	Clamp		68	0 - 255	
6	Clamp Width		20	0 - 255	

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Group/ Item	Item Name	Function	Initial	Range	Note
Group 511	**SCART(575i)**				
0			864	0 - 4095	
1	Disp Dots		650	0 - 4095	
2	H Back Porch		151	0 - 4095	
3	V Back Porch		63	0 - 4095	
4	Disp Line		516	0 - 4095	
5	Clamp		66	0 - 255	
6	Clamp Width		20	0 - 255	
25	(USB)Clamp		0	0 - 4095	
26	(USB)Clamp Width		0	0 - 4095	
Group 520	**YCbCr (480i)**				
0	Total Dots		858	0 - 4095	
1	Disp Dots		672	0 - 4095	
2	H Back Porch		145	0 - 4095	
3	V Back Porch		43	0 - 4095	
4	Disp Line		456	0 - 4095	
5	Clamp		72	0 - 4095	
6	Clamp Width		31	0 - 4095	
22	(USB) H Back Porch		91	0 - 4095	
23	(USB) V Back Porch		62	0 - 4095	
25	(USB)Clamp		10	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 521	**YCbCr (575i)**				
0	Total Dots		864	0 - 4095	
1	Disp Dots		656	0 - 4095	
2	H Back Porch		162	0 - 4095	
3	V Back Porch		59	0 - 4095	
4	Disp Line		538	0 - 4095	
5	Clamp		98	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB) H Back Porch		108	0 - 4095	
23	(USB) V Back Porch		76	0 - 4095	
25	(USB)Clamp		10	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 522	**YCbCr (480P)**				
0	Total Dots		1716	0 - 4095	* Read only
1	Disp Dots		1368	0 - 4095	
2	H Back Porch		279	0 - 4095	
3	V Back Porch		46	0 - 4095	
4	Disp Line		458	0 - 4095	
5	Clamp		162	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB) H Back Porch		161	0 - 4095	
23	(USB) V Back Porch		50	0 - 4095	
25	(USB)Clamp		1	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 523	**YCbCr (575P)**				
0	Total Dots		1728	0 - 4095	* Read only
1	Disp Dots		1360	0 - 4095	
2	H Back Porch		302	0 - 4095	
3	V Back Porch		58	0 - 4095	
4	Disp Line		544	0 - 4095	
5	Clamp		160	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB) H Back Porch		187	0 - 4095	
23	(USB) V Back Porch		61	0 - 4095	
25	(USB)Clamp		1	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 524	**YCbCr (720P - 60)**				
0	Total Dots		1650	0 - 4095	* Read only
1	Disp Dots		1248	0 - 4095	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
2	H Back Porch		314	0 - 4095	
3	V Back Porch		33	0 - 4095	
4	Disp Line		700	0 - 4095	
5	Clamp		187	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB) H Back Porch		284	0 - 4095	
23	(USB) V Back Porch		31	0 - 4095	
25	(USB)Clamp		110	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 525	**YCbCr (720P - 50)**				
0	Total Dots		1980	0 - 4095	* Read only
1	Disp Dots		1248	0 - 4095	
2	H Back Porch		313	0 - 4095	
3	V Back Porch		34	0 - 4095	
4	Disp Line		701	0 - 4095	
5	Clamp		110	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB) H Back Porch		281	0 - 4095	
23	(USB) V Back Porch		39	0 - 4095	
25	(USB)Clamp		110	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 526	**YCbCr (1080i - 60)**				
0	Total Dots		2200	0 - 4095	* Read only
1	Disp Dots		1874	0 - 4095	
2	H Back Porch		257	0 - 4095	
3	V Back Porch		50	0 - 4095	
4	Disp Line		1052	0 - 4095	
5	Clamp		137	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB) H Back Porch		222	0 - 4095	
23	(USB) V Back Porch		85	0 - 4095	
25	(USB)Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 527	**YCbCr (1080i - 50)**				
0	Total Dots		2640	0 - 4095	* Read only
1	Disp Dots		1872	0 - 4095	
2	H Back Porch		258	0 - 4095	
3	V Back Porch		49	0 - 4095	
4	Disp Line		1052	0 - 4095	
5	Clamp		137	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB) H Back Porch		222	0 - 4095	
23	(USB) V Back Porch		83	0 - 4095	
25	(USB)Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 528	**YCbCr (1035i)**				
0	Total Dots		2200	0 - 4095	* Read only
1	Disp Dots		1872	0 - 4095	
2	H Back Porch		258	0 - 4095	
3	V Back Porch		87	0 - 4095	
4	Disp Line		1010	0 - 4095	
5	Clamp		141	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB) H Back Porch		222	0 - 4095	
23	(USB) V Back Porch		124	0 - 4095	
25	(USB)Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 533	**YCbCr (1080p-24)**				
0	Total Dots		2750	0 - 4095	* Read only
1	Disp Dots		1878	0 - 4095	
2	H Back Porch		214	0 - 4095	

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Group/ Item	Item Name	Function	Initial	Range	Note
3	V Back Porch		46	0 - 4095	
4	Disp Line		1070	0 - 4095	
Group 540	**RGB Video (480i)**				
0	Total Dots		1716	0 - 4095	
1	Disp Dots		1346	0 - 4095	
2	H Back Porch		174	0 - 4095	
3	V Back Porch		48	0 - 4095	
4	Disp Line		460	0 - 4095	
5	Clamp		1	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB) H Back Porch		292	0 - 4095	
23	(USB) V Back Porch		45	0 - 4095	
25	(USB)Clamp		32	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 541	**RGB Video (575i)**				
0	Total Dots		1728	0 - 4095	
1	Disp Dots		1318	0 - 4095	
2	H Back Porch		208	0 - 4095	
3	V Back Porch		64	0 - 4095	
4	Disp Line		536	0 - 4095	
5	Clamp		1	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		328	0 - 4095	
23	(USB)V Back Porch		62	0 - 4095	
25	(USB) Clamp		32	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 542	**RGB Video (480P)**				
0	Total Dots		1716	0 - 4095	
1	Disp Dots		1368	0 - 4095	
2	H Back Porch		152	0 - 4095	
3	V Back Porch		34	0 - 4095	
4	Disp Line		479	0 - 4095	
5	Clamp		1	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		276	0 - 4095	
23	(USB)V Back Porch		38	0 - 4095	
25	(USB) Clamp		32	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 543	**RGB Video (575P)**				
0	Total Dots		1728	0 - 4095	
1	Disp Dots		1360	0 - 4095	
2	H Back Porch		185	0 - 4095	
3	V Back Porch		56	0 - 4095	
4	Disp Line		540	0 - 4095	
5	Clamp		1	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		300	0 - 4095	
23	(USB)V Back Porch		60	0 - 4095	
25	(USB) Clamp		32	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 544	**RGB Video (720P - 60)**				
0	Total Dots		1650	0 - 4095	
1	Disp Dots		1248	0 - 4095	
2	H Back Porch		241	0 - 4095	
3	V Back Porch		30	0 - 4095	
4	Disp Line		702	0 - 4095	
5	Clamp		110	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		273	0 - 4095	
23	(USB)V Back Porch		35	0 - 4095	
25	(USB) Clamp		110	0 - 4095	

Group/ Item	Item Name	Function	Initial	Range	Note
26	(USB)Clamp Width		31	0 - 4095	
Group 545	**RGB Video (720P - 50)**				
0	Total Dots		1980	0 - 4095	
1	Disp Dots		1216	0 - 4095	
2	H Back Porch		273	0 - 4095	
3	V Back Porch		30	0 - 4095	
4	Disp Line		702	0 - 4095	
5	Clamp		110	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		286	0 - 4095	
23	(USB)V Back Porch		35	0 - 4095	
25	(USB) Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 546	**RGB Video (1080i - 60)**				
0	Total Dots		2200	0 - 4095	
1	Disp Dots		1872	0 - 4095	
2	H Back Porch		221	0 - 4095	
3	V Back Porch		46	0 - 4095	
4	Disp Line		1052	0 - 4095	
5	Clamp		80	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		257	0 - 4095	
23	(USB)V Back Porch		53	0 - 4095	
25	(USB) Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 547	**RGB Video (1080i - 50)**				
0	Total Dots		2640	0 - 4095	
1	Disp Dots		1872	0 - 4095	
2	H Back Porch		221	0 - 4095	
3	V Back Porch		46	0 - 4095	
4	Disp Line		1052	0 - 4095	
5	Clamp		80	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		258	0 - 4095	
23	(USB)V Back Porch		54	0 - 4095	
25	(USB) Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 548	**RGB Video (1035i)**				
0	Total Dots		2200	0 - 4095	
1	Disp Dots		1872	0 - 4095	
2	H Back Porch		177	0 - 4095	
3	V Back Porch		81	0 - 4095	
4	Disp Line		1012	0 - 4095	
5	Clamp		80	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		213	0 - 4095	
23	(USB)V Back Porch		90	0 - 4095	
25	(USB) Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 551	**RGB Video (1080p-30)**				
0	Total Dots		2200	0 - 4095	
1	Disp Dots		1874	0 - 4095	
2	H Back Porch		250	0 - 4095	
3	V Back Porch		55	0 - 4095	
4	Disp Line		1051	0 - 4095	
5	Clamp		80	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		250	0 - 4095	
23	(USB)V Back Porch		55	0 - 4095	
25	(USB) Clamp		32	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	

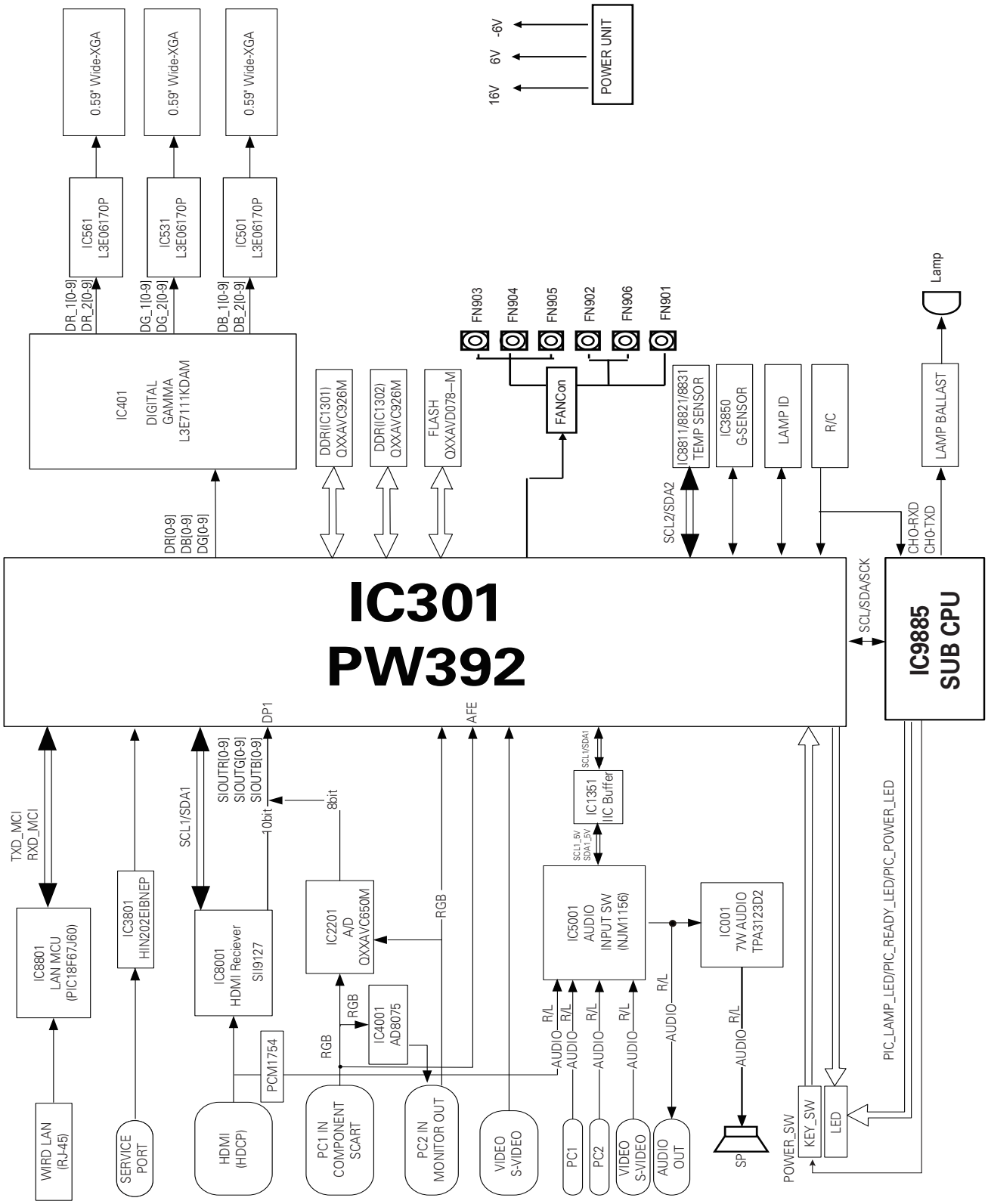
Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
Group 552	**RGB Video (1080p-25)**				
0	Total Dots		2640	0 - 4095	
1	Disp Dots		1874	0 - 4095	
2	H Back Porch		250	0 - 4095	
3	V Back Porch		56	0 - 4095	
4	Disp Line		1051	0 - 4095	
5	Clamp		80	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		250	0 - 4095	
23	(USB)V Back Porch		56	0 - 4095	
25	(USB) Clamp		32	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 553	**RGB Video (1080p-24)**				
0	Total Dots		2750	0 - 4095	
1	Disp Dots		1874	0 - 4095	
2	H Back Porch		250	0 - 4095	
3	V Back Porch		56	0 - 4095	
4	Disp Line		1051	0 - 4095	
5	Clamp		80	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		250	0 - 4095	
23	(USB)V Back Porch		56	0 - 4095	
25	(USB) Clamp		32	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 555	**RGB Video (1080SF-30)**				
0	Total Dots		2200	0 - 4095	
1	Disp Dots		1875	0 - 4095	
2	H Back Porch		249	0 - 4095	
3	V Back Porch		90	0 - 4095	
4	Disp Line		1013	0 - 4095	
5	Clamp		80	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		249	0 - 4095	
23	(USB)V Back Porch		90	0 - 4095	
25	(USB) Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 556	**RGB Video (1080SF-25)**				
0	Total Dots		2640	0 - 4095	
1	Disp Dots		1875	0 - 4095	
2	H Back Porch		249	0 - 4095	
3	V Back Porch		90	0 - 4095	
4	Disp Line		1013	0 - 4095	
5	Clamp		80	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		249	0 - 4095	
23	(USB)V Back Porch		90	0 - 4095	
25	(USB) Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 557	**RGB Video (1080PSF-24)**				
0	Total Dots		2750	0 - 4095	
1	Disp Dots		1888	0 - 4095	
2	H Back Porch		145	0 - 4095	
3	V Back Porch		47	0 - 4095	
4	Disp Line		1063	0 - 4095	
5	Clamp		80	0 - 255	
6	Clamp Width		31	0 - 255	
22	(USB)H Back Porch		181	0 - 4095	
23	(USB)V Back Porch		51	0 - 4095	
25	(USB) Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 930	**AutoGamma**				

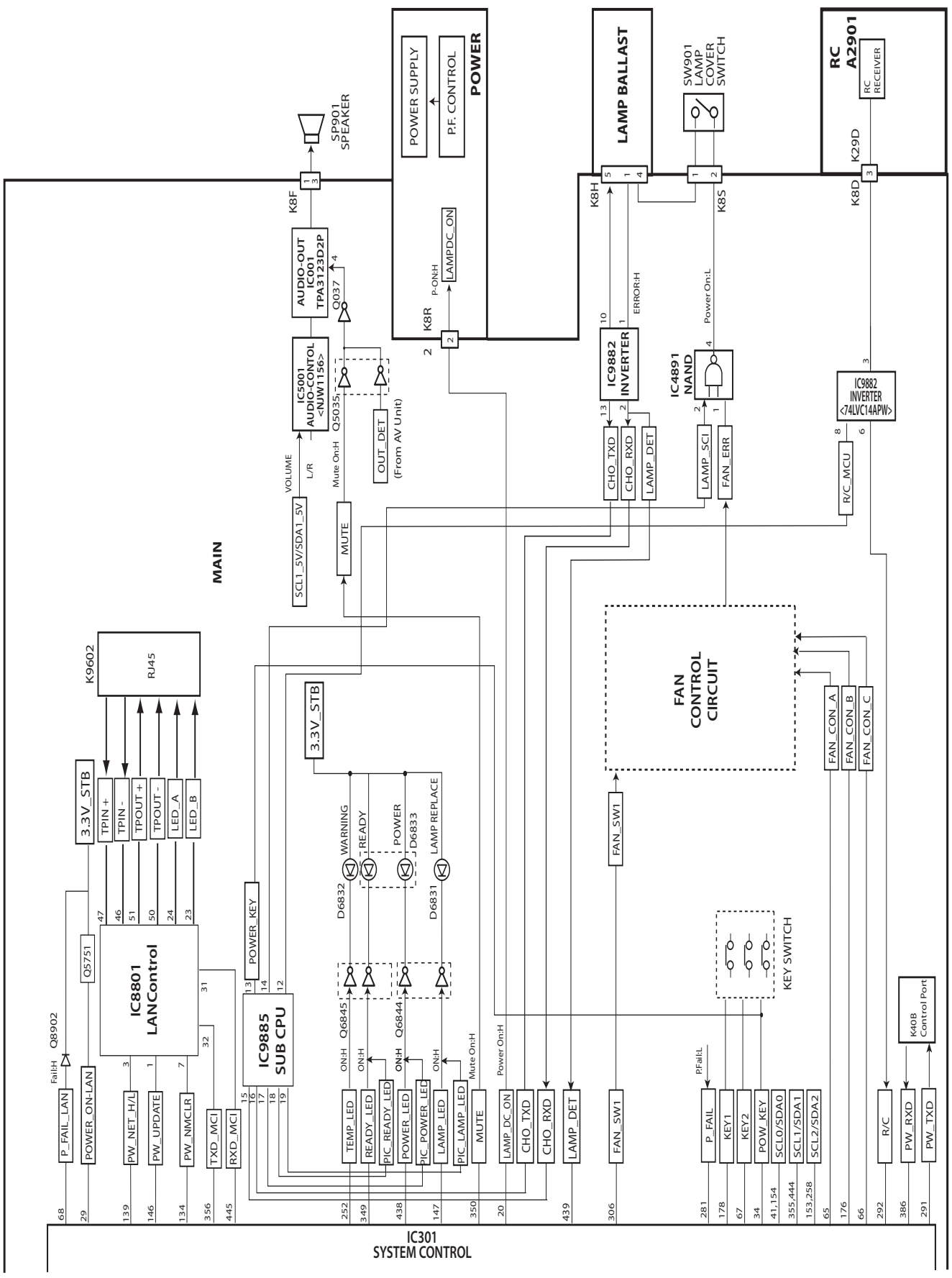
Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
0	GAM_CALG_STATUS		0	0-1	Auto Gamma adjust
Group 999	**Service Mode(Read Only)**				
0	Version	Version data	-	-	
1	Brand Option		1	0-6	

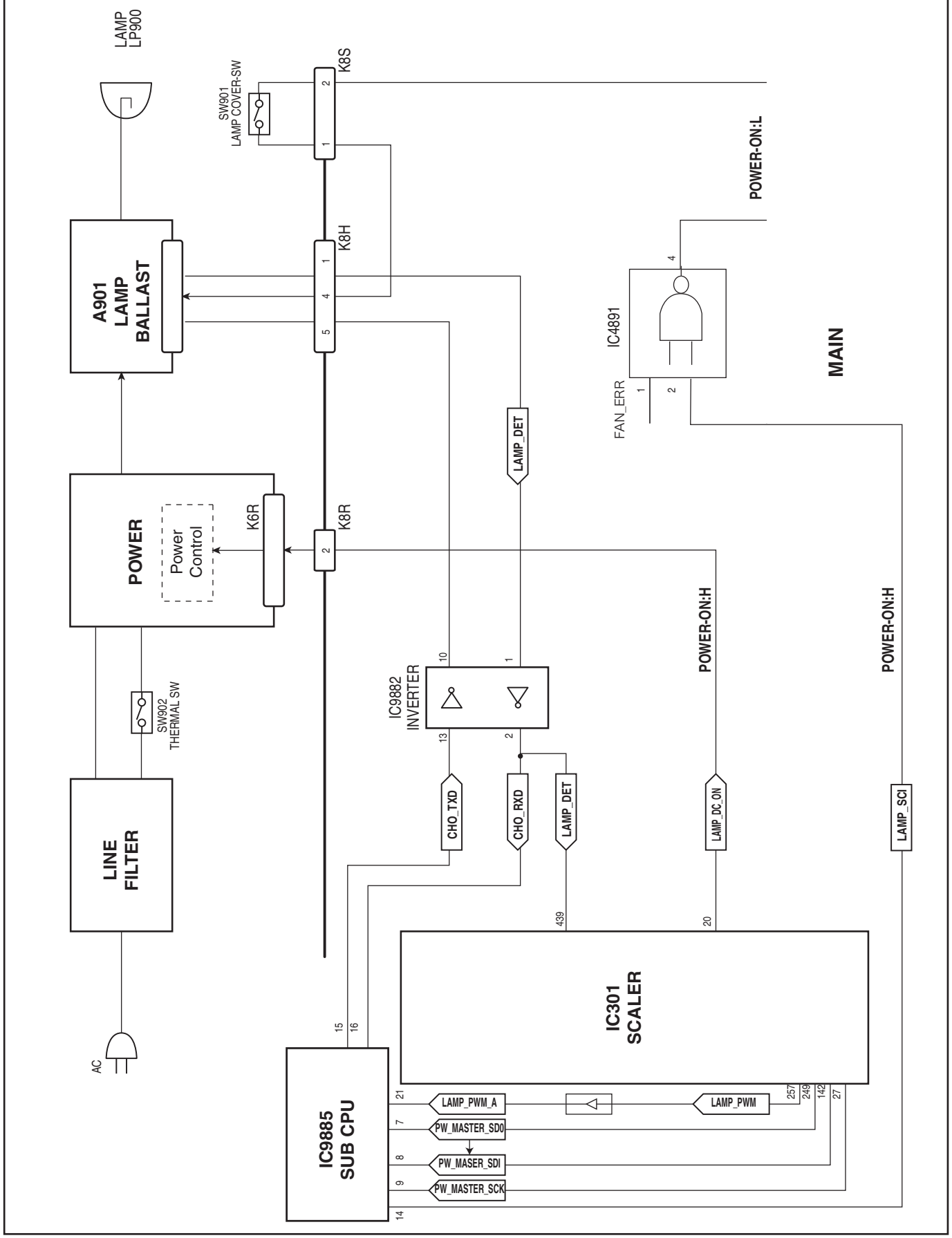
Chassis over view



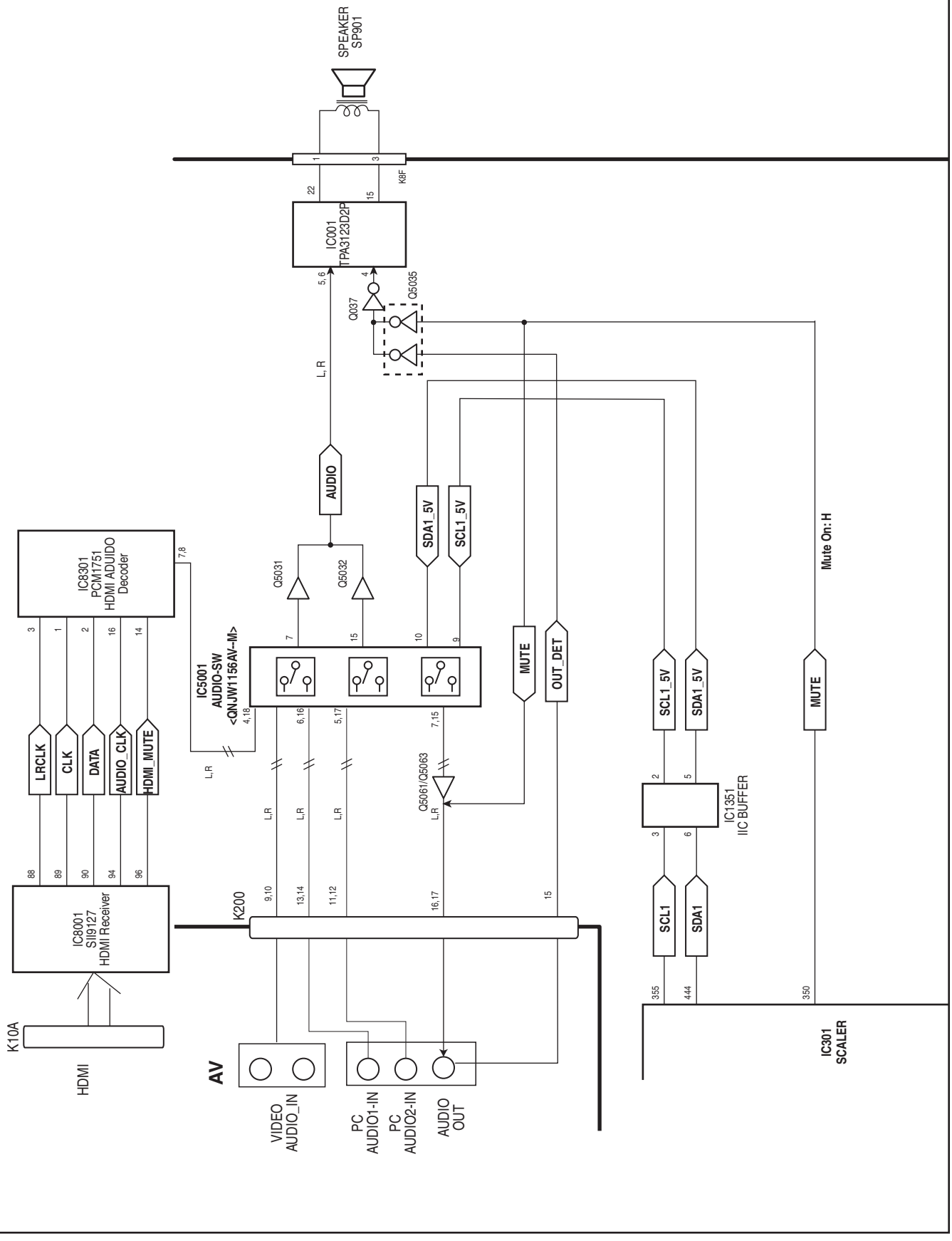
System control



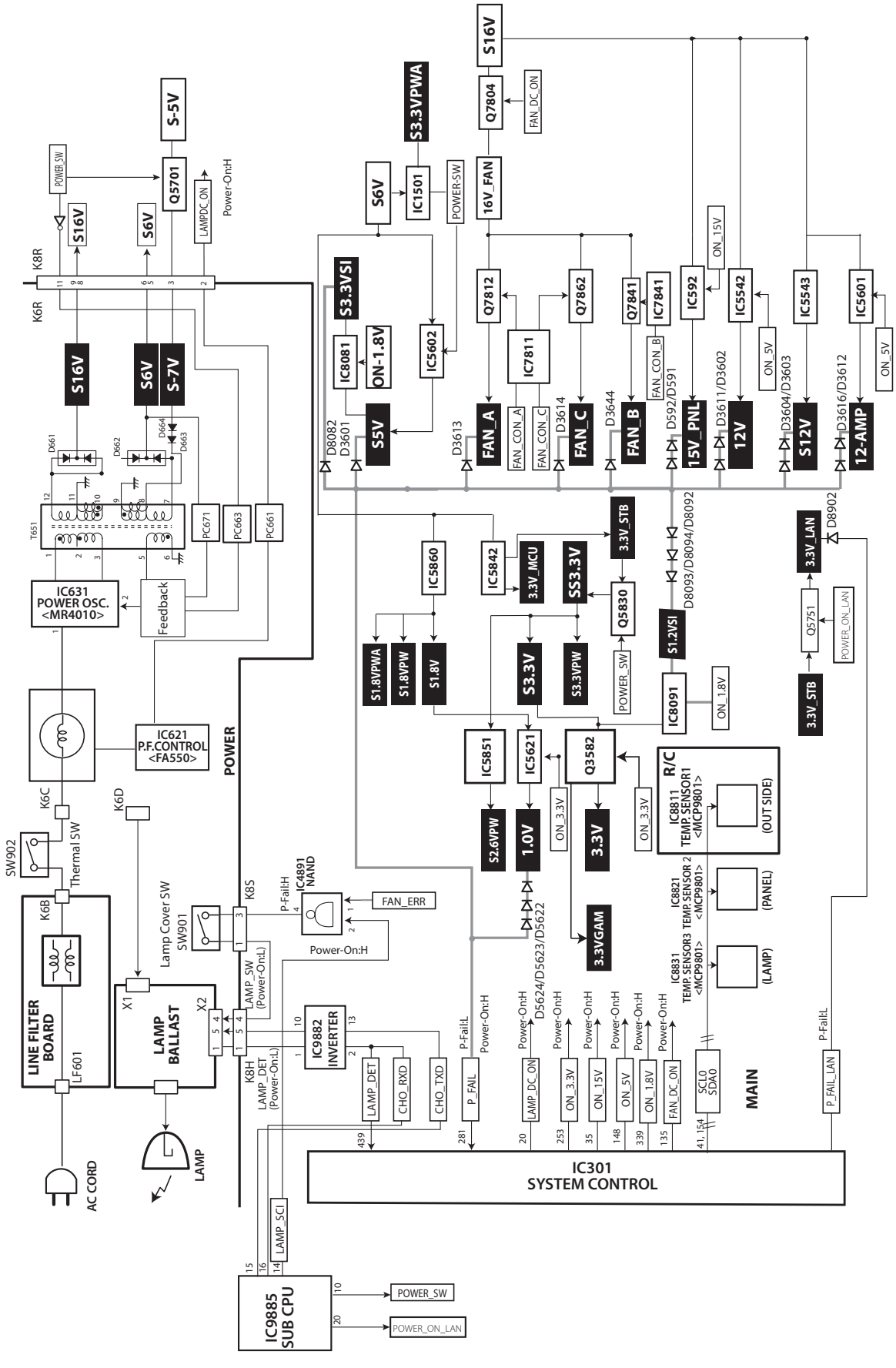
Lamp control



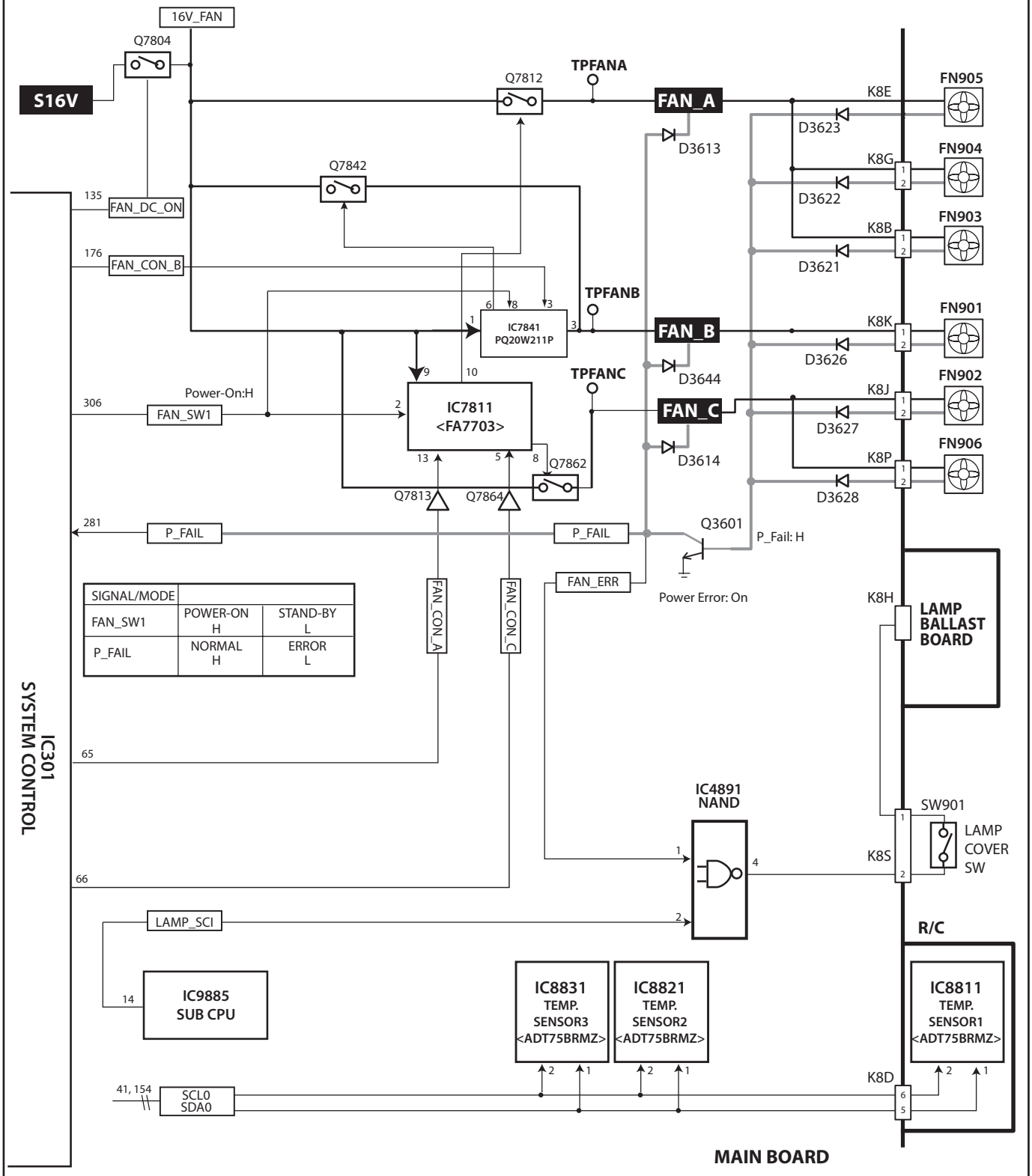
Audio circuit



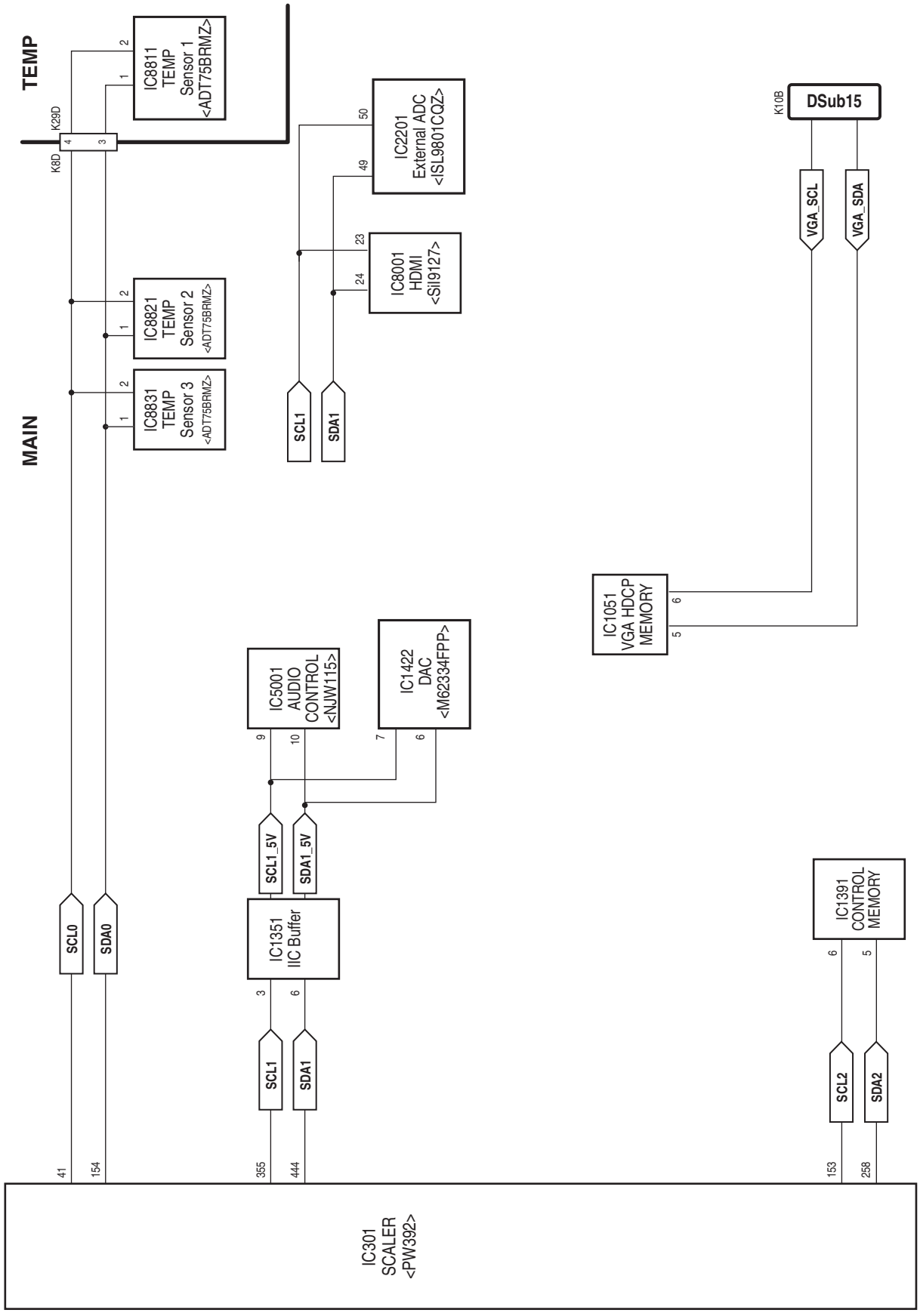
Power supply & protection circuit



Fan control circuit



IIC bus control circuit



Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER **red/green**	WARNING **red**	LAMP REPLACE **yellow**	
●	●	●	The projector is off. (The AC power cord is unplugged.)
◍	●	✱	The projector is in stand-by mode. Press the ON/STAND-BY button to turn on the projector.
○	●	✱	The projector is operating normally.
◍ blinks	●	✱	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 and the POWER indicator stops blinking.
○ blinks	●	✱	The projector is in the Power management mode.
◍ blinks	◍ blinks	✱	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 stops blinking and the projector can be turned on. (The WARNING indicator keeps blinking.)
◍	◍ blinks	✱	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking.
●	◍	✱	The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center for service and checkup. Do not leave the projector on. It may cause an electric shock or a fire hazard.

