



FILE NO.

SERVICE MANUAL

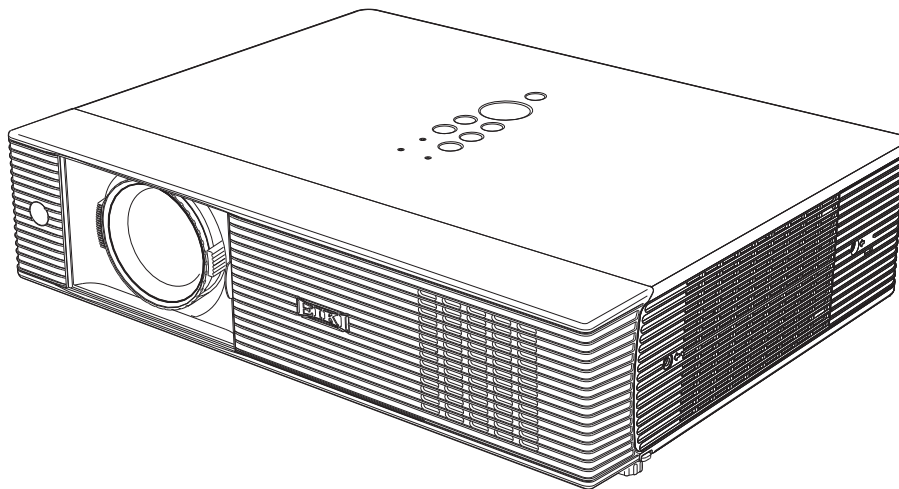
Multimedia Projector

Model No. LC-XB42

U.S.A, Canada,
Europe, Hong Kong

Original Version

Chassis No. KG3-XB4200



Give complete "Chassis No." for parts order or servicing, it is shown on the rating sheet on the cabinet on the projector.

FOREWORD

For your convenience, all service parts, identified in this manual are available through Eiki's normal distribution channels. In addition to service part number, the generic descriptions have been given, where possible, to allow your service technicians to substitute equivalent components which might be available from other sources.

All orders for service parts will be honored. However, in instances where generic components are considered to be available from several common sources, as would be the case with an industry standard fuse, resistor, or semiconductor, it may be more economical and expeditious to purchase the part locally.

PRODUCT CODE

1 122 388 01 (KG3BC)

1 122 389 01 (LG3BC)

1 122 389 06 (LG3GC)

REFERENCE NO. SM5110956-00

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Safety Instructions

Safety Precautions

WARNING:

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

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

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

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

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

Product Safety Notice

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

Service Personnel Warning

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing. Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts.

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

Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	334 mm x 78 mm x 257.5mm (Not including protrusion)
Net Weight	3.7 kg
Feet Adjustment	0° to 8.9°

Panel Resolution

LCD Panel System	0.8" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

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

Optical Information

Projection Image Size (Diagonal)	Adjustable from 40" to 300"
Throw Distance	3.1' (0.93m) - 37.6' (11.47m)
Projection Lens	F1.7–2.5 lens with f=19.2 mm–30.2 mm with manual zoom and focus
Projection Lamp	275 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 Input 1 Terminal	Mini D-sub 15 pin x 1
Computer Input 2 Terminal	Mini D-sub 15 pin x 1
Monitor Output Terminal	Mini D-sub 15 pin x 1
Computer/Component Audio Input Jack	Mini Jack (stereo) x 1
Service Port Connectors	Mini DIN 8 pin x 1
Audio Output Jack	Mini Jack (stereo) x 1 (variable)

Audio

Internal Audio Amp	1.0 W RMS
Built-in Speaker	1 speaker, ø28 mm

Power

Voltage and Power Consumption	AC 100–120 V (4.0A 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.)
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Operating Environment

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

Remote Control

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

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



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

Circuit Protections

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

Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 100°C, the thermal switch opens to stop the operation of the power supply circuit.

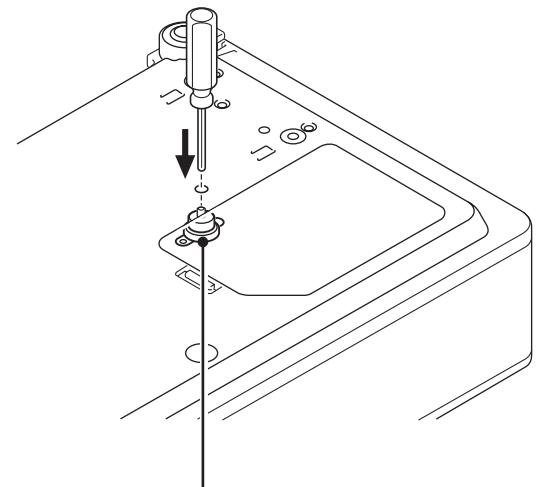
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.

How to reset the thermal switch

1. Insert the sharp tool like a screwdriver into a hole on the cabinet from the cabinet bottom.
2. Press the reset button on the thermal switch with the screwdriver.

CAUTION:

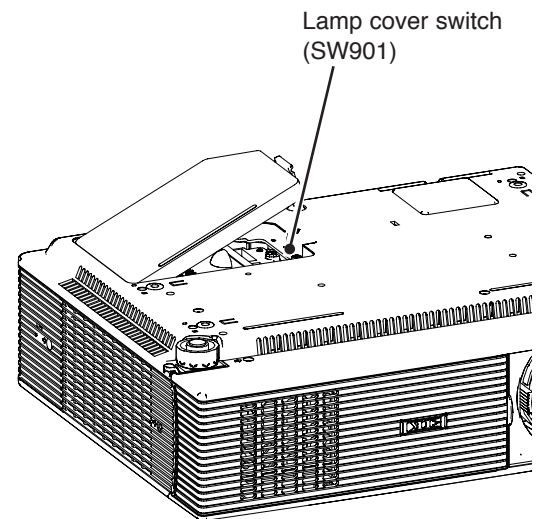
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.



Thermal switch (SW902)

Lamp cover switch

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



Fuse

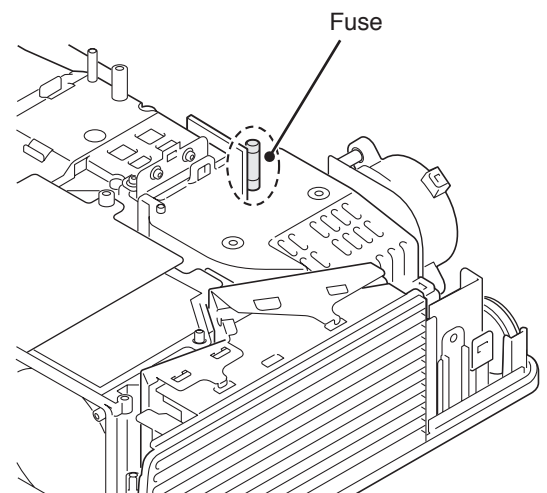
A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.

The fuse should be used with the following type;

Fuse Part No.: 323 025 1204
TYPE 8A 250V FUSE
LITTLE FUSE INC. TYPE 21500.8

How to replace the fuse

1. The fuse is placed on the filter board under the main board. Remove the cabinet top and 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.

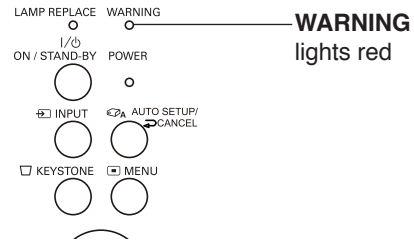
Possible causes

- 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, it may defect the cooling fans or power supply circuits.

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 Filter

Filters prevent 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 filter 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 by pulling the latches upward.
- 3 Gently clean the filters by using a brush or rinse them softly.
- 4 When rinsing the filters, dry them well. Replace the filters properly. Make sure that the filters are fully inserted to the projector.



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

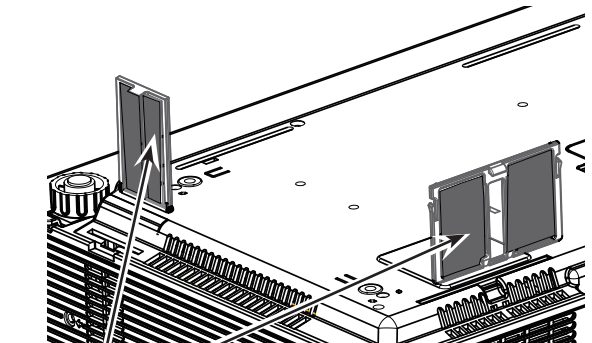
We recommend avoiding dusty/smoky environments when you operate the projector. Usage in these environments may cause poor image quality.

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 filter.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Setting Menu icon.
- 2 Use the Point ▲▼ buttons to move the red frame pointer to Filter counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the filter use, a timer setting option, and the reset option. Select Reset and the "Filter counter Reset?" appears. Select [Yes] to continue.
- 3 Another confirmation dialog box appears, select [Yes] to reset the Filter counter.



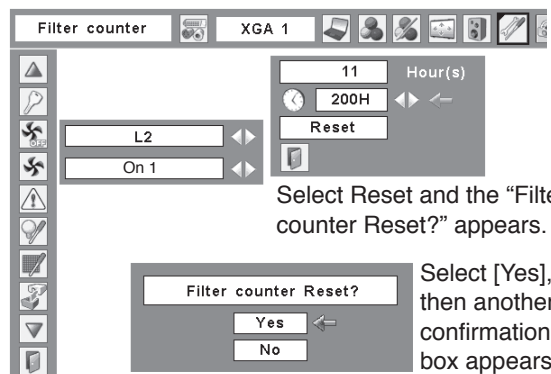
Filters

Pull up and remove.

✓Note:

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

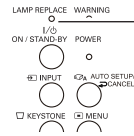
Filter counter



Lamp Replacement

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.

Top Control



LAMP REPLACE indicator

Lamp replacement



Lamp replacement icon

✓Note:

- The Lamp replacement icon will not appear when the Display function is set to “Off”, during “Freeze”, or “No show”.



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.

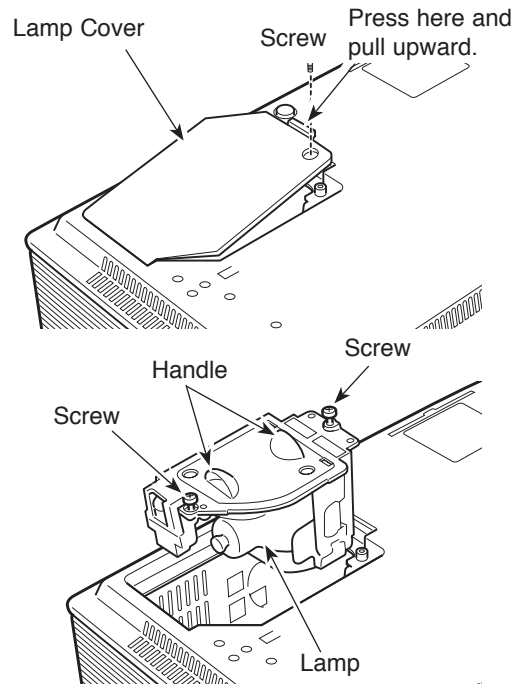


CAUTION

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.

Follow these steps to replace the lamp.

- 1** Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
- 2** Remove the one (1) screw on the lamp cover and open the lamp cover.
- 3** Remove the two (2) screws that secure the lamp. Lift the lamp out of the projector by using the handle.
- 4** Replace the lamp with a new one and secure the two (2) screws. Make sure that the lamp is set properly. Close the lamp cover.
- 5** Connect the AC power cord to the projector and turn on the projector.
- 6** Reset the lamp counter.
See “Resetting the Lamp Counter” on the next page.



ORDER REPLACEMENT LAMP

Type No.

POA-LMP111

Service Parts No.

610 333 9740

Resetting the Lamp Counter

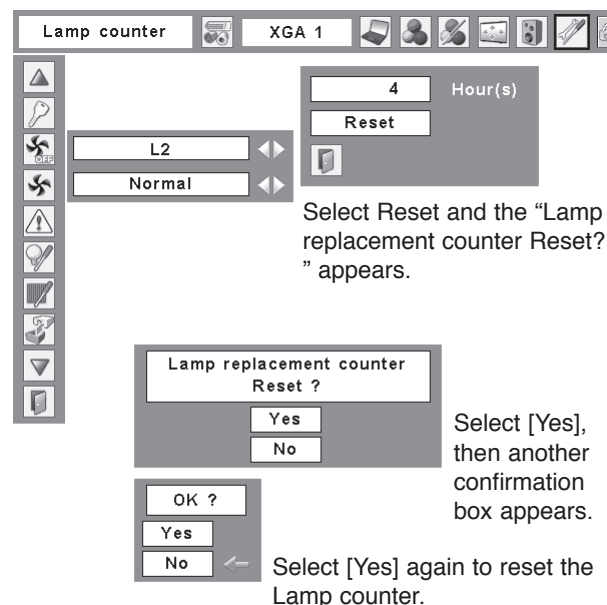
Be sure to reset the Lamp counter after the lamp is replaced. When the Lamp counter is reset, the LAMP REPLACE indicator stops lighting and the Lamp replacement icon disappears.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red framed pointer to the Setting Menu icon.
- 2 Use the Point ▲▼ buttons to move the red framed pointer to Lamp counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the lamp usage and the reset option. Select Reset and the "Lamp replacement counter Reset?" appears. Select [Yes] to continue.
- 3 Another confirmation dialog box appears, select [Yes] to reset the Lamp counter.