○ • • • green.　　◍ • • • red　　● • • • off

○ blinks • • • blinks green.　　◍ blinks • • • 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.

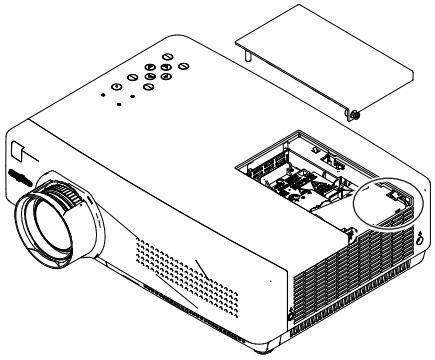
- **When all of LED indicators are not lighting**, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;
  AC cord, F601 (Fuse), Power board,
  SW902 (Thermal sw.) short in normal
  SW902 opens when the surrounding temperature of the switch exceeds 100°C.

- **When the WARNING (red) and POWER (red) indicators are blinking**, 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 blinking, and then try to turn on the projector.
  The internal temperature is monitored by sensor ICs, IC8831, IC8821 on the Main board and IC8811 on the R/C 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 281 of IC301<SYSTEM CONTROL> and P_FAIL_LAN signal is snet to pin 68 of IC301<SYSTEM CONTROL> when the abnormality occurred inside the projector, and then the IC301 sends the shutdown signal, LAMP_DC_ON, to the power supply circuit to stop its operation, and signal LAMP_SCI 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 S16V, S6V, S-7V. P_FAIL,P_FAIL_LAN 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 "High". 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;
  ON_15V signal (Power-on: H) is output from pin 35 of IC301 and switches IC592,15V-PNL supply circuit, ON_5V signal (Power-on: H) is output from pin 148 of IC301 and switches IC5542,12V and IC5601, 12-AMP supply circuit, ON_3.3V signal (Power-on: H) is output from pin 253 of IC301 and switches IC5621, 1.0V and Q3582 3.3V supply circuit.
  LAMP_DC_ON signal (Power-on: H) is output from pin 20 of IC301 and supplied to the PFC Control IC, IC621, on the power supply board through Q651, and PC661.
  LAMP-SCI signal (Power-on: H) is output from pin 14 of IC9885 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through SW901<Lamp Cover SW>.
  LAMP_DET signal at the pin 439 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, LAMP_DET 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).



No Picture

Check following steps.

No picture with all of input sources

→ Check signal processing stage and LCD driving stage;
- Check RGB S&H signals at test points TP35B, TP35G, TP35R.
- Check power supply circuit 15V_PNL and peripheral circuit.
- Check ICs IC501, IC531, IC561, IC401, IC301 and peripheral circuits.

No

No picture with PC1 [Analog] input source only

Yes → Check Q1001, Q1002, Q1005, IC5301 and peripheral circuit.

No

No picture with PC2 [Analog] input source only

Yes → Check Q1003, Q1004, Q1006 IC5301 and peripheral circuit.

No

No picture with all of computer input sources

Yes → Check PC/AV source selecting stage and processing stage;
- Check IC5301, IC2201 and peripheral circuits.
- Check IC301<Scaler> and peripheral circuit.

No

No picture with HDMI input sources

Yes → Check HDMI interface stage;
- Check IC8001<HDMI Driver> and peripheral circuits.

No

No picture with video input sources

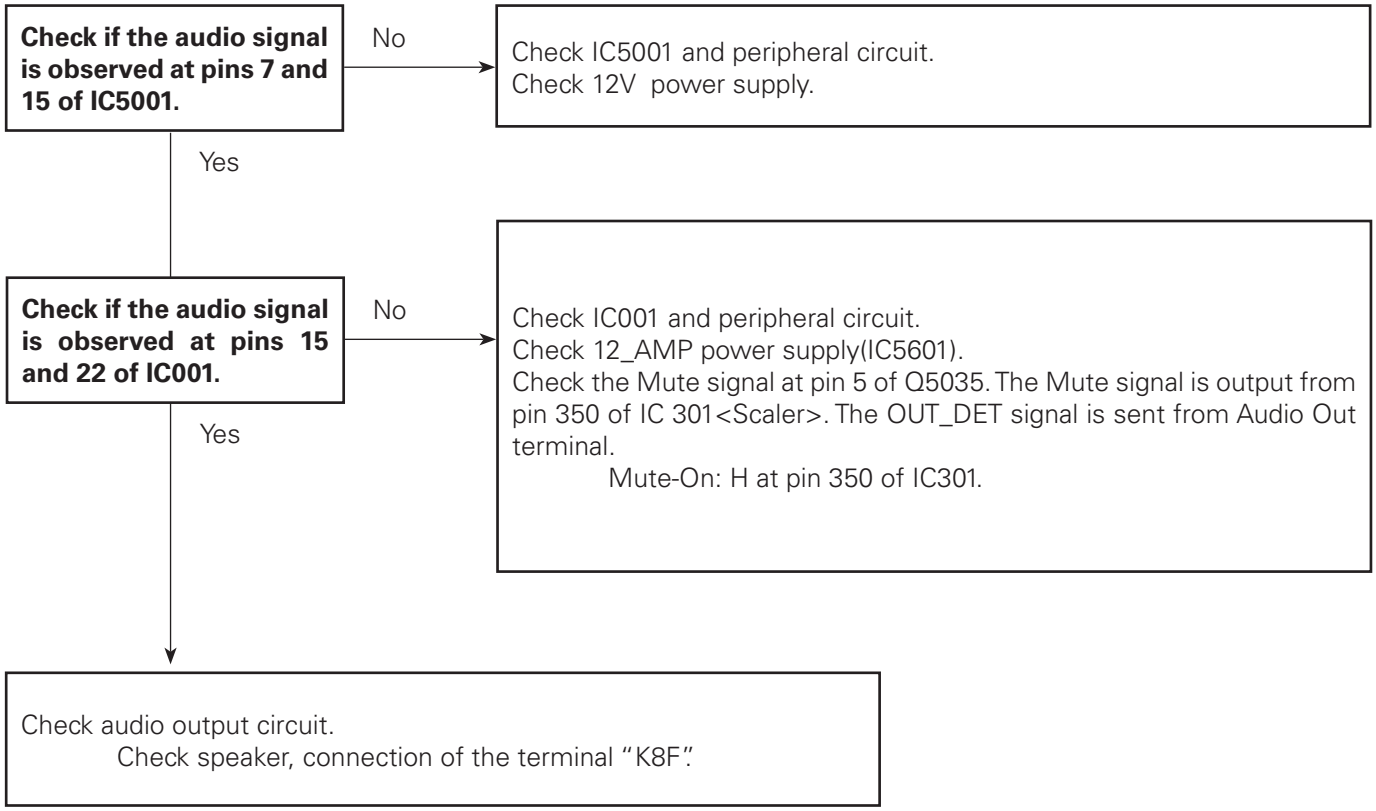
→ Check AV source selecting and decoding stage;

S-Video source
- Check S-video signal (Y/C).
- S_CHROMA signal is applied to pin 108 of IC301<Scaler>, and S-Y signal is applied on pin 318 of IC301.
- S_SW signal (S-VIDEO:L) is input to pin 36 of IC301<Scaler>.

Composite video source
- Check composite video signal (Video).
- The composite video signal is applied to pins 109 of IC301 <Scaler>.

No Sound

Check following steps.

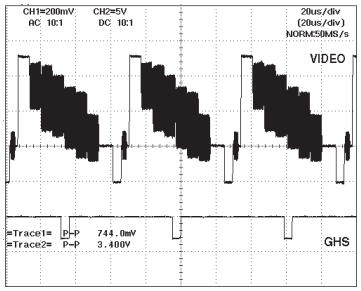
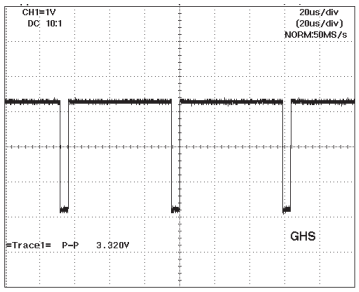
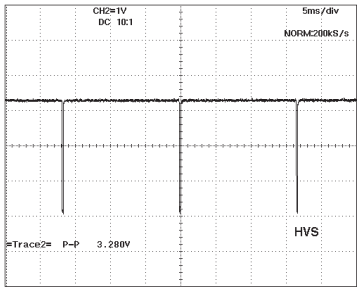
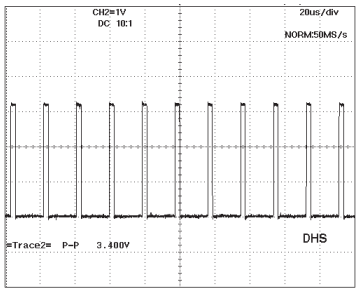
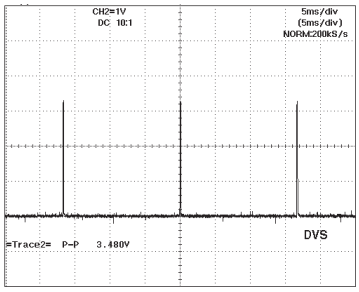
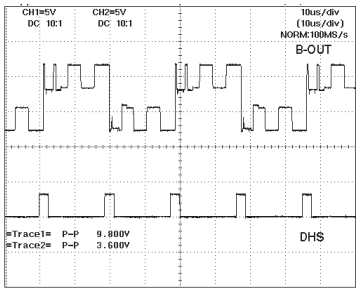
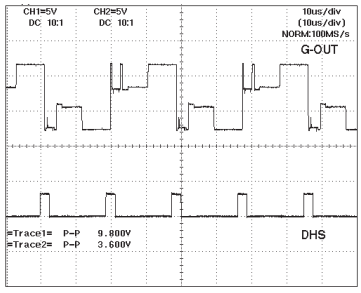
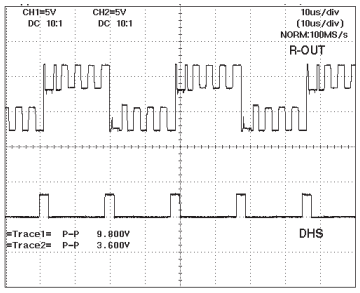


Control Port Functions

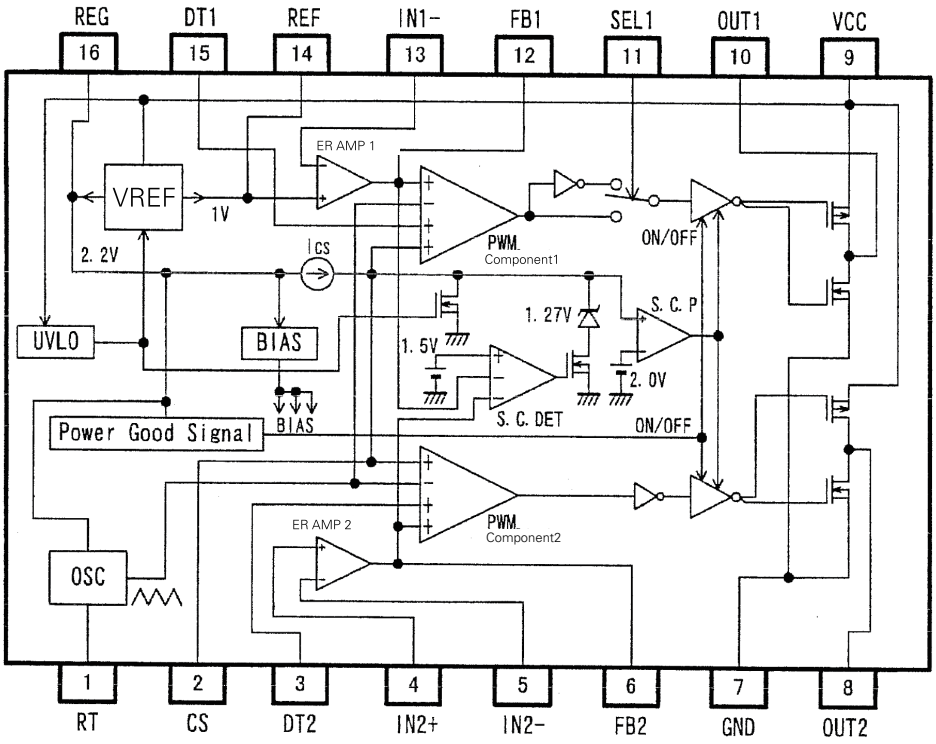
Scaler I/O Port Functions (PW392)

PIN NO.	PORT NO.	PORT NAME	FUNCTION	SIGNAL NAME	DESCRIPTION	I/O
32	C30	PORTA7		AV_SHUTDOWN	TPA3132 CONTROL	O
145	C29	PORTA6		SW_PNL_REF	Panel Reference Voltage Switch	O
250	C28	PORTA5		HDMI_DET	HDMI plug Detection	I
146	D29	PORTA3		PW_UPDATE	NET UPDATE FLAG	O
34	E30	PORTB7		POW_KEY	POW KEY	I
147	E29	PORTB6		LAMP_LED	LAMP LED DRIVER ON:H	O
252	E28	PORTB5		TEMP_LED	TEMP LED DRIVER ON:H	O
349	E27	PORTB4		READY_LED	READY LED DRIVER ON:H	O
438	E26	PORTB3		POWER_LED	POWER LED DRIVER ON:H	O
35	F30	PORTB2		ON_15V	15V POWER SWITCH ON:H	O
148	F29	PORTB1		ON_5V	12V POWER SWITCH ON:H	O
253	F28	PORTB0		ON_3.3V	3.3V POWER SWITCH ON:H	O
350	F27	PORTC7		MUTE	SOUND MUTE DRIVER	O
439	F26	PORTC6		LAMP_DET	LAMP POWER DETECTION	I
36	G30	PORTC5		S_SW	S_VIDEO INPUT SWITCH	I
140	G29	PORTC4		DDC_SW1	DDC WIRE SWITCH	O
254	G28	PORTC3		MONIT_OUT	PC2 OUTPUT SWITCH	O
351	G27	PORTC2		SDATA_PW	3 WIRE SERIAL CONTROL DATA	O
440	G26	PORTC1		SCS_PW	3 WIRE SERIAL CONTROL SELECT	O
306	AB3	PORTD7		FAN_SW1	FAN SWITCH	O
135	B20	PORTD6		FAN_DC_ON	FAN POWER SWITCH ON:H	O
20	A20	PORTD5		LAMP_DC_ON	LAMP POWER SWITCH ON:H	O
340	D19	PORTD4		IRM_RST	RESET RGB COMMON	O
241	C19	PORTD3		SIRST	SII9127 RESET	O
134	B19	PORTD2		R1HPDOUT		I
19	A19	PORTD1		SISCDT		O
339	D18	PORTD0		ON_1.8V	1.8V POWER SWICTH ON:H	O
248	C26	PORTE7		S-5V ON	S-5V POWER SWITCH ON:H	O
27	A27	PORTE6		PW_MASTER_SCK	SUB CPU COMMUNICATION	O
142	B27	PORTE5		PW_MASTER_SDI	SUB CPU COMMUNICATION	O
249	C27	PORTE3		PW MASTER SDO	SUB CPU COMMUNICATION	I
29	A29	PORTE1		POWER_ON_LAN	NET POWER SWITCH	O
139	B24	PORTF7		PW_NET_H/L	NET STATE	O
246	C24	PORTF6		PW_NMCLR	NET RESET	O
342	D21	PORTG7		ON_12V		O
22	A22	PORTG6		PW_LAMP_ID_C	LAMP_ID_DATA	I
137	B22	PORTG5		PW_LAMP_ID_B	LAMP_ID_DATA	I
244	C22	PORTG4		PW_LAMP_ID_A	LAMP_ID_DATA	I
23	A23	PORTG2		PW_LAMP_ID_PROG	LAMP_ID_PROGRAM	O
138	B23	PORTG1		ID_PWR_SW	LAMP_ID_POWER_SWITCH	O
40	L30	PWMO		CEC_D		O
354	K27	PWM2		BLAST-AC		O
257	K28	PWM3		LAMP_PWM	LAMP STATE CONTROL	O
66	AK23	DAC2		FAN_CON_C	FAN_CON_C	O
176	AJ24	DAC1		FAN_CON_B	FAN-CON_B	O
65	AK24	DAC0		FAN_CON_A	FAN_CON_A	O
180	AJ20	ADC7		KEYSTONE_X	KEYSTONE SENSOR DATA	O
69	AK20	ADC6		KEYSTONE_T	KEYSTONE SENSOR DATA	O
282	AH21	ADC5		BLAND_OPTION	BLAND_OPTION	O
179	AJ21	ADC4		LAMP_OPTION	LAMP_OPTION	O
68	AK21	ADC3		P_FAIL_LAN	LAN POWER PROTECTION	O
281	AH22	ADC2		P_FAIL	POWER PROTECTION	O
178	AJ22	ADC1		KEY1	KEY1	O
67	AK22	ADC0		KEY2	KEY2	O

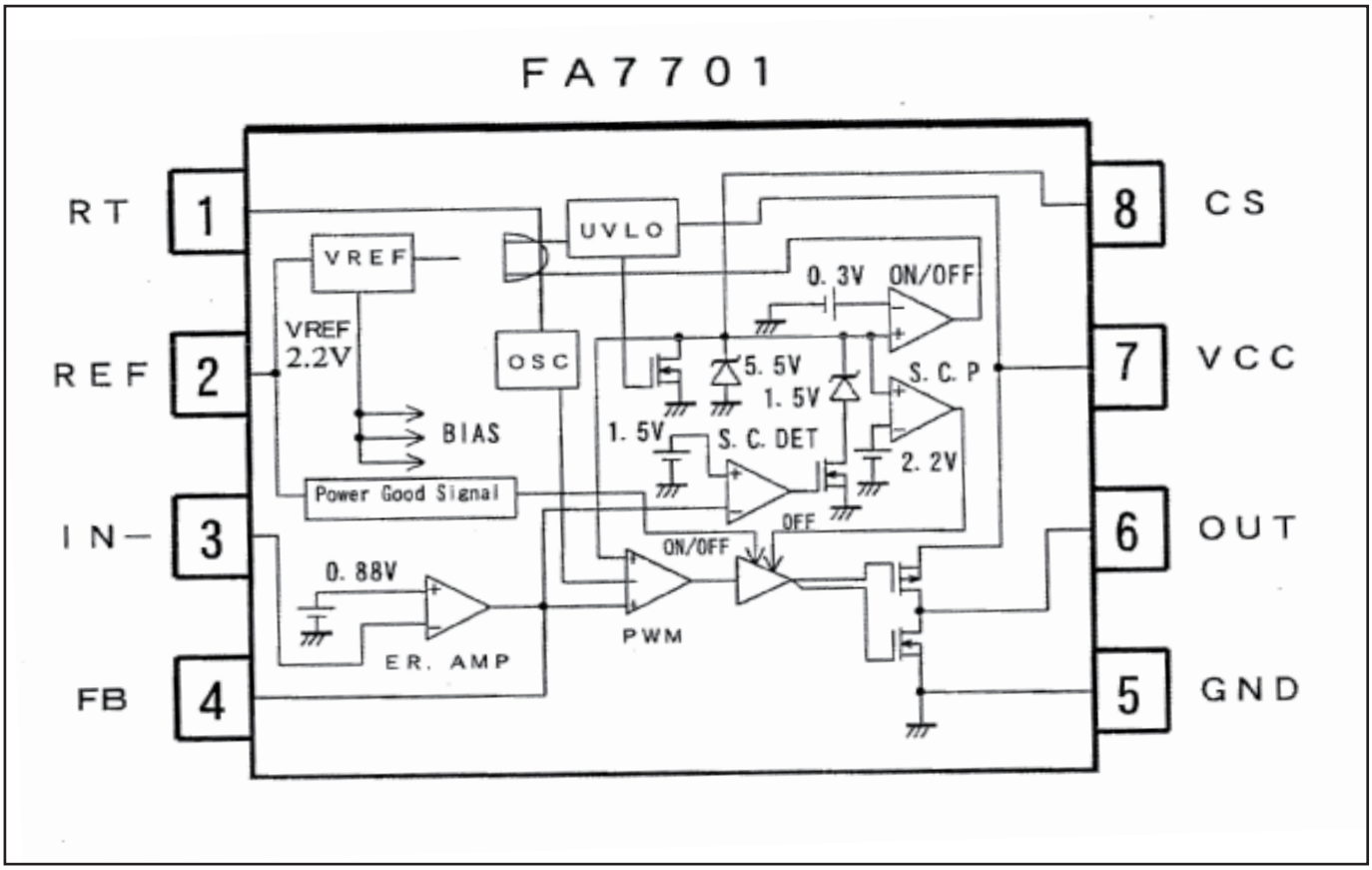
Waveform

VIDEO signal <VIDEO>	HSYNC signal	VSYNC signal
		
HSYNC signal <TPDHS>	**VSYNC signal <TPDVS>**	
		
R-S&H signal <TP35R>	**G-S&H signal <TP35G>**	**B-S&H signal <TP35B>**
		

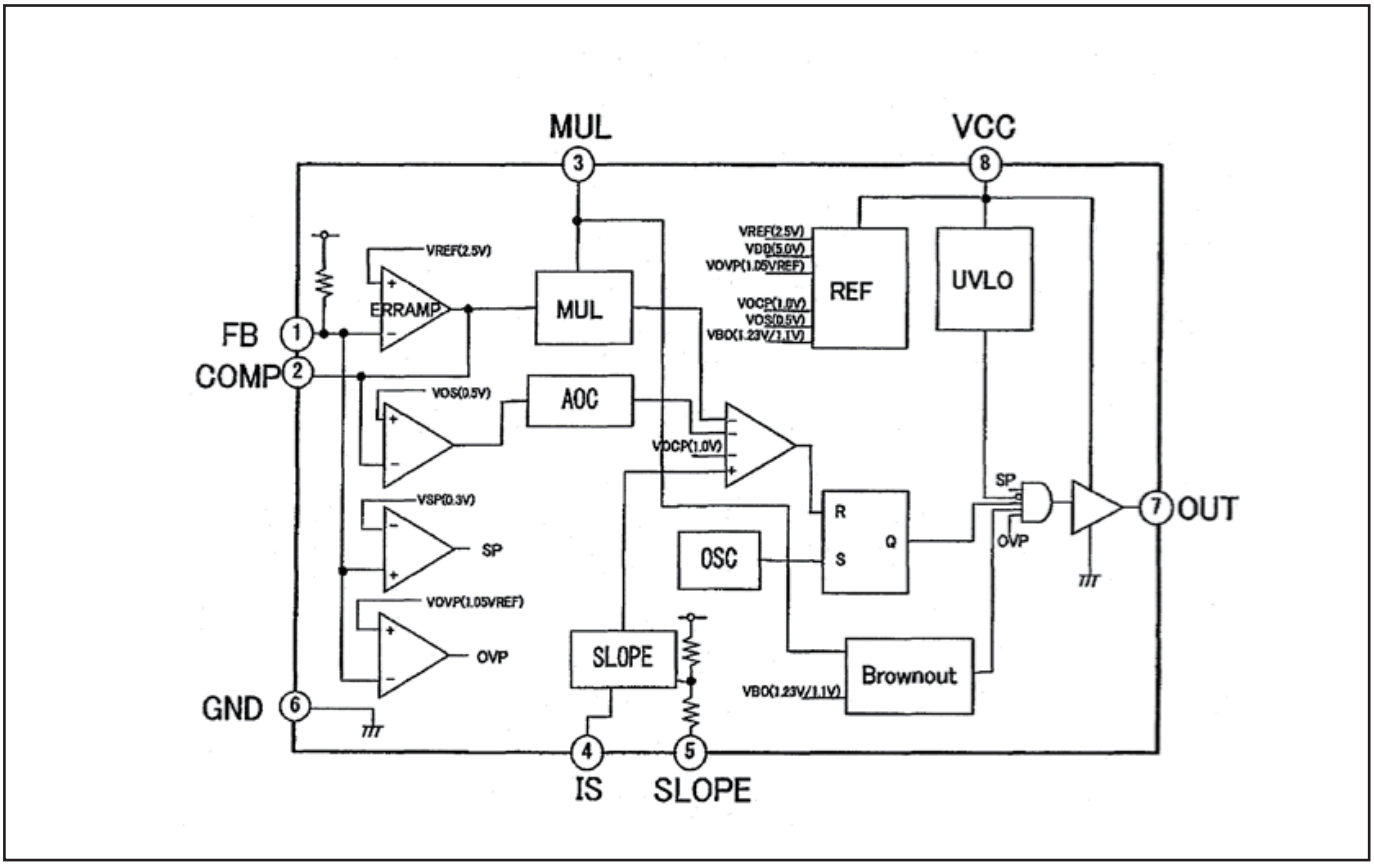
● FA7703 <Fan Power Control, IC7811>



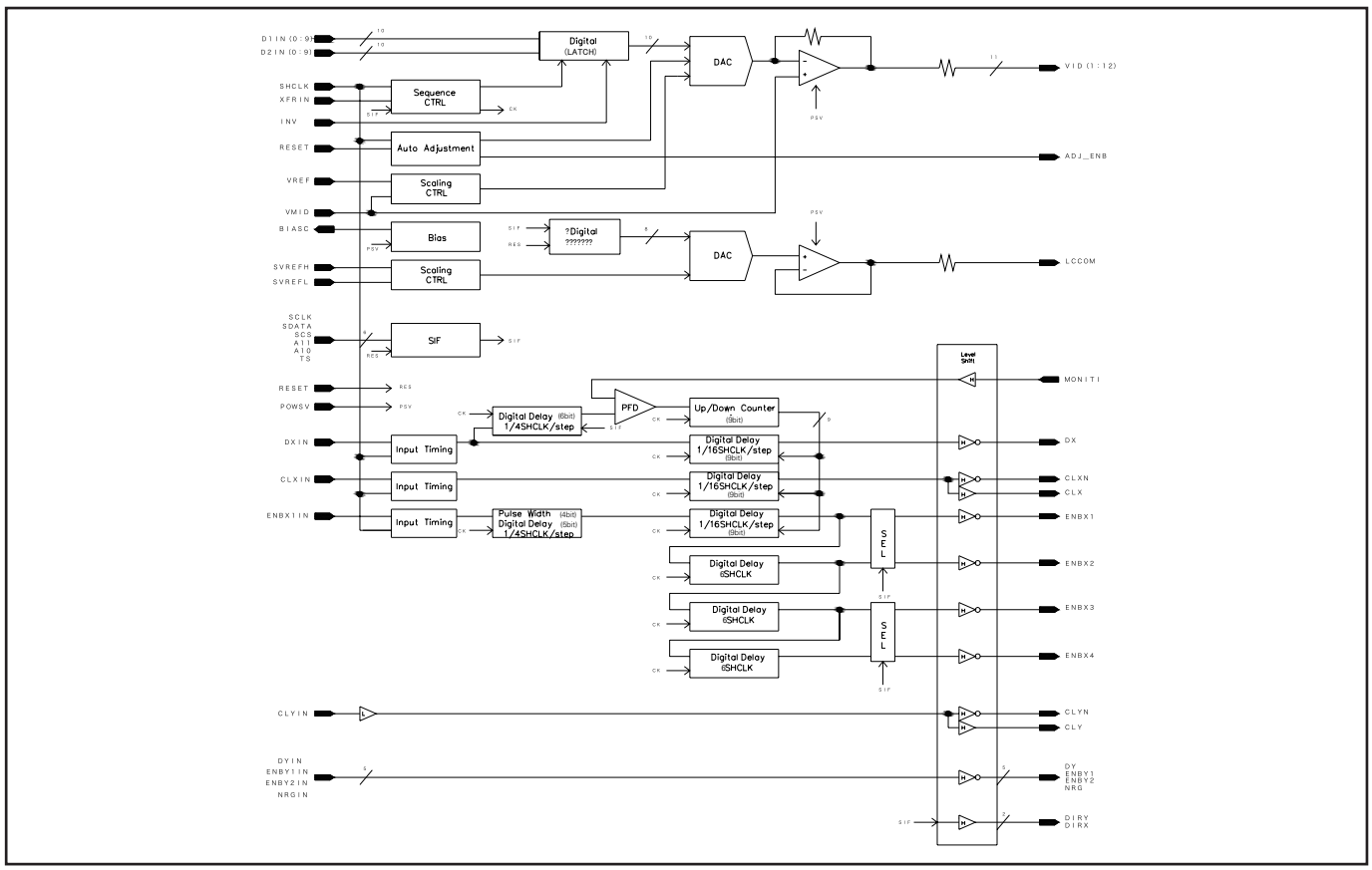
● FA7701<DDC Control, IC7841>



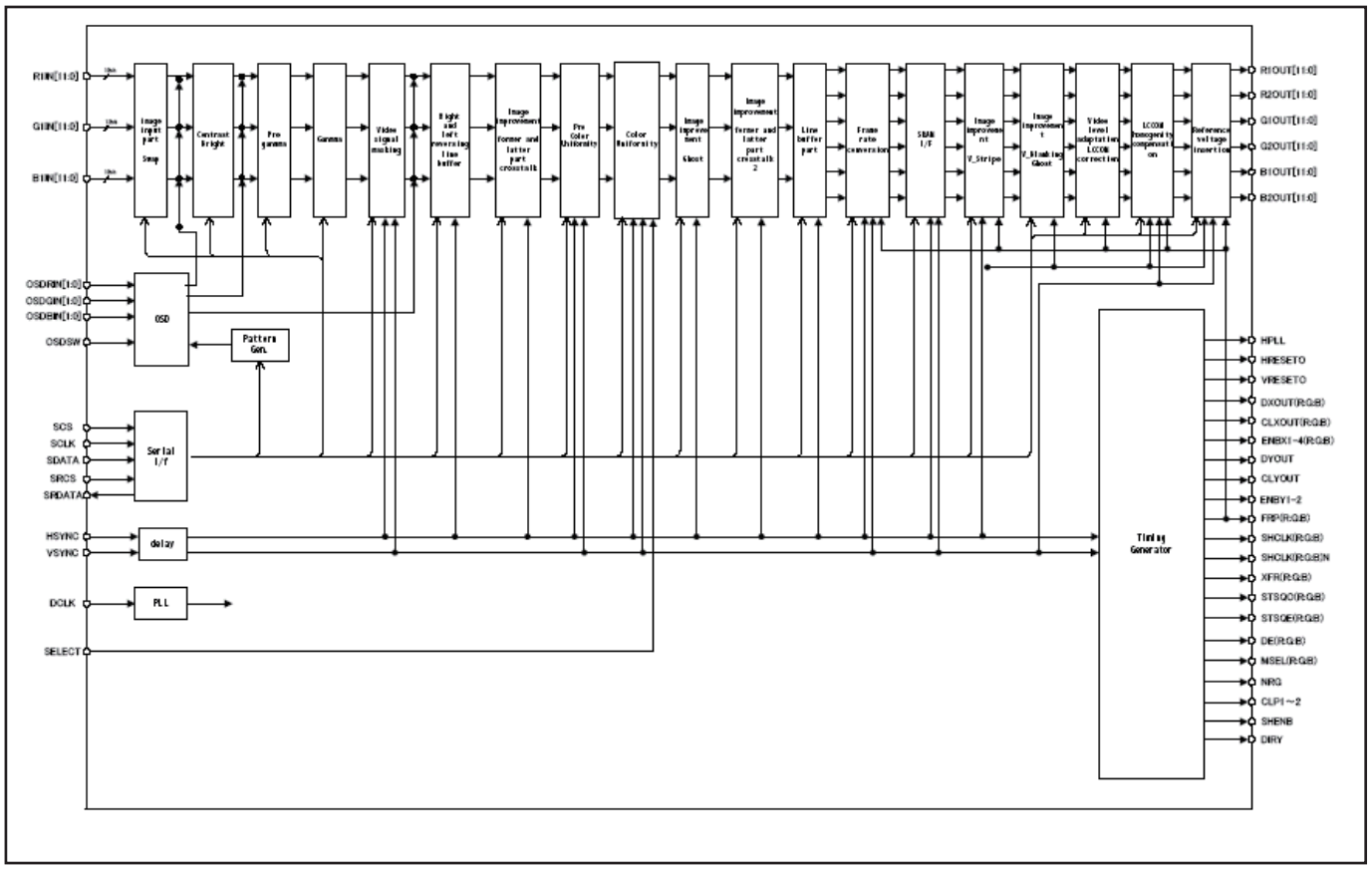
● FA5550N <MS6N1193, IC621>



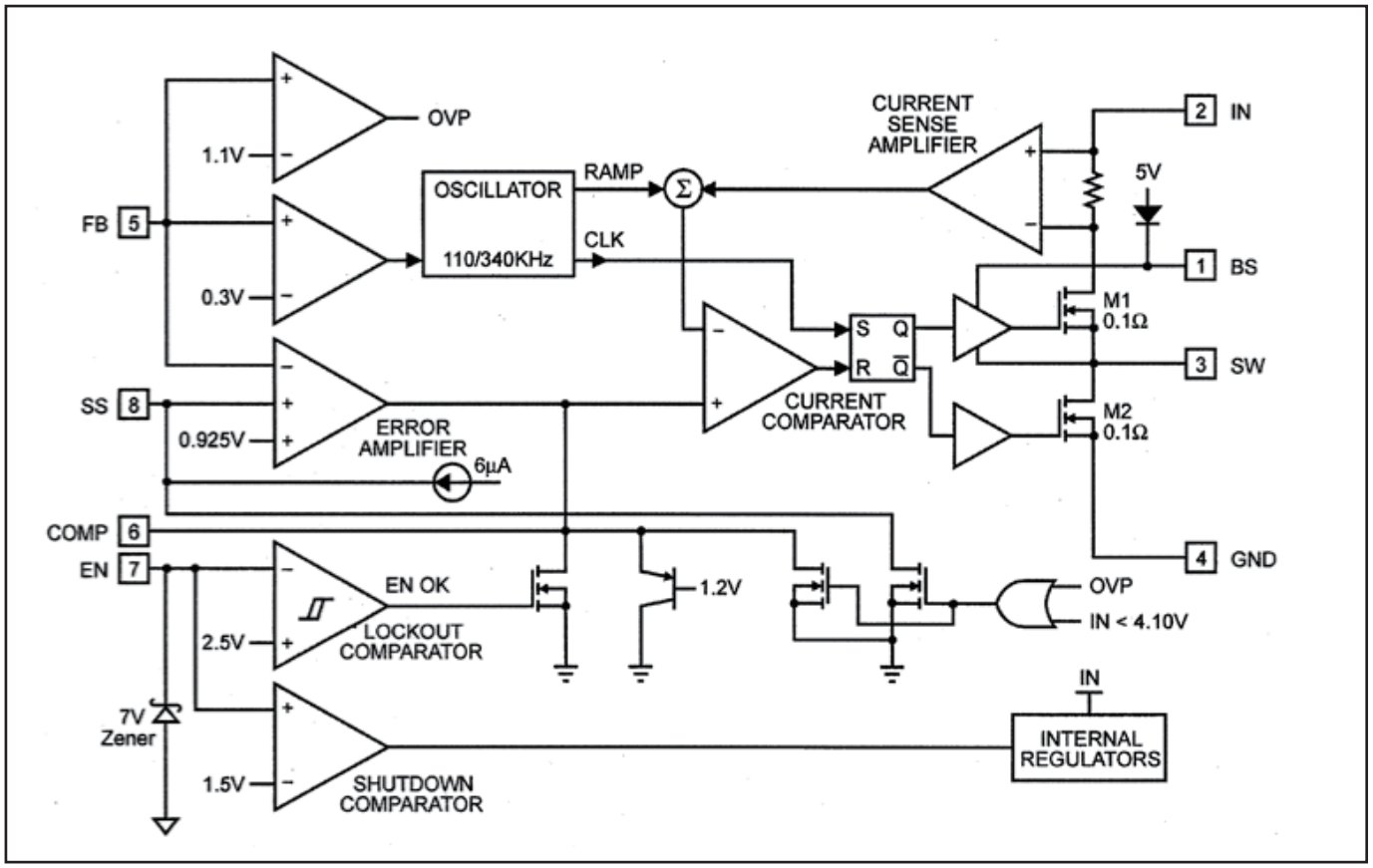
● L3E06170 <LCD Driver, IC501, IC531, IC561>



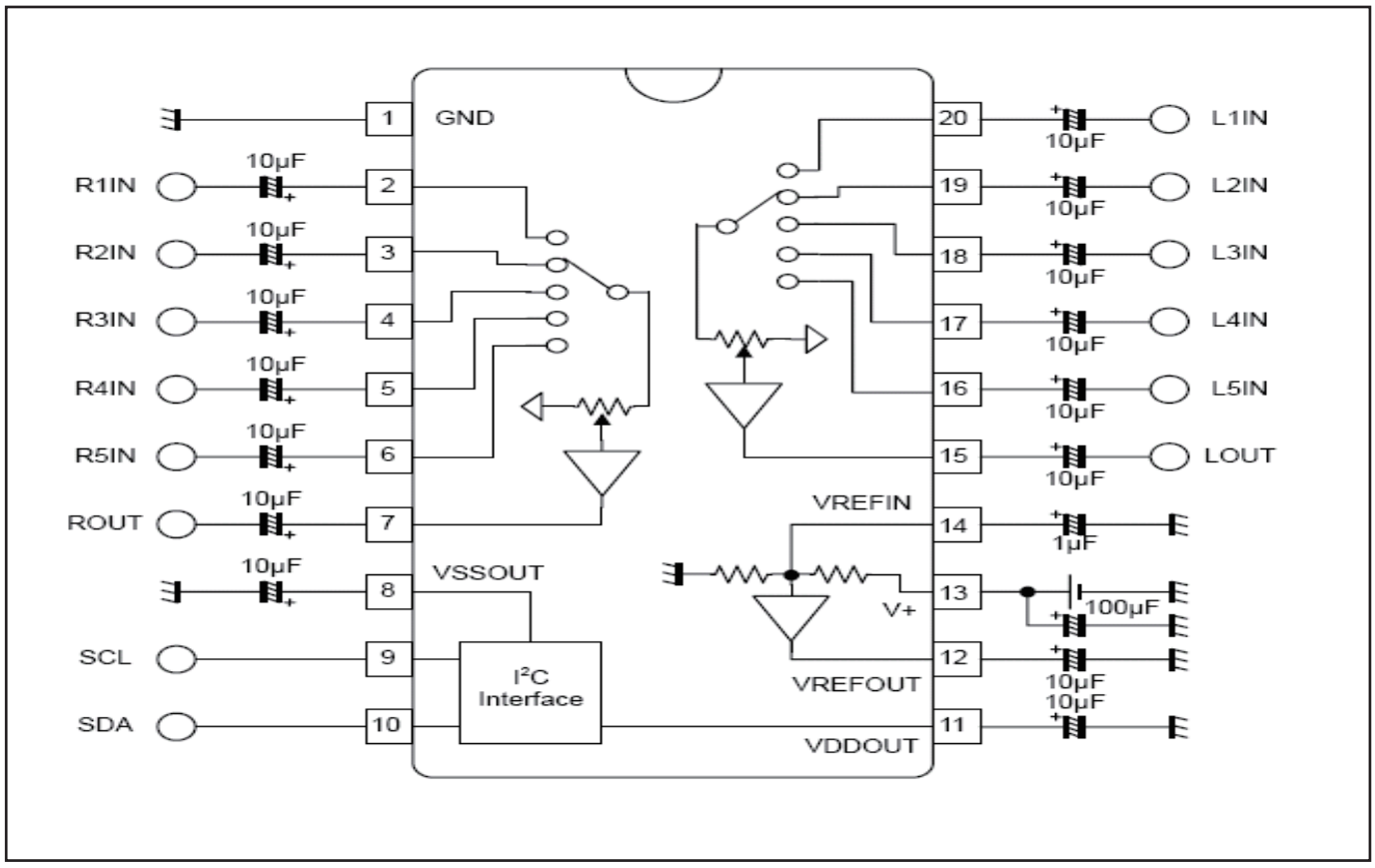
● L3E07111 <LCD Driver & Gamma Correction, IC401>



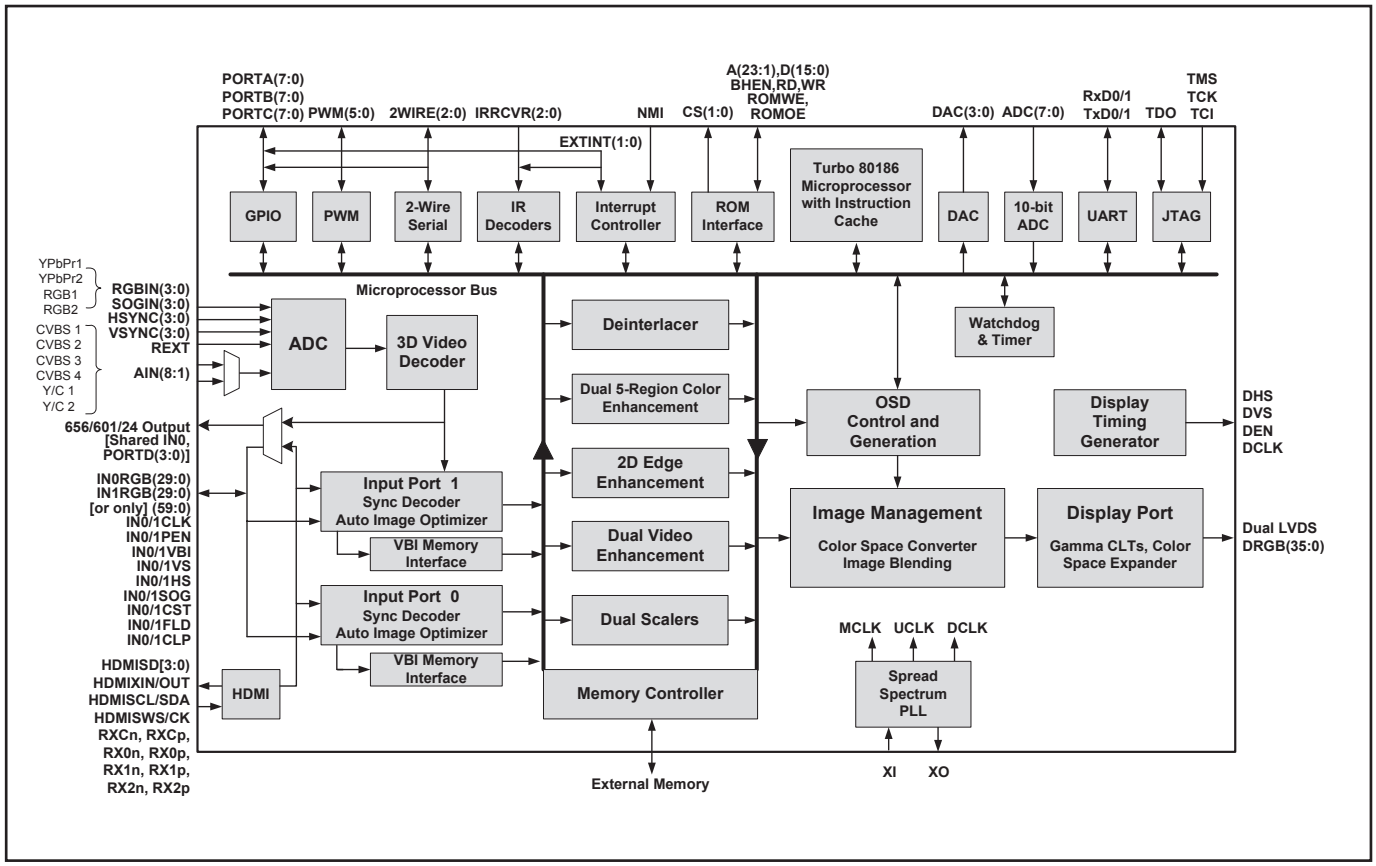
● MP2307DN <DC-DC Conventer, IC5842>



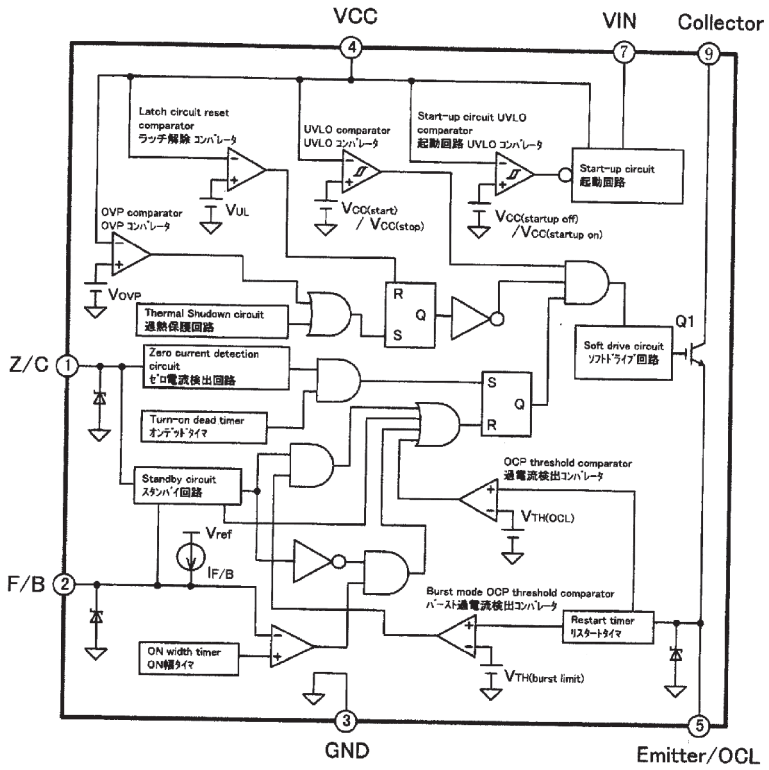
● NJW1156 <Audio Control, IC5001>



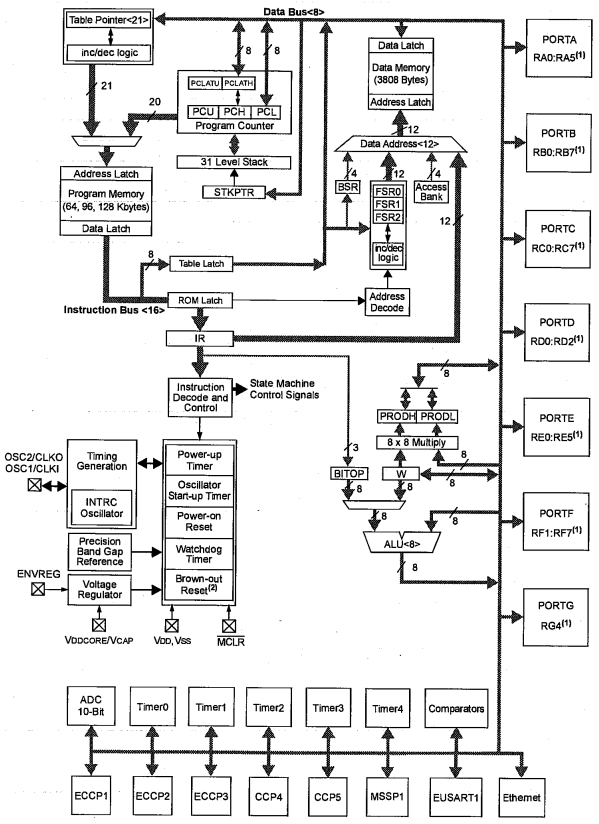
● PW392 <Scaler, IC301>



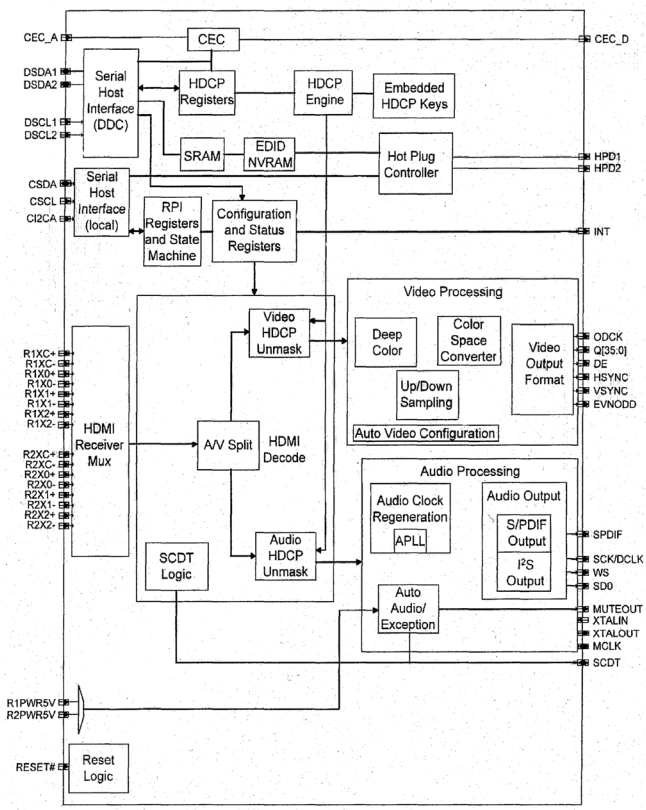
● MR4010 <Power OSC, IC631>



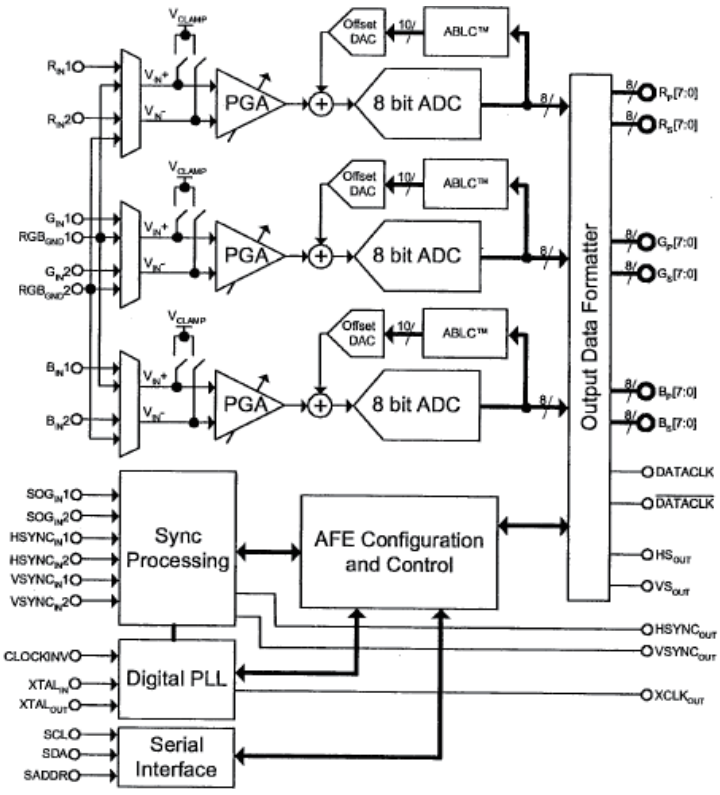
● PIC18F67J60<LAN CONTROL,IC8801>



● Sil9127 <HDMI Receiver, IC8001>



● ISL98001 <External ADC, IC2201>



Electrical Parts List

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

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	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%

Rated value: P=pico farad, U=micro farad

Material:

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

RESISTOR CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:
A: General B: Non flammable Z: Low noise
Other: Temperature coefficient

T: ±10ppm/°C	U: ±25ppm/°C	C: ±50ppm/°C
D: ±100ppm/°C	E: ±200ppm/°C	F: ±250ppm/°C
G: ±350ppm/°C	H: ±1000ppm/°C±10%	W: ±1200ppm/°C±10%
Y: ±1400ppm/°C±10%	J: ±2000ppm/°C±10%	K: ±2400ppm/°C±10%
L: ±2700ppm/°C±10%	M: ±3000ppm/°C±10%	N: ±3300ppm/°C±10%
P: ±3600ppm/°C±10%	Q: ±3900ppm/°C±10%	R: ±4200ppm/°C±10%
S: ±4300ppm/°C±10%	V: ±4500ppm/°C±10%	X: ±8000ppm/°C±10%

Tolerance Symbols:
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: 0 ohm

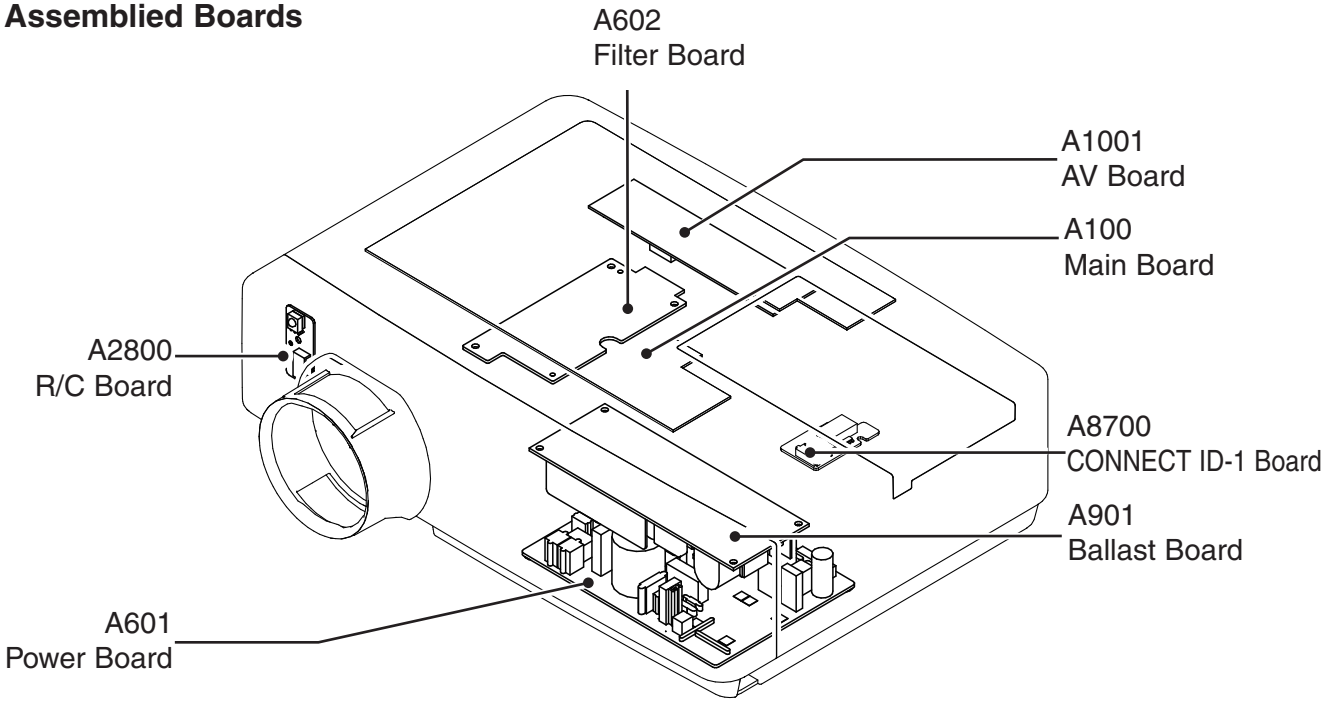
Rated value, ohms:
K: 1,000, M: 1,000,000

Material:

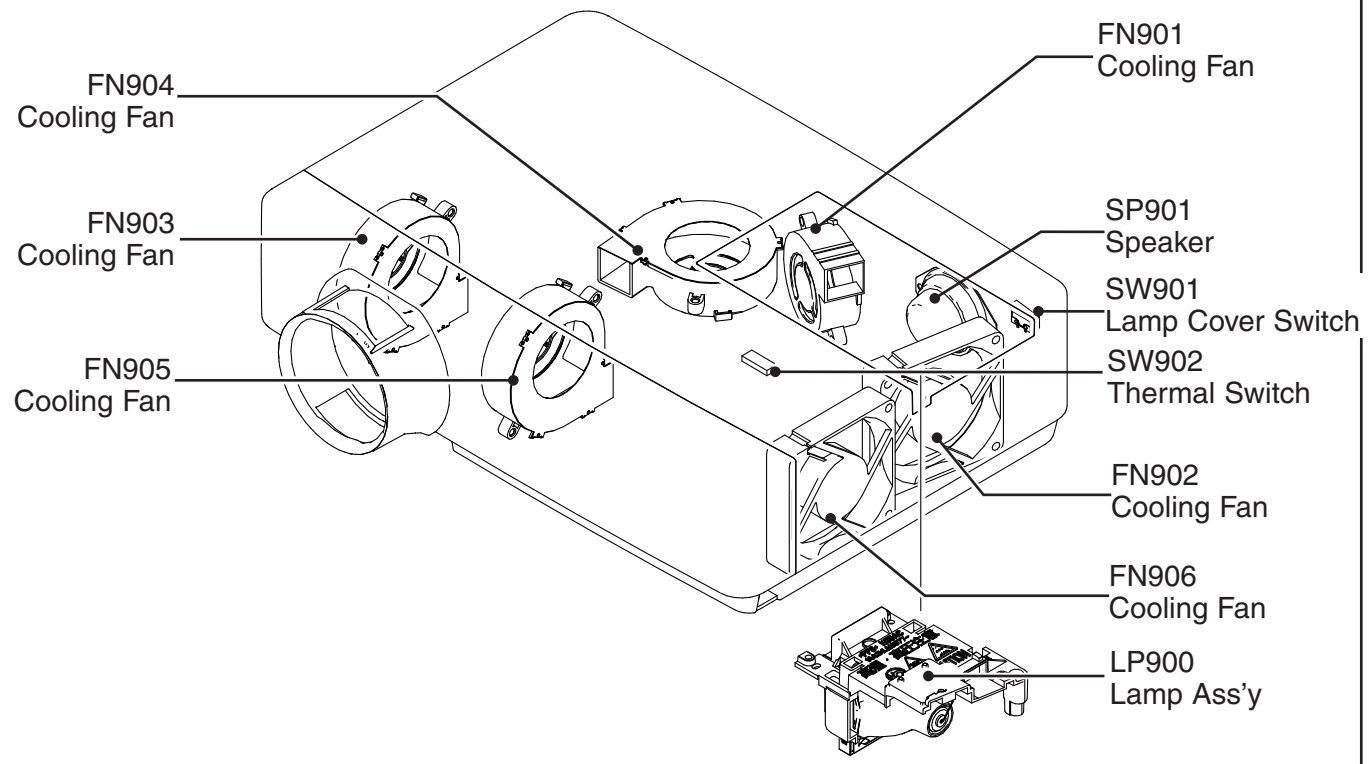
CARBON	Carbon
MT-FILM	Metal Film
OXIDE-MT	Oxide Metal Film
SOLID	Composition
MT-GLAZE	Metal Glaze
WIRE WOUND	Wire Wound
CERAMIC RES.	Ceramic
FUSIBLE RES.	Fusible
RESISTOR	Other

Electrical Parts Location

● **Assemblied Boards**



● Out Of Circuit Board



Electrical Parts List

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

Key No.	Part No.	Description

ASSEMBLED BOARDS

⚠A601	655 002 9355	ASSY,PWB,POWER KE5AC
⚠A602	655 002 9348	ASSY,PWB,FILTER KE5AC
⚠A100	655 002 9461	ASSY,PWB,MAIN KE5AC
⚠A1001	655 002 9454	ASSY,PWB,AV KE5AC
⚠A2800	655 002 9447	ASSY,PWB,R/C KE5AC
⚠A8700	655 002 9430	ASSY,PWB,ID CONNECT-1 KE5AC

OUT OF CIRCUIT BOARD

L601	945 033 2228	FERRITE
⚠LP900	610 343 2069	POA-LMP131
⚠A901	645 099 2575	BALLAST
⚠A901A	610 344 5335	CABLE,BALLAST KG5AC
⚠FN901	645 099 5217	MOTOR,BLW DC 1.92W
⚠FN902	645 099 6160	MOTOR,FAN DC 3.36W
⚠FN903	645 099 6832	MOTOR,BLW DC 3.0W
⚠FN904	645 099 6849	MOTOR,BLW DC 3.0W
⚠FN905	645 099 6832	MOTOR,BLW DC 3.0W
⚠FN906	645 099 6856	MOTOR,FAN DC 3.36W
⚠SP901	652 002 6445	SPEAKER,8
⚠SW901	645 097 3925	SWITCH,MICRO 1P-2T
⚠SW902	652 002 8852	THERMAL

655 002 9355 ASSY,PWB,POWER KE5AC

TRANSISTOR

Q611	305 146 6405	TR 2SK2837
Q641	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
Q642	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
Q643	305 217 6600	TR 2SK3934
Q651	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

INTEGRATED CIRCUIT

IC621	409 690 7918	IC FA5550N
IC631	309 653 7405	IC MR4010-7101
IC671	409 692 2515	IC TA76L431FB

CAPACITOR

C611	303 222 1326	CERAMIC	1000P K	1K
	304 084 6300	CERAMIC	1000P K	1K
C612	303 222 1326	CERAMIC	1000P K	1K
	304 084 6300	CERAMIC	1000P K	1K
C613	303 451 4119	MT-POLYEST	1U K	450V
C614	303 451 4119	MT-POLYEST	1U K	450V
C615	404 118 3609	ELECT	150U M	420V
C621	303 336 3510	CERAMIC	0.47U K	16V
C622	304 091 4504	CERAMIC	0.047U K	50V
C623	304 090 1207	CERAMIC	0.01U K	50V
C625	304 090 1207	CERAMIC	0.01U K	50V
C626	303 396 9613	CERAMIC	1U K	25V
C627	304 091 3309	CERAMIC	2200P K	50V
C631	303 157 4215	CERAMIC	220P J	50V
C632	404 111 2401	CERAMIC	680P K	2K
C633	303 265 3216	CERAMIC	1000P J	50V
C634	304 091 3309	CERAMIC	2200P K	50V
C641	304 091 2609	CERAMIC	0.1U K	50V
C644	303 417 9912	CERAMIC	4.7U K	25V
C651	304 097 0005	ELECT	100U M	25V
C653	303 367 0410	CERAMIC	0.1U K	50V
	303 370 1510	CERAMIC	0.1U K	50V
C661	303 445 4415	ELECT	1800U M	25V
C662	303 367 0410	CERAMIC	0.1U K	50V
	304 091 2609	CERAMIC	0.1U K	50V
C663	303 367 0410	CERAMIC	0.1U K	50V
	304 091 2609	CERAMIC	0.1U K	50V
C664	303 429 6718	ELECT	1500U M	10V
C665	303 409 9913	ELECT	470U M	16V
C671	304 091 2609	CERAMIC	0.1U K	50V
⚠C691	304 073 4508	CERAMIC	2200P K	250V
⚠C692	304 073 4508	CERAMIC	2200P K	250V

RESISTOR

R611	401 353 0311	MT-GLAZE	430K JA	1/3W
R612	401 353 0212	MT-GLAZE	360K JA	1/3W
R613	301 256 6314	MT-GLAZE	47K JA	1/10W
R614	302 106 5508	RESISTER	0.075 KB	5W
R615	301 188 3313	MT-GLAZE	680K JA	1/4W
R616	301 188 3313	MT-GLAZE	680K JA	1/4W
R621	301 265 5711	MT-GLAZE	8.2K FA	1/10W
R622	301 264 9215	MT-GLAZE	330 FA	1/10W
R624	301 162 2912	MT-GLAZE	220 JA	1/10W
R625	301 256 5614	MT-GLAZE	47 JA	1/10W
R626	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R627	301 150 5918	MT-GLAZE	10K JA	1/10W
R628	301 150 5918	MT-GLAZE	10K JA	1/10W
R629	301 255 7312	MT-GLAZE	510K JA	1/10W
R631	301 255 7718	MT-GLAZE	11K JA	1/10W
R633	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R634	301 256 1715	MT-GLAZE	33K JA	1/10W
R635	302 099 6308	OXIDE-MT	0.39JA	1W
R636	301 162 3018	MT-GLAZE	22K JA	1/10W
R641	301 150 5918	MT-GLAZE	10K JA	1/10W
R642	301 256 6611	MT-GLAZE	68K JA	1/10W
R643	301 150 5918	MT-GLAZE	10K JA	1/10W
R644	301 150 5918	MT-GLAZE	10K JA	1/10W
R646	301 256 7212	MT-GLAZE	18K JA	1/10W
R647	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R648	301 256 7212	MT-GLAZE	18K JA	1/10W
R651	301 150 5918	MT-GLAZE	10K JA	1/10W
R652	301 292 1915	MT-GLAZE	22 FA	1/2W
R662	301 152 3219	MT-GLAZE	330 JA	1/10W
R671	301 256 7618	MT-GLAZE	3.9K JA	1/10W
R672	301 150 6212	MT-GLAZE	1K JA	1/10W
R673	301 264 2919	MT-GLAZE	12K FA	1/10W
R674	301 264 7518	MT-GLAZE	2.7K FA	1/10W

Electrical Parts List

Key No.	Part No.	Description
R675	301 162 3711	MT-GLAZE 4.7K JA 1/10W
R676	301 264 2810	MT-GLAZE 1.2K FA 1/10W
R683	301 265 0211	MT-GLAZE 390 FA 1/10W
R684	301 264 9314	MT-GLAZE 3.3K FA 1/10W
VARIABLE RESISTOR		
VR621	645 095 2579	VR,SEMI,1K N
TRANSFORMER		
⚠T651	645 097 6483	TRANS,POWER,PULSE
COIL		
L612	945 084 0273	INDUCTOR,1400U
L613	910 244 3975	CORE
L614	910 244 3975	CORE
L661	910 244 3975	CORE
L662	910 244 3975	CORE
L663	945 041 1978	INDUCTOR,330 OHM
DIODE		
D611	307 191 3903	DIODE FML-G16S
D611D	645 098 1715	FERRITE
D611E	645 098 1715	FERRITE
D613	307 149 0810	DIODE 1SS355-TE-17
D631	307 149 0810	DIODE 1SS355-TE-17
D632	307 247 8827	DIODE RF101L2S
D633	307 146 8116	DIODE EG01C
D651	307 247 8827	DIODE RF101L2S
D661	407 261 9504	DIODE YG862C10R
D662	307 222 9607	DIODE FMB-2306
	307 202 9801	DIODE FMB-26L
	307 253 7504	DIODE RB085T-60
	307 250 2403	DIODE RB225T-60
D663	307 247 8827	DIODE RF101L2S
	307 190 4119	DIODE SFPL-52V
D664	307 210 5416	DIODE RB551V-30-TE-17
DB611	307 202 7708	DIODE D10XB60
MISCELLANEOUS		
⚠F631	324 006 1305	FUSE 250V 2.5A
Q611F	645 098 1715	FERRITE
	645 098 0473	72UH
	910 078 5954	3.2X4.5X0.8
⚠PC661	307 223 7315	PC TLP421F(D4-GB-TP4)
	307 223 8312	PC TLP421F(D4-GR-TP4)
	407 265 7813	PC TLP781F(D4-GB-TP7)
PC663	307 223 7315	PC TLP421F(D4-GB-TP4)
	307 223 8312	PC TLP421F(D4-GR-TP4)
	407 265 7813	PC TLP781F(D4-GB-TP7)
⚠PC671	307 223 7315	PC TLP421F(D4-GB-TP4)
	307 223 8312	PC TLP421F(D4-GR-TP4)
	407 265 7813	PC TLP781F(D4-GB-TP7)
PTH611	308 037 5501	THERMISTOR NTPDB5R0LDHB0
PTH641	408 062 4606	TH PRF18BD471QB1RB
ZD631	307 206 5413	ZD UDZS-TE-178.2B