✓Note:

- Do not reset the Lamp counter without implementing lamp replacement. Be sure to reset the Lamp counter only after replacing the lamp.

Lamp counter



How to check Lamp Used Time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 3,000 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 (Corresponding value) = $T_{eco} + (T_{normal} \times 1.2) + (T_{high} \times 1.5)$

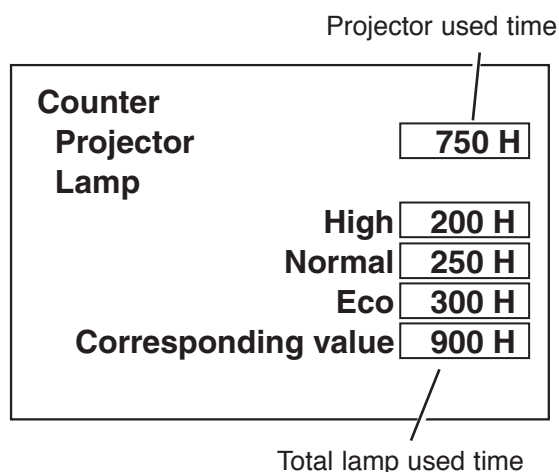
T_{eco} : used time in the Eco mode

T_{normal} : used time in the Normal mode

T_{high} : used time in the High 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.



Cleaning

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

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

Cleaning with air spray

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

Caution:

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

Disassembly Cleaning

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

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

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

Caution:

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

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

Security Function Notice

Security Function Disable

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 and captured image 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.

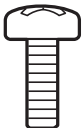
Mechanical Disassembly

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. Remove the cabinet top.
2. Remove the Cabinet front.
3. Remove the R/C Board.

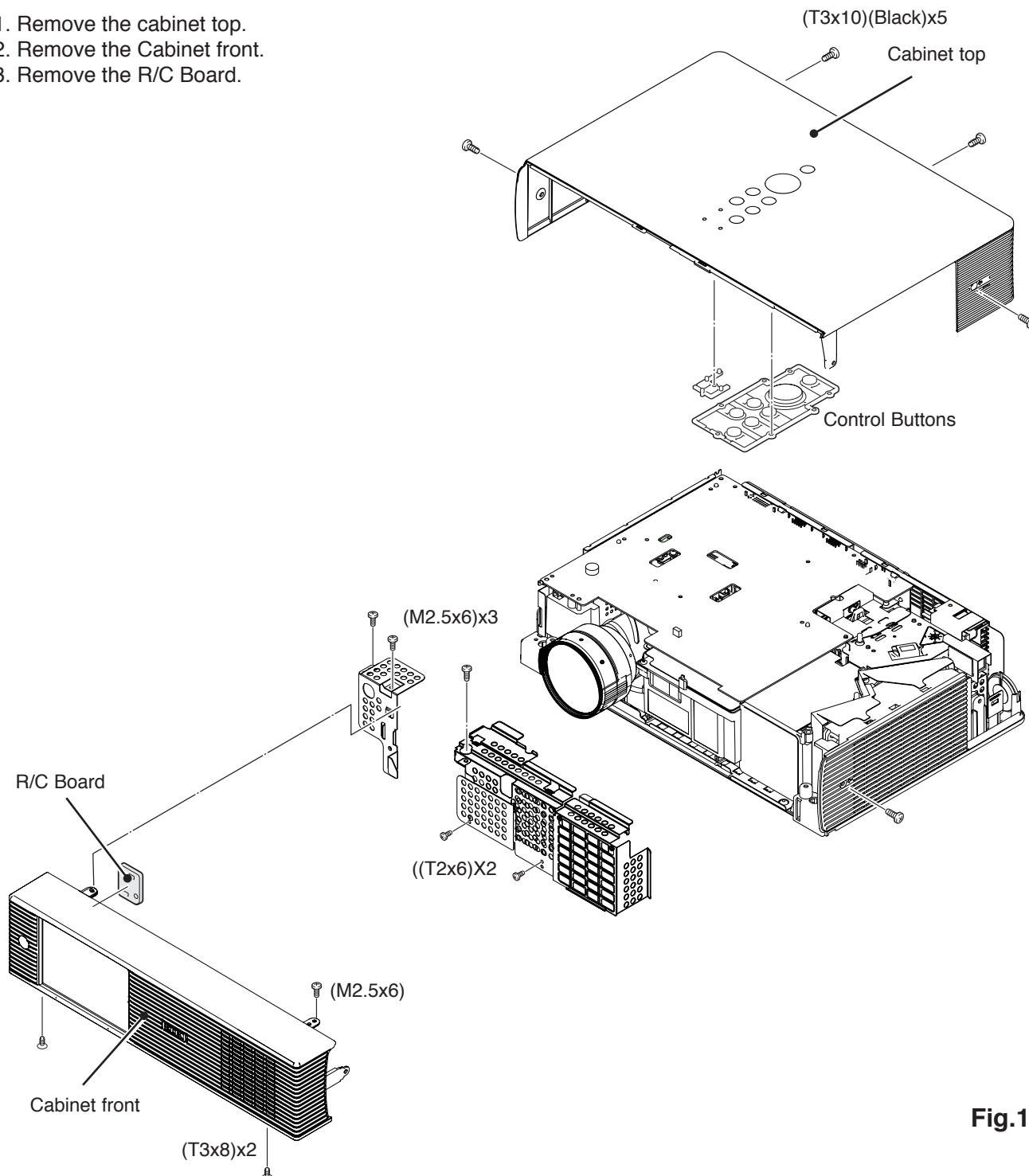


Fig.1

2 Main Board, AV Board, Rear Panel and Fans removal

1. Remove the Main board.
2. Remove the Rear panel.
3. Remove AV board.
4. Remove fans (FN901, FN902).

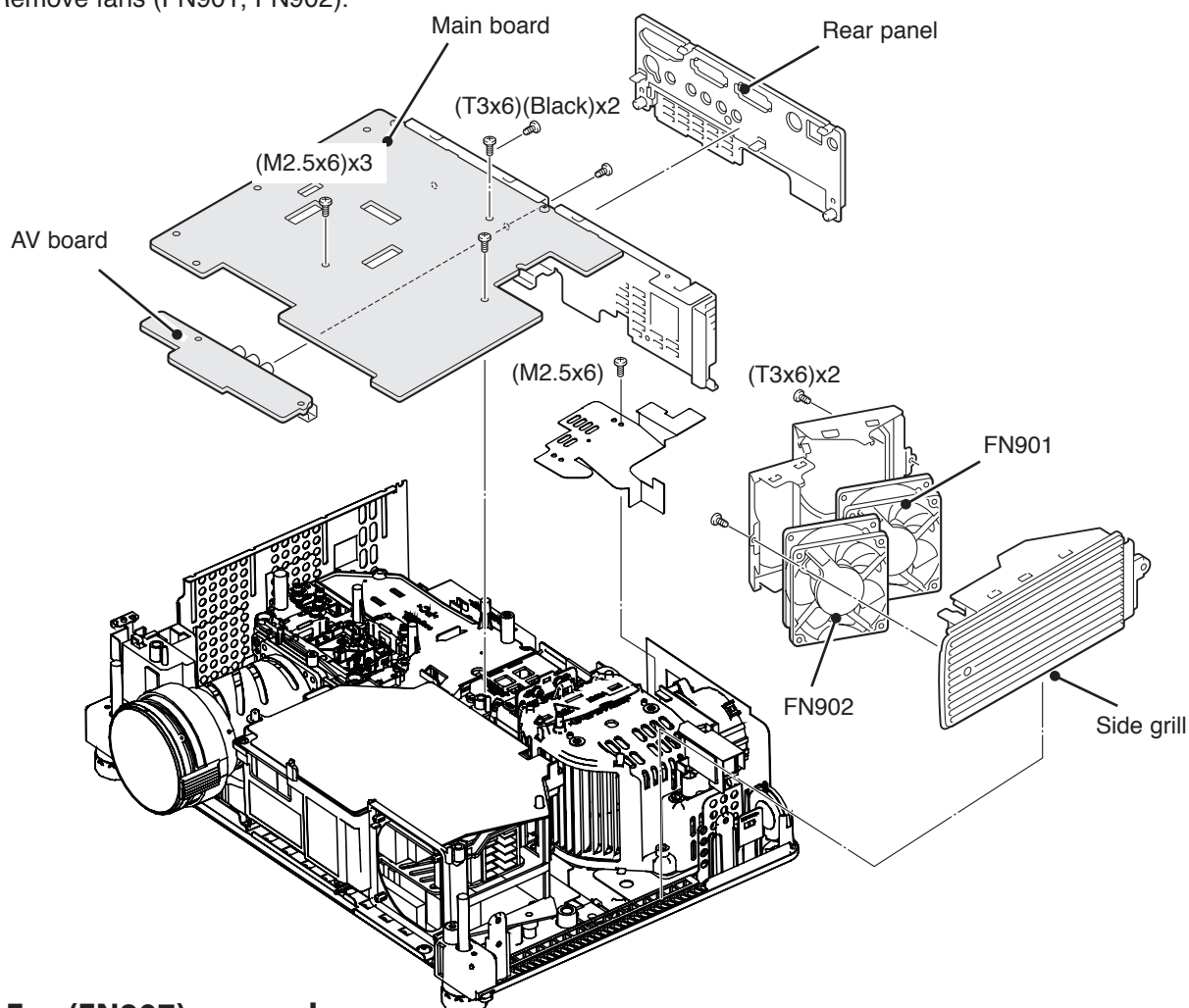


Fig.2

3 Fan (FN907) removal

1. Disconnect the lamp ballast socket and remove fan (FN907)

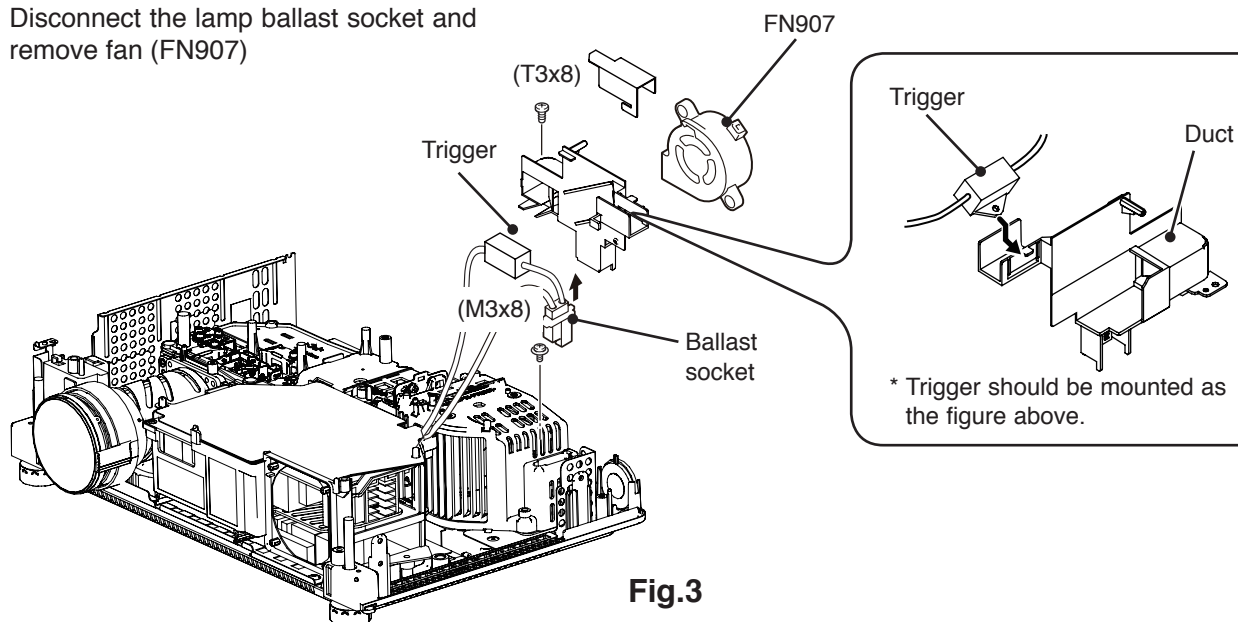


Fig.3

4 Optical unit, Temp., Line Filter board, Fans removal

1. Remove the Optical unit.
2. Remove Screw (T3x8) and 4 hooks on the duct and then remove the Duct.
3. Remove the Duct top.
4. Remove the Line filter board and Temp. board.
5. Remove fans (FAN903, FAN904, FAN905) and SP901.