655 002 9348 ASSY,PWB,FILTER KE5AC

CAPACITOR		
⚠C601	404 117 6403	MT-POLYEST 1U K 275V
	404 117 8902	MT-POLYEST 1U K 310V
⚠C602	404 117 6403	MT-POLYEST 1U K 275V
	404 117 8902	MT-POLYEST 1U K 310V
⚠C603	304 073 3907	CERAMIC 1000P K 250V
⚠C604	304 073 3907	CERAMIC 1000P K 250V
RESISTOR		
⚠R601	301 287 5416	MT-GLAZE 200K JA 1W
⚠R602	301 287 5416	MT-GLAZE 200K JA 1W
VARIABLE RESISTOR		
⚠VA601	407 255 6304	VARISTOR MYG3-14K300ZT
	408 061 9701	VARISTOR S14K300E2S5M4,2
COIL		
⚠LF601	645 093 1765	SOCKET,INLET AC 3P
⚠L601	645 099 6825	LINE FILTER
MISCELLANEOUS		
⚠F601	423 034 4101	FUSE 250V 6.3A
	323 021 7804	FUSE 250V 6.3A

655 002 9461 ASSY,PWB,MAIN KE5AC

TRANSISTOR		
Q036	406 021 7804	TR 2SC4617
Q037	406 021 7804	TR 2SC4617
Q1001	406 021 7804	TR 2SC4617
Q1002	406 021 7804	TR 2SC4617
Q1003	305 217 7815	TR HN1B04FE-Y TE85L
Q1004	305 217 7815	TR HN1B04FE-Y TE85L
Q1005	406 021 7804	TR 2SC4617
Q1006	305 217 7815	TR HN1B04FE-Y TE85L
Q1007	406 021 7804	TR 2SC4617
Q1008	406 021 7804	TR 2SC4617
Q1062	406 021 7804	TR 2SC4617
Q1421	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
Q1422	406 021 7804	TR 2SC4617
Q2011	406 021 7804	TR 2SC4617
Q2021	406 021 7804	TR 2SC4617
Q2031	406 021 7804	TR 2SC4617
Q3051	406 021 7804	TR 2SC4617
Q3582	305 217 6917	TR TPC6107 TE85L
Q3601	406 021 7804	TR 2SC4617
Q366	305 191 5814	TR 3LN01C-TB-E
Q4012	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	305 217 7815	TR HN1B04FE-Y TE85L
Q5031	406 021 7804	TR 2SC4617
Q5032	406 021 7804	TR 2SC4617
Q5035	405 221 7914	TR HN1C01FE-Y
Q5061	406 021 7804	TR 2SC4617
Q5062	406 021 7804	TR 2SC4617
Q5063	406 021 7804	TR 2SC4617
Q5064	406 021 7804	TR 2SC4617
Q5081	406 021 7804	TR 2SC4617
Q5082	406 021 7804	TR 2SC4617
Q5306	406 021 7804	TR 2SC4617
Q5331	305 217 7815	TR HN1B04FE-Y TE85L
Q5332	305 217 7815	TR HN1B04FE-Y TE85L
Q5336	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

Electrical Parts List

Key No.	Part No.	Description
	405 220 3016	TR ISA1235AC1F
Q5700	305 217 7815	TR HN1B04FE-Y TE85L
Q5701	305 174 1819	TR CPH3424-TL-E
Q5751	305 217 6917	TR TPC6107 TE85L
Q5752	406 021 7804	TR 2SC4617
Q5828	406 021 7804	TR 2SC4617
Q5830	305 217 6917	TR TPC6107 TE85L
Q5840	406 021 7804	TR 2SC4617
Q6844	405 221 7914	TR HN1C01FE-Y
Q6845	405 221 7914	TR HN1C01FE-Y
Q691	406 021 7804	TR 2SC4617
Q7801	405 221 7914	TR HN1C01FE-Y
Q7802	405 221 7914	TR HN1C01FE-Y
Q7803	406 021 7804	TR 2SC4617
Q7804	305 047 9010	TR 2SB1204-S-TL-E
Q7812	305 217 8515	TR RSQ025P03-TR
Q7813	305 217 7815	TR HN1B04FE-Y TE85L
Q7842	305 217 8515	TR RSQ025P03-TR
Q7844	305 217 7815	TR HN1B04FE-Y TE85L
Q7862	305 217 8515	TR RSQ025P03-TR
Q7864	305 217 7815	TR HN1B04FE-Y TE85L
Q8301	406 021 7804	TR 2SC4617
Q8302	406 021 7804	TR 2SC4617
Q9602	305 211 1918	TR RJU002N06
Q9603	305 211 1918	TR RJU002N06
Q9604	305 211 1918	TR RJU002N06
Q9631	406 021 7804	TR 2SC4617
Q9632	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
Q9641	406 021 7804	TR 2SC4617
Q9642	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
INTEGRATED CIRCUIT		
IC001	409 691 0413	IC TPA3123D2PWPR
IC1031	309 039 7817	IC NJM4558M-TE2
IC1051	409 697 3913	IC LE24C023M-TLM-E
IC1301	410 643 4400	IC EDD2516AETA-5B-E
IC1321	410 643 4400	IC EDD2516AETA-5B-E
IC1341	410 647 7902	IC MCP103T-300
IC1351	310 479 4004	IC TC7WBD125AFK
IC1391	410 656 8600	IC 24AA64T-I/MS
IC1422	309 431 4424	IC M62334FP-DF5Q
IC1424	410 666 5804	IC UPC358GR-9LG-E1-A
IC1501	410 643 5100	IC PQ070XNB1ZPH
IC2201	310 587 8703	IC ISL98001CQZ-140
IC301	409 686 5317	IC PW392C-30L
IC302	309 487 5727	IC TC7SZ125FU
IC3801	309 652 0714	IC HIN202EIBNZ-T
IC3852	309 246 9710	IC LA6358NM-TE-L-E
IC4001	409 677 4619	IC EL5308IUZ
IC4701	309 428 8428	IC TC7WT125FU-TE12L
IC4891	309 395 5915	IC TC7SH00FU-(TE85L)
IC5001	409 683 5716	IC NJW1156AV
IC5301	310 348 7402	IC TC74LCX125FT(EL)
IC5542	410 656 8501	IC XC6216BC02MR
IC5543	410 656 8501	IC XC6216BC02MR
IC5601	409 685 9415	IC MP2307DN
IC5602	309 578 6210	IC PQ1M505M2SPQ
IC5621	410 651 0104	IC R1131D101B-TR-F
IC5842	409 685 9415	IC MP2307DN
IC5851	410 643 5100	IC PQ070XNB1ZPH
IC5860	409 685 9415	IC MP2307DN
IC592	309 461 7822	IC PQ20WZ11
IC7811	309 675 1316	IC FA7703V-H1
IC7841	309 531 6229	IC FA7701V-TE1
IC8001	409 698 5510	IC SII9127ACTU
IC801	410 691 8504	IC M29W640FT70N6EKE5AC
IC8081	310 595 8009	IC PQ1LAX95MSPQ
IC8091	410 643 5100	IC PQ070XNB1ZPH
IC8801	410 688 9507	IC PIC18F67J60-I/PT-KE5AC
IC8802	410 656 8600	IC 24AA64T-I/MS
IC8803	410 681 7302	IC M25P10-AVMN6TP
IC9883	309 487 5727	IC TC7SZ125FU
CAPACITOR		
C001	303 396 5516	ELECT 470U M 16V
C002	303 378 1611	ELECT 470U M 16V
C003	303 336 3510	CERAMIC 0.47U K 16V
	304 110 9800	CERAMIC 0.47U K 16V
C004	303 396 9613	CERAMIC 1U K 25V
	303 397 7618	CERAMIC 1U K 25V
C005	303 396 9613	CERAMIC 1U K 25V
	303 397 7618	CERAMIC 1U K 25V
C006	303 396 9613	CERAMIC 1U K 25V
	303 397 7618	CERAMIC 1U K 25V
C007	303 336 3510	CERAMIC 0.47U K 16V
	304 110 9800	CERAMIC 0.47U K 16V
C008	303 396 9613	CERAMIC 1U K 25V
	303 397 7618	CERAMIC 1U K 25V
C010	303 281 2415	CERAMIC 0.22U K 16V
C011	403 455 1616	CERAMIC 10U K 16V
C012	303 336 3510	CERAMIC 0.47U K 16V
	304 110 9800	CERAMIC 0.47U K 16V
C013	303 396 9613	CERAMIC 1U K 25V
	303 397 7618	CERAMIC 1U K 25V
C014	303 396 9613	CERAMIC 1U K 25V
	303 397 7618	CERAMIC 1U K 25V
C015	303 281 2415	CERAMIC 0.22U K 16V
C039	303 454 0613	CERAMIC 0.01U K 50V
	303 441 9810	CERAMIC 0.01U K 50V
C041	303 454 0613	CERAMIC 0.01U K 50V
	303 441 9810	CERAMIC 0.01U K 50V
C1000	403 461 3710	CERAMIC 0.1U Z 25V
	303 454 0514	CERAMIC 0.1U Z 25V
C1001	303 384 4712	TA-SOLID 47U M 6.3V
C1002	303 398 3312	ELECT 47U M 10V
	303 387 6119	ELECT 47U M 10V
C1003	303 381 5316	ELECT 100U M 16V
C1004	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1005	303 396 9613	CERAMIC 1U K 25V
	303 397 7618	CERAMIC 1U K 25V
C1006	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1007	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1008	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1009	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C1012	303 453 8917	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V	C1502	303 368 7319	CERAMIC	10U K	6.3V
C1016	303 369 0527	CERAMIC	0.01U K	25V	C1503	303 394 9318	ELECT	220U M	6.3V
C1019	303 453 8917	CERAMIC	0.1U K	16V		303 387 5112	ELECT	220U M	6.3V
	303 453 8610	CERAMIC	0.1U K	16V	C1504	303 394 9318	ELECT	220U M	6.3V
	303 409 3426	CERAMIC	0.1U K	16V		303 387 5112	ELECT	220U M	6.3V
C1034	303 194 5312	ELECT	33U M	16V	C1506	303 409 3426	CERAMIC	0.1U K	16V
C1041	303 453 8917	CERAMIC	0.1U K	16V	C1507	303 409 3426	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V	C1872	403 455 1012	CERAMIC	1U K	10V
	303 409 3426	CERAMIC	0.1U K	16V		303 433 1112	CERAMIC	1U K	10V
C1049	303 453 8917	CERAMIC	0.1U K	16V	C2002	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C1092	303 358 3215	CERAMIC	10U K	6.3V	C2003	303 384 4712	TA-SOLID	47U M	6.3V
	303 370 0018	CERAMIC	10U K	6.3V		303 449 1212	POS-SOLID	47U M	6.3V
	303 368 7319	CERAMIC	10U K	6.3V	C2004	303 358 3215	CERAMIC	10U K	6.3V
C1103	303 409 3426	CERAMIC	0.1U K	16V		303 370 0018	CERAMIC	10U K	6.3V
C1105	303 453 8917	CERAMIC	0.1U K	16V		303 368 7319	CERAMIC	10U K	6.3V
	303 453 8610	CERAMIC	0.1U K	16V	C2011	303 453 8917	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C1301	303 383 5215	CERAMIC	4.7U K	6.3V		303 409 3426	CERAMIC	0.1U K	16V
C1302	303 409 3426	CERAMIC	0.1U K	16V	C2012	303 453 8917	CERAMIC	0.1U K	16V
C1303	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C1304	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C1306	303 409 3426	CERAMIC	0.1U K	16V	C2021	303 358 3215	CERAMIC	10U K	6.3V
C1307	303 409 3426	CERAMIC	0.1U K	16V		303 370 0018	CERAMIC	10U K	6.3V
C1308	303 409 3426	CERAMIC	0.1U K	16V		303 368 7319	CERAMIC	10U K	6.3V
C1309	303 409 3426	CERAMIC	0.1U K	16V	C2022	303 453 8917	CERAMIC	0.1U K	16V
C1311	303 409 3426	CERAMIC	0.1U K	16V		303 453 8610	CERAMIC	0.1U K	16V
C1312	303 409 3426	CERAMIC	0.1U K	16V		303 409 3426	CERAMIC	0.1U K	16V
C1313	303 409 3426	CERAMIC	0.1U K	16V	C2201	303 409 3426	CERAMIC	0.1U K	16V
C1321	303 383 5215	CERAMIC	4.7U K	6.3V	C2202	303 409 3426	CERAMIC	0.1U K	16V
C1322	303 409 3426	CERAMIC	0.1U K	16V	C2203	303 409 3426	CERAMIC	0.1U K	16V
C1323	303 409 3426	CERAMIC	0.1U K	16V	C2204	303 409 3426	CERAMIC	0.1U K	16V
C1324	303 409 3426	CERAMIC	0.1U K	16V	C2206	303 409 3426	CERAMIC	0.1U K	16V
C1326	303 409 3426	CERAMIC	0.1U K	16V	C2207	303 409 3426	CERAMIC	0.1U K	16V
C1327	303 409 3426	CERAMIC	0.1U K	16V	C2208	303 409 3426	CERAMIC	0.1U K	16V
C1328	303 409 3426	CERAMIC	0.1U K	16V	C2211	303 409 3426	CERAMIC	0.1U K	16V
C1329	303 409 3426	CERAMIC	0.1U K	16V	C2212	303 409 3426	CERAMIC	0.1U K	16V
C1331	303 409 3426	CERAMIC	0.1U K	16V	C2213	303 409 3426	CERAMIC	0.1U K	16V
C1333	303 409 3426	CERAMIC	0.1U K	16V	C2214	303 441 9810	CERAMIC	0.01U K	50V
C1334	303 409 3426	CERAMIC	0.1U K	16V	C2216	303 441 9810	CERAMIC	0.01U K	50V
C1341	303 409 3426	CERAMIC	0.1U K	16V	C2217	303 441 9810	CERAMIC	0.01U K	50V
C1342	303 441 9810	CERAMIC	0.01U K	50V	C2218	303 441 9810	CERAMIC	0.01U K	50V
C1343	303 453 8511	CERAMIC	1000P K	50V	C2219	303 409 3426	CERAMIC	0.1U K	16V
	303 454 1214	CERAMIC	1000P K	50V	C2221	303 409 3426	CERAMIC	0.1U K	16V
	303 276 1317	CERAMIC	1000P K	50V	C2222	303 409 3426	CERAMIC	0.1U K	16V
C1344	303 392 1215	ELECT	47U M	6.3V	C2223	303 409 3426	CERAMIC	0.1U K	16V
	303 387 5310	ELECT	47U M	6.3V	C2224	303 145 9918	CERAMIC	22P J	50V
C1355	303 409 3426	CERAMIC	0.1U K	16V	C2226	303 145 9918	CERAMIC	22P J	50V
C1391	303 409 3426	CERAMIC	0.1U K	16V	C2227	303 409 3426	CERAMIC	0.1U K	16V
C1421	403 455 1012	CERAMIC	1U K	10V	C2228	303 409 3426	CERAMIC	0.1U K	16V
	303 433 1112	CERAMIC	1U K	10V	C2229	303 409 3426	CERAMIC	0.1U K	16V
C1422	303 409 3426	CERAMIC	0.1U K	16V	C2231	303 358 3215	CERAMIC	10U K	6.3V
C1423	303 409 3426	CERAMIC	0.1U K	16V		303 368 7319	CERAMIC	10U K	6.3V
C1424	303 409 3426	CERAMIC	0.1U K	16V	C2232	303 409 3426	CERAMIC	0.1U K	16V
C1427	303 409 3426	CERAMIC	0.1U K	16V	C2233	303 409 3426	CERAMIC	0.1U K	16V
C1428	303 409 3426	CERAMIC	0.1U K	16V	C2234	303 409 3426	CERAMIC	0.1U K	16V
C1429	303 409 3426	CERAMIC	0.1U K	16V	C2236	303 409 3426	CERAMIC	0.1U K	16V
C1431	303 409 3426	CERAMIC	0.1U K	16V	C2237	303 409 3426	CERAMIC	0.1U K	16V
C1432	403 467 0911	CERAMIC	0.1U K	25V	C2238	303 409 3426	CERAMIC	0.1U K	16V
C1441	303 401 3810	ELECT	10U M	25V	C2239	303 409 3426	CERAMIC	0.1U K	16V
	303 424 1510	ELECT	10.0U M	25V	C2241	303 409 3426	CERAMIC	0.1U K	16V
C1442	303 396 9613	CERAMIC	1U K	25V	C2243	303 409 3426	CERAMIC	0.1U K	16V
	303 397 7618	CERAMIC	1U K	25V	C2312	303 381 5316	ELECT	100U M	16V
C1501	303 453 8917	CERAMIC	0.1U K	16V	C2314	303 401 3810	ELECT	10U M	25V

Electrical Parts List

Key No.	Part No.	Description		
	303 424 1510	ELECT	10.0U M	25V
C2891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2892	303 453 7217	CERAMIC	47P J	50V
	303 454 1610	CERAMIC	47P J	50V
	303 305 8812	CERAMIC	47P J	50V
C301	303 409 3426	CERAMIC	0.1U K	16V
C302	303 409 3426	CERAMIC	0.1U K	16V
C303	303 409 3426	CERAMIC	0.1U K	16V
C304	303 409 3426	CERAMIC	0.1U K	16V
C3052	303 372 7510	CERAMIC	2.2U K	6.3V
C3053	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C306	303 409 3426	CERAMIC	0.1U K	16V
C307	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C308	303 409 3426	CERAMIC	0.1U K	16V
C309	303 409 3426	CERAMIC	0.1U K	16V
C311	303 409 3426	CERAMIC	0.1U K	16V
C312	303 409 3426	CERAMIC	0.1U K	16V
C313	303 409 3426	CERAMIC	0.1U K	16V
C314	303 409 3426	CERAMIC	0.1U K	16V
C315	303 409 3426	CERAMIC	0.1U K	16V
C316	303 409 3426	CERAMIC	0.1U K	16V
C317	303 409 3426	CERAMIC	0.1U K	16V
C318	303 409 3426	CERAMIC	0.1U K	16V
C319	303 409 3426	CERAMIC	0.1U K	16V
C321	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C322	303 409 3426	CERAMIC	0.1U K	16V
C323	303 409 3426	CERAMIC	0.1U K	16V
C324	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C325	303 409 3426	CERAMIC	0.1U K	16V
C326	303 409 3426	CERAMIC	0.1U K	16V
C327	303 409 3426	CERAMIC	0.1U K	16V
C328	303 409 3426	CERAMIC	0.1U K	16V
C329	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C331	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C332	303 409 3426	CERAMIC	0.1U K	16V
C333	303 409 3426	CERAMIC	0.1U K	16V
C334	303 409 3426	CERAMIC	0.1U K	16V
C336	303 409 3426	CERAMIC	0.1U K	16V
C337	303 409 3426	CERAMIC	0.1U K	16V
C338	303 409 3426	CERAMIC	0.1U K	16V
C339	303 409 3426	CERAMIC	0.1U K	16V
C341	303 409 3426	CERAMIC	0.1U K	16V
C342	303 409 3426	CERAMIC	0.1U K	16V
C343	303 409 3426	CERAMIC	0.1U K	16V
C344	303 409 3426	CERAMIC	0.1U K	16V
C346	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C347	303 409 3426	CERAMIC	0.1U K	16V
C348	303 409 3426	CERAMIC	0.1U K	16V
C349	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3501	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3502	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3503	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3504	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3506	303 381 5316	ELECT	100U M	16V
C3508	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C3509	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C351	303 409 3426	CERAMIC	0.1U K	16V
C3511	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3512	303 276 3113	CERAMIC	33P J	50V
C3513	303 276 3113	CERAMIC	33P J	50V
C3514	303 276 3113	CERAMIC	33P J	50V
C3516	303 276 3113	CERAMIC	33P J	50V
C3517	303 276 3113	CERAMIC	33P J	50V
C3518	303 276 3113	CERAMIC	33P J	50V
C3519	303 276 3113	CERAMIC	33P J	50V
C352	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3521	303 276 3113	CERAMIC	33P J	50V
C3522	303 276 3113	CERAMIC	33P J	50V
C3523	303 276 3113	CERAMIC	33P J	50V
C3524	303 276 3113	CERAMIC	33P J	50V
C3526	303 276 3113	CERAMIC	33P J	50V
C3527	303 276 3113	CERAMIC	33P J	50V
C3528	303 276 3113	CERAMIC	33P J	50V
C3529	303 276 3113	CERAMIC	33P J	50V
C353	303 409 3426	CERAMIC	0.1U K	16V
C3531	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3532	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3533	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3534	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3536	303 381 5316	ELECT	100U M	16V
C3538	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C3539	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C354	303 409 3426	CERAMIC	0.1U K	16V
C3541	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3542	303 276 3113	CERAMIC	33P J	50V
C3543	303 276 3113	CERAMIC	33P J	50V
C3544	303 276 3113	CERAMIC	33P J	50V
C3546	303 276 3113	CERAMIC	33P J	50V
C3547	303 276 3113	CERAMIC	33P J	50V
C3548	303 276 3113	CERAMIC	33P J	50V
C3549	303 276 3113	CERAMIC	33P J	50V
C3551	303 276 3113	CERAMIC	33P J	50V
C3552	303 276 3113	CERAMIC	33P J	50V
C3553	303 276 3113	CERAMIC	33P J	50V
C3554	303 276 3113	CERAMIC	33P J	50V
C3556	303 276 3113	CERAMIC	33P J	50V
C3557	303 276 3113	CERAMIC	33P J	50V
C3558	303 276 3113	CERAMIC	33P J	50V
C3559	303 276 3113	CERAMIC	33P J	50V
C356	303 409 3426	CERAMIC	0.1U K	16V
C3561	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3562	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3563	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3564	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3566	303 381 5316	ELECT	100U M	16V

Electrical Parts List

Key No.	Part No.	Description		
C3568	303 401 3810	ELECT	10U M	25V
	303 424 1510	ELECT	10.0U M	25V
C3569	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C357	303 409 3426	CERAMIC	0.1U K	16V
C3571	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C3572	303 276 3113	CERAMIC	33P J	50V
C3573	303 276 3113	CERAMIC	33P J	50V
C3574	303 276 3113	CERAMIC	33P J	50V
C3576	303 276 3113	CERAMIC	33P J	50V
C3577	303 276 3113	CERAMIC	33P J	50V
C3578	303 276 3113	CERAMIC	33P J	50V
C3579	303 276 3113	CERAMIC	33P J	50V
C358	303 409 3426	CERAMIC	0.1U K	16V
C3581	303 276 3113	CERAMIC	33P J	50V
C3582	303 276 3113	CERAMIC	33P J	50V
C3583	303 276 3113	CERAMIC	33P J	50V
C3584	303 276 3113	CERAMIC	33P J	50V
C3586	303 276 3113	CERAMIC	33P J	50V
C3587	303 276 3113	CERAMIC	33P J	50V
C3588	303 276 3113	CERAMIC	33P J	50V
C3589	303 276 3113	CERAMIC	33P J	50V
C359	303 409 3426	CERAMIC	0.1U K	16V
C3598	303 394 5815	CERAMIC	4.7U K	16V
C3599	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C360	403 455 1616	CERAMIC	10U K	16V
C361	303 409 3426	CERAMIC	0.1U K	16V
C362	303 409 3426	CERAMIC	0.1U K	16V
C363	303 409 3426	CERAMIC	0.1U K	16V
C364	303 409 3426	CERAMIC	0.1U K	16V
C365	403 455 1616	CERAMIC	10U K	16V
C366	303 409 3426	CERAMIC	0.1U K	16V
C367	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C368	303 409 3426	CERAMIC	0.1U K	16V
C369	303 409 3426	CERAMIC	0.1U K	16V
C370	403 455 1616	CERAMIC	10U K	16V
C371	303 409 3426	CERAMIC	0.1U K	16V
C372	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C373	303 409 3426	CERAMIC	0.1U K	16V
C374	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C375	403 455 1616	CERAMIC	10U K	16V
C376	303 409 3426	CERAMIC	0.1U K	16V
C377	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C378	303 409 3426	CERAMIC	0.1U K	16V
C379	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C380	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3802	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3803	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3804	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3806	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C381	303 409 3426	CERAMIC	0.1U K	16V
C382	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C383	303 409 3426	CERAMIC	0.1U K	16V
C384	303 409 3426	CERAMIC	0.1U K	16V
C385	303 409 3426	CERAMIC	0.1U K	16V
C3857	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3858	303 368 7319	CERAMIC	10U K	6.3V
C3859	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C386	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3860	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3861	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C387	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C388	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C389	303 409 3426	CERAMIC	0.1U K	16V
C391	303 409 3426	CERAMIC	0.1U K	16V
C392	303 409 3426	CERAMIC	0.1U K	16V
C393	303 409 3426	CERAMIC	0.1U K	16V
C396	303 409 3426	CERAMIC	0.1U K	16V
C397	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C398	303 409 3426	CERAMIC	0.1U K	16V
C399	303 409 3426	CERAMIC	0.1U K	16V
C4001	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4002	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4003	303 372 7510	CERAMIC	2.2U K	6.3V
C4004	303 372 7510	CERAMIC	2.2U K	6.3V
C401	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C402	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C403	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C404	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C406	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C407	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C411	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C412	303 453 8917	CERAMIC	0.1U K	16V

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Key No.	Part No.	Description		
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C413	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C414	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C416	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C417	303 370 0216	CERAMIC	2.2U K	6.3V
C421	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C422	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C423	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C424	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C426	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C427	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C428	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C431	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C432	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C433	303 453 8719	CERAMIC	470P K	50V
	303 453 9211	CERAMIC	470P K	50V
	303 282 5118	CERAMIC	470P K	50V
C434	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C436	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C437	303 409 3426	CERAMIC	0.1U K	16V
C438	303 441 9810	CERAMIC	0.01U K	50V
C439	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C441	403 455 1616	CERAMIC	10U K	16V
C442	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C443	303 370 0216	CERAMIC	2.2U K	6.3V
C480	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4808	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C482	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C483	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4891	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5001	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5002	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5004	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5006	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5007	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5009	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C501	303 409 3426	CERAMIC	0.1U K	16V
C5011	303 394 5815	CERAMIC	4.7U K	16V
C5012	303 394 5815	CERAMIC	4.7U K	16V
C5013	303 394 5815	CERAMIC	4.7U K	16V
C5014	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C502	303 409 3426	CERAMIC	0.1U K	16V
C5021	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5022	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5024	403 455 1616	CERAMIC	10U K	16V
C5025	403 455 1616	CERAMIC	10U K	16V
C5026	403 455 1616	CERAMIC	10U K	16V
C5027	403 455 1616	CERAMIC	10U K	16V
C5028	403 455 1616	CERAMIC	10U K	16V
C5029	403 455 1616	CERAMIC	10U K	16V
C503	303 409 3426	CERAMIC	0.1U K	16V
C5038	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C5039	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C504	303 409 3426	CERAMIC	0.1U K	16V
C5041	303 454 0613	CERAMIC	0.01U K	50V
	303 441 9810	CERAMIC	0.01U K	50V
C506	303 409 3426	CERAMIC	0.1U K	16V
C5061	403 455 1616	CERAMIC	10U K	16V
C5069	403 455 1616	CERAMIC	10U K	16V
C507	403 455 1616	CERAMIC	10U K	16V
C508	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C509	303 397 8219	CERAMIC	2.2U K	25V
C5098	403 455 1616	CERAMIC	10U K	16V
C511	303 397 8219	CERAMIC	2.2U K	25V
C512	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C513	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C514	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C516	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C517	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C518	303 342 3313	CERAMIC	0.1U K	25V
C519	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C521	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C523	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C524	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C527	303 396 9613	CERAMIC	1U K	25V

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Key No.	Part No.	Description		
	303 397 7618	CERAMIC	1U K	25V
C528	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C531	303 409 3426	CERAMIC	0.1U K	16V
C5315	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C532	303 409 3426	CERAMIC	0.1U K	16V
C533	303 409 3426	CERAMIC	0.1U K	16V
C5331	303 370 0216	CERAMIC	2.2U K	6.3V
C5332	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5334	303 453 6814	CERAMIC	68P J	50V
	303 454 0019	CERAMIC	68P J	50V
	303 320 0419	CERAMIC	68P J	50V
C5336	403 456 4616	CERAMIC	27P J	50V
	303 309 2519	CERAMIC	27P J	50V
C5337	303 294 6110	CERAMIC	100P J	50V
C5338	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C534	303 409 3426	CERAMIC	0.1U K	16V
C536	303 409 3426	CERAMIC	0.1U K	16V
C537	403 455 1616	CERAMIC	10U K	16V
C538	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C539	303 397 8219	CERAMIC	2.2U K	25V
C541	303 397 8219	CERAMIC	2.2U K	25V
C542	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C543	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C544	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C546	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C547	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C548	303 342 3313	CERAMIC	0.1U K	25V
C549	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C551	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C553	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C554	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5540	303 437 4614	CERAMIC	10U K	25V
C5541	303 437 4614	CERAMIC	10U K	25V
C5542	403 467 0911	CERAMIC	0.1U K	25V
C5543	403 467 0911	CERAMIC	0.1U K	25V
C5544	303 391 5214	ELECT	47U M	16V
C557	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C558	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5601	303 166 9515	CERAMIC	0.022U K	16V
C5602	303 155 2213	CERAMIC	3300P K	50V
C5603	303 437 4614	CERAMIC	10U K	25V
C5604	303 376 3112	ELECT	100U M	25V
C5605	303 369 0527	CERAMIC	0.01U K	25V
C5606	303 409 3426	CERAMIC	0.1U K	16V
C5607	303 381 5613	ELECT	220U M	16V
	303 423 8916	ELECT	220U M	16V
C5608	303 391 5214	ELECT	47U M	16V
C561	303 409 3426	CERAMIC	0.1U K	16V
C5611	303 398 3312	ELECT	47U M	10V
	303 387 6119	ELECT	47U M	10V
C5612	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5613	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C5614	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5615	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C562	303 409 3426	CERAMIC	0.1U K	16V
C5621	303 383 5215	CERAMIC	4.7U K	6.3V
C5623	303 383 5215	CERAMIC	4.7U K	6.3V
C563	303 409 3426	CERAMIC	0.1U K	16V
C564	303 409 3426	CERAMIC	0.1U K	16V
C566	303 409 3426	CERAMIC	0.1U K	16V
C567	403 455 1616	CERAMIC	10U K	16V
C568	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C569	303 397 8219	CERAMIC	2.2U K	25V
C5705	303 376 3112	ELECT	100U M	25V
C5706	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5707	303 324 6417	CERAMIC	0.022U K	16V
C5708	303 397 5713	ELECT	100U M	10V
C571	303 397 8219	CERAMIC	2.2U K	25V
C572	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C573	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C574	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5752	303 382 7814	CERAMIC	2.2U K	10V
C5753	303 433 1112	CERAMIC	1U K	10V
C576	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C577	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C578	303 342 3313	CERAMIC	0.1U K	25V
C579	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C581	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C583	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C584	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5840	303 382 7814	CERAMIC	2.2U K	10V
C5841	303 409 3426	CERAMIC	0.1U K	16V
C5842	303 324 6417	CERAMIC	0.022U K	16V
C5843	303 157 7216	CERAMIC	3900P K	50V
C5844	403 455 1616	CERAMIC	10U K	16V
C5845	303 381 5316	ELECT	100U M	16V
C5847	303 392 5015	CERAMIC	22U M	6.3V
	303 443 9214	CERAMIC	22U M	6.3V
C5849	303 409 3426	CERAMIC	0.1U K	16V
C5851	303 409 3426	CERAMIC	0.1U K	16V
C5852	303 368 7319	CERAMIC	10U K	6.3V
C5853	303 382 7814	CERAMIC	2.2U K	10V
C5854	303 394 9318	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C5855	303 409 3426	CERAMIC	0.1U K	16V
C5860	303 409 3426	CERAMIC	0.1U K	16V