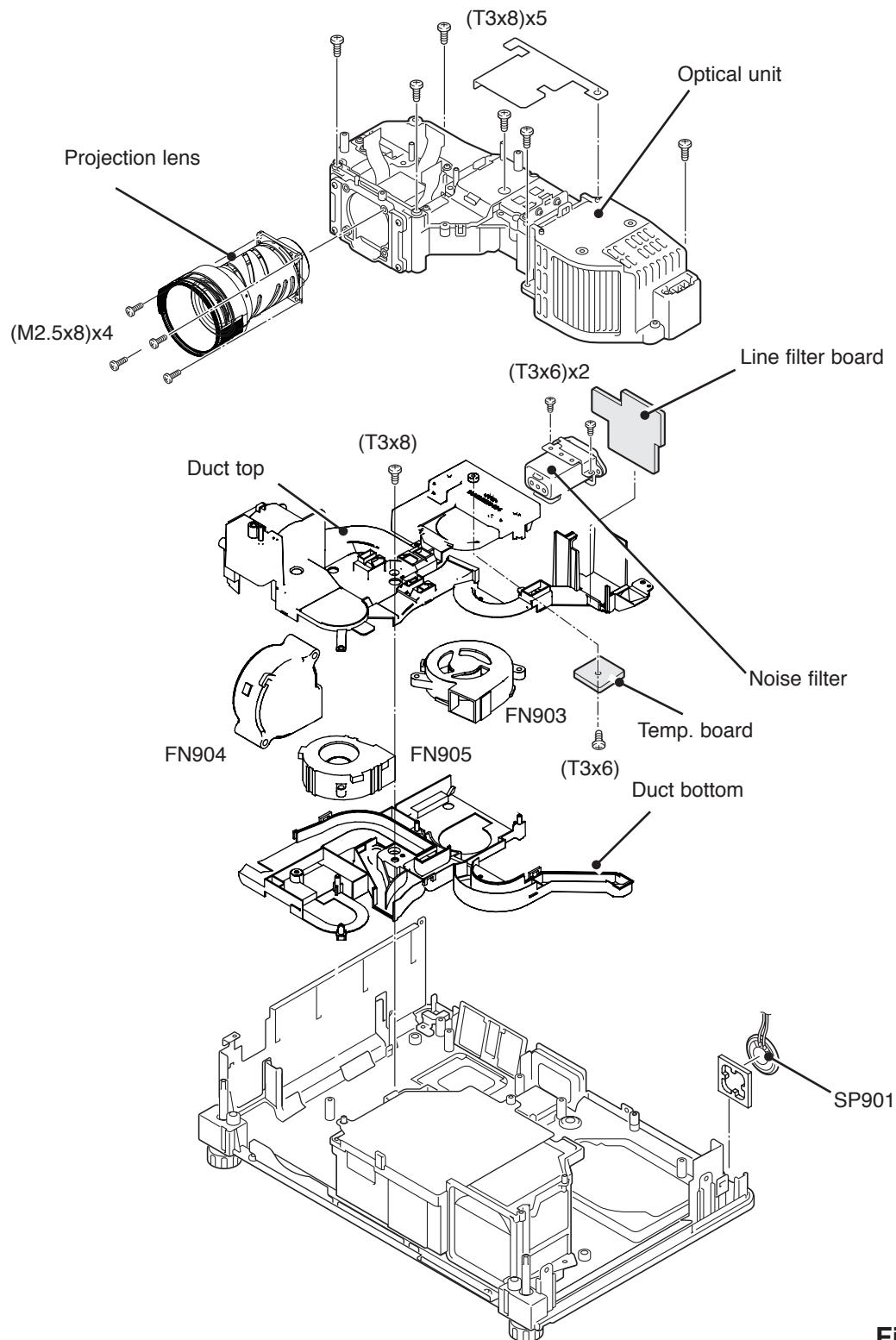


Fig.4

5 Power, Ballast, Lamp Cover Sw Board, Thermal Sw(SW902) removal

1. Remove the Power board.
2. Remove the Ballast board.
3. Remove the Lamp cover switch board and thermal switch (SW902).

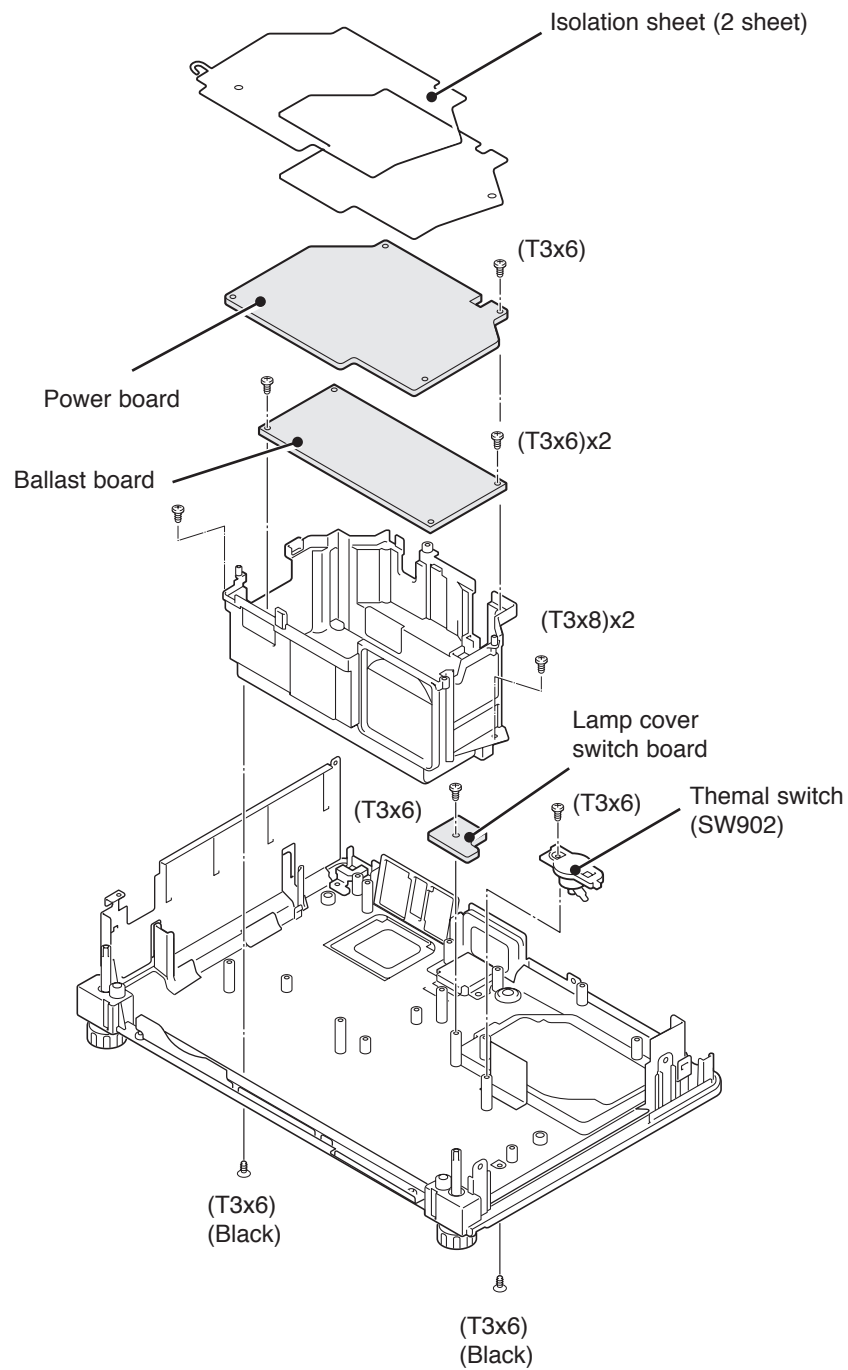


Fig.5

Optical Parts Disassembly

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

Disassembly requires a 2.0mm hex wrench.