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Key No.	Part No.	Description		
C5861	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5862	303 155 2213	CERAMIC	3300P K	50V
C5864	403 455 1616	CERAMIC	10U K	16V
C5865	303 409 3426	CERAMIC	0.1U K	16V
C5866	303 381 5316	ELECT	100U M	16V
C5867	303 392 5015	CERAMIC	22U M	6.3V
	303 443 9214	CERAMIC	22U M	6.3V
C5868	303 394 9318	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C5869	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C587	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C588	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C596	403 467 0911	CERAMIC	0.1U K	25V
C597	303 376 3112	ELECT	100U M	25V
C598	403 467 0911	CERAMIC	0.1U K	25V
C599	303 376 3112	ELECT	100U M	25V
C6801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6802	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6803	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7811	303 397 8219	CERAMIC	2.2U K	25V
C7812	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7813	303 381 5613	ELECT	220U M	16V
	303 423 8916	ELECT	220U M	16V
C7817	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7818	303 454 1917	CERAMIC	4700P K	50V
	303 379 7315	CERAMIC	4700P K	50V
C7841	303 397 8219	CERAMIC	2.2U K	25V
C7843	303 381 5613	ELECT	220U M	16V
	303 423 8916	ELECT	220U M	16V
C7847	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7848	303 454 1917	CERAMIC	4700P K	50V
	303 379 7315	CERAMIC	4700P K	50V
C7863	303 381 5613	ELECT	220U M	16V
	303 423 8916	ELECT	220U M	16V
C7868	303 454 1917	CERAMIC	4700P K	50V
	303 379 7315	CERAMIC	4700P K	50V
C7870	303 401 4312	ELECT	47U M	25V
	303 419 5219	ELECT	47.0UM	25V
C8001	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8002	303 409 3426	CERAMIC	0.1U K	16V
C8003	303 409 3426	CERAMIC	0.1U K	16V
C8004	303 409 3426	CERAMIC	0.1U K	16V
C8006	303 409 3426	CERAMIC	0.1U K	16V
C8007	303 409 3426	CERAMIC	0.1U K	16V
C8008	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8009	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C801	303 409 3426	CERAMIC	0.1U K	16V
C8011	303 409 3426	CERAMIC	0.1U K	16V
C8012	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8013	303 409 3426	CERAMIC	0.1U K	16V
C8014	303 139 7715	CERAMIC	7P D	50V
C8016	303 157 1610	CERAMIC	6P D	50V
C8017	303 409 3426	CERAMIC	0.1U K	16V
C8018	303 409 3426	CERAMIC	0.1U K	16V
C8019	303 409 3426	CERAMIC	0.1U K	16V
C8021	303 409 3426	CERAMIC	0.1U K	16V
C8022	303 409 3426	CERAMIC	0.1U K	16V
C8023	303 409 3426	CERAMIC	0.1U K	16V
C8024	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8026	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8027	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8028	303 409 3426	CERAMIC	0.1U K	16V
C8029	303 409 3426	CERAMIC	0.1U K	16V
C8031	303 409 3426	CERAMIC	0.1U K	16V
C8032	303 409 3426	CERAMIC	0.1U K	16V
C8033	303 409 3426	CERAMIC	0.1U K	16V
C8034	303 409 3426	CERAMIC	0.1U K	16V
C8036	303 409 3426	CERAMIC	0.1U K	16V
C8037	303 409 3426	CERAMIC	0.1U K	16V
C8038	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8081	303 433 1112	CERAMIC	1U K	10V
C8082	303 433 1112	CERAMIC	1U K	10V
C8083	303 388 7818	TA-SOLID	100U K	6.3V
C8091	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C8092	303 358 3215	CERAMIC	10U K	6.3V
	303 370 0018	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8093	303 379 0217	POS-SOLID	68U M	6.3V
C8104	303 376 6311	CERAMIC	0.47U K	10V
C8201	303 409 3426	CERAMIC	0.1U K	16V
C8202	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8203	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8204	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8206	303 409 3426	CERAMIC	0.1U K	16V
C8207	303 409 3426	CERAMIC	0.1U K	16V
C8208	303 409 3426	CERAMIC	0.1U K	16V
C8209	303 409 3426	CERAMIC	0.1U K	16V
C8211	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8212	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8213	303 409 3426	CERAMIC	0.1U K	16V
C8214	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8215	303 409 3426	CERAMIC	0.1U K	16V
C8216	303 409 3426	CERAMIC	0.1U K	16V
C8217	303 409 3426	CERAMIC	0.1U K	16V

Electrical Parts List

Key No.	Part No.	Description		
C8218	303 409 3426	CERAMIC	0.1U K	16V
C8219	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8221	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8222	303 409 3426	CERAMIC	0.1U K	16V
C8223	303 409 3426	CERAMIC	0.1U K	16V
C8224	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8226	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8227	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8228	303 409 3426	CERAMIC	0.1U K	16V
C8229	303 409 3426	CERAMIC	0.1U K	16V
C8230	303 409 3426	CERAMIC	0.1U K	16V
C8231	303 454 0415	CERAMIC	0.068U K	16V
	303 442 0519	CERAMIC	0.068U K	16V
C8232	303 409 3426	CERAMIC	0.1U K	16V
C8233	303 276 3113	CERAMIC	33P J	50V
C8234	303 276 1911	CERAMIC	22P J	50V
C8235	303 276 3113	CERAMIC	33P J	50V
C8236	303 409 3426	CERAMIC	0.1U K	16V
C8237	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C8238	303 409 3426	CERAMIC	0.1U K	16V
C8239	303 409 3426	CERAMIC	0.1U K	16V
C8240	303 276 1911	CERAMIC	22P J	50V
C8301	303 391 5511	ELECT	10U M	16V
C8302	303 391 5511	ELECT	10U M	16V
C8303	303 409 3426	CERAMIC	0.1U K	16V
C8304	303 391 5511	ELECT	10U M	16V
C8305	303 391 5511	ELECT	10U M	16V
C8801	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8802	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8803	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8806	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8807	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8808	303 453 7019	CERAMIC	33P J	50V
	303 453 9617	CERAMIC	33P J	50V
	303 276 3113	CERAMIC	33P J	50V
C8809	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8810	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8811	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8812	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8813	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8814	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8815	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8817	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8818	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8819	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8820	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8821	303 409 3426	CERAMIC	0.1U K	16V
C8823	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8851	303 283 2710	CERAMIC	0.01U K	16V
C9631	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C9642	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C9875	303 305 8812	CERAMIC	47P J	50V
C9878	303 324 6417	CERAMIC	0.022U K	16V
C9882	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9883	303 392 1215	ELECT	47U M	6.3V
C9884	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9885	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8610	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C9888	303 442 0212	CERAMIC	0.22U Z	16V
RESISTOR				
R002	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R007	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R008	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R009	301 224 9019	MT-GLAZE	10K JA	1/16W
R010	301 224 9019	MT-GLAZE	10K JA	1/16W
R011	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R012	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R044	301 224 9019	MT-GLAZE	10K JA	1/16W
R047	301 224 9316	MT-GLAZE	1K JA	1/16W
R049	301 224 9019	MT-GLAZE	10K JA	1/16W
R1001	301 260 4115	MT-GLAZE	75 JA	1/3W
R1002	301 224 8814	MT-GLAZE	100 JA	1/16W
R1003	301 225 8110	MT-GLAZE	10 JA	1/16W
R1004	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1005	301 224 9019	MT-GLAZE	10K JA	1/16W
R1010	301 224 9019	MT-GLAZE	10K JA	1/16W
R1011	301 260 4115	MT-GLAZE	75 JA	1/3W
R1012	301 224 8814	MT-GLAZE	100 JA	1/16W
R1015	301 224 9019	MT-GLAZE	10K JA	1/16W
R1017	301 224 9019	MT-GLAZE	10K JA	1/16W
R1018	301 150 5918	MT-GLAZE	10K JA	1/10W
R1019	301 224 9019	MT-GLAZE	10K JA	1/16W
R1021	301 260 4115	MT-GLAZE	75 JA	1/3W
R1022	301 224 8814	MT-GLAZE	100 JA	1/16W
R1025	301 253 7819	MT-GLAZE	82 JA	1/4W
R1026	301 253 7819	MT-GLAZE	82 JA	1/4W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R1027	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R1458	301 226 1516	MT-GLAZE	0.000 ZA 1/16
R1028	301 253 7819	MT-GLAZE	82 JA 1/4W	R1459	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1029	301 225 2019	MT-GLAZE	680 JA 1/16W	R1582	301 294 3115	MT-GLAZE	1K FA 1/16W
R1030	301 225 1418	MT-GLAZE	47K JA 1/16W	R1583	301 294 3115	MT-GLAZE	1K FA 1/16W
R1035	301 225 1814	MT-GLAZE	47 JA 1/16W	R1584	301 294 3115	MT-GLAZE	1K FA 1/16W
R1036	301 225 1814	MT-GLAZE	47 JA 1/16W	R1586	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1037	301 225 1814	MT-GLAZE	47 JA 1/16W	R1872	301 224 9019	MT-GLAZE	10K JA 1/16W
R1038	301 224 8814	MT-GLAZE	100 JA 1/16W	R1890	301 225 8110	MT-GLAZE	10 JA 1/16W
R1039	301 225 1814	MT-GLAZE	47 JA 1/16W	R2000	301 150 6014	MT-GLAZE	0.000 ZA 1/10W
R1040	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R2003	301 225 0718	MT-GLAZE	56K JA 1/16W
R1041	301 225 1418	MT-GLAZE	47K JA 1/16W	R2004	301 225 1319	MT-GLAZE	470 JA 1/16W
R1043	301 224 9019	MT-GLAZE	10K JA 1/16W	R2005	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R1044	301 224 9019	MT-GLAZE	10K JA 1/16W	R2006	301 224 9316	MT-GLAZE	1K JA 1/16W
R1045	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2013	301 225 0718	MT-GLAZE	56K JA 1/16W
R1046	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2014	301 225 1319	MT-GLAZE	470 JA 1/16W
R1048	301 224 8814	MT-GLAZE	100 JA 1/16W	R2016	301 224 9316	MT-GLAZE	1K JA 1/16W
R1050	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R2017	301 225 1418	MT-GLAZE	47K JA 1/16W
R1052	301 263 7420	MT-GLAZE	75 JA 1/16W	R2023	301 225 0718	MT-GLAZE	56K JA 1/16W
R1056	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R2024	301 225 1319	MT-GLAZE	470 JA 1/16W
R1057	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R2026	301 224 9316	MT-GLAZE	1K JA 1/16W
R1060	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R2027	301 225 1418	MT-GLAZE	47K JA 1/16W
R1062	301 263 7420	MT-GLAZE	75 JA 1/16W	R2036	301 225 8110	MT-GLAZE	10 JA 1/16W
R1063	301 225 2019	MT-GLAZE	680 JA 1/16W	R2037	301 225 8110	MT-GLAZE	10 JA 1/16W
R1064	301 225 2019	MT-GLAZE	680 JA 1/16W	R2038	301 225 8110	MT-GLAZE	10 JA 1/16W
R1065	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R2043	301 224 8814	MT-GLAZE	100 JA 1/16W
R1066	301 240 5613	MT-GLAZE	3K JA 1/16W	R2053	301 224 8814	MT-GLAZE	100 JA 1/16W
R1069	301 240 5613	MT-GLAZE	3K JA 1/16W	R2062	301 225 1418	MT-GLAZE	47K JA 1/16W
R1072	301 263 7420	MT-GLAZE	75 JA 1/16W	R2201	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R1081	301 225 1418	MT-GLAZE	47K JA 1/16W	R2202	301 224 8814	MT-GLAZE	100 JA 1/16W
R1083	301 225 1814	MT-GLAZE	47 JA 1/16W	R2204	301 224 8814	MT-GLAZE	100 JA 1/16W
R1084	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R2206	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R1085	301 225 1814	MT-GLAZE	47 JA 1/16W	R2208	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R1088	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R2211	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R1091	301 225 1418	MT-GLAZE	47K JA 1/16W	R2212	301 263 7420	MT-GLAZE	75 JA 1/16W
R1105	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2215	301 225 1814	MT-GLAZE	47 JA 1/16W
R1134	301 225 1814	MT-GLAZE	47 JA 1/16W	R2216	301 225 1814	MT-GLAZE	47 JA 1/16W
R1301	301 338 8113	MT-GLAZE	1.2K FA 1/16W	R2217	301 263 7420	MT-GLAZE	75 JA 1/16W
R1302	301 338 8113	MT-GLAZE	1.2K FA 1/16W	R2218	301 225 1814	MT-GLAZE	47 JA 1/16W
R1341	301 224 9316	MT-GLAZE	1K JA 1/16W	R2219	301 224 8814	MT-GLAZE	100 JA 1/16W
R1351	301 224 9019	MT-GLAZE	10K JA 1/16W	R2220	301 224 8814	MT-GLAZE	100 JA 1/16W
R1352	301 224 9019	MT-GLAZE	10K JA 1/16W	R2221	301 225 1814	MT-GLAZE	47 JA 1/16W
R1353	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R2222	301 225 1814	MT-GLAZE	47 JA 1/16W
R1354	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R2223	301 225 1814	MT-GLAZE	47 JA 1/16W
R1358	301 339 9614	MT-GLAZE	23.2K FA 1/10W	R2234	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1419	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R2238	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1420	301 225 0718	MT-GLAZE	56K JA 1/16W	R2241	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1423	301 272 7814	MT-GLAZE	100 FA 1/16W	R2242	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1424	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R2243	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1427	301 224 8814	MT-GLAZE	100 JA 1/16W	R2890	301 258 7517	MT-GLAZE	12 JA 1/3W
R1428	301 224 8814	MT-GLAZE	100 JA 1/16W	R2891	301 258 7517	MT-GLAZE	12 JA 1/3W
R1429	301 294 3313	MT-GLAZE	15K FA 1/16W	R2892	301 224 8814	MT-GLAZE	100 JA 1/16W
R1431	301 294 3313	MT-GLAZE	15K FA 1/16W	R2893	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R1432	301 294 3313	MT-GLAZE	15K FA 1/16W	R2894	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R1433	301 294 3313	MT-GLAZE	15K FA 1/16W	R3002	301 224 8814	MT-GLAZE	100 JA 1/16W
R1434	301 264 3411	MT-GLAZE	13K FA 1/10W	R301	301 225 8110	MT-GLAZE	10 JA 1/16W
R1436	301 294 4112	MT-GLAZE	30K FA 1/16W	R3012	301 224 8814	MT-GLAZE	100 JA 1/16W
R1437	301 294 2613	MT-GLAZE	4.7K FA 1/16W	R302	301 338 1015	MT-GLAZE	49.9 DA 1/16W
R1438	301 294 3313	MT-GLAZE	15K FA 1/16W	R3022	301 224 8814	MT-GLAZE	100 JA 1/16W
R1439	301 294 2613	MT-GLAZE	4.7K FA 1/16W	R303	301 338 1015	MT-GLAZE	49.9 DA 1/16W
R1441	301 294 3313	MT-GLAZE	15K FA 1/16W	R3032	301 224 8814	MT-GLAZE	100 JA 1/16W
R1442	301 294 3313	MT-GLAZE	15K FA 1/16W	R304	301 224 9217	MT-GLAZE	15K JA 1/16W
R1443	301 294 2613	MT-GLAZE	4.7K FA 1/16W	R305	301 224 9019	MT-GLAZE	10K JA 1/16W
R1444	301 235 0012	MT-GLAZE	7.5K JA 1/16W	R3052	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1446	301 235 0012	MT-GLAZE	7.5K JA 1/16W	R3053	301 224 8913	MT-GLAZE	100K JA 1/16W
R1447	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R3054	301 224 8913	MT-GLAZE	100K JA 1/16W
R1448	301 224 9019	MT-GLAZE	10K JA 1/16W	R3056	301 224 9415	MT-GLAZE	1M JA 1/16W
R1449	301 224 8814	MT-GLAZE	100 JA 1/16W	R3057	301 224 9910	MT-GLAZE	22K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R306	301 256 6611	MT-GLAZE 68K JA 1/10W	R3804	301 225 8110	MT-GLAZE 10 JA 1/16W
R3062	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R3856	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R307	301 150 5918	MT-GLAZE 10K JA 1/10W	R3857	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R308	301 225 8011	MT-GLAZE 330 JA 1/16W	R3858	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R309	301 263 7420	MT-GLAZE 75 JA 1/16W	R3861	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R310	301 263 7420	MT-GLAZE 75 JA 1/16W	R3863	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R312	301 225 1814	MT-GLAZE 47 JA 1/16W	R3865	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R313	301 225 1814	MT-GLAZE 47 JA 1/16W	R3866	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R314	301 225 1814	MT-GLAZE 47 JA 1/16W	R3867	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R315	301 225 8110	MT-GLAZE 10 JA 1/16W	R3868	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R316	301 225 1814	MT-GLAZE 47 JA 1/16W	R388	301 224 9019	MT-GLAZE 10K JA 1/16W
R317	301 225 1814	MT-GLAZE 47 JA 1/16W	R389	301 224 9019	MT-GLAZE 10K JA 1/16W
R318	301 225 1814	MT-GLAZE 47 JA 1/16W	R397	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R319	301 225 1814	MT-GLAZE 47 JA 1/16W	R398	301 224 9019	MT-GLAZE 10K JA 1/16W
R321	301 225 1814	MT-GLAZE 47 JA 1/16W	R399	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R322	301 225 1814	MT-GLAZE 47 JA 1/16W	R4001	301 224 8814	MT-GLAZE 100 JA 1/16W
R323	301 225 1814	MT-GLAZE 47 JA 1/16W	R4009	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R324	301 298 5511	MT-GLAZE 8.2K FA 1/16W	R4014	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R325	301 224 9019	MT-GLAZE 10K JA 1/16W	R4016	301 224 9514	MT-GLAZE 2.2K JA 1/16W
R326	301 224 9019	MT-GLAZE 10K JA 1/16W	R4017	301 224 9514	MT-GLAZE 2.2K JA 1/16W
R327	301 224 9019	MT-GLAZE 10K JA 1/16W	R4023	301 224 9019	MT-GLAZE 10K JA 1/16W
R328	301 224 9019	MT-GLAZE 10K JA 1/16W	R4024	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R329	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R406	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R331	301 224 9019	MT-GLAZE 10K JA 1/16W	R407	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R332	301 263 7420	MT-GLAZE 75 JA 1/16W	R4072	301 224 8814	MT-GLAZE 100 JA 1/16W
R333	301 224 9019	MT-GLAZE 10K JA 1/16W	R4077	301 224 8814	MT-GLAZE 100 JA 1/16W
R334	301 225 8110	MT-GLAZE 10 JA 1/16W	R408	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R336	301 224 9019	MT-GLAZE 10K JA 1/16W	R410	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R337	301 224 9019	MT-GLAZE 10K JA 1/16W	R412	301 225 1814	MT-GLAZE 47 JA 1/16W
R339	301 224 9019	MT-GLAZE 10K JA 1/16W	R414	301 225 1814	MT-GLAZE 47 JA 1/16W
R341	301 224 9019	MT-GLAZE 10K JA 1/16W	R416	301 225 1814	MT-GLAZE 47 JA 1/16W
R343	301 224 9019	MT-GLAZE 10K JA 1/16W	R418	301 225 1814	MT-GLAZE 47 JA 1/16W
R344	301 225 1814	MT-GLAZE 47 JA 1/16W	R419	301 225 1814	MT-GLAZE 47 JA 1/16W
R347	301 225 1814	MT-GLAZE 47 JA 1/16W	R422	301 225 1814	MT-GLAZE 47 JA 1/16W
R349	301 263 7420	MT-GLAZE 75 JA 1/16W	R423	301 225 1814	MT-GLAZE 47 JA 1/16W
R3502	301 225 1418	MT-GLAZE 47K JA 1/16W	R424	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R352	301 224 9019	MT-GLAZE 10K JA 1/16W	R425	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R353	301 225 1814	MT-GLAZE 47 JA 1/16W	R426	301 224 9019	MT-GLAZE 10K JA 1/16W
R3532	301 225 1418	MT-GLAZE 47K JA 1/16W	R427	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R354	301 224 9316	MT-GLAZE 1K JA 1/16W	R4834	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R356	301 224 9019	MT-GLAZE 10K JA 1/16W	R4861	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
R3562	301 225 1418	MT-GLAZE 47K JA 1/16W	R4862	301 229 3913	MT-GLAZE 180 JA 1/16W
R358	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R4863	301 229 3913	MT-GLAZE 180 JA 1/16W
R3587	301 224 9019	MT-GLAZE 10K JA 1/16W	R5001	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
R3588	301 224 9019	MT-GLAZE 10K JA 1/16W	R5002	301 225 8110	MT-GLAZE 10 JA 1/16W
R360	301 224 9019	MT-GLAZE 10K JA 1/16W	R5003	301 225 8110	MT-GLAZE 10 JA 1/16W
R3601	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5004	301 224 8913	MT-GLAZE 100K JA 1/16W
R3602	301 224 9019	MT-GLAZE 10K JA 1/16W	R5005	301 224 8913	MT-GLAZE 100K JA 1/16W
R3603	301 224 9019	MT-GLAZE 10K JA 1/16W	R5006	301 224 8913	MT-GLAZE 100K JA 1/16W
R361	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5007	301 224 8913	MT-GLAZE 100K JA 1/16W
R362	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5008	301 224 8913	MT-GLAZE 100K JA 1/16W
R3621	301 224 9019	MT-GLAZE 10K JA 1/16W	R5009	301 224 8913	MT-GLAZE 100K JA 1/16W
R3622	301 224 9019	MT-GLAZE 10K JA 1/16W	R501	301 226 1516	MT-GLAZE 0.000 ZA 1/16
R3623	301 224 9019	MT-GLAZE 10K JA 1/16W	R5021	301 224 8913	MT-GLAZE 100K JA 1/16W
R3626	301 224 9019	MT-GLAZE 10K JA 1/16W	R5022	301 224 8913	MT-GLAZE 100K JA 1/16W
R3627	301 224 9019	MT-GLAZE 10K JA 1/16W	R503	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R3628	301 224 9019	MT-GLAZE 10K JA 1/16W	R5031	301 224 8814	MT-GLAZE 100 JA 1/16W
R363	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5032	301 224 8814	MT-GLAZE 100 JA 1/16W
R364	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R5033	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R367	301 224 9415	MT-GLAZE 1M JA 1/16W	R5034	301 224 9316	MT-GLAZE 1K JA 1/16W
R368	301 225 8110	MT-GLAZE 10 JA 1/16W	R5036	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R369	301 225 8110	MT-GLAZE 10 JA 1/16W	R5037	301 224 9316	MT-GLAZE 1K JA 1/16W
R371	301 225 1814	MT-GLAZE 47 JA 1/16W	R504	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R373	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R5044	301 224 9019	MT-GLAZE 10K JA 1/16W
R3801	301 225 8110	MT-GLAZE 10 JA 1/16W	R5046	301 224 9019	MT-GLAZE 10K JA 1/16W
R3802	301 225 8110	MT-GLAZE 10 JA 1/16W	R5047	301 224 9613	MT-GLAZE 2.7K JA 1/16W
R3803	301 225 8110	MT-GLAZE 10 JA 1/16W	R5048	301 224 9316	MT-GLAZE 1K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R5061	301 224 9316	MT-GLAZE	1K JA 1/16W	R5703	301 224 9019	MT-GLAZE	10K JA 1/16W
R5062	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R5704	301 224 8814	MT-GLAZE	100 JA 1/16W
R5063	301 224 9316	MT-GLAZE	1K JA 1/16W	R5705	301 224 9019	MT-GLAZE	10K JA 1/16W
R5064	301 224 9316	MT-GLAZE	1K JA 1/16W	R5706	301 224 9019	MT-GLAZE	10K JA 1/16W
R5066	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R571	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5067	301 224 9316	MT-GLAZE	1K JA 1/16W	R572	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5069	301 225 8011	MT-GLAZE	330 JA 1/16W	R573	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R508	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R574	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5086	301 224 9019	MT-GLAZE	10K JA 1/16W	R5751	301 224 9019	MT-GLAZE	10K JA 1/16W
R5087	301 224 9019	MT-GLAZE	10K JA 1/16W	R5752	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R5088	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5753	301 224 9316	MT-GLAZE	1K JA 1/16W
R509	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5754	301 224 9019	MT-GLAZE	10K JA 1/16W
R511	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R576	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R512	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R577	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R513	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R578	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R514	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5826	301 224 9019	MT-GLAZE	10K JA 1/16W
R516	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5827	301 224 9316	MT-GLAZE	1K JA 1/16W
R517	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5837	301 224 9019	MT-GLAZE	10K JA 1/16W
R518	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5838	301 224 9316	MT-GLAZE	1K JA 1/16W
R5213	301 224 8814	MT-GLAZE	100 JA 1/16W	R5839	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R5215	301 224 8814	MT-GLAZE	100 JA 1/16W	R5840	301 224 9019	MT-GLAZE	10K JA 1/16W
R5220	301 224 8814	MT-GLAZE	100 JA 1/16W	R5841	301 224 8913	MT-GLAZE	100K JA 1/16W
R5223	301 224 8814	MT-GLAZE	100 JA 1/16W	R5842	301 234 9917	MT-GLAZE	6.8K JA 1/16W
R531	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5843	301 264 1912	MT-GLAZE	10K FA 1/10W
R5317	301 225 1814	MT-GLAZE	47 JA 1/16W	R5844	301 261 1113	MT-GLAZE	24K JA 1/16W
R5318	301 225 0619	MT-GLAZE	5.6K JA 1/16W	R5845	301 294 2811	MT-GLAZE	2.2K FA 1/16W
R533	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5851	301 224 9316	MT-GLAZE	1K JA 1/16W
R5331	301 240 9710	MT-GLAZE	820K JA 1/16W	R5852	301 224 9118	MT-GLAZE	150 JA 1/16W
R5332	301 224 9316	MT-GLAZE	1K JA 1/16W	R5853	301 338 8113	MT-GLAZE	1.2K FA 1/16W
R5333	301 224 9316	MT-GLAZE	1K JA 1/16W	R5854	301 294 3115	MT-GLAZE	1K FA 1/16W
R5334	301 224 9019	MT-GLAZE	10K JA 1/16W	R5861	301 234 9917	MT-GLAZE	6.8K JA 1/16W
R5336	301 224 9316	MT-GLAZE	1K JA 1/16W	R5863	301 264 1912	MT-GLAZE	10K FA 1/10W
R5337	301 224 9316	MT-GLAZE	1K JA 1/16W	R5864	301 298 5511	MT-GLAZE	8.2K FA 1/16W
R5338	301 226 2414	MT-GLAZE	560 JA 1/16W	R5865	301 338 8113	MT-GLAZE	1.2K FA 1/16W
R5342	301 225 0718	MT-GLAZE	56K JA 1/16W	R5866	301 224 8913	MT-GLAZE	100K JA 1/16W
R5343	301 224 9316	MT-GLAZE	1K JA 1/16W	R593	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R536	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R594	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R537	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R595	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R539	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R596	301 294 3016	MT-GLAZE	10K FA 1/16W
R541	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R597	301 294 4419	MT-GLAZE	1.8K FA 1/16W
R542	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R598	301 301 0410	MT-GLAZE	240 FA 1/16W
R543	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R599	301 224 9316	MT-GLAZE	1K JA 1/16W
R544	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R6801	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R546	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R6803	301 224 9019	MT-GLAZE	10K JA 1/16W
R547	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R6804	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R548	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R6806	301 224 9217	MT-GLAZE	15K JA 1/16W
R5540	301 224 9316	MT-GLAZE	1K JA 1/16W	R6807	301 234 9917	MT-GLAZE	6.8K JA 1/16W
R5541	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R6808	301 225 1517	MT-GLAZE	3.9K JA 1/16W
R5542	301 224 9316	MT-GLAZE	1K JA 1/16W	R6809	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R5543	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	R6811	301 225 1517	MT-GLAZE	3.9K JA 1/16W
R5545	301 224 9613	MT-GLAZE	2.7K JA 1/16W	R6812	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R5601	301 224 8913	MT-GLAZE	100K JA 1/16W	R6813	301 224 9019	MT-GLAZE	10K JA 1/16W
R5602	301 234 9917	MT-GLAZE	6.8K JA 1/16W	R6822	301 224 9316	MT-GLAZE	1K JA 1/16W
R5603	301 294 3016	MT-GLAZE	10K FA 1/16W	R6823	301 224 9019	MT-GLAZE	10K JA 1/16W
R5604	301 287 2029	MT-GLAZE	100K FA 1/16W	R6841	301 229 3913	MT-GLAZE	180 JA 1/16W
R5605	301 299 2410	MT-GLAZE	5.6K FA 1/16W	R6843	301 229 3913	MT-GLAZE	180 JA 1/16W
R5607	301 224 9316	MT-GLAZE	1K JA 1/16W	R6846	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R561	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R6848	301 225 8011	MT-GLAZE	330 JA 1/16W
R5611	301 224 8814	MT-GLAZE	100 JA 1/16W	R6849	301 225 8011	MT-GLAZE	330 JA 1/16W
R5622	301 190 1710	MT-GLAZE	0.000 ZA 1W	R6851	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R563	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R6853	301 229 3913	MT-GLAZE	180 JA 1/16W
R564	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R6854	301 224 9019	MT-GLAZE	10K JA 1/16W
R566	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R6857	301 229 3913	MT-GLAZE	180 JA 1/16W
R569	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R6858	301 229 3913	MT-GLAZE	180 JA 1/16W
R5692	301 190 1710	MT-GLAZE	0.000 ZA 1W	R6859	301 224 9019	MT-GLAZE	10K JA 1/16W
R5701	301 259 7823	MT-GLAZE	20K JA 1/16W	R6867	301 150 6014	MT-GLAZE	0.000 ZA 1/10W
R5702	301 225 0718	MT-GLAZE	56K JA 1/16W	R6881	301 225 1210	MT-GLAZE	4.7K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description
R6882	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R6883	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R691	301 162 2417	MT-GLAZE 1.2K JA 1/10W
R692	301 150 6212	MT-GLAZE 1K JA 1/10W
R7801	301 224 9019	MT-GLAZE 10K JA 1/16W
R7802	301 224 9019	MT-GLAZE 10K JA 1/16W
R7803	301 224 9019	MT-GLAZE 10K JA 1/16W
R7804	301 230 8013	MT-GLAZE 1K JA 1/3W
R7805	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7806	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7807	301 263 6928	MT-GLAZE 2K JA 1/16W
R7816	301 225 8110	MT-GLAZE 10 JA 1/16W
R7818	301 294 3016	MT-GLAZE 10K FA 1/16W
R7819	301 224 8913	MT-GLAZE 100K JA 1/16W
R7821	301 294 3511	MT-GLAZE 27K FA 1/16W
R7824	301 294 2811	MT-GLAZE 2.2K FA 1/16W
R7828	301 224 9019	MT-GLAZE 10K JA 1/16W
R7829	301 224 9316	MT-GLAZE 1K JA 1/16W
R7831	301 224 9316	MT-GLAZE 1K JA 1/16W
R7832	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7833	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R7834	301 286 4717	MT-GLAZE 30K JA 1/16W
R7843	301 224 9415	MT-GLAZE 1M JA 1/16W
R7846	301 225 8110	MT-GLAZE 10 JA 1/16W
R7848	301 294 3016	MT-GLAZE 10K FA 1/16W
R7849	301 224 8913	MT-GLAZE 100K JA 1/16W
R7850	301 286 4717	MT-GLAZE 30K JA 1/16W
R7851	301 299 5411	MT-GLAZE 13K FA 1/16W
R7853	301 299 5411	MT-GLAZE 13K FA 1/16W
R7854	301 294 4419	MT-GLAZE 1.8K FA 1/16W
R7858	301 224 9019	MT-GLAZE 10K JA 1/16W
R7859	301 235 1415	MT-GLAZE 1.2K JA 1/16W
R7863	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7866	301 225 8110	MT-GLAZE 10 JA 1/16W
R7869	301 224 8913	MT-GLAZE 100K JA 1/16W
R7871	301 294 3511	MT-GLAZE 27K FA 1/16W
R7874	301 294 2811	MT-GLAZE 2.2K FA 1/16W
R7878	301 224 9019	MT-GLAZE 10K JA 1/16W
R7879	301 224 9316	MT-GLAZE 1K JA 1/16W
R7881	301 224 9316	MT-GLAZE 1K JA 1/16W
R7882	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7883	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R7884	301 286 4717	MT-GLAZE 30K JA 1/16W
R7891	301 224 9316	MT-GLAZE 1K JA 1/16W
R7892	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R7893	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R8001	301 264 5316	MT-GLAZE 2.2 JA 1/10W
R8002	301 264 5316	MT-GLAZE 2.2 JA 1/10W
R8003	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8004	301 224 9415	MT-GLAZE 1M JA 1/16W
R8008	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R8009	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R801	301 224 9019	MT-GLAZE 10K JA 1/16W
R8014	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R8016	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8017	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8018	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R8020	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8022	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R8023	301 264 5316	MT-GLAZE 2.2 JA 1/10W
R8024	301 225 0312	MT-GLAZE 33 JA 1/16W
R8026	301 225 0312	MT-GLAZE 33 JA 1/16W
R8027	301 225 0312	MT-GLAZE 33 JA 1/16W
R8028	301 225 0312	MT-GLAZE 33 JA 1/16W
R8029	301 225 0312	MT-GLAZE 33 JA 1/16W
R8031	301 225 0312	MT-GLAZE 33 JA 1/16W
R8032	301 225 0312	MT-GLAZE 33 JA 1/16W
R8033	301 225 0312	MT-GLAZE 33 JA 1/16W
R8034	301 225 0312	MT-GLAZE 33 JA 1/16W
R8036	301 225 0312	MT-GLAZE 33 JA 1/16W
R8037	301 225 0312	MT-GLAZE 33 JA 1/16W
R8038	301 341 0616	MT-GLAZE 49.9 FA 1/16W
R804	301 224 9019	MT-GLAZE 10K JA 1/16W
R8040	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R8042	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8043	301 225 1418	MT-GLAZE 47K JA 1/16W
R8044	301 225 1418	MT-GLAZE 47K JA 1/16W
R8045	301 240 9116	MT-GLAZE 5.6 JA 1/16W
R8046	301 240 9116	MT-GLAZE 5.6 JA 1/16W
R8047	301 240 9116	MT-GLAZE 5.6 JA 1/16W
R8048	301 240 9116	MT-GLAZE 5.6 JA 1/16W
R8049	301 341 0616	MT-GLAZE 49.9 FA 1/16W
R8050	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R8051	301 240 9116	MT-GLAZE 5.6 JA 1/16W
R8052	301 240 9116	MT-GLAZE 5.6 JA 1/16W
R8053	301 240 9116	MT-GLAZE 5.6 JA 1/16W
R8054	301 240 9116	MT-GLAZE 5.6 JA 1/16W
R8056	301 225 1418	MT-GLAZE 47K JA 1/16W
R8057	301 225 1418	MT-GLAZE 47K JA 1/16W
R8059	301 341 0616	MT-GLAZE 49.9 FA 1/16W
R806	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8069	301 341 0616	MT-GLAZE 49.9 FA 1/16W
R807	301 224 9019	MT-GLAZE 10K JA 1/16W
R808	301 224 9019	MT-GLAZE 10K JA 1/16W
R8081	301 294 2613	MT-GLAZE 4.7K FA 1/16W
R8082	301 225 2118	MT-GLAZE 12K JA 1/16W
R8083	301 294 3016	MT-GLAZE 10K FA 1/16W
R8084	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8086	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R8088	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R809	301 294 4419	MT-GLAZE 1.8K FA 1/16W
R8092	301 258 2512	MT-GLAZE 100 FA 1/10W
R8093	301 225 8110	MT-GLAZE 10 JA 1/16W
R8094	301 294 3115	MT-GLAZE 1K FA 1/16W
R8096	301 224 9316	MT-GLAZE 1K JA 1/16W
R8101	301 225 1814	MT-GLAZE 47 JA 1/16W
R8102	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8103	301 225 1814	MT-GLAZE 47 JA 1/16W
R812	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R813	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R8201	301 225 1814	MT-GLAZE 47 JA 1/16W
R8202	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8204	301 225 1814	MT-GLAZE 47 JA 1/16W
R8206	301 263 7420	MT-GLAZE 75 JA 1/16W
R8207	301 263 7420	MT-GLAZE 75 JA 1/16W
R8208	301 226 5514	MT-GLAZE 120 JA 1/16W
R8209	301 226 5514	MT-GLAZE 120 JA 1/16W
R8211	301 226 5514	MT-GLAZE 120 JA 1/16W
R8243	301 225 0015	MT-GLAZE 270 JA 1/16W
R8244	301 225 0015	MT-GLAZE 270 JA 1/16W
R8245	301 225 0015	MT-GLAZE 270 JA 1/16W
R8304	301 162 2417	MT-GLAZE 1.2K JA 1/10W
R8306	301 162 2417	MT-GLAZE 1.2K JA 1/10W
R8307	301 162 2417	MT-GLAZE 1.2K JA 1/10W
R8308	301 162 2417	MT-GLAZE 1.2K JA 1/10W
R8309	301 162 2417	MT-GLAZE 1.2K JA 1/10W
R8310	301 162 2417	MT-GLAZE 1.2K JA 1/10W
R8311	301 224 9712	MT-GLAZE 22 JA 1/16W
R8312	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8313	301 224 9712	MT-GLAZE 22 JA 1/16W
R8314	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8316	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R840	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R8801	301 224 9316	MT-GLAZE 1K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description
R8802	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8804	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R8805	301 224 9316	MT-GLAZE 1K JA 1/16W
R8806	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8807	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8808	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8812	301 225 8110	MT-GLAZE 10 JA 1/16W
R8814	301 224 9415	MT-GLAZE 1M JA 1/16W
R8815	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R8816	301 294 2811	MT-GLAZE 2.2K FA 1/16W
R8821	301 225 8110	MT-GLAZE 10 JA 1/16W
R8833	301 225 7915	MT-GLAZE 220 JA 1/16W
R8834	301 224 9712	MT-GLAZE 22 JA 1/16W
R8835	645 100 9340	IMPEDANCE,120 OHM P
R8836	645 100 9340	IMPEDANCE,120 OHM P
R8837	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8838	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8839	301 225 7915	MT-GLAZE 220 JA 1/16W
R8840	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8841	301 224 9019	MT-GLAZE 10K JA 1/16W
R8842	301 224 9019	MT-GLAZE 10K JA 1/16W
R8843	301 224 9019	MT-GLAZE 10K JA 1/16W
R8844	301 224 9019	MT-GLAZE 10K JA 1/16W
R8845	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
R8846	301 224 8913	MT-GLAZE 100K JA 1/16W
R8850	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
R8851	301 224 8814	MT-GLAZE 100 JA 1/16W
R8852	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8853	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8861	301 225 8110	MT-GLAZE 10 JA 1/16W
R8864	301 225 8110	MT-GLAZE 10 JA 1/16W
R891	301 224 8814	MT-GLAZE 100 JA 1/16W
R9611	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R9612	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R9613	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R9631	301 224 9316	MT-GLAZE 1K JA 1/16W
R9632	301 224 9019	MT-GLAZE 10K JA 1/16W
R9633	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R9634	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R9644	301 224 9316	MT-GLAZE 1K JA 1/16W
R9645	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
R9646	301 224 9019	MT-GLAZE 10K JA 1/16W
R9647	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R9648	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R9873	301 255 7312	MT-GLAZE 510K JA 1/10W
R9874	301 224 8913	MT-GLAZE 100K JA 1/16W
R9875	301 224 8913	MT-GLAZE 100K JA 1/16W
R9876	301 225 8110	MT-GLAZE 10 JA 1/16W
R9878	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R9879	301 224 9019	MT-GLAZE 10K JA 1/16W
R9881	301 224 9019	MT-GLAZE 10K JA 1/16W
R9882	301 225 8110	MT-GLAZE 10 JA 1/16W
R9883	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9884	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9886	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9887	301 224 9019	MT-GLAZE 10K JA 1/16W
R9888	301 224 9316	MT-GLAZE 1K JA 1/16W
R9889	301 225 8110	MT-GLAZE 10 JA 1/16W
R9890	301 225 8110	MT-GLAZE 10 JA 1/16W
R9891	301 225 8110	MT-GLAZE 10 JA 1/16W
R9892	301 224 9019	MT-GLAZE 10K JA 1/16W
R9893	301 224 9019	MT-GLAZE 10K JA 1/16W
R9894	301 224 9019	MT-GLAZE 10K JA 1/16W
R9895	301 225 8011	MT-GLAZE 330 JA 1/16W
R9897	301 224 9712	MT-GLAZE 22 JA 1/16W
R9898	301 224 9712	MT-GLAZE 22 JA 1/16W
R9899	301 224 9712	MT-GLAZE 22 JA 1/16W