1 Projection lens disassembly

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

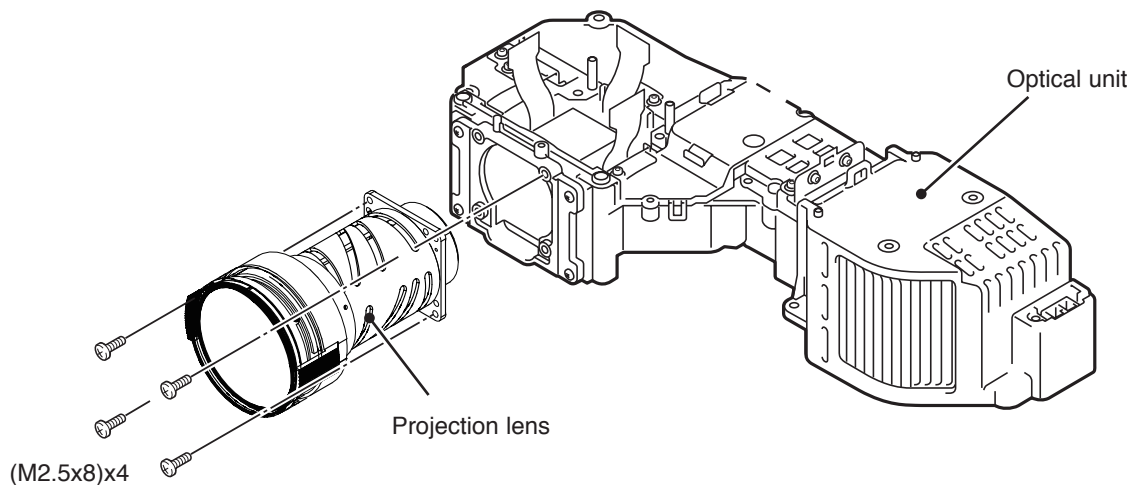


Fig.1

2 Integrator lens-in disassembly

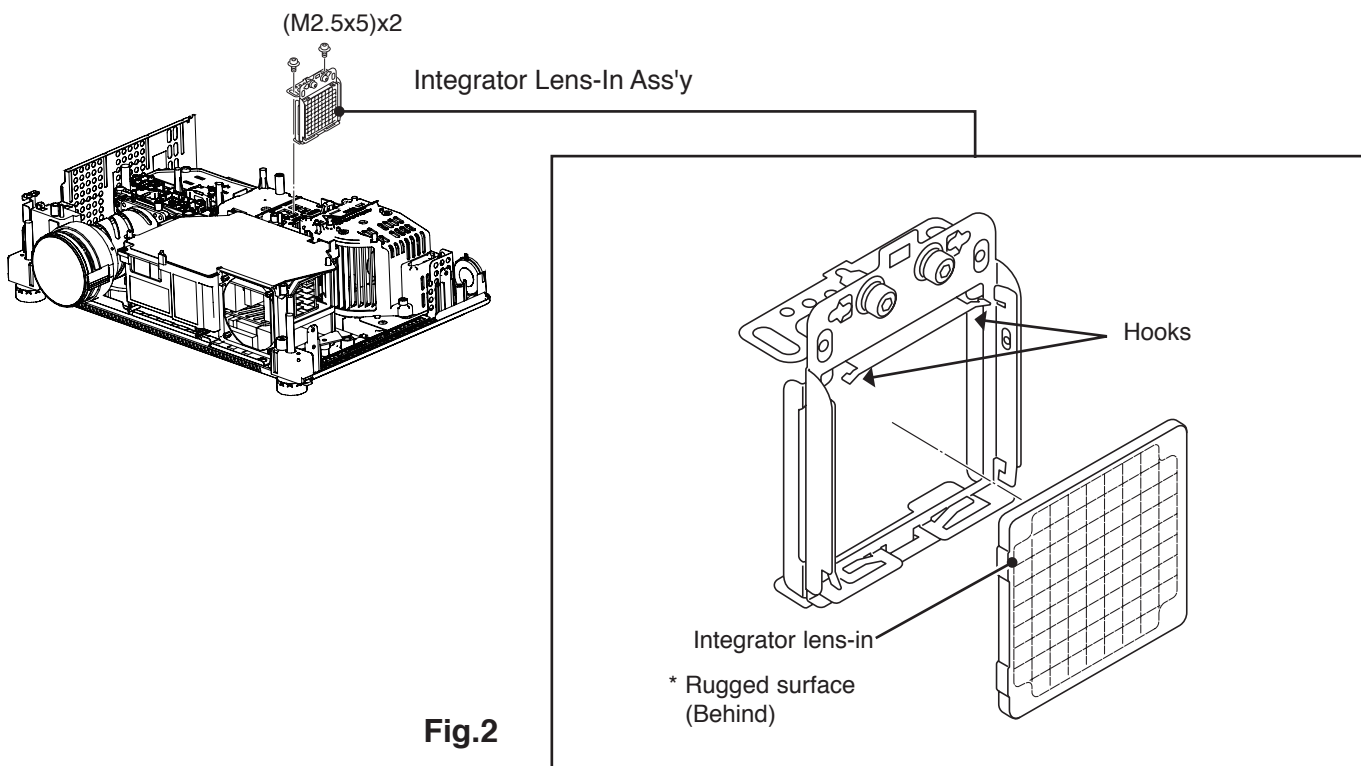


Fig.2

3 Relay lens disassembly

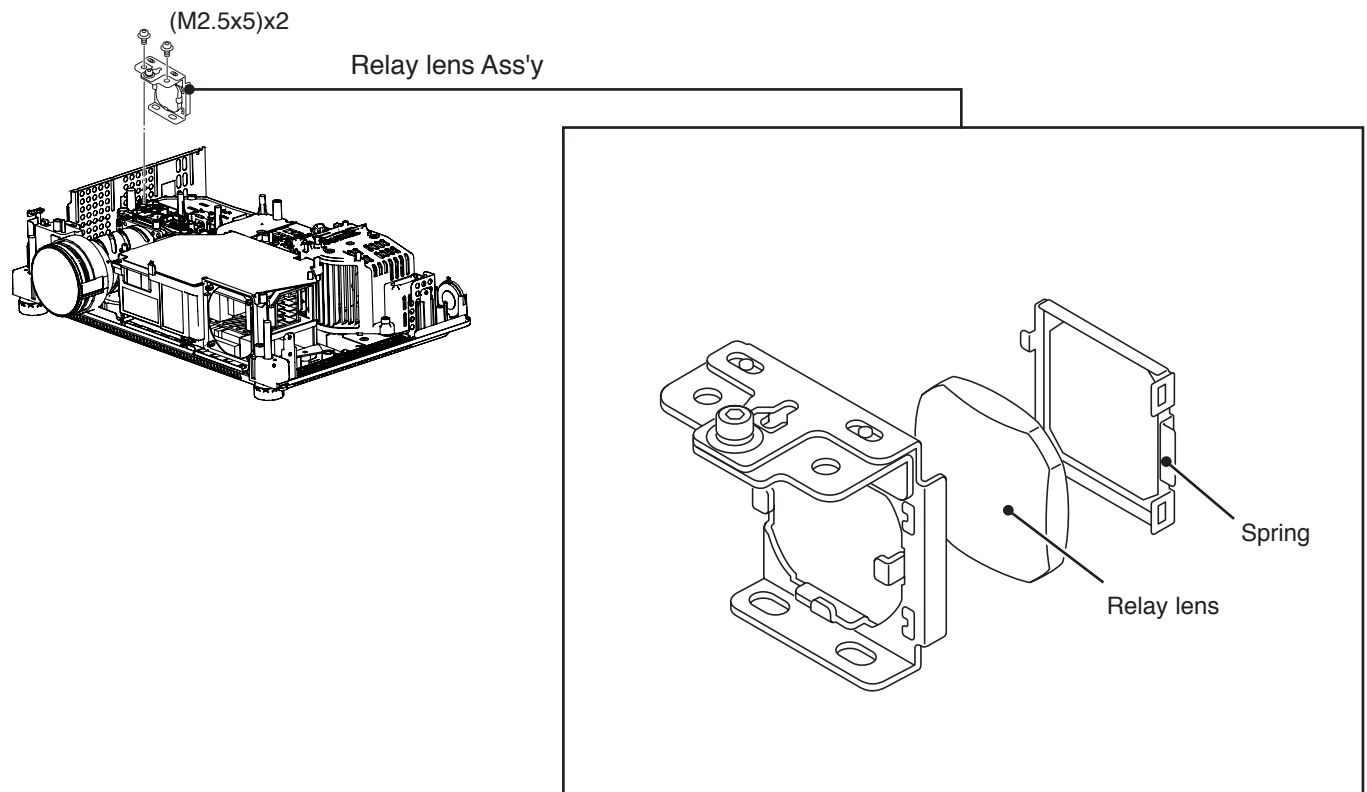


Fig.3

4 Polarized glass-in disassembly

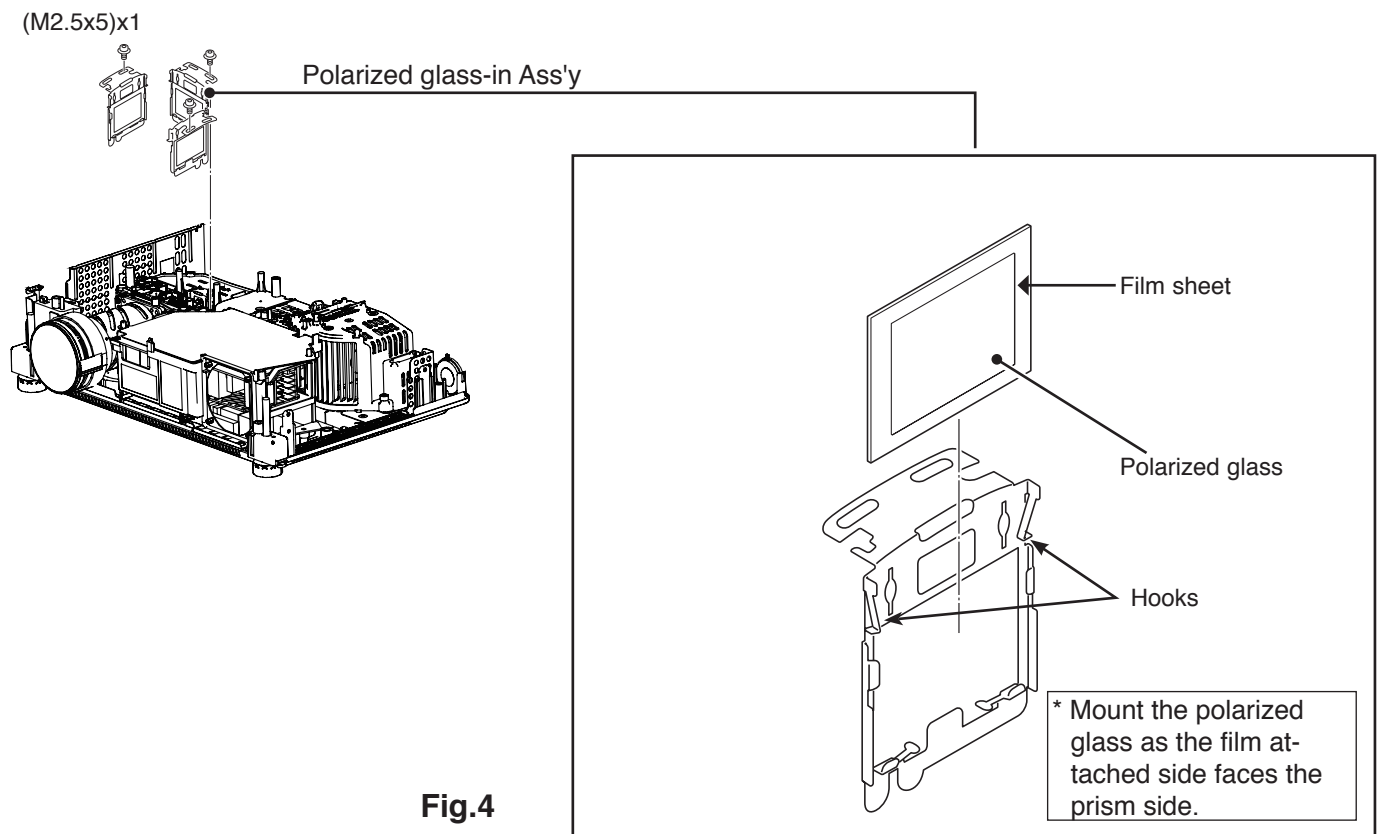


Fig.4

5 LCD Panel/Prism Ass'y removal

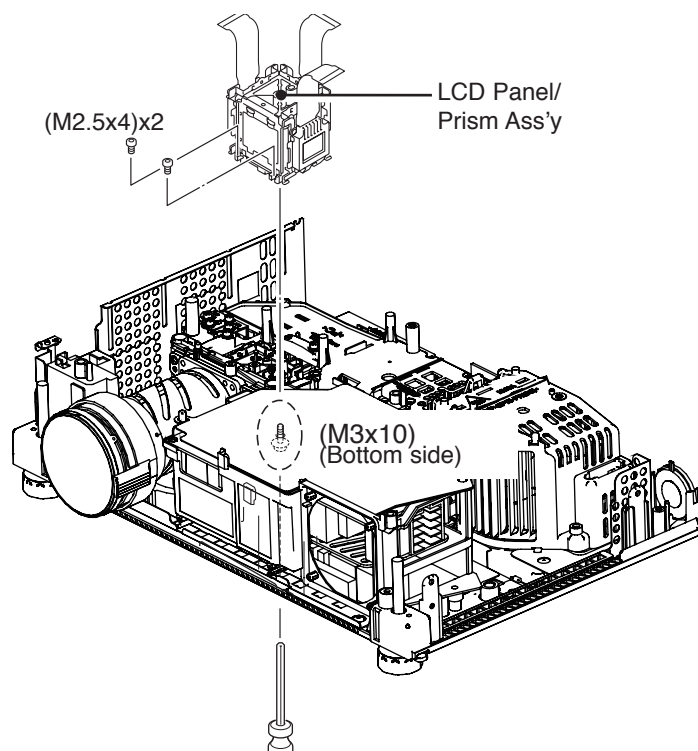


Fig.5-1

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".

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.

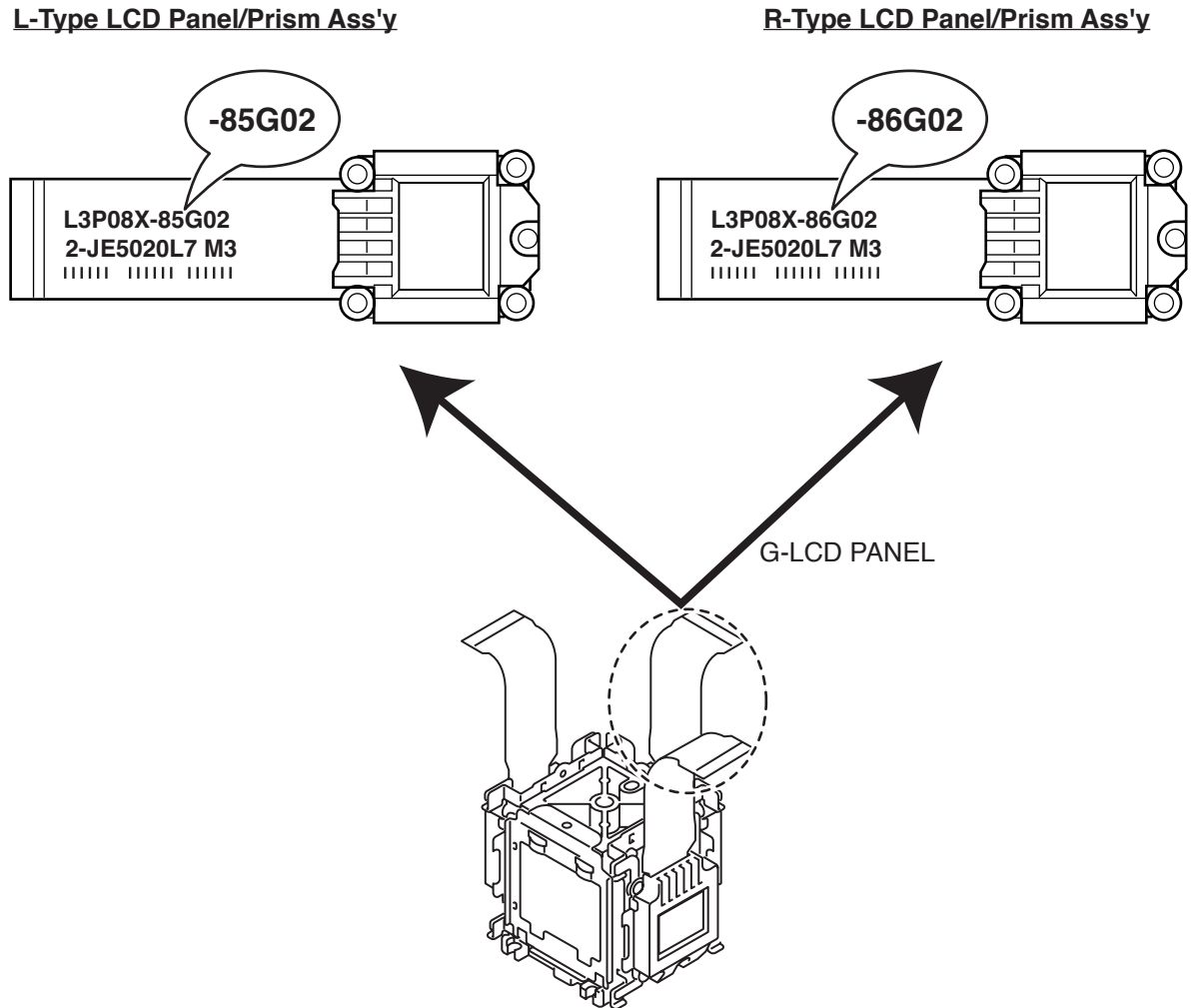


Fig.5-2

6 Polarized glass, Pre-polarized glass removal

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

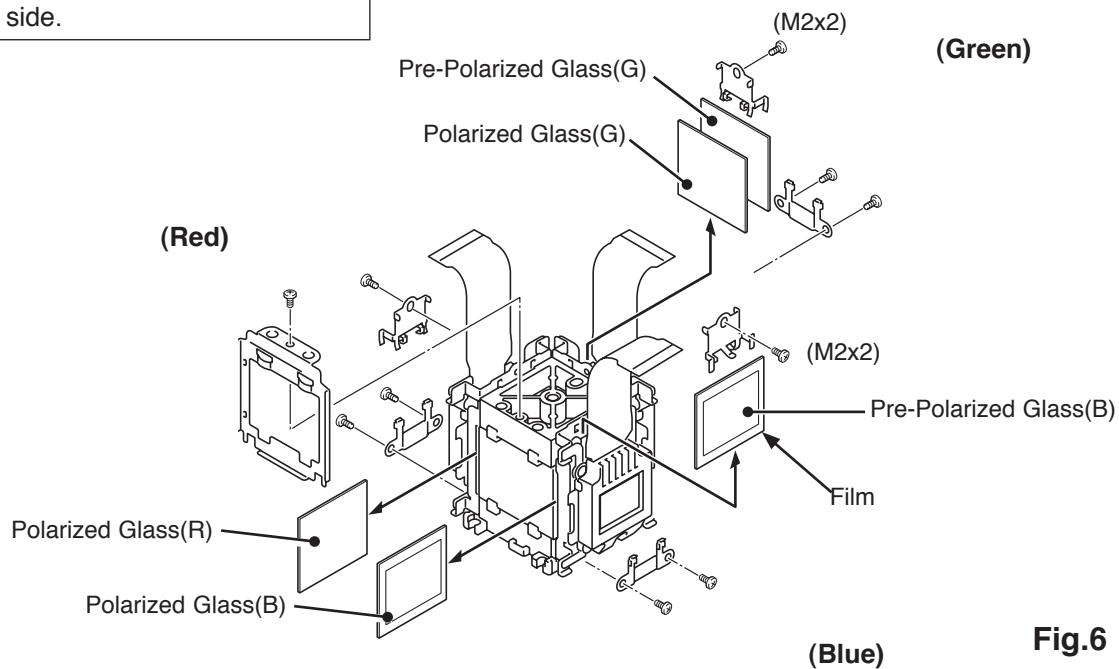


Fig.6

7 Optical unit top removal

1. Remove the Optical top A and Optical Top B.

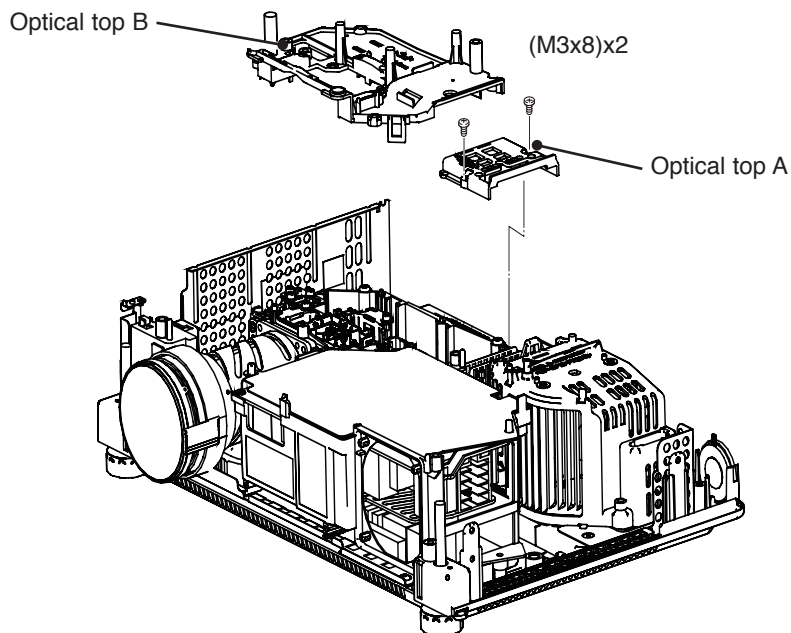


Fig.7

8 Locations and Directions

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

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

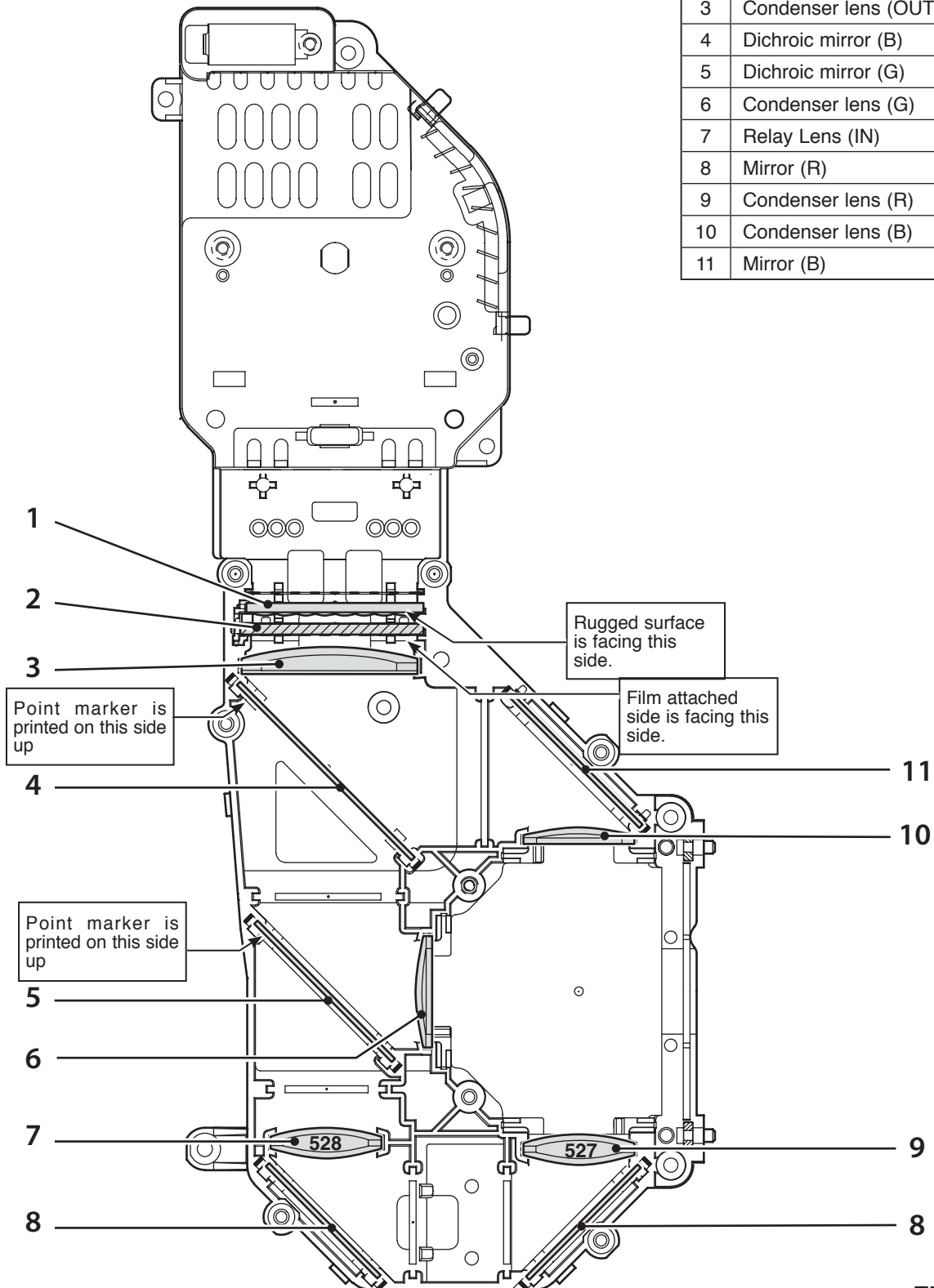


Fig.8

Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ○ : Check necessary

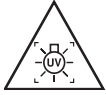
		Disassembly / Replaced Parts							
		LCD/ Prism Ass'y	Integrator Lens (OUT)	Relay Lens (OUT)	Polarized Glass			Power Board	Main Board
					R	G	B		
Optical Adjustments	Contrast Adjustment								
	R-Contrast adjustment				●				
	G-Contrast adjustment					●			
	B-Contrast adjustment						●		
	Integrator lens adjustment	○	●						
	Relay lens-out adjustment	○		●					
Electrical Adjustments	Fan control 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								●
	Color Shading Correction 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.

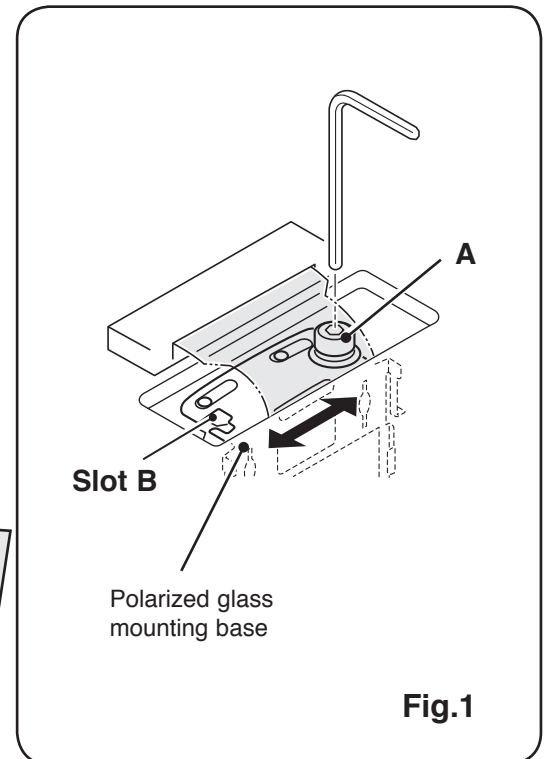
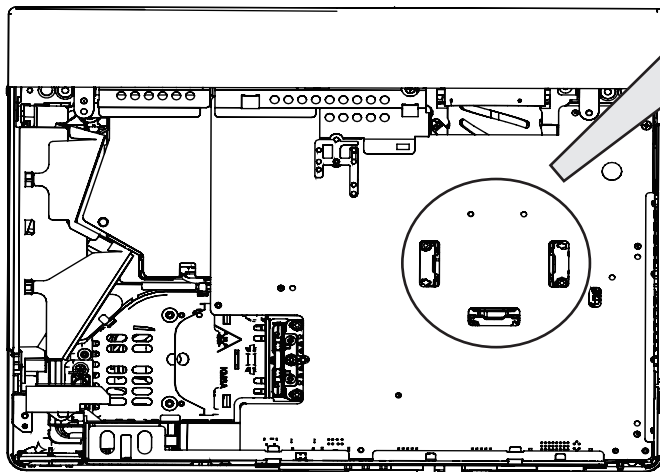
Contrast adjustment

[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 slot screwdriver.
- 3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.