Key No.	Part No.	Description
R9902	301 224 9019	MT-GLAZE 10K JA 1/16W
R9903	301 224 9019	MT-GLAZE 10K JA 1/16W
R9904	301 224 9019	MT-GLAZE 10K JA 1/16W
R9905	301 224 9019	MT-GLAZE 10K JA 1/16W
R9906	301 225 0817	MT-GLAZE 68K JA 1/16W
R9907	301 224 8814	MT-GLAZE 100 JA 1/16W
R9908	301 224 8814	MT-GLAZE 100 JA 1/16W
R9909	301 224 8814	MT-GLAZE 100 JA 1/16W
R9914	301 224 9019	MT-GLAZE 10K JA 1/16W
R9915	301 224 9019	MT-GLAZE 10K JA 1/16W
R9916	301 224 9019	MT-GLAZE 10K JA 1/16W
RB2201	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB2203	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB2206	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB2208	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB2211	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB22111	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB2213	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB301	952 001 9806	R-NETWORK 47X4 0.063W
RB302	952 001 9806	R-NETWORK 47X4 0.063W
RB303	952 001 9806	R-NETWORK 47X4 0.063W
RB304	952 001 9806	R-NETWORK 47X4 0.063W
RB306	952 001 9806	R-NETWORK 47X4 0.063W
RB307	952 001 9806	R-NETWORK 47X4 0.063W
RB308	952 001 9806	R-NETWORK 47X4 0.063W
RB309	952 001 9806	R-NETWORK 47X4 0.063W
RB311	952 001 9806	R-NETWORK 47X4 0.063W
RB312	952 001 9806	R-NETWORK 47X4 0.063W
RB313	952 001 9806	R-NETWORK 47X4 0.063W
RB316	952 001 9806	R-NETWORK 47X4 0.063W
RB317	952 001 9806	R-NETWORK 47X4 0.063W
RB318	952 001 9752	R-NETWORK 10X4 0.063W
RB321	952 001 9806	R-NETWORK 47X4 0.063W
RB322	952 001 9806	R-NETWORK 47X4 0.063W
RB331	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB332	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB333	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB334	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB336	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB337	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB411	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB412	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB413	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB414	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB416	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB417	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB418	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W

Electrical Parts List

Key No.	Part No.	Description
RB419	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB421	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB422	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB423	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB424	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB426	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB427	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB428	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB429	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB431	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB432	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB433	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB434	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB436	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB437	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB501	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB502	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB503	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB504	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB506	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB507	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB508	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB531	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB532	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB533	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB534	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB536	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB537	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB538	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB561	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB562	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB563	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB564	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB566	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB567	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB568	945 028 0697	R-NETWORK 100X4 1/16W
RB569	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB8001	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB8002	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB8003	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB8004	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB8006	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB8007	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB8008	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
COIL		
L1002	945 086 7577	FILTER,EMI 400MHZ
L1012	945 086 7577	FILTER,EMI 400MHZ
L1022	945 086 7577	FILTER,EMI 400MHZ
L1031	945 086 7560	FILTER,EMI 200MHZ
L1032	945 040 6455	INDUCTOR,4.7U M
L1041	945 086 7560	FILTER,EMI 200MHZ
L1051	945 086 7577	FILTER,EMI 400MHZ
L1061	945 086 7577	FILTER,EMI 400MHZ
L1071	945 086 7577	FILTER,EMI 400MHZ
L1081	945 086 7560	FILTER,EMI 200MHZ
L1091	945 086 7560	FILTER,EMI 200MHZ
L1421	652 002 8500	INDUCTOR 330 OHM
L1501	652 002 8500	INDUCTOR 330 OHM
L1503	652 002 8500	INDUCTOR 330 OHM
L2303	945 086 6600	IMPEDANCE,220 OHM P
L2306	945 086 6600	IMPEDANCE,220 OHM P
L2307	945 086 6600	IMPEDANCE,220 OHM P
L2308	945 086 6600	IMPEDANCE,220 OHM P
L2309	945 086 6600	IMPEDANCE,220 OHM P
L2891	652 002 8524	INDUCTOR 220 OHM
L2892	652 002 8685	INDUCTOR 1000 OHM
L2893	652 002 8685	INDUCTOR 1000 OHM
L2894	652 002 8524	INDUCTOR 220 OHM
L2895	652 002 8524	INDUCTOR 220 OHM
L2896	652 002 8685	INDUCTOR 1000 OHM
L2897	652 002 8685	INDUCTOR 1000 OHM
L2898	652 002 8685	INDUCTOR 1000 OHM
L2899	652 002 8685	INDUCTOR 1000 OHM
L301	945 050 8449	IMPEDANCE,1000 OHM P
L302	945 050 8449	IMPEDANCE,1000 OHM P
L303	945 050 8449	IMPEDANCE,1000 OHM P
L304	945 050 8449	IMPEDANCE,1000 OHM P
L305	945 050 8449	IMPEDANCE,1000 OHM P
L306	945 050 8449	IMPEDANCE,1000 OHM P
L307	945 050 8449	IMPEDANCE,1000 OHM P
L308	945 050 8449	IMPEDANCE,1000 OHM P
L3081	945 068 8325	FILTER,EMI 20MHZ
L3082	945 068 8325	FILTER,EMI 20MHZ
L309	945 050 8449	IMPEDANCE,1000 OHM P
L310	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
L311	945 050 8449	IMPEDANCE,1000 OHM P
L312	945 050 8449	IMPEDANCE,1000 OHM P
L313	945 050 8449	IMPEDANCE,1000 OHM P
L314	945 050 8449	IMPEDANCE,1000 OHM P
L3501	652 002 8500	INDUCTOR 330 OHM

Electrical Parts List

Key No.	Part No.	Description
L3531	652 002 8500	INDUCTOR 330 OHM
L3534	945 041 2210	INDUCTOR,0.12U K
L3561	652 002 8500	INDUCTOR 330 OHM
L3621	652 002 8524	INDUCTOR 220 OHM
L3622	652 002 8524	INDUCTOR 220 OHM
L3623	652 002 8524	INDUCTOR 220 OHM
L3626	652 002 8524	INDUCTOR 220 OHM
L3627	652 002 8524	INDUCTOR 220 OHM
L3628	652 002 8685	INDUCTOR 1000 OHM
L3629	652 002 8524	INDUCTOR 220 OHM
L3630	652 002 8524	INDUCTOR 220 OHM
L3631	652 002 8685	INDUCTOR 1000 OHM
L3632	652 002 8524	INDUCTOR 220 OHM
L3633	652 002 8685	INDUCTOR 1000 OHM
L3634	652 002 8524	INDUCTOR 220 OHM
L3638	652 002 8685	INDUCTOR 1000 OHM
L3639	652 002 8524	INDUCTOR 220 OHM
L3641	652 002 8685	INDUCTOR 1000 OHM
L3642	652 002 8524	INDUCTOR 220 OHM
L3691	652 002 8685	INDUCTOR 1000 OHM
L3692	652 002 8524	INDUCTOR 220 OHM
L4809	652 002 8685	INDUCTOR 1000 OHM
L4810	652 002 8685	INDUCTOR 1000 OHM
L4811	652 002 8685	INDUCTOR 1000 OHM
L4812	652 002 8524	INDUCTOR 220 OHM
L4814	652 002 8685	INDUCTOR 1000 OHM
L5001	945 062 2855	INDUCTOR,33U M
L5002	945 062 2855	INDUCTOR,33U M
L501	652 002 8500	INDUCTOR 330 OHM
L502	652 002 8500	INDUCTOR 330 OHM
L5031	652 002 8524	INDUCTOR 220 OHM
L5032	652 002 8524	INDUCTOR 220 OHM
L531	652 002 8500	INDUCTOR 330 OHM
L532	652 002 8500	INDUCTOR 330 OHM
L5331	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L5332	945 032 8344	INDUCTOR,39U J
L5601	945 075 1388	INDUCTOR,10U M
L5603	652 002 8500	INDUCTOR 330 OHM
L5606	652 002 8500	INDUCTOR 330 OHM
L5608	652 002 8500	INDUCTOR 330 OHM
L5609	652 002 8500	INDUCTOR 330 OHM
L561	652 002 8500	INDUCTOR 330 OHM
L562	652 002 8500	INDUCTOR 330 OHM
L5701	652 002 8500	INDUCTOR 330 OHM
L5702	652 002 8500	INDUCTOR 330 OHM
L5703	652 002 8500	INDUCTOR 330 OHM
L5830	652 002 8500	INDUCTOR 330 OHM
L5831	652 002 8500	INDUCTOR 330 OHM
L5832	652 002 8500	INDUCTOR 330 OHM
L5833	652 002 8500	INDUCTOR 330 OHM
L5841	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L5842	945 075 1388	INDUCTOR,10U M
L5844	652 002 8500	INDUCTOR 330 OHM
L5845	652 002 8500	INDUCTOR 330 OHM
L5846	652 002 8500	INDUCTOR 330 OHM
L5851	652 002 8500	INDUCTOR 330 OHM
L5861	945 075 1388	INDUCTOR,10U M
L5863	945 040 6455	INDUCTOR,4.7U M
L5867	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L5868	652 002 8500	INDUCTOR 330 OHM
L5869	652 002 8500	INDUCTOR 330 OHM
L7811	652 002 8777	INDUCTOR,33U,N
L7841	652 002 8777	INDUCTOR,33U,N
L7861	652 002 8777	INDUCTOR,33U,N
L8001	945 086 6600	IMPEDANCE,220 OHM P
L8002	945 086 6600	IMPEDANCE,220 OHM P
L8003	945 086 6600	IMPEDANCE,220 OHM P
L8004	945 086 6600	IMPEDANCE,220 OHM P
L8006	945 086 6600	IMPEDANCE,220 OHM P
L8007	945 086 6600	IMPEDANCE,220 OHM P
L8010	945 070 3660	INDUCTOR,90 OHM
L8011	945 070 3660	INDUCTOR,90 OHM
L8012	945 070 3660	INDUCTOR,90 OHM
L8013	945 070 3660	INDUCTOR,90 OHM
L8081	652 002 8500	INDUCTOR 330 OHM
L8091	945 086 6600	IMPEDANCE,220 OHM P
L8166	652 002 8524	INDUCTOR 220 OHM
L8301	945 031 2688	INDUCTOR,3.3U M
L8801	945 068 8318	FILTER,EMI 100MHZ
DIODE		
D001	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D002	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D1031	307 210 5416	DIODE RB551V-30-TE-17
D1041	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D1042	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D1091	307 205 5216	DIODE RB521S-30-TE61
D1092	307 205 5216	DIODE RB521S-30-TE61
D2891	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D2892	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D2893	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D2894	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D3051	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3601	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3602	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3603	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3604	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3611	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3612	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3613	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3614	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3616	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3617	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3621	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3622	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3623	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3626	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3627	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D3628	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61

Electrical Parts List

Key No.	Part No.	Description
D3644	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D4812	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D4813	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D5061	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D5062	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D5602	307 210 5416	DIODE RB551V-30-TE-17
D5603	307 210 5416	DIODE RB551V-30-TE-17
D5622	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D5623	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D5624	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D591	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D592	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D6801	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6802	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6803	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6831	307 209 7513	LED SML-210YT T86 L
D6832	307 203 7816	LED SML-210LT T86 M
D6833	307 222 4810	LED SML-521MUW T86
D6841	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6842	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6843	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6844	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6850	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6852	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6853	307 163 0414	DIODE 1SS352-(TPH)
	307 149 0810	DIODE 1SS355-TE-17
D6854	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6855	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6856	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6857	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D7812	307 254 2716	DIODE CMS16
D7842	307 254 2716	DIODE CMS16
D7862	307 254 2716	DIODE CMS16
D8081	307 254 2716	DIODE CMS16
D8082	307 210 1923	DIODE 1SS400 TE-61
D8091	307 254 2716	DIODE CMS16
D8092	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D8093	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D8094	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-61
D8902	307 235 0816	DIODE 1SS387 TPL3
	307 210 1923	DIODE 1SS400 TE-1

Key No.	Part No.	Description
MISCELLANEOUS		
K10A	945 075 4945	SOCKET,IF(HDMI) 19P
	645 095 3637	SOCKET,IF(HDMI) 19P
	945 085 7431	SOCKET,IF(HDMI) 19P
K10B	952 001 8601	SOCKET,D-SUB 15P
K10C	952 001 8571	SOCKET,D-SUB 15P
K40B	652 002 8135	PLUG,D-SUB 9P
K9602	645 093 6760	TRANS,PULSE
SC1031	945 076 3503	SURGE-ABSORBER
SC1041	945 076 3503	SURGE-ABSORBER
SC1081	945 076 3503	SURGE-ABSORBER
SC1091	945 076 3503	SURGE-ABSORBER
SC3081	945 076 3503	SURGE-ABSORBER
SC3082	945 076 3503	SURGE-ABSORBER
SC8001	945 076 3503	SURGE-ABSORBER
SC8002	945 076 3503	SURGE-ABSORBER
SW6801	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6802	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6803	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6804	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6806	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6807	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6808	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6810	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
SW6811	945 026 2792	SWITCH,PUSH 1P-1TX1
	952 001 8830	SWITCH,PUSH 1P-1TX1
X1351	945 088 7179	OSC,CRYSTAL 27.0MHZ
X2202	945 076 2407	OSC,CRYSTAL 25.000MHZ
X8001	945 088 7179	OSC,CRYSTAL 27.0MHZ
X8802	945 083 7556	OSC,CRYSTAL 25.0MHZ
X9885	945 060 9900	OSC,CERAMIC 8.00MHZ

655 002 9454 ASSY,PWB,AV KE5AC

CAPACITOR			
C2001	303 453 8610	CERAMIC	0.1U K 16V
	303 409 3426	CERAMIC	0.1U K 16V
C3051	303 453 6319	CERAMIC	100P J 50V
	303 454 0910	CERAMIC	100P J 50V
	303 294 6110	CERAMIC	100P J 50V
C3061	303 453 6319	CERAMIC	100P J 50V
	303 454 0910	CERAMIC	100P J 50V
	303 294 6110	CERAMIC	100P J 50V
RESISTOR			
R2001	301 260 4115	MT-GLAZE	75 JA 1/3W
R2002	301 224 8814	MT-GLAZE	100 JA 1/16W
R2008	301 150 6014	MT-GLAZE	0.000 ZA 1/10W
R2010	301 150 6014	MT-GLAZE	0.000 ZA 1/10W
R2012	301 260 4115	MT-GLAZE	75 JA 1/3W
R2022	301 260 4115	MT-GLAZE	75 JA 1/3W
R2051	301 150 5819	MT-GLAZE	100K JA 1/10W
R2052	301 150 5819	MT-GLAZE	100K JA 1/10W
R3001	301 150 5819	MT-GLAZE	100K JA 1/10W
R3011	301 150 5819	MT-GLAZE	100K JA 1/10W
R3021	301 224 8913	MT-GLAZE	100K JA 1/16W
R3031	301 150 5819	MT-GLAZE	100K JA 1/10W
R3051	301 150 5819	MT-GLAZE	100K JA 1/10W

Key No.	Part No.	Description
R3061	301 255 6513	MT-GLAZE 100 JA 1/10W
R3063	301 150 5819	MT-GLAZE 100K JA 1/10W
R3064	301 255 6513	MT-GLAZE 100 JA 1/10W
COIL		
L2001	945 068 8318	FILTER,EMI 100MHZ
L2011	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L2012	945 068 8318	FILTER,EMI 100MHZ
L2021	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L2022	945 068 8318	FILTER,EMI 100MHZ
L2051	945 086 7454	FILTER,EMI 50MHZ
L2052	945 086 7454	FILTER,EMI 50MHZ
L3001	945 086 7454	FILTER,EMI 50MHZ
L3011	945 086 7454	FILTER,EMI 50MHZ
L3021	945 086 7454	FILTER,EMI 50MHZ
L3031	945 086 7454	FILTER,EMI 50MHZ
L3062	945 086 7454	FILTER,EMI 50MHZ
L3063	945 086 7454	FILTER,EMI 50MHZ
MISCELLANEOUS		
K20A	945 068 3740	JACK,RCA-3
K20B	645 089 9041	SOCKET,DIN 4P
K30A	945 006 4792	JACK,PHONE D3.6
	952 001 0070	JACK,PHONE D3.6
K30B	945 006 4792	JACK,PHONE D3.6
	952 001 0070	JACK,PHONE D3.6
K30C	945 006 4792	JACK,PHONE D3.6
	952 001 0070	JACK,PHONE D3.6
SC2001	945 076 3503	SURGE-ABSORBER
SC2011	945 076 3503	SURGE-ABSORBER
SC2021	945 076 3503	SURGE-ABSORBER
SC2051	945 076 3503	SURGE-ABSORBER
SC2052	945 076 3503	SURGE-ABSORBER
SC3001	945 076 3503	SURGE-ABSORBER
SC3011	945 076 3503	SURGE-ABSORBER
SC3021	945 076 3503	SURGE-ABSORBER
SC3031	945 076 3503	SURGE-ABSORBER
SC3051	945 076 3503	SURGE-ABSORBER
SC3061	945 076 3503	SURGE-ABSORBER

655 002 9447 ASSY,PWB,R/C KE5AC

Key No.	Part No.	Description
CAPACITOR		
C2901	403 455 1012	CERAMIC 1U K 10V
	303 433 1112	CERAMIC 1U K 10V
C2902	303 453 8719	CERAMIC 470P K 50V
	303 453 9211	CERAMIC 470P K 50V
	303 282 5118	CERAMIC 470P K 50V
C2903	303 368 7319	CERAMIC 10U K 6.3V
C8833	303 453 8917	CERAMIC 0.1U K 16V
	303 453 8610	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
RESISTOR		
R2901	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R2903	301 224 8814	MT-GLAZE 100 JA 1/16W
R8831	301 225 8110	MT-GLAZE 10 JA 1/16W
R8832	301 225 8110	MT-GLAZE 10 JA 1/16W
MISCELLANEOUS		
A2901	652 002 3352	UNIT,REMOCON,RECEIVER
SC2091	945 076 3503	SURGE-ABSORBER
SC2092	945 076 3503	SURGE-ABSORBER

655 002 9430 ASSY,PWB,ID CONNECT-1 KE5AC

Key No.	Part No.	Description
RESISTOR		
R8738	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
COIL		
L8731	945 086 6037	IMPEDANCE,330 OHM P
L8732	945 086 6037	IMPEDANCE,330 OHM P
L8733	945 086 6037	IMPEDANCE,330 OHM P
L8734	945 086 6037	IMPEDANCE,330 OHM P
L8737	945 086 6037	IMPEDANCE,330 OHM P

PACKING MATERIALS

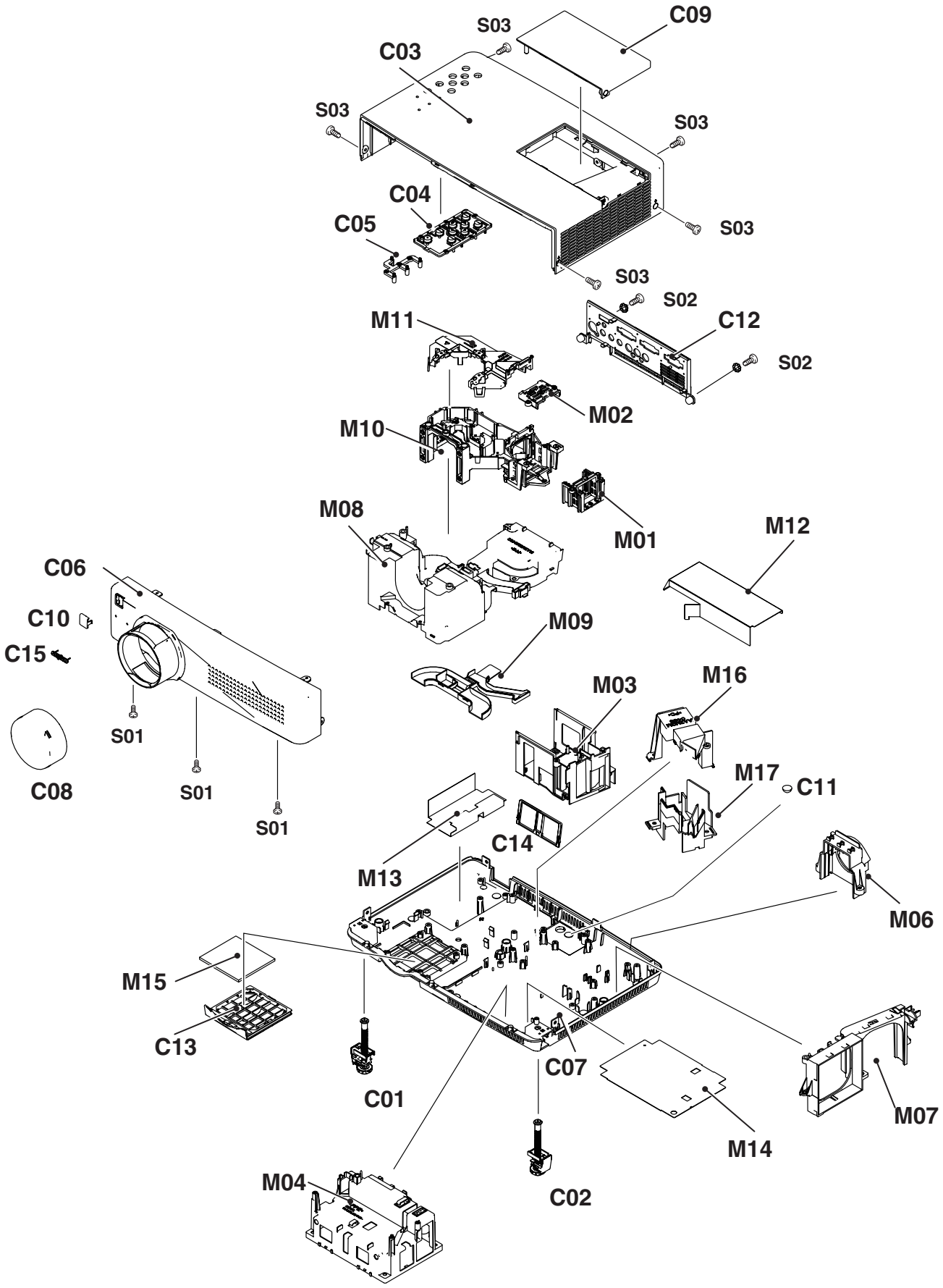
Key No.	Part No.	Description
	610 345 4955	CARTON CASE-KE5AC
	610 340 0297	POLY BAG-KB3AC
	610 344 5762	CUSHION SPACER-KG5AC
	610 343 1659	CUSHION TOP-KG5AC
	610 343 1642	CUSHION BTM-KG5AC

ACCESSORIES

Key No.	Part No.	Description
OWNER'S MANUAL		
	610 343 6456	CD-ROM(PJ NW MANAGER)
	610 344 5267	CD-ROM,OWNERS MANUAL-KE5AC
	655 002 9294	SETUP INST-KE5AC
	655 003 0641	SAFETY MANUAL-KG5AC
REMOTE CONTROL		
	645 099 3190	ASSY,REMOCON MXAC
	610 344 9944	RC-BATTERY LID-MXAC
AC CORD		
⚠US	645 093 3028	CORD,POWER-2.3MK,US
⚠EU	645 093 2984	CORD,POWER-2.3M,EU
⚠UK	645 093 3004	CORD,POWER-2.3M,UK
MISCELLANEOUS		
	610 343 0249	STRAP CAP-KT7AC
	610 342 8024	CARRY BAG-KL6A
	945 073 4855	CABLE,INTERFACE VGA
	645 093 1642	CABLE,INTERFACE VGA