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 insert a slot screwdriver into the slot **D** and adjust color uniformity in white by turning a slot screwdriver up or down.
- 4 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:

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

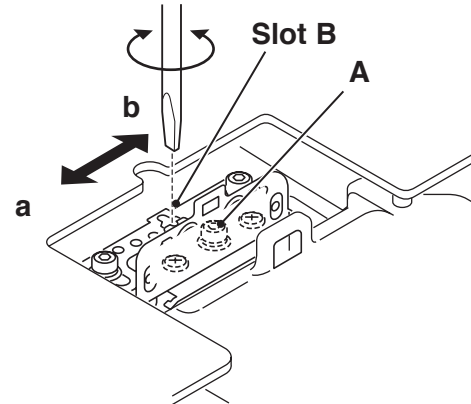
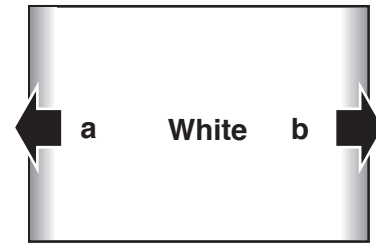
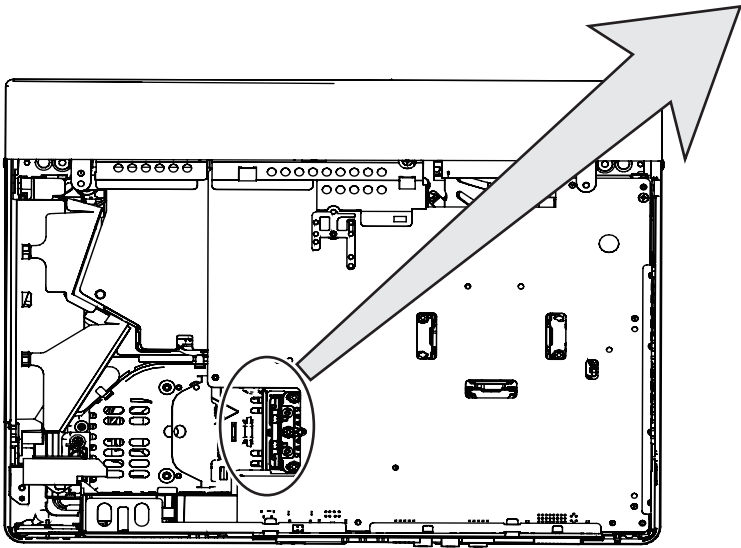


Fig.2-1
Moving of slot B

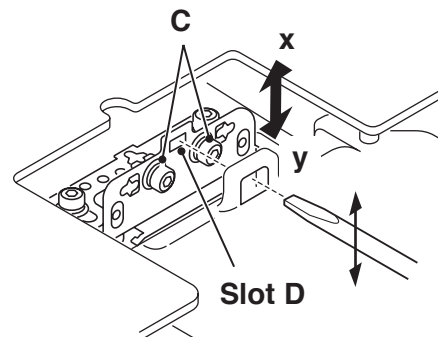
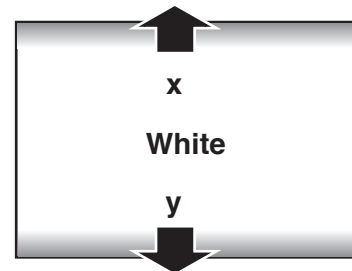


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

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

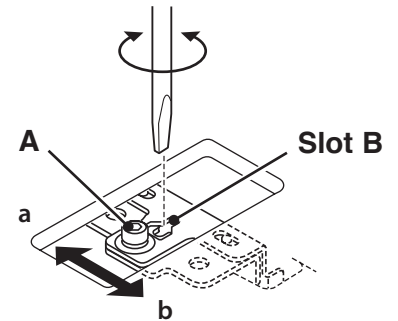
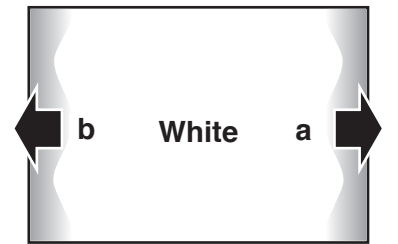
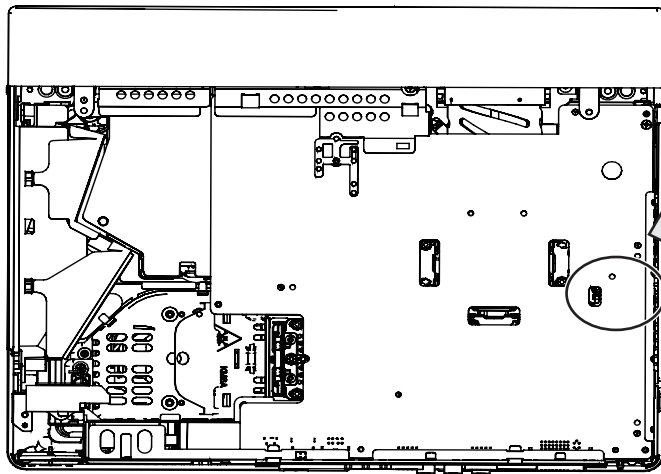


Fig.3
Moving of slot B

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

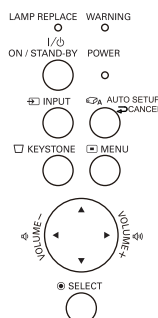
Select the adjustment group no. by pressing the **MENU** button (increase) or **SELECT** button (decrease), and select the adjustment item no. by pressing the pointer **▲** or **▼** button, and change the data value by pressing the **◀** or **▶** button. Refer to the “Service Adjustment Data Table” for 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.

Service Mode		
Input		Video
Group	No.	Data
0	0	32
Ver.	1	00

Group No. Item No. Data value



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”.

The data of lamp replacement counter is stored in the Memory IC.

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

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

● Caution to memory IC replacement

When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as

factory shipped data, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.

Please note that in this case the lamp replace counter will be reset.

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

When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.

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

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety. Before adjustment, please turn on the projector more than ten minutes.



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

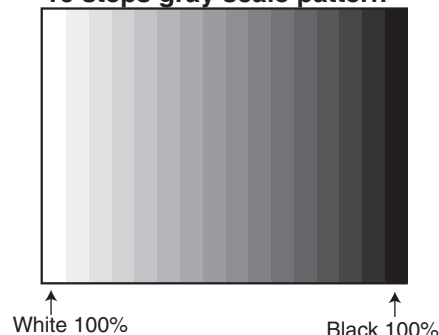


CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

[Adjustment Condition]

- Input signal
 - Video signal1.0Vp-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.

16 steps gray scale pattern



Note:

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

Output Voltage adjustment

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

1. Connect a digital voltmeter to pins 1 (+) and 2 (-) of **K6A**.
2. Adjust the voltage by using VR601 as following.

AC Input	Reading
230V	370V ±2V

Caution:

Be sure to connect the lamp when taking this adjustment.

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

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

2 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.

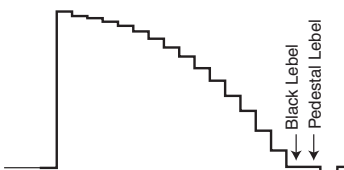
3 Auto Calibration adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer2 [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.

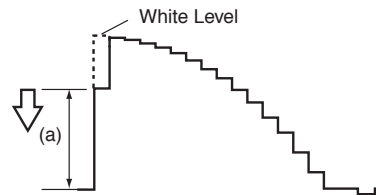
Pedestal adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TP_R1" (+) and chassis ground (-).
6. Select item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TP_B1" (+) and chassis ground (-).
8. Select item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



Gain adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TP_R1" (+) and chassis ground (-).
6. Select 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 "TP_B1" (+) and chassis ground (-).
8. Select group no. "0", item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.



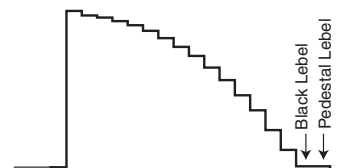
4 Auto Calibration adjustment [Component]

1. Enter the service mode.
2. Receive the 8 color 100% color bar 480i-component signal with **Computer2 [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 1080i-component signal with **Computer2 [Component]** mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TP_R1" (+) and chassis ground (-).
6. Select item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TP_B1" (+) and chassis ground (-).
8. Select item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



Electrical Adjustments

Gain adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer2 [Component]** mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.



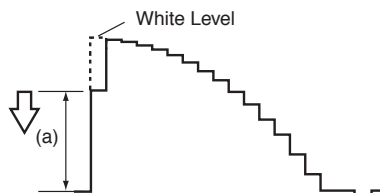
5 Auto Calibration adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [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 "TP_G1" (+) and chassis ground (-).
4. Select group no. "20", item no. "0" and adjust the amplitude "a" to be minimum by changing the Data value.

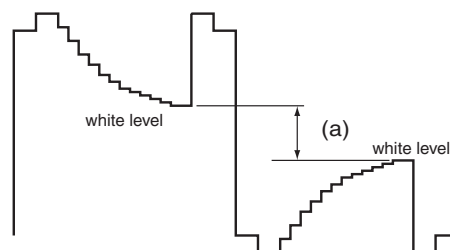


6 Common Center adjustment

1. Enter the service mode.
2. Receive the 50%-Whole Gray computer signal with **Computer2 [RGB]** mode.
3. Select group no. "100", item no. "92" and change data value to "2" to reduce the panel frequency.
4. Project only green light component to the screen.
5. Select group no. "101", item no. "1" and change data value to obtain the minimum flicker on the screen.
6. Project only red light component to the screen.
7. Select item no. "0" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no. "2" and change data value to obtain the minimum flicker on the screen.
10. Select group no. "100", item no. "92" and change data value to "0" to reset the panel frequency.

7 50% White adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
5. Select group no. "100", item no. "6" and change data value to adjust amplitude "a" to be 1.2V.



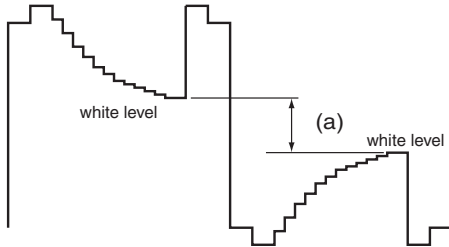
8 White Balance adjustment [PC]

1. Enter the service mode,
2. Receive the 16-step gray scale computer signal with **Computer2 [RGB]** mode.
3. Select group no. "100" item no. "7" (Red) or "8" (Blue), and change Data values respectively to make a proper white balance.

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

9 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 "TP_G1" (+) and chassis ground (-).
5. Select group no. "100", item no. "6" and change data value to adjust amplitude "a" to be **1.2V**.



10 White Balance adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Select group no. "100" item no. "7" (Red) or "8" (Blue), and change Data values respectively to make a proper white balance.

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

11 Keystone Offset adjustment

After replacing the G-sensor circuit (IC3851, IC1802 and peripheral circuit), 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. "102", 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. "102", item no. "3" will be back from "5" to "0" for initial value.)

12 Color Shading Correction adjustment

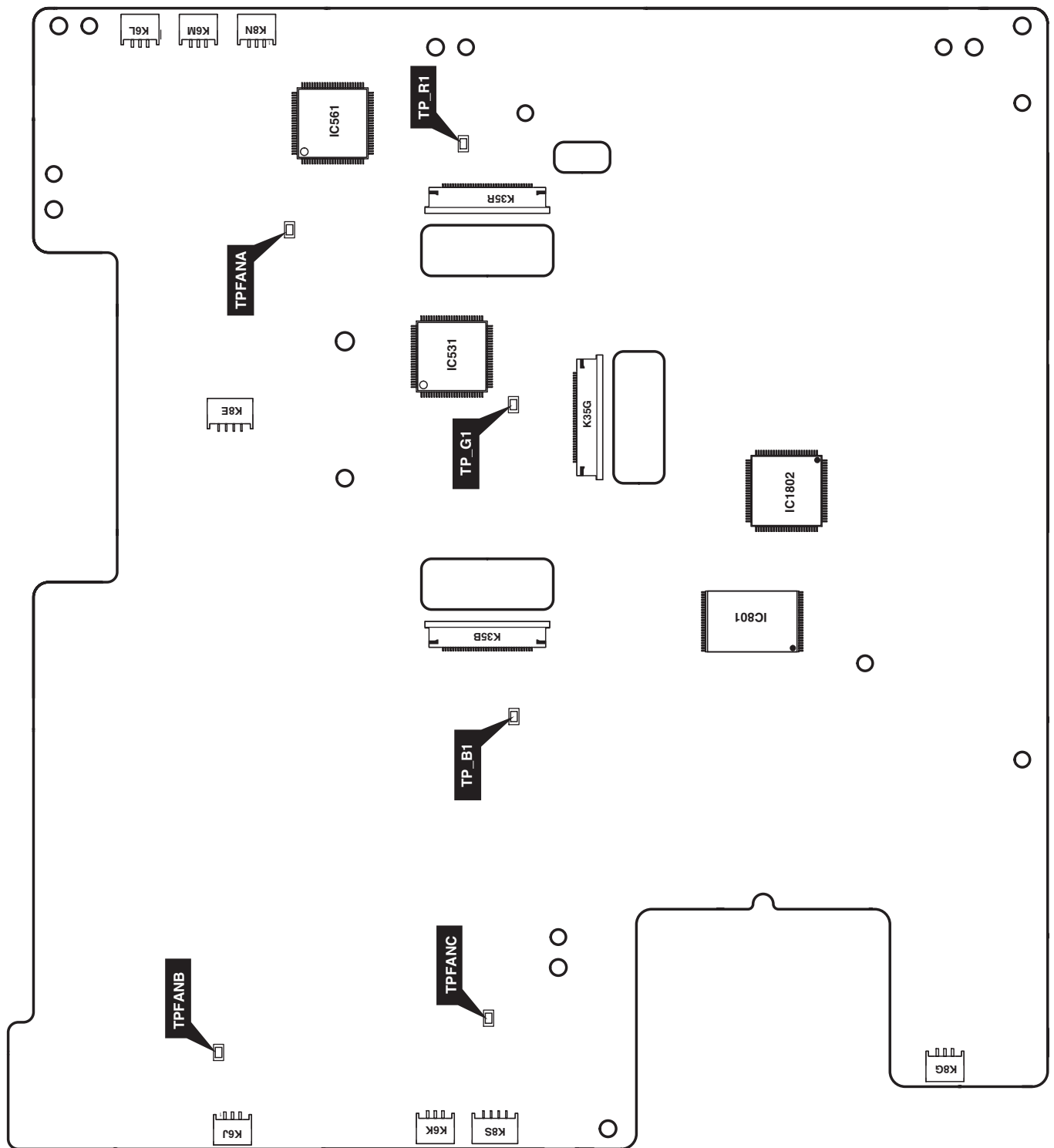
If the correction of the Color shading adjustment is necessary, please adjust the "Color shading" by using the "COLOR SHADING CORRECTION" software supplied separately. The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as below.