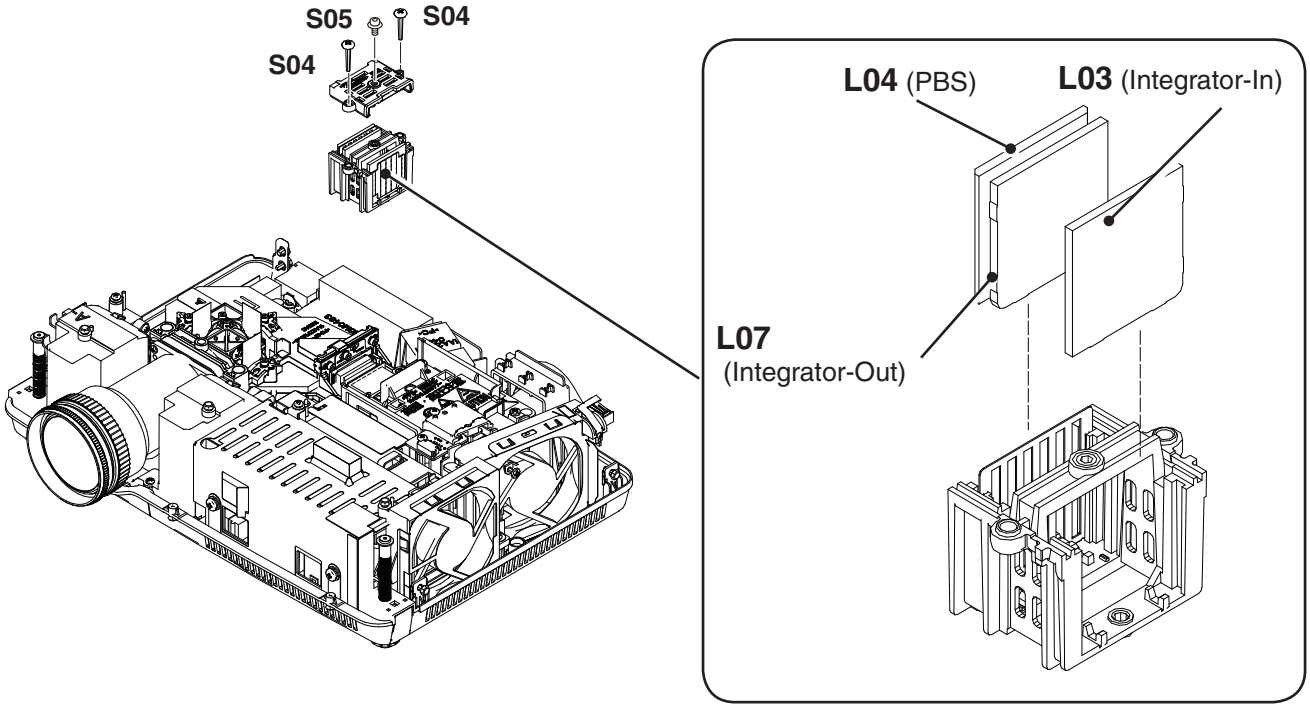
Mechanical Parts List

Cabinet Parts Location

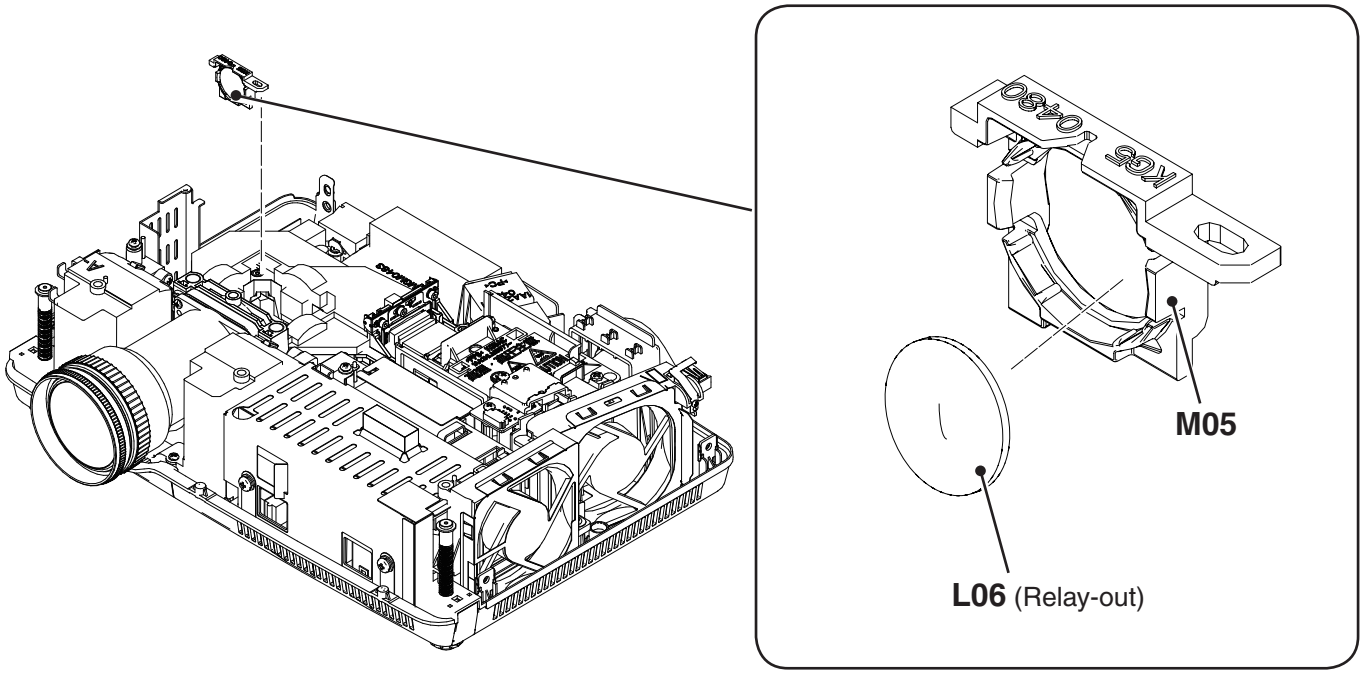


Optical Parts Location

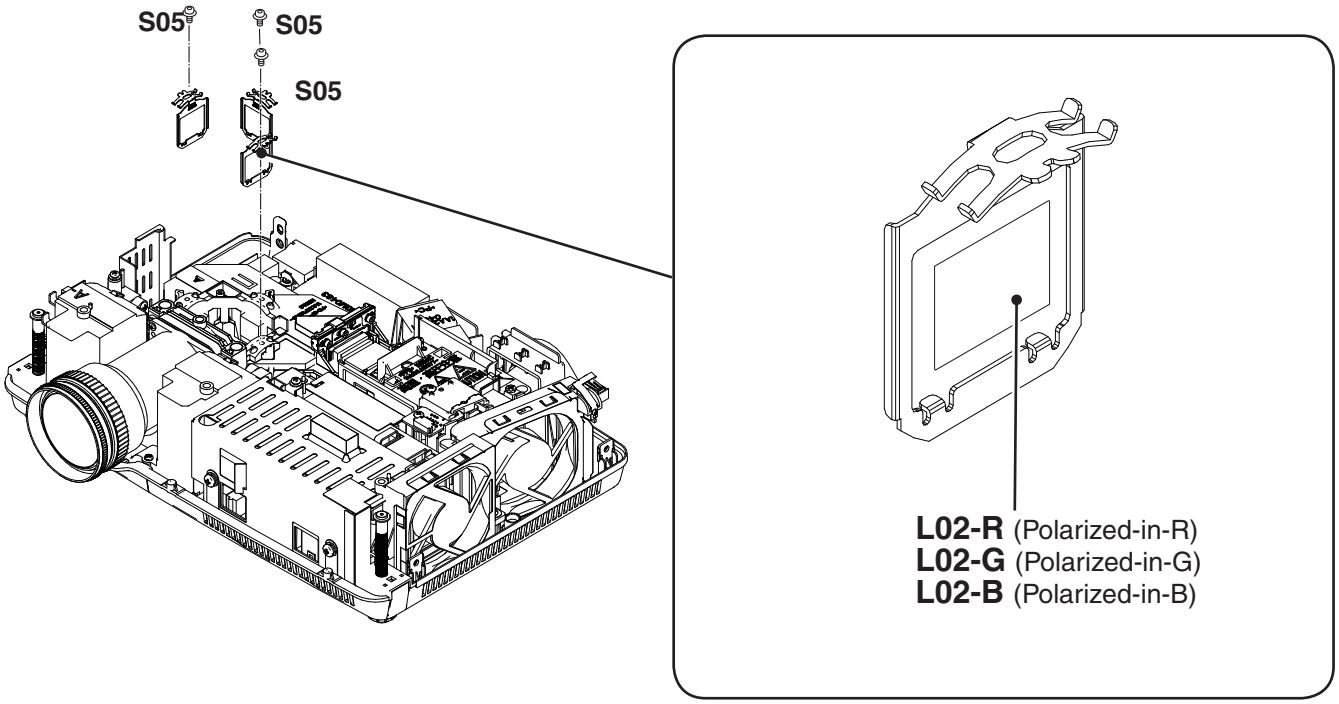
Integrator Lens-In



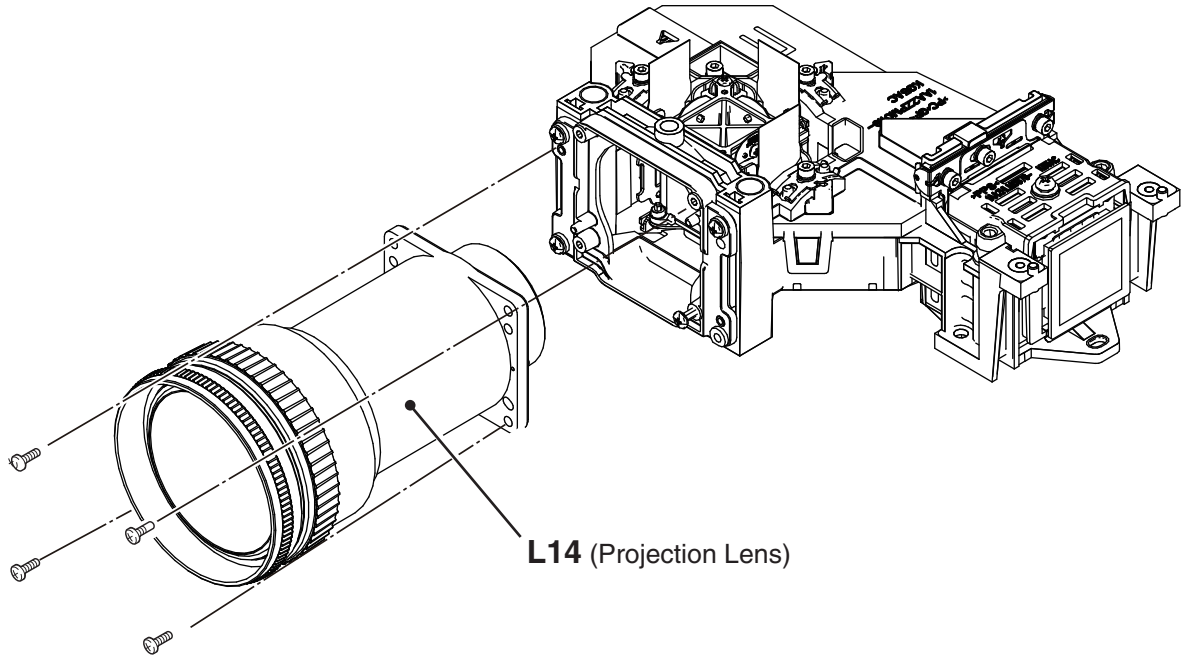
Relay Lens-Out



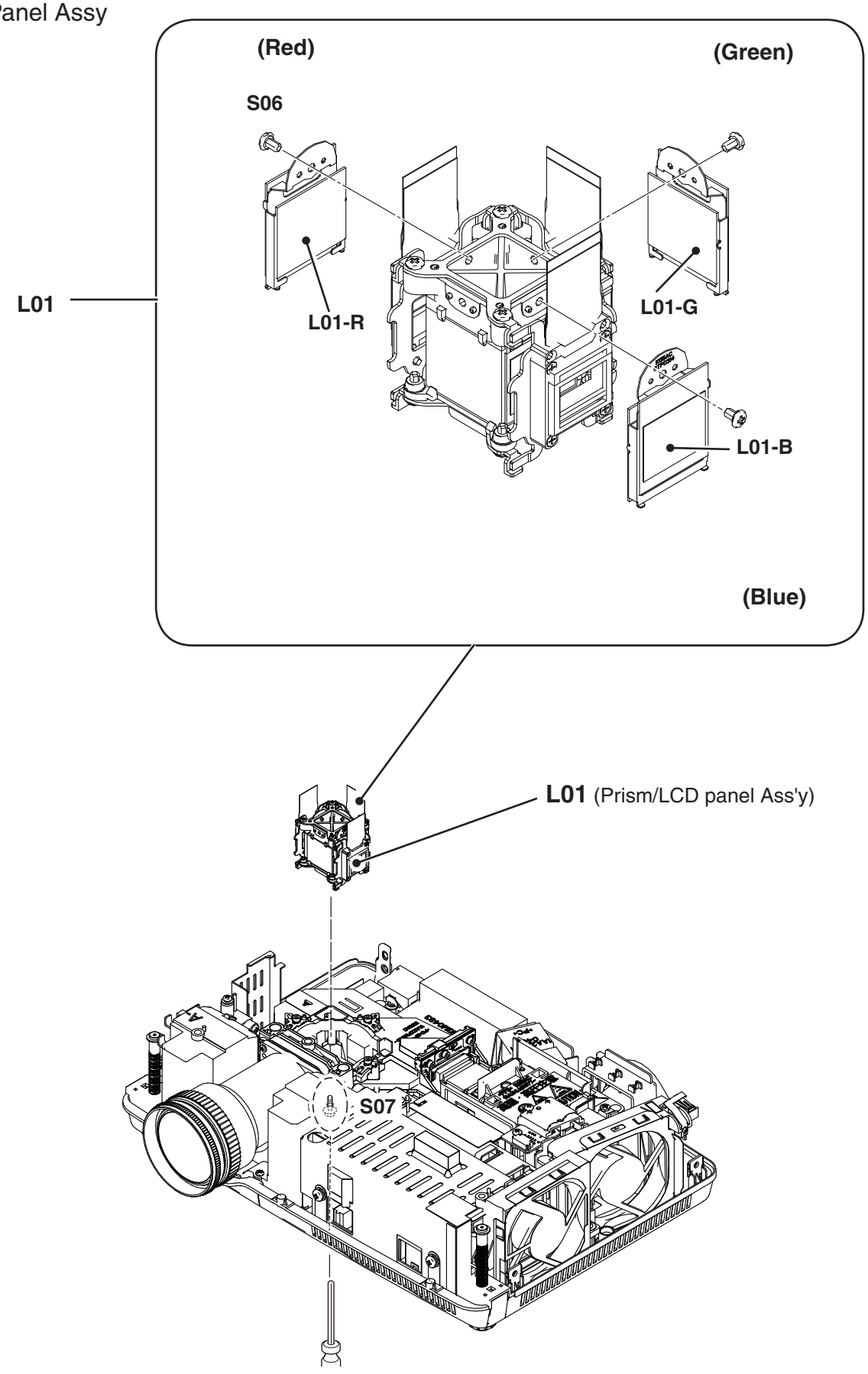
Polarized Glass-In



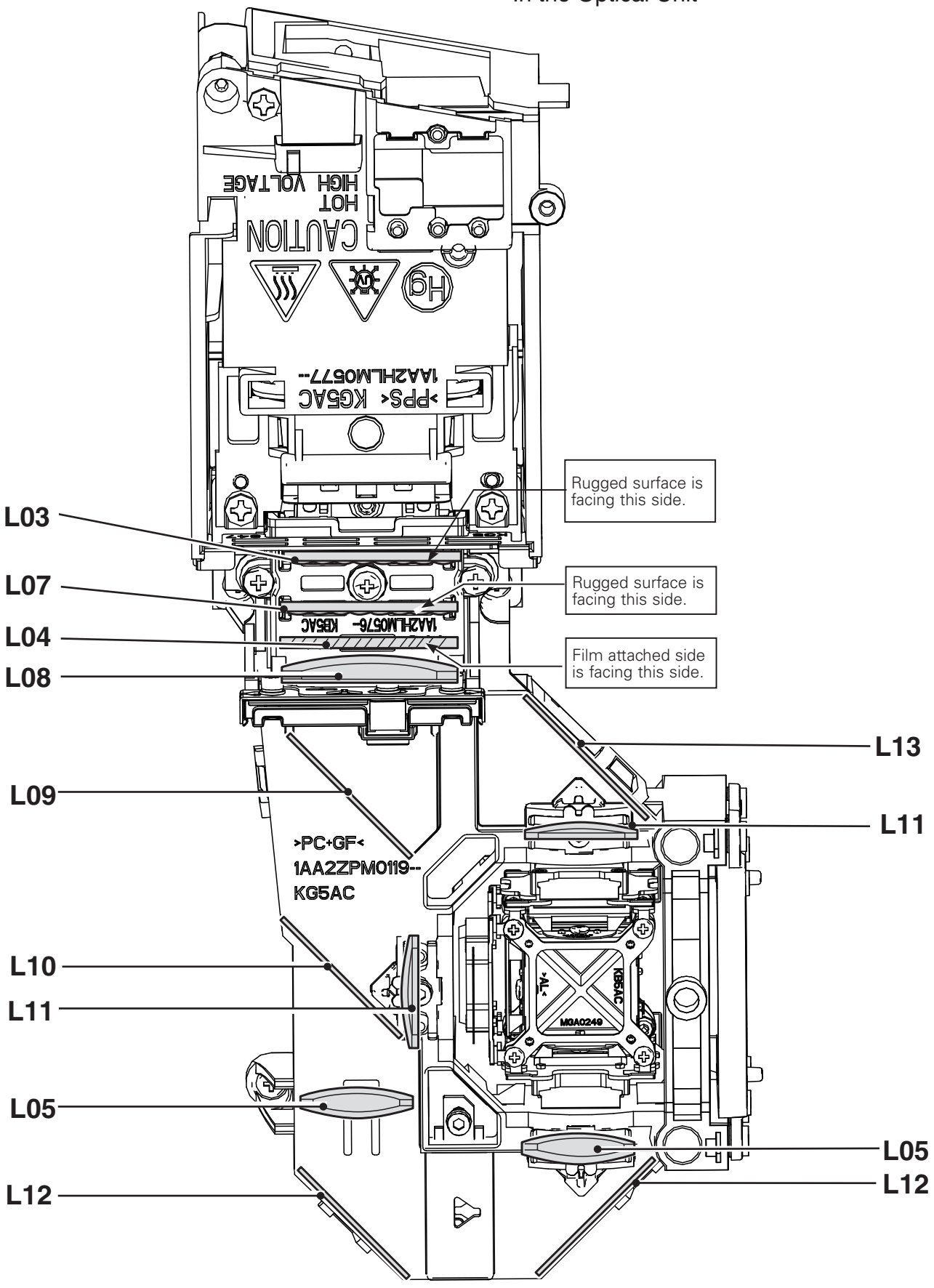
Projection Lens



Prism/LCD Panel Assy



In the Optical Unit



Mechanical Parts List

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

Key No.	Part No.	Description
CABINET PARTS		
C01	610 343 2045	ASSY STAND LEFT-KG5AC
C02	610 343 2052	ASSY STAND RIGHT-KG5AC
C03	610 345 5242	CABINET TOP SERVICE-KE5AC
C04	610 343 0959	BUTTON CONTROL-KG5AC
C05	610 344 1788	DEC INLAY LED-KF5AC
C06	610 343 0904	CABINET FRONT-KG5AC
C07	610 343 0881	CABINET BTM-KG5AC
C08	610 346 4268	CAP LENS-KG5AC
C09	610 344 3171	COVER ,LP SERVICE-KG5AC
C10	610 343 0942	DEC INLAY RC-KG5AC
C11	910 325 2477	DEC LEG-PT5EC
C12	610 344 1795	PANEL AV-KE5AC
C13	610 343 3943	PANEL NET F-KG5AC
C14	610 343 3950	PANEL NET B-KG5AC
C15	945 047 8032	BADGE,SANYO*26.2X5.7L26.0
CHASSIS PART		
M01	610 342 5795	HOLDER INT PBS BTM-KG5AC
M02	610 342 5788	HOLDER INT PBS TOP-KG5AC
M03	610 343 1093	HOLDER LAMP HOUSE-KG5AC
M04	610 343 1109	HOLDER POW PWB-KG5AC
M05	610 343 1314	MTG RELAY OUT-KG5AC
M06	610 343 1307	MTG SPEAKER-KG5AC
M07	610 343 1352	MTG EXHAUST FAN-KG5AC
M08	610 345 4665	MOUNTING DUCT PNL TOP-KB5AC
M09	610 345 4672	MOUNTING DUCT PNL BTM-KB5AC
M10	610 342 5771	OPTICAL BASE BTM-KG5AC
M11	610 343 1086	OPTICAL BASE TOP-KG5AC
M12	610 343 1550	SPACER SHEET POWER TOP-KG5AC
M13	610 343 1543	SPACER SHEET FILTER A-KG5AC
M14	610 347 0399	SPACER_SHEET_POWER_BTM_KG5AC
M15	610 343 1581	SPACER SPONGE NET-KG5AC
M16	610 343 1345	MOUNTING DUCT LAMP TOP-KG5AC
M17	610 343 1376	MOUNTING DUCT LAMP BTM-KG5AC
SCREWS		
S01	411 077 8606	SCR TPG FLT 3x8
S02	411 189 8907	SCR BIN 4x4
S03	411 031 9304	SCR BIN 3x8
S04	411 189 8303	SCR BIN 3X14
S05	412 077 8108	SPECIAL SCREW-2.5X6
S06	411 190 9108	SCR BIN 2X4
S07	312 070 3400	SPECIAL SCREW-3.0X10V
OPTICAL PARTS		
L01	610 347 4960	ASSY,PNL/PSM-KE5AC
	(Including Key No.L01-R to L01-B)	
L01-G	610 346 3131	COMPL POL G-KD5AC
L01-B	610 346 3155	COMPL POL B-KD5AC
L01-R	610 346 3148	COMPL P-POL R-KD5AC
L02-G	610 346 5531	ASSY,POL G IN-KG5AC
L02-R	610 346 5562	ASSY,POL R IN-KG5AC
L02-B	610 346 5548	ASSY,POL B IN-KD5AC
L03	645 099 9161	LENS,INTEGRATOR(IN)
L04	945 086 6372	PRISM(PBS)
L05	645 099 0571	LENS,RELAY(IN)
L06	645 099 0601	LENS,RELAY(OUT)
L07	645 099 9178	LENS,INTEGRATOR(OUT)
L08	645 099 9109	LENS,CONDENSER(OUT)NC
L09	645 099 7396	DICHROIC MIRROR (B)
L10	645 099 7402	DICHROIC MIRROR (G)
L11	645 096 4657	LENS,CONDENSER(G)
L12	645 096 4718	MIRROR(R)
	645 101 0254	MIRROR(R)
L13	645 096 4701	MIRROR(B)
	645 101 0247	MIRROR(B)
L14	645 099 2568	LENS,PROJECTION

(KE5AC) July. 2009 DC 200 Printed in Japan

SANYO Electric Co., Ltd.

Diagrams & Drawings

Schematic Diagrams
Printed Wiring Board Drawings

Model	Chassis No.
PLC-WXU300	KE5-WXU30000

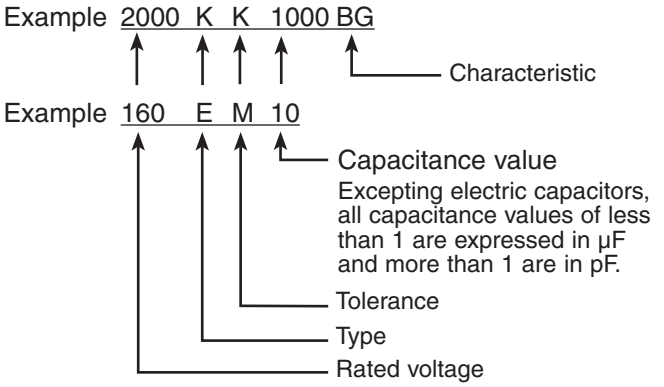
These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KE5-WXU30000, model PLC-WXU300.
File with the service manual No. SM5111074-00.

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

Parts description and reading in schematic diagram

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

Capacitor Reading



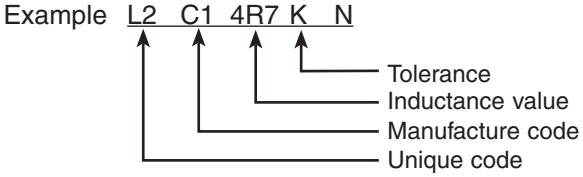
● **Material table**

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

● **Tolerance table**

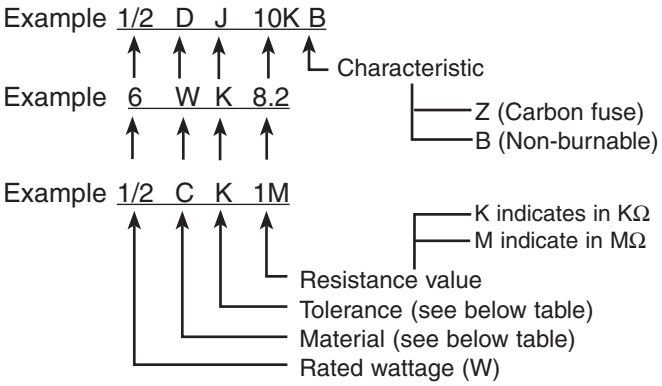
Mark	Tolerance	
A	not specified	
B	±0.1	
C	±0.25	
D	±0.5	
F	±1	
G	±2	
E	±2.5	
H	±3	
J	±5	
K	±10	
M	±20	
N	±30	
P	+100	-0
Q	+30	-10
T	+50	-10
U	+75	-10
V	+20	-10
W	+100	-10
X	+40	-20
Y	+150	-10
Z	+80	-20

Coil Reading



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

Resistor Reading



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

● **Material table**

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

● **Tolerance table**

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

Diode/Transistor Type Reading

● **Diode**

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

● **Transistor**

(1) NPN type

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

(2) PNP type

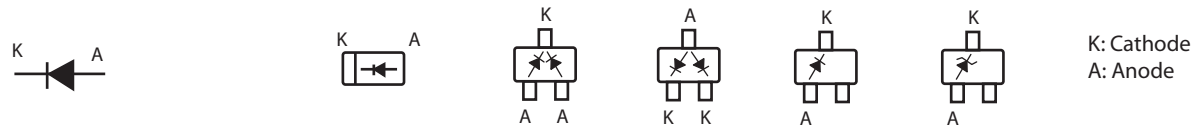
Mark	Type number			
--	2SA608	2SA564A	2SA1015	2SA933S
AB	NF	R	Y, GR	R
AC	NF	Q, R	O, Y, GR	Q, R

(3) Chip type

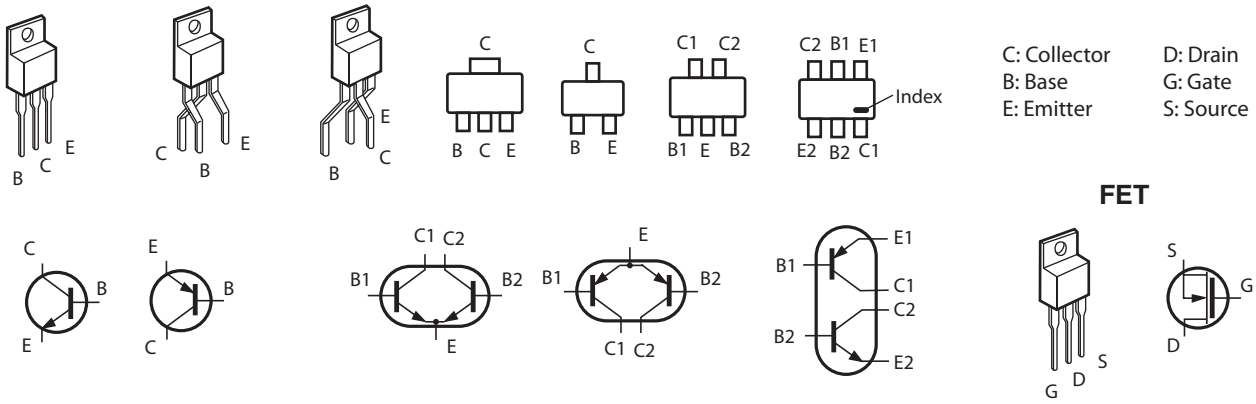
Mark	Type number				
--	2SA1179N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

Pin description of diode, transistor and IC

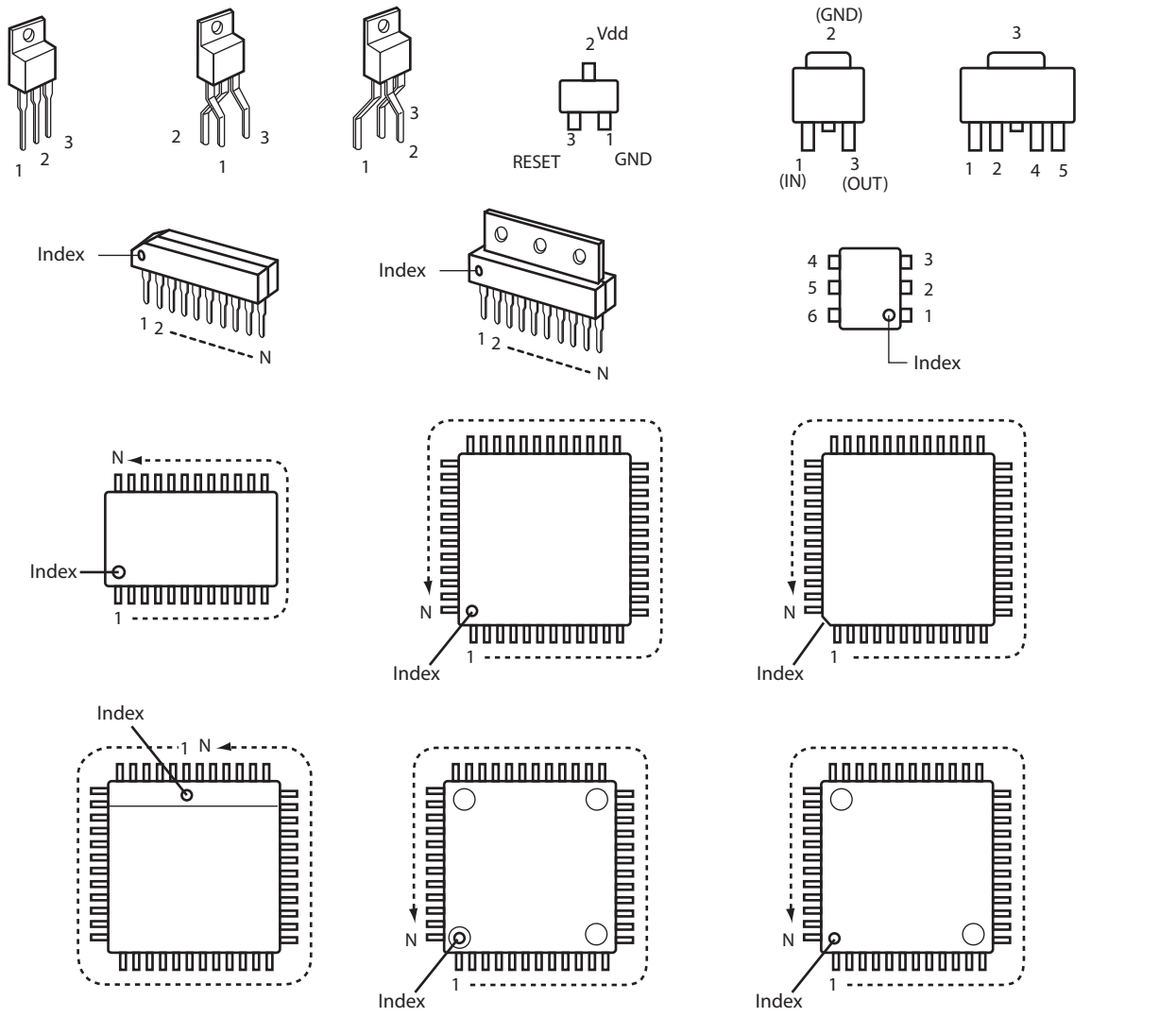
● Diode



● 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.

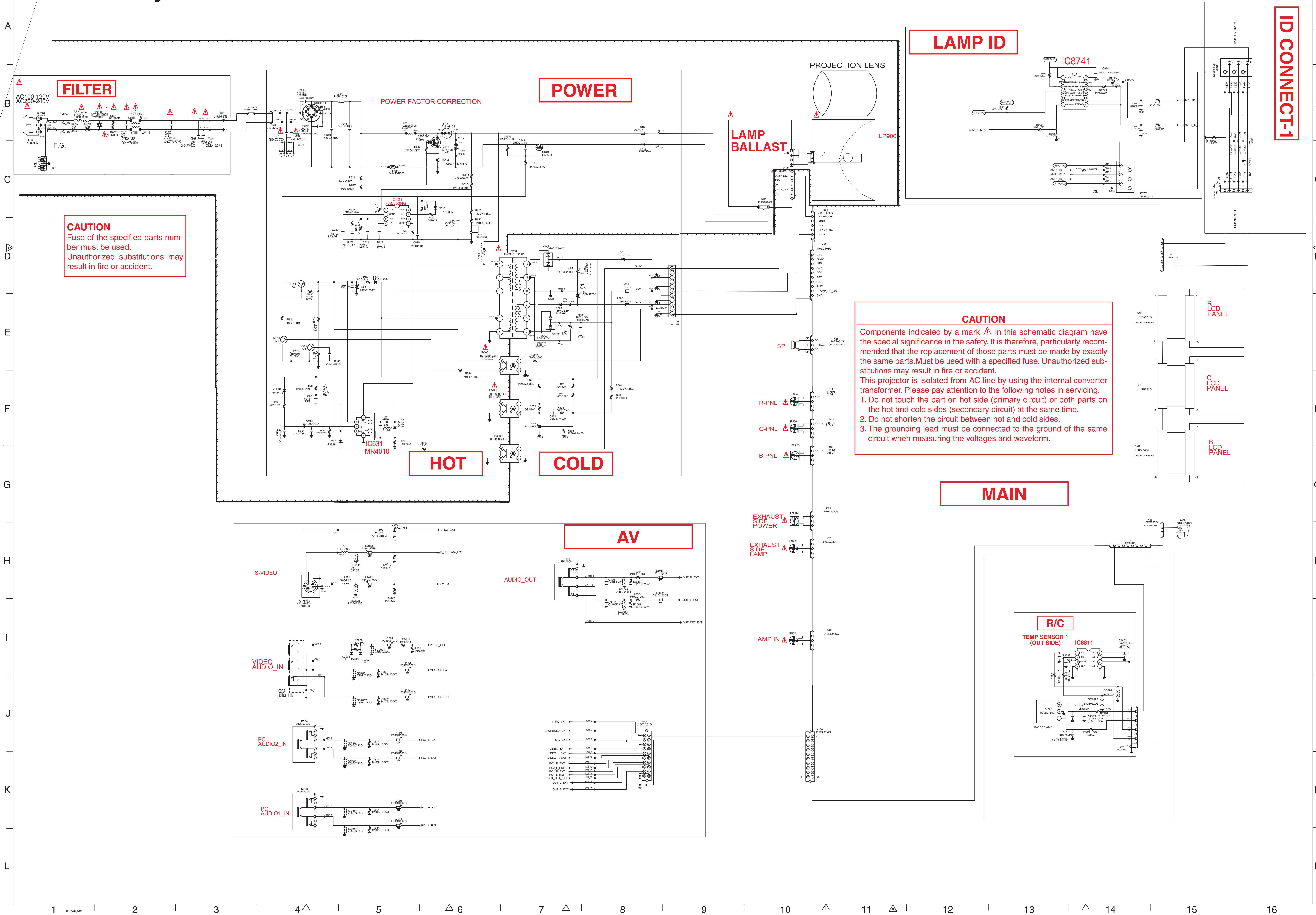
Solder

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.


FILTER
AC100-120V
AC200-240V
F.G.
POWER
POWER FACTOR CORRECTION
IC621
FA5550NG
IC631
MR4010
HOT
COLD
CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.
PROJECTION LENS
LAMP BALLAST
LP900
LAMP ID
IC8741
ID CONNECT-1
R LCD PANEL
G LCD PANEL
B LCD PANEL
CAUTION
Components indicated by a mark ⚠ 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.
SP
R-PNL
G-PNL
B-PNL
MAIN
EXHAUST SIDE POWER
EXHAUST SIDE LAMP
LAMP IN
AV
S-VIDEO
AUDIO_OUT
VIDEO AUDIO_IN
PC AUDIO2_IN
PC AUDIO1_IN
R/C
TEMP SENSOR 1 (OUT SIDE)
IC8811

S-VIDEO
VIDEO
AUDIO_IN
PC
AUDIO_IN
AUDIO_OUT

SERVICE
PORT
SERIAL

HDMI1

IC8001
SII9127CTUM

IC2201

IC5301
TC7WH125FUK

IC4401
EL5308IUZP

IC4701
TC7WT125FK

IC1051
LE24C023M-EP

PC1
RGB
YCbCr/
SCART

PCanalog
IN 1

PC2
RGB-IN/
RGB-OUT

PCanalog
component
IN 2

PCanalog
monitor
OUT

MAIN-1

KE5AC-02

SCH_KE5AC

IC1301

IC1321

IC801

IC302
TC78Z125FUK

IC1391

IC301
PW392-30LM
<TOP_VIEW>

IC1341

IC1351
TC7WBD125AFK

IC1501
PQ070XNB17PH

IC5842
MP2307DNP

IC5860
MP2307DNP

IC5851
PQ070XNB1ZPH

IC3852
LA8426MLLP

IC3850
LIS244ALHTRJ

G-SENSOR

Option Resistor

*Please see the parts list

MAIN-2

SCH_KE5AC

A5

IC9883
TC7SZ125FUK

IC401
L3E07111K0AM

IC5621

TO IC561 (S&H)

TO IC531 (S&H)

TO IC501 (S&H)

FROM IC301 P3

FROM PW

FROM IC301

A SIDE

SWAP

<TOP_VIEW>

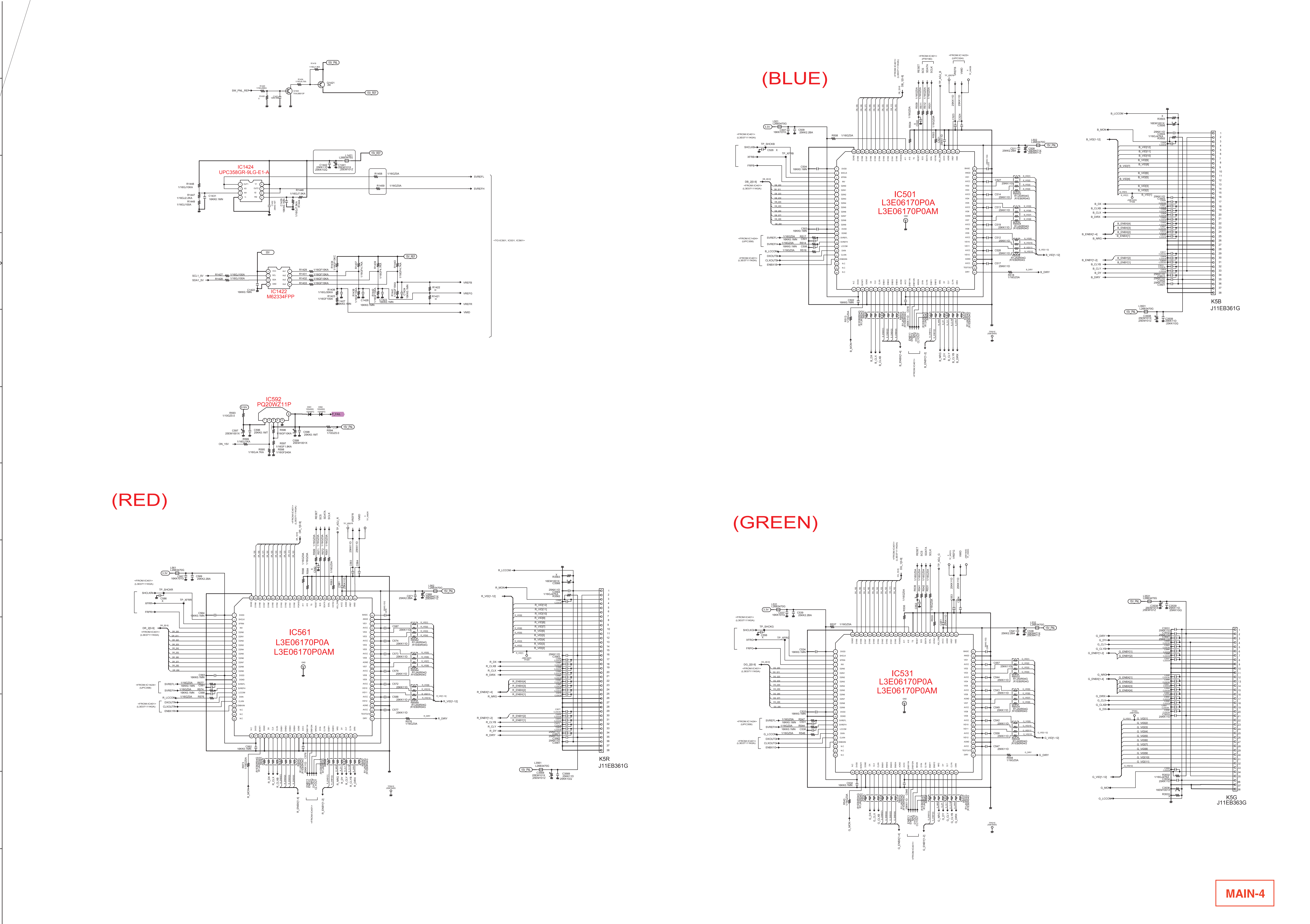
PWB:
1LG4B10W0280A
BOM:
1LG0B10W0450A

MAIN-3

KE5AC-04

A6

SCH_KE5AC



(BLUE)
IC501
L3E06170P0A
L3E06170P0AM
K5B
J11EB361G
IC1424
UPC358GR-9LG-E1-A
IC1422
M62334FPP
IC592
PQ20WZ11P
(RED)
IC561
L3E06170P0A
L3E06170P0AM
K5R
J11EB361G
(GREEN)
IC531
L3E06170P0A
L3E06170P0AM
K5G
J11EB363G
MAIN-4