4-input patterns:

6.25% gray, 12.5% gray, 25% gray, 50% gray

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 (PW190)				
0	ADC G-OFFSET	PC / Component / SCART	128/120/128	0 - 255	* G-Pedestal Adjustment
1	ADC R-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* R-Pedestal Adjustment
2	ADC B-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* B-Pedestal Adjustment
3	ADC G-GAIN	PC / Component / SCART	50/50/50	0 - 255	* G-Gain Adjustmen
4	ADC R-GAIN	PC / Component / SCART	40/40/40	0 - 255	* R-Gain Adjustmen
5	ADC B-GAIN	PC / Component / SCART	40/40/40	0 - 255	* B-Gain Adjustmen
6	GRAAFLTR/RBAAFLTR	Green (Red and Blue) Anti-Alias Filter	4 / R / R	0 - 7	
7	GRNAADWNSMPL / RBAADWNSMPL	Green (Red and Blue) Anti-Alias Downsample	0 / R / R	0 - 3	Composite & S-Video / Component / PC
8	GRNAAHF / RBAAHF	Green (Red and Blue) Anti-Alias High Frequency	3 / R / R	0 - 3	*R: Read only value
10	SOGTH	PC / Component / SCART SyncOn Green Threhold	4 / 3 / 2	0 - 15	
11	SOGHYSDIS	PC / Component / SCART Sync On Green Hsysterisis Enable	0	0 - 1	
12	HS1TH		4	0 - 7	
13	HS0TH		4	0 - 7	
100	PreCoast PC Signal		3	0 - 63	
101	PostCoast PC Signal		8	0 - 63	
120	PreCoast PC Video 480i		7	0 - 63	
121	PostCoast PC Video 480i		13	0 - 63	
122	PreCoast PC Video 575i		7	0 - 63	
123	PostCoast PC Video 575i		13	0 - 63	
124	PreCoast PC Video 480p		7	0 - 63	
125	PostCoast PC Video 480p		13	0 - 63	
126	PreCoast PC Video 575p		7	0 - 63	
127	PostCoast PC Video 575p		13	0 - 63	
128	PreCoast PC Video 720p 60Hz		7	0 - 63	
129	PostCoast PC Video 720p 60Hz		13	0 - 63	
130	PreCoast PC Video 720p 50Hz		7	0 - 63	
131	PostCoast PC Video 720p 50Hz		13	0 - 63	
132	PreCoast PC Video 1080i 60Hz		7	0 - 63	
133	PostCoast PC Video 1080i 60Hz		13	0 - 63	
134	PreCoast PC Video 1080i 50Hz		7	0 - 63	
135	PostCoast PC Video 1080i 50Hz		13	0 - 63	
136	PreCoast PC Video 1035i		7	0 - 63	
137	PostCoast PC Video 1035i		13	0 - 63	
138	PreCoast PC Video 1080p 60Hz		7	0 - 63	
139	PostCoast PC Video 1080p 60Hz		13	0 - 63	
140	PreCoast PC Video 1080p 50Hz		7	0 - 63	
141	PostCoast PC Video 1080p 50Hz		13	0 - 63	
142	PreCoast PC Video 1080p 30Hz		7	0 - 63	
143	PostCoast PC Video 1080p 30Hz		13	0 - 63	
144	PreCoast PC Video 1080p 25Hz		7	0 - 63	
145	PostCoast PC Video 1080p 25Hz		13	0 - 63	
146	PreCoast PC Video 1080p 24Hz		7	0 - 63	
147	PostCoast PC Video 1080p 24Hz		13	0 - 63	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
150	PreCoast YCbCr 480i		7	0 - 63	
151	PostCoast YCbCr 480i		13	0 - 63	
152	PreCoast YCbCr 575i		7	0 - 63	
153	PostCoast YCbCr 575i		13	0 - 63	
154	PreCoast YCbCr 480p		7	0 - 63	
155	PostCoast YCbCr 480p		13	0 - 63	
156	PreCoast YCbCr 575p		7	0 - 63	
157	PostCoast YCbCr 575p		13	0 - 63	
158	PreCoast YCbCr 720p 60Hz		7	0 - 63	
159	PostCoast YCbCr 720p 60Hz		13	0 - 63	
160	PreCoast YCbCr 720p 50Hz		7	0 - 63	
161	PostCoast YCbCr 720p 50Hz		13	0 - 63	
162	PreCoast YCbCr 1080i 60Hz		7	0 - 63	
163	PostCoast YCbCr 1080i 60Hz		13	0 - 63	
164	PreCoast YCbCr 1080i 50Hz		7	0 - 63	
165	PostCoast YCbCr 1080i 50Hz		13	0 - 63	
166	PreCoast YCbCr 1035i		7	0 - 63	
167	PostCoast YCbCr 1035i		13	0 - 63	
180	PreCoast SCART 480i		7	0 - 63	
181	PostCoast SCART 480i		13	0 - 63	
182	PreCoast SCART 575i		7	0 - 63	
183	PostCoast SCART 575i		13	0 - 63	
Group 10	Sync Processor				
0	SYNCAMPHLCKTOLOW	Minimum sync amplitude threshold for HLCK 1 to 0 transition	0x1000	0 - 9999	
1	SYNCAMPHLCKTOHI	Minimum sync amplitude threshold for HLCK 0 to 1 transition	0x700	0 - 9999	
Group 20	Video Decoder *R : Read Only Value				
0	Y Level	Composite / S-Video - Y Level (ADC RGB Gain)	10 / 10	0 - 255	Composite / S-Video * Gain Adjustment [Video]
1	C Level	Composite / S-Video - C Level (ADC Saturation)	115 / 115	0 - 255	Composite / S-Video
2					
3	XCXL Level	Cross-Chroma, Cross-Luma Level	3	0 - 5	
4	C2DNBANDWIDTH	Comb 2D Narrow Bandwidth	3 / 3	0 - 3	NTSC/PAL
5	C2DWBANDWIDTH	Comb 2D Wide Bandwidth	4 / 4	0 - 7	NTSC/PAL
6	C2DCNMINLEAK	Comb 2D Chroma Narrow Band Minimum Leakage	0 / 3	0 - 3	Left Values are adjustable if CXCL Level = 5.
7	C2DCNSLOPELEAK	Comb 2D Narrow Band Slope Leakage	7 / 7	0 - 7	NTSC/PAL
8	C2DCWMINLEAK	Comb 2D Wide Band Minimum Leakage	1 / 3	0 - 3	NTSC/PAL
9	C2DCWSLOPELEAK	Comb 2D CW Slope Leakage	6 / 6	0 - 7	NTSC/PAL
10	COMBLEAK2BPGAIN	Comb Leak To Ban Pass Gain	1 / 0	0 - 3	NTSC/PAL
11	C2DBDIAGONALGAIN	Comb 2D Band Pass Diagonal Gain	1 / 3	0 - 3	NTSC/PAL
12	C2DNBCWBCLGAIN	Comb 2D Narrow Band Comb Wide Band Comb	1 / 1	0 - 3	NTSC/PAL
13	RLUMASETUP-Enable	7.5IRE Setup Enable	0	0 - 1	Effective only NTSC Signal
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		1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable		0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	Force IP Mode		2	0 - 2	0 : IP Process Disable 1 : Force Normal IP Mode 2 : Force Film Mode Effective only for PSF Signal.
Group 41	Deinterlacer setting Effective only for Progressive ON-L1 mode.				

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
0	Motion Adaptive Weight Value	<KDEINT>	60	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 42	Deinterlacer setting Effective only for Progressive ON-L2 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	2	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 43	Deinterlacer setting Effective only for Progressive ON/Film mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 45	Noise Reduction (Time) Effective only for N.R - Off				
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**>	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**>	50	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 - 32767	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 32767	
3	VOFTHR13	<VOFTHR13>	124	0 - 1023	Read only
4	VOFTHR12	<VOFTHR12>	124	0 - 1023	Read only
5	VOFTHR23	<VOFTHR23>	124	0 - 1023	Read only
6	Video Motion Window Start X	<VOFSTARX>	10	0 - 2047	Range of detective for Film mode
7	Video Motion Window Stop X	<VOFSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Video Motion Window Start Y	<VOFSTARY>	10	0 - 1023	Range of detective for Film mode
9	Video Motion Window Stop Y	<VOFSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 51	2:3pull down setting				
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	4	1 - 5	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 32767	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 32767	
4	Global Motion Threshold	<GMDTHRD>	124	0 - 1024	
5	23Film Mode Threshold	<FILMTHRD23>	100	0 - 32767	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 2047	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 1023	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 60	Image				
0	Center Contrast		512/556/534/534/492/492	0 - 1023	Video(S-Video) / Component / SCART / ANALOG / DIGITAL / HDCP Setting Value= (MENU Value - MENU Center Value) x Alpha / 10 + Center [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		512/480/512/500/512/512	0 - 1023	
2	Center Color		512/534/512/512/512/512	0 - 1023	
3	Center Tint		90/90/90/90/90/90	0-180	
4	Center Sharpness		16/16/16/16/16/16	16	
5	Alpha Contrast		40/40/40/40/40/40	0-1000	
6	Alpha Brightness		115/115/115/115/115	0-1000	
7	Alpha Color		70/70/70/70/70/70	0-1000	
8	Alpha Tint		10/10/10/10/10/10	0-1000	
9	Alpha Sharpness		10/10/10/10/10/10	0-1000	
Group 100	Panel Service				
0	G-SubGain		2048/2068/1960/1960/2048/2068/1960/1960	0-4095	PCStandard/PCDynamic/PCReal/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVBlackBoard
1	R-SubGain		2048/2068/1960/1960/2048/2068/1960/1960	0-4095	
2	B-SubGain		2048/2068/1960/1960/2048/2068/1960/1960	0-4095	
3	G-SubBright		0/0/0/40/0/0/0/40	0-4095	PCStandard/PCDynamic/PCReal/PCBlackBoard/AVStandard/AVDynamic/AVCinema/AVBlackBoard
4	R-SubBright		0/0/0/40/0/0/0/40	0-4095	
5	B-SubBright		0/0/0/40/0/0/0/40	0-4095	
6	G-GammaShift		0/0	0-4095	PC/AV Center=512 [R] and [B] are linked with [G]
7	R-GammaShift		0/0	0-4095	
8	B-GammaShift		0/0	0-4095	
9	G-ReferH		3688/3688	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
10	G-ReferL		882/882	0-4095	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
11	R-ReferH		3688/3688	0-4095	Scan Direction (Front/Rear)
12	R-ReferL		882/882	0-4095	Scan Direction (Front/Rear)
13	B-ReferH		3688/3688	0-4095	Scan Direction (Front/Rear)
14	B-ReferL		882/882	0-4095	Scan Direction (Front/Rear)
15	DXOutR		246	0-1023	
16	DXOutG		246	0-1023	
17	DXOutB		246	0-1023	
18	H_Change_Pos		26	0-255	
19	SH_Base		273	0-4095	
20	NRG_Pos		37	0-127	
21	NRG_Width		37	0-255	
22	OSD_Pos		2	0-3	
23	OSD_Ptn		0	0-9	
24	GammaCtrl		1	0-1	
25	REF_GatePos		10	0-1023	
26	REF_GateDur		140	0-1023	
27	R-BasePos		8	0-15	
28	G-BasePos		8	0-15	
29	B-BasePos		8	0-15	
30	RGB-Adjust		0	0-7	
31	RGB-AdjLv		0	0-4095	Operation STEP=256[0<->256<->512<->768<->1023]
32	LineR0		0	0-1023	(MIN<->MAX Cyclic Operation)