LED

KEY SW

R/C

LAMP BALAST

LAMP COVER_ SW

ID

POWER

FN903 B-PNL

FN904 G-PNL

FN905 R-PNL

LAMP IN FN901

EXHAUST SIDE POWER FN902

EXHAUST SIDE LAMP FN906

IC7841 FA7701VG

IC7811 FA7703V-H1G

IC9882

IC4891 TC7SH00FUP

IC5001 QNJW1156AV--M

IC5601 MP2307DNP

IC5543

IC5542

IC8831

IC8821

IC001 TPA3123D2P

IC1031 NJM4558M

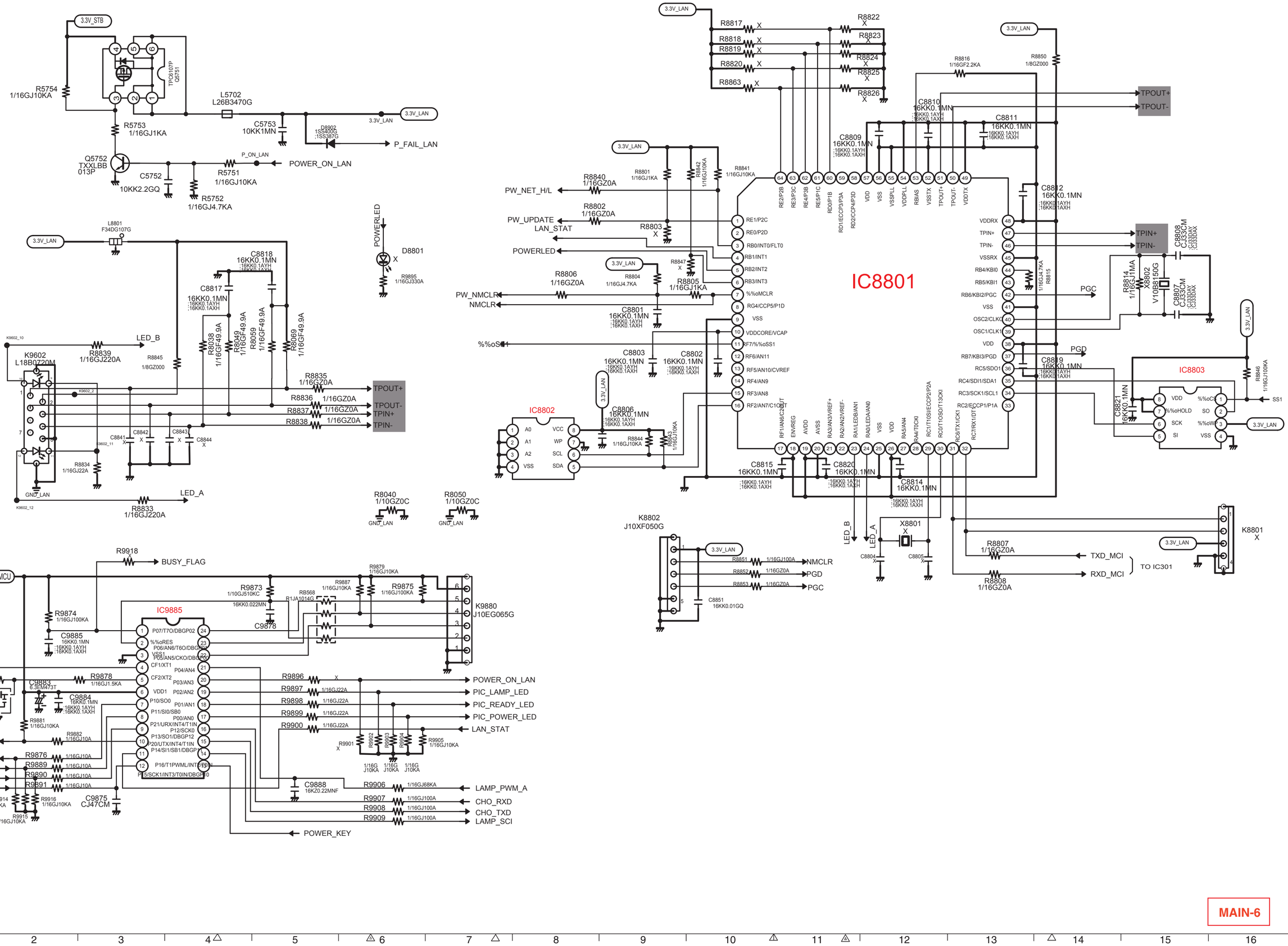
TPFANA

TPFANB

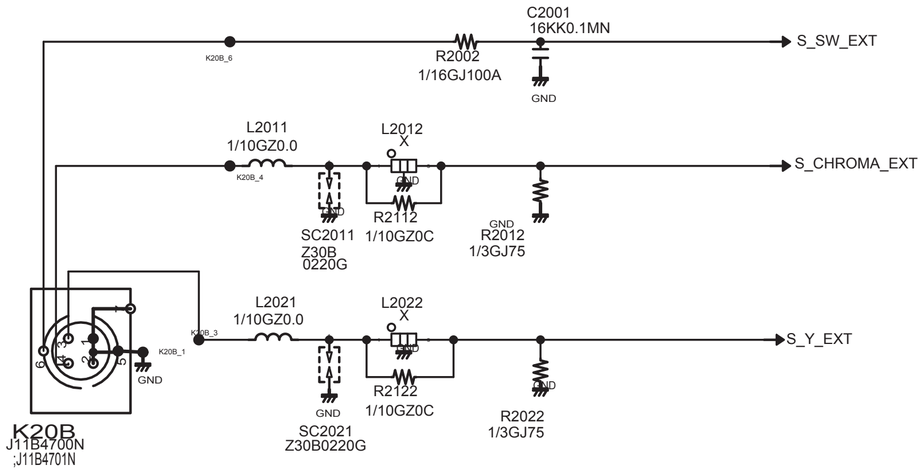
TPFANC

SP

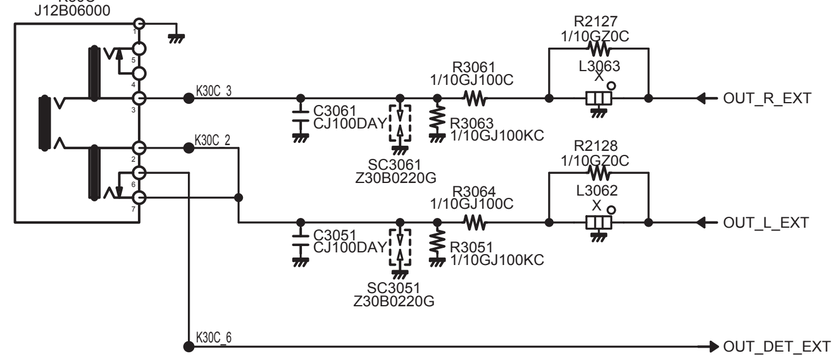
MAIN-5


3.3V_STB
TPC6107P
Q5751
R5754
1/16GJ10KA
L5702
L26B3470G
3.3V_LAN
C5753
10KK1MN
D8902
1SS400G
1SS387G
P_FAIL_LAN
R5753
1/16GJ1KA
Q5752
TXXLBB
013P
P_ON_LAN
POWER_ON_LAN
C5752
10KK2.2GQ
R5751
1/16GJ10KA
R5752
1/16GJ4.7KA
L8801
F34DG107G
POWERLED
D8801
R9895
1/16GJ330A
C8818
16KK0.1MN
C8817
16KK0.1MN
R8038
1/16GF49.9A
R8049
1/16GF49.9A
R8059
1/16GF49.9A
R8069
1/16GF49.9A
K9602_10
K9602
L18B0Z20M
LED_B
R8839
1/16GJ220A
R8845
1/8GZ000
R8835
1/16GZ0A
R8836
1/16GZ0A
R8837
1/16GZ0A
R8838
1/16GZ0A
TPOUT+
TPOUT-
TPIN+
TPIN-
C8841
C8842
C8843
C8844
R8834
1/16GJ22A
GND_LAN
LED_A
R8833
1/16GJ220A
K9602_12
R8040
1/10GZ0C
R8050
1/10GZ0C
GND_LAN
R9918
BUSY_FLAG
3.3V_MCU
R9873
1/10GJ510KC
16KK0.022MN
C9878
R9879
1/16GJ10KA
R9887
1/16GJ10KA
R9875
1/16GJ100KA
RB568
R1JA1014G
K9880
J10EG065G
R9874
1/16GJ100KA
C9885
16KK0.1MN
IC9885
P07/T7O/DBGP02
%%oRES
P06/AN6/T6O/DBGP01
VSS1
P05/AN5/CKO/DBGP00
CF1/XT1
P04/AN4
CF2/XT2
P03/AN3
VDD1
P02/AN2
P10/SO0
P01/AN1
P11/SI0/SB0
P00/AN0
P21/URX/INT4/T1IN
P12/SCK0
P13/SO1/DBGP12
P20/UTX/INT4/T1IN
P14/SI1/SB1/DBGP
P16/T1PWML/INT3/T0IN
P15/SCK1/INT3/T0IN/DBGP10
R9880
X
X9885
V11B1771G
C9883
6.3EM473T
R9878
1/16GJ1.5KA
C9884
16KK0.1MN
R9881
1/16GJ10KA
R9882
1/16GJ10A
POWER_SW
R9896
X
R9897
1/16GJ22A
R9898
1/16GJ22A
R9899
1/16GJ22A
R9900
1/16GJ22A
POWER_ON_LAN
PIC_LAMP_LED
PIC_READY_LED
PIC_POWER_LED
LAN_STAT
R9901
X
R9902
1/16G J10KA
R9903
1/16G J10KA
R9904
1/16G J10KA
R9905
1/16GJ10KA
PW_MASTER_SDO
PW_MASTER_SDI
PW_MASTER_SCK
R/C_MCU
R9876
1/16GJ10A
R9889
1/16GJ10A
R9890
1/16GJ10A
R9891
1/16GJ10A
R9914
1/16GJ10KA
R9916
1/16GJ10KA
R9915
1/16GJ10KA
C9875
CJ47CM
C9888
16KZ0.22MNF
R9906
1/16GJ68KA
R9907
1/16GJ100A
R9908
1/16GJ100A
R9909
1/16GJ100A
LAMP_PWM_A
CHO_RXD
CHO_TXD
LAMP_SCI
POWER_KEY
3.3V_LAN
R8817
X
R8818
X
R8819
X
R8820
X
R8863
X
R8822
X
R8823
X
R8824
X
R8825
X
R8826
X
R8816
1/16GF2.2KA
R8850
1/8GZ000
C8810
16KK0.1MN
C8811
16KK0.1MN
C8809
16KK0.1MN
C8812
16KK0.1MN
TPOUT+
TPOUT-
R8801
1/16GJ1KA
R8842
1/16GJ10KA
R8841
1/16GJ10KA
PW_NET_H/L
R8840
1/16GZ0A
PW_UPDATE
LAN_STAT
R8802
1/16GZ0A
R8803
X
POWERLED
R8804
1/16GJ4.7KA
R8847
X
R8806
1/16GZ0A
R8805
1/16GJ1KA
PW_NMCLR
NMCLR
C8801
16KK0.1MN
%%oSS1
C8803
16KK0.1MN
C8802
16KK0.1MN
IC8801
RE2/P2B
RE3/P3C
RE4/P3B
RE5/P1C
RD0/P1B
RD1/ECCP3/P3A
RD2/CCP4/P3D
VDD
VSS
VSSPLL
VDDPLL
RBIAS
VSSTX
TPOUT+
TPOUT-
VDDTX
RE1/P2C
RE0/P2D
RB0/INT0/FLT0
RB1/INT1
RB2/INT2
RB3/INT3
%%oMCLR
RG4/CCP5/P1D
VSS
VDDCORE/VCAP
RF7/%%oSS1
RF6/AN11
RF5/AN10/CVREF
RF4/AN9
RF3/AN8
RF2/AN7/C1OUT
VDDRX
TPIN+
TPIN-
VSSRX
RB4/KBI0
RB5/KBI1
RB6/KBI2/PGC
VSS
OSC2/CLKO
OSC1/CLK1
VDD
RB7/KBI3/PGD
RC5/SDO1
RC4/SDI1/SDA1
RC3/SCK1/SCL1
RC2/ECCP1/P1A
RF1/AN6/C2OUT
ENVREG
AVDD
AVSS
RA3/AN3/VREF+
RA2/AN2/VREF-
RA1/LEDB/AN1
RA0/LEDA/AN0
VSS
VDD
RA5/AN4
RA4/T0CKI
RC1/T1OSI/ECCP2/P2A
RC0/T1OSO/T13CKI
RC6/TX1/CK1
RC7/RX1/DT
R8815
1/16GJ4.7KA
PGC
PGD
C8819
16KK0.1MN
R8814
1/16GJ1MA
X8802
V10B8150G
C8808
CJ33CM
C8807
CJ33CM
IC8803
VDD
%%oCS
%%oHOLD
SO
SCK
%%oWP
SI
VSS
SS1
R8846
1/16GJ100KA
C8821
16KK0.1MN
IC8802
A0
A1
A2
VSS
VCC
WP
SCL
SDA
R8844
1/16GJ10KA
R8845
1/16GJ10KA
C8815
16KK0.1MN
C8820
16KK0.1MN
C8814
16KK0.1MN
K8802
J10XF050G
R8851
1/16GJ100A
NMCLR
R8852
1/16GZ0A
PGD
R8853
1/16GZ0A
PGC
C8851
16KK0.01GQ
LED_B
LED_A
X8801
X
C8804
C8805
R8807
1/16GZ0A
R8808
1/16GZ0A
TXD_MCI
RXD_MCI
TO IC301
K8801
X
MAIN-6

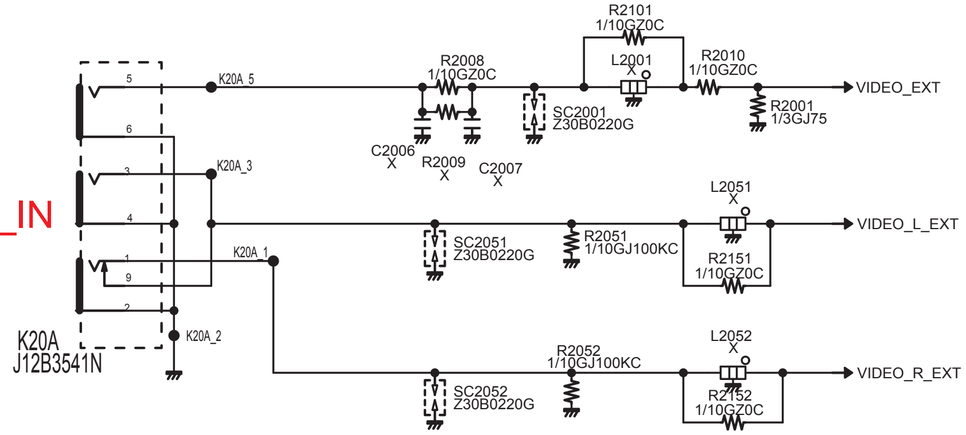
S-VIDEO



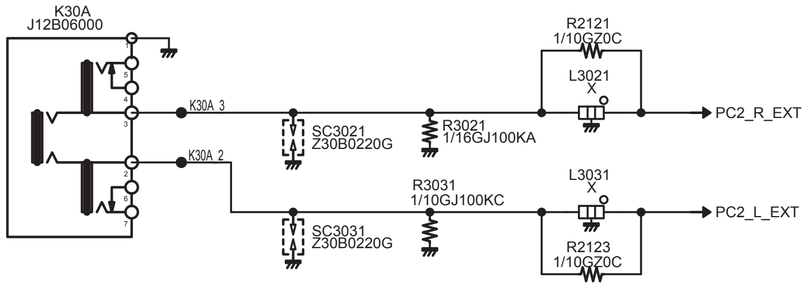
AUDIO_OUT



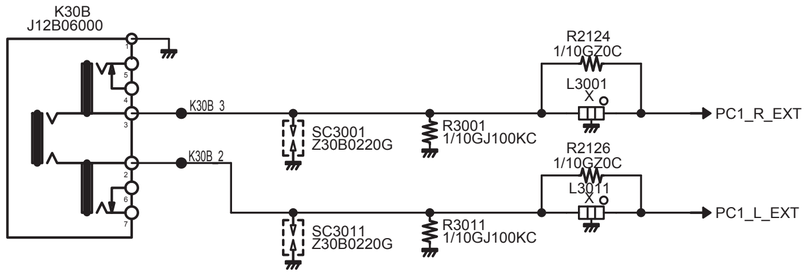
VIDEO AUDIO_IN

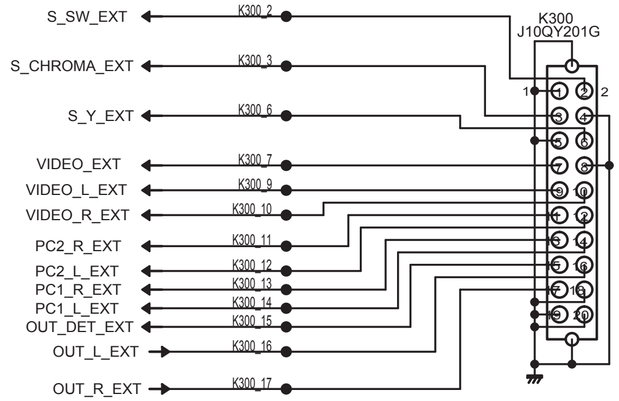


PC AUDIO2_IN

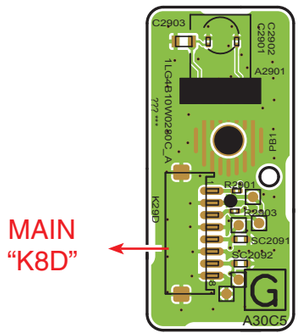


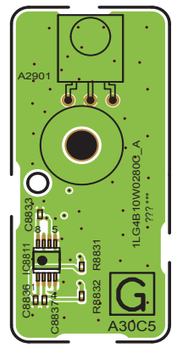
PC AUDIO1_IN

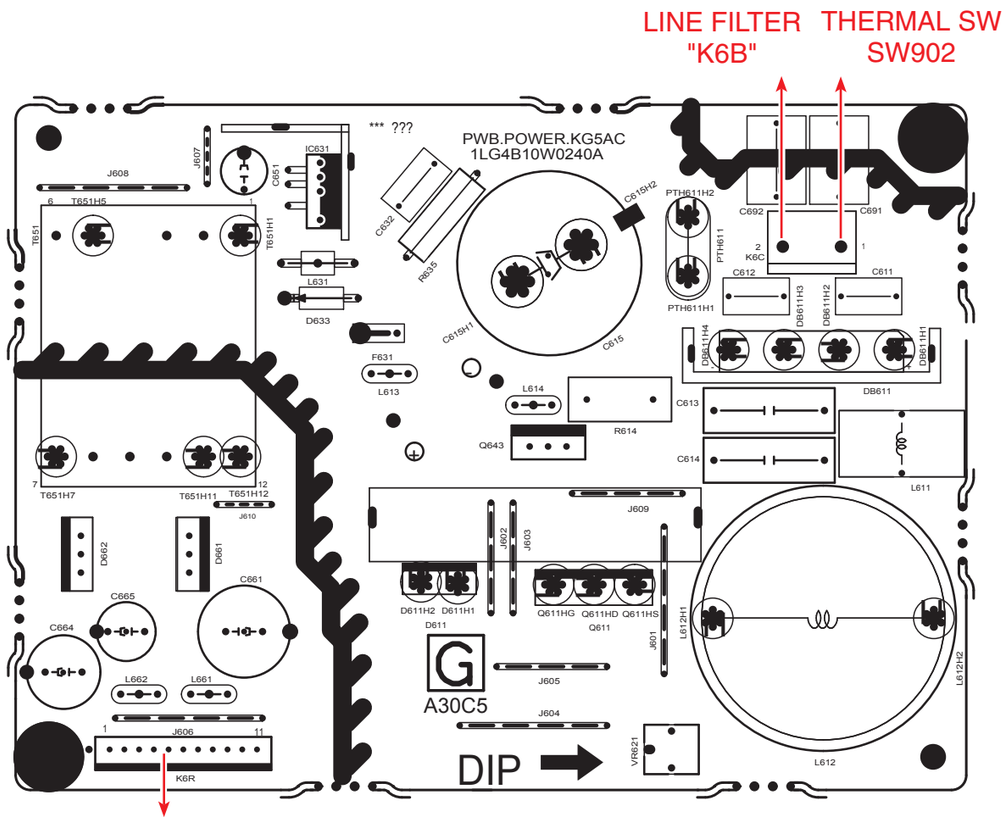


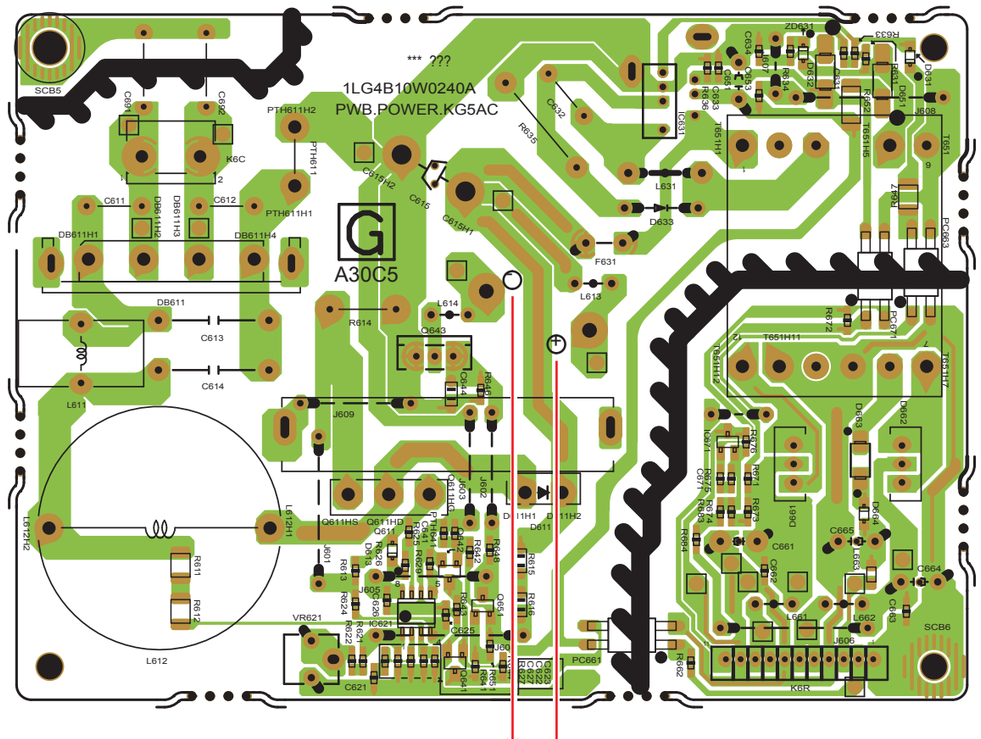


MAIN-7









Printed Wiring Board Diagrams

⚠ CAUTION

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

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

R/C (SIDE:A)

MAIN
“K8D”

R/C (SIDE:B)

POWER (SIDE:A)

LINE FILTER
"K6B"

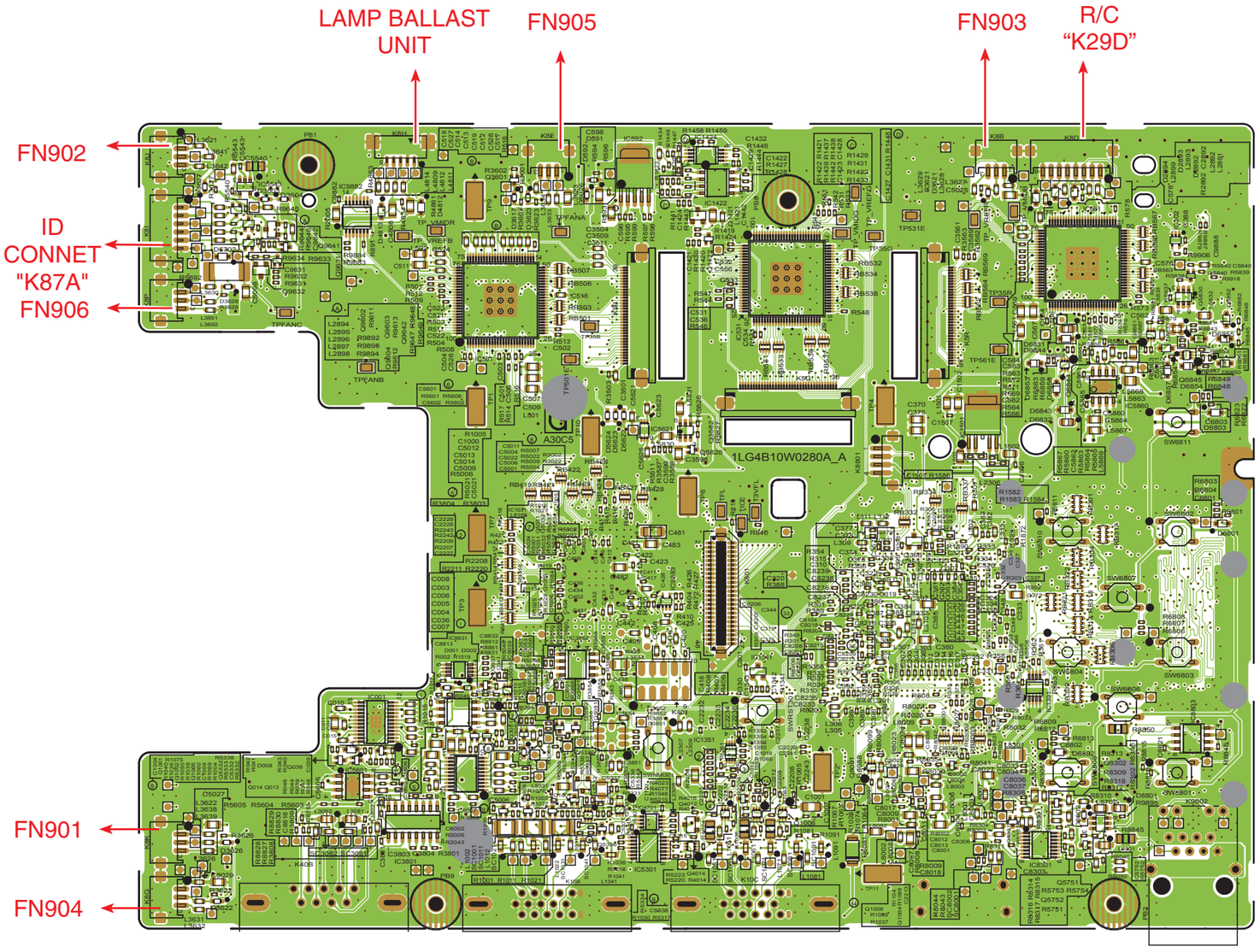
THERMAL SW
SW902

MAIN
“K8R”

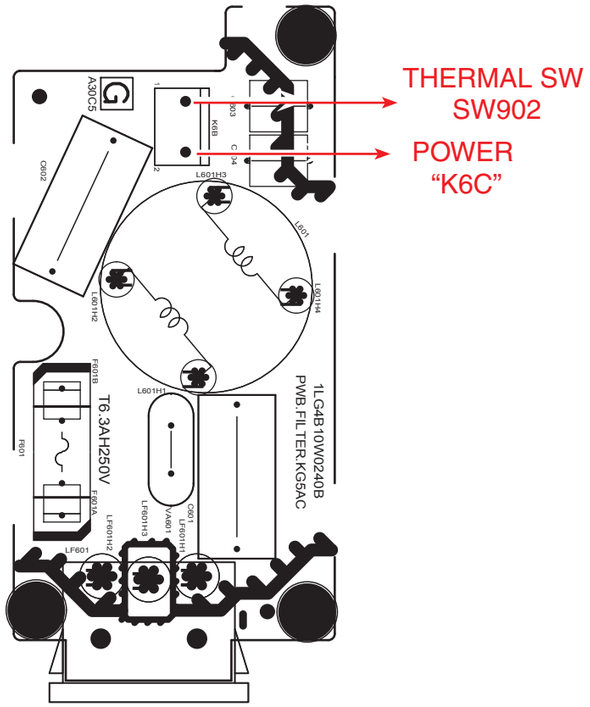
POWER (SIDE:B)

LAMP BALLAST
UNIT

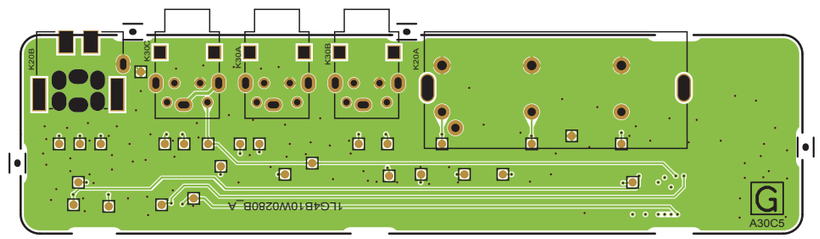
MAIN (SIDE:A)



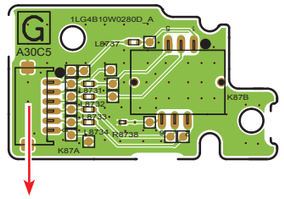
LINE FILTER (SIDE:A)



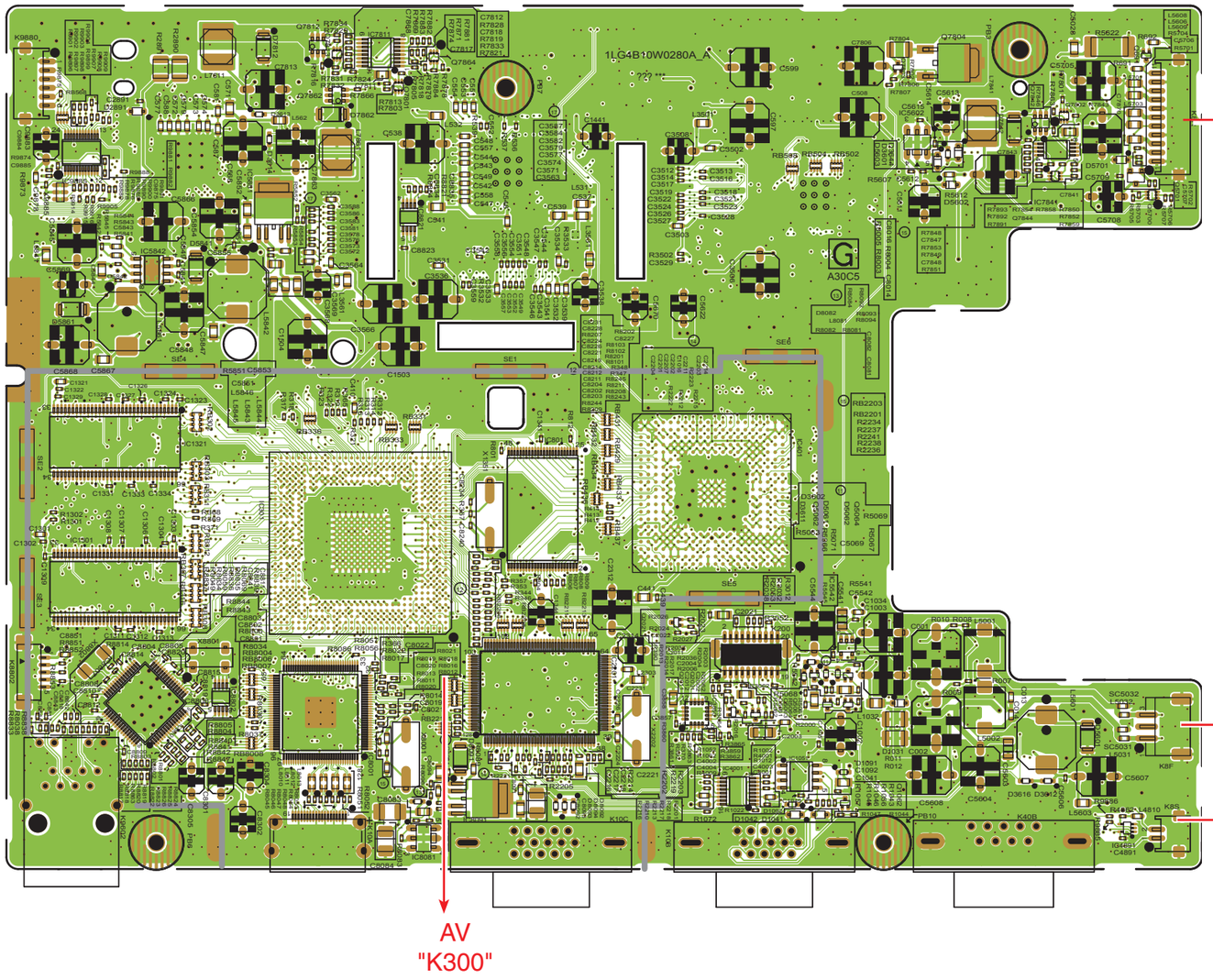
AV (SIDE:A)



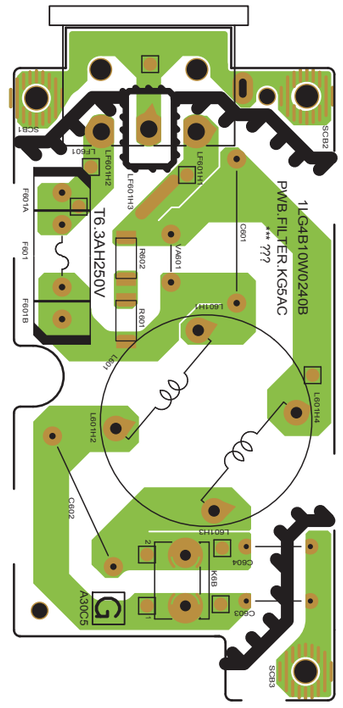
ID CONNECT (SIDE:A)



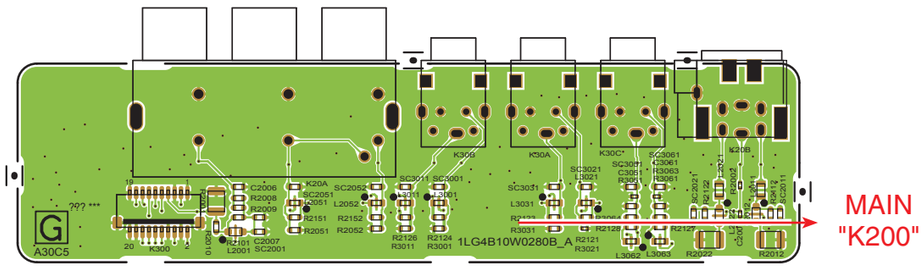
MAIN (SIDE:B)



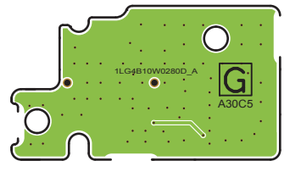
LINE FILTER (SIDE:B)



AV (SIDE:B)



ID CONNECT (SIDE:B)



NO DATA