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
33	LineR1		0	0-1023	(MIN<-->MAX Cyclic Operation)
34	LineR2		0	0-1023	(MIN<-->MAX Cyclic Operation)
35	LineR3		0	0-1023	(MIN<-->MAX Cyclic Operation)
36	LineR4		0	0-1023	(MIN<-->MAX Cyclic Operation)
37	LineG0		0	0-1023	(MIN<-->MAX Cyclic Operation)
38	LineG1		0	0-1023	(MIN<-->MAX Cyclic Operation)
39	LineG2		0	0-1023	(MIN<-->MAX Cyclic Operation)
40	LineG3		0	0-1023	(MIN<-->MAX Cyclic Operation)
41	LineG4		0	0-1023	(MIN<-->MAX Cyclic Operation)
42	LineB0		0	0-1023	(MIN<-->MAX Cyclic Operation)
43	LineB1		0	0-1023	(MIN<-->MAX Cyclic Operation)
44	LineB2		0	0-1023	(MIN<-->MAX Cyclic Operation)
45	LineB3		0	0-1023	(MIN<-->MAX Cyclic Operation)
46	LineB4		0	0-1023	(MIN<-->MAX Cyclic Operation)
47	GhostR-Pos		8	0-31	
48	GhostG-Pos		8	0-31	
49	GhostB-Pos		8	0-31	
50	GhostR-Cent		1	0-2047	
51	GhostR-Start		127	0-255	
52	GhostR-End		128	0-255	
53	GhostG-Cent		1	0-2047	
54	GhostG-Start		127	0-255	
55	GhostG-End		128	0-255	
56	GhostB-Cent		1	0-2047	
57	GhostB-Start		127	0-255	
58	GhostB-End		128	0-255	
59	BlockR1		0	0-2047	(MIN<-->MAX Cyclic Operation)
60	BlockG1		0	0-2047	(MIN<-->MAX Cyclic Operation)
61	BlockB1		0	0-2047	(MIN<-->MAX Cyclic Operation)
62	BlockR2		0	0-2047	(MIN<-->MAX Cyclic Operation)
63	BlockG2		0	0-2047	(MIN<-->MAX Cyclic Operation)
64	BlockB2		0	0-2047	(MIN<-->MAX Cyclic Operation)
65	ReverseR		0	0-2047	(MIN<-->MAX Cyclic Operation)
66	ReverseG		0	0-2047	(MIN<-->MAX Cyclic Operation)
67	ReverseB		0	0-2047	(MIN<-->MAX Cyclic Operation)
68	BackCrossR-Cent		0	0-2047	
69	BackCrossR-Start		128	0-255	
70	BackCrossR-End		128	0-255	
71	BackCrossG-Cent		0	0-2047	
72	BackCrossG-Start		128	0-255	
73	BackCrossG-End		128	0-255	
74	BackCrossBR-Cent		0	0-2047	
75	BackCrossB-Start		128	0-255	
76	BackCrossB-End		128	0-255	
77	ColshdSelect		1	0-1	
78	R-Min		276	0-1023	
79	R-Mid2		437	0-1023	
80	R-Mid1		568	0-1023	
81	R-Max		676	0-1023	
82	G-Min		276	0-1023	
83	G-Mid2		437	0-1023	
84	G-Mid1		568	0-1023	
85	G-Max		676	0-1023	
86	B-Min		276	0-1023	
87	B-Mid2		437	0-1023	
88	B-Mid1		568	0-1023	
89	B-Max		676	0-1023	
90	H-OutPos		108	0-2047	
91	OutAreaLv		0	0-1023	
92	FlickerAdj		0	0/2	not used
93	FRC_Bit		3	0-3	
94	FrontCTalkR-Cent		2047	0-2047	
95	FrontCTalkR-Start		128	0-255	
96	FrontCTalkR-End		128	0-255	
97	FrontCTalkG-Cent		2047	0-2047	
98	FrontCTalkG-Start		128	0-255	
99	FrontCTalkG-End		128	0-255	
100	FrontCTalkB-Cent		2047	0-2047	
101	FrontCTalkB-Start		128	0-255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
102	FrontCTalkB-End		128	0-255	
103	R-DCOffset-NGain		0	0-1023	Scan Direction (Front/Rear)
104	R-DCOffset-N1		0	0-2047	Scan Direction (Front/Rear)
105	R-DCOffset-N2		0	0-2047	Scan Direction (Front/Rear)
106	R-DCOffset-N3		0	0-2047	Scan Direction (Front/Rear)
107	R-DCOffset-N4		0	0-2047	Scan Direction (Front/Rear)
108	R-DCOffset-N5		0	0-2047	Scan Direction (Front/Rear)
109	R-DCOffset-N6		0	0-2047	Scan Direction (Front/Rear)
110	R-DCOffset-N7		0	0-2047	Scan Direction (Front/Rear)
111	R-DCOffset-N8		0	0-2047	Scan Direction (Front/Rear)
112	R-DCOffset-N9		0	0-2047	Scan Direction (Front/Rear)
113	R-DCOffset-N10		0	0-2047	Scan Direction (Front/Rear)
114	R-DCOffset-N11		0	0-2047	Scan Direction (Front/Rear)
115	R-DCOffset-N12		0	0-2047	Scan Direction (Front/Rear)
116	G-DCOffset-NGain		0	0-1023	Scan Direction (Front/Rear)
117	G-DCOffset-N1		0	0-2047	Scan Direction (Front/Rear)
118	G-DCOffset-N2		0	0-2047	Scan Direction (Front/Rear)
119	G-DCOffset-N3		0	0-2047	Scan Direction (Front/Rear)
120	G-DCOffset-N4		0	0-2047	Scan Direction (Front/Rear)
121	G-DCOffset-N5		0	0-2047	Scan Direction (Front/Rear)
122	G-DCOffset-N6		0	0-2047	Scan Direction (Front/Rear)
123	G-DCOffset-N7		0	0-2047	Scan Direction (Front/Rear)
124	G-DCOffset-N8		0	0-2047	Scan Direction (Front/Rear)
125	G-DCOffset-N9		0	0-2047	Scan Direction (Front/Rear)
126	G-DCOffset-N10		0	0-2047	Scan Direction (Front/Rear)
127	G-DCOffset-N11		0	0-2047	Scan Direction (Front/Rear)
128	G-DCOffset-N12		0	0-2047	Scan Direction (Front/Rear)
129	B-DCOffset-NGain		0	0-1023	Scan Direction (Front/Rear)
130	B-DCOffset-N1		0	0-2047	Scan Direction (Front/Rear)
131	B-DCOffset-N2		0	0-2047	Scan Direction (Front/Rear)
132	B-DCOffset-N3		0	0-2047	Scan Direction (Front/Rear)
133	B-DCOffset-N4		0	0-2047	Scan Direction (Front/Rear)
134	B-DCOffset-N5		0	0-2047	Scan Direction (Front/Rear)
135	B-DCOffset-N6		0	0-2047	Scan Direction (Front/Rear)
136	B-DCOffset-N7		0	0-2047	Scan Direction (Front/Rear)
137	B-DCOffset-N8		0	0-2047	Scan Direction (Front/Rear)
138	B-DCOffset-N9		0	0-2047	Scan Direction (Front/Rear)
139	B-DCOffset-N10		0	0-2047	Scan Direction (Front/Rear)
140	B-DCOffset-N11		0	0-2047	Scan Direction (Front/Rear)
141	B-DCOffset-N12		0	0-2047	Scan Direction (Front/Rear)
142	R-DCOffset-PGain		0	0-1023	Scan Direction (Front/Rear)
143	R-DCOffset-P1		0	0-2047	Scan Direction (Front/Rear)
144	R-DCOffset-P2		0	0-2047	Scan Direction (Front/Rear)
145	R-DCOffset-P3		0	0-2047	Scan Direction (Front/Rear)
146	R-DCOffset-P4		0	0-2047	Scan Direction (Front/Rear)
147	R-DCOffset-P5		0	0-2047	Scan Direction (Front/Rear)
148	R-DCOffset-P6		0	0-2047	Scan Direction (Front/Rear)
149	R-DCOffset-P7		0	0-2047	Scan Direction (Front/Rear)
150	R-DCOffset-P8		0	0-2047	Scan Direction (Front/Rear)
151	R-DCOffset-P9		0	0-2047	Scan Direction (Front/Rear)
152	R-DCOffset-P10		0	0-2047	Scan Direction (Front/Rear)
153	R-DCOffset-P11		0	0-2047	Scan Direction (Front/Rear)
154	R-DCOffset-P12		0	0-2047	Scan Direction (Front/Rear)
155	G-DCOffset-PGain		0	0-1023	Scan Direction (Front/Rear)
156	G-DCOffset-P1		0	0-2047	Scan Direction (Front/Rear)
157	G-DCOffset-P2		0	0-2047	Scan Direction (Front/Rear)
158	G-DCOffset-P3		0	0-2047	Scan Direction (Front/Rear)
159	G-DCOffset-P4		0	0-2047	Scan Direction (Front/Rear)
160	G-DCOffset-P5		0	0-2047	Scan Direction (Front/Rear)
161	G-DCOffset-P6		0	0-2047	Scan Direction (Front/Rear)
162	G-DCOffset-P7		0	0-2047	Scan Direction (Front/Rear)
163	G-DCOffset-P8		0	0-2047	Scan Direction (Front/Rear)
164	G-DCOffset-P9		0	0-2047	Scan Direction (Front/Rear)
165	G-DCOffset-P10		0	0-2047	Scan Direction (Front/Rear)
166	G-DCOffset-P11		0	0-2047	Scan Direction (Front/Rear)
167	G-DCOffset-P12		0	0-2047	Scan Direction (Front/Rear)
168	B-DCOffset-PGain		0	0-1023	Scan Direction (Front/Rear)
169	B-DCOffset-P1		0	0-2047	Scan Direction (Front/Rear)
170	B-DCOffset-P2		0	0-2047	Scan Direction (Front/Rear)

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
171	B-DCOffset-P3		0	0-2047	Scan Direction (Front/Rear)
172	B-DCOffset-P4		0	0-2047	Scan Direction (Front/Rear)
173	B-DCOffset-P5		0	0-2047	Scan Direction (Front/Rear)
174	B-DCOffset-P6		0	0-2047	Scan Direction (Front/Rear)
175	B-DCOffset-P7		0	0-2047	Scan Direction (Front/Rear)
176	B-DCOffset-P8		0	0-2047	Scan Direction (Front/Rear)
177	B-DCOffset-P9		0	0-2047	Scan Direction (Front/Rear)
178	B-DCOffset-P10		0	0-2047	Scan Direction (Front/Rear)
179	B-DCOffset-P11		0	0-2047	Scan Direction (Front/Rear)
180	B-DCOffset-P12		0	0-2047	Scan Direction (Front/Rear)
181	ENBX-R		0	0-127	
182	ENBX-G		0	0-127	
183	ENBX-B		0	0-127	
184	DXOutPos		0	0-1	
185	R_V_INPUT_SETP_0		22	0-1023	
186	R_V_INPUT_SETP_512		18	0-1023	
187	R_V_INPUT_SETP_1024		14	0-1023	
188	R_V_INPUT_SETP_1536		11	0-1023	
189	R_V_INPUT_SETP_2048		8	0-1023	
190	R_V_INPUT_SETP_2560		4	0-1023	
191	R_V_INPUT_SETP_3072		0	0-1023	
192	R_V_INPUT_SETP_3584		0	0-1023	
193	R_V_INPUT_SETP_4096		0	0-1023	
194	G_V_INPUT_SETP_0		22	0-1023	
195	G_V_INPUT_SETP_512		18	0-1023	
196	G_V_INPUT_SETP_1024		14	0-1023	
197	G_V_INPUT_SETP_1536		11	0-1023	
198	G_V_INPUT_SETP_2048		8	0-1023	
199	G_V_INPUT_SETP_2560		4	0-1023	
200	G_V_INPUT_SETP_3072		0	0-1023	
201	G_V_INPUT_SETP_3584		0	0-1023	
202	G_V_INPUT_SETP_4096		0	0-1023	
203	B_V_INPUT_SETP_0		22	0-1023	
204	B_V_INPUT_SETP_512		18	0-1023	
205	B_V_INPUT_SETP_1024		14	0-1023	
206	B_V_INPUT_SETP_1536		11	0-1023	
207	B_V_INPUT_SETP_2048		8	0-1023	
208	B_V_INPUT_SETP_2560		4	0-1023	
209	B_V_INPUT_SETP_3072		0	0-1023	
210	B_V_INPUT_SETP_3584		0	0-1023	
211	B_V_INPUT_SETP_4096		0	0-1023	
212	FRPPOL		84	0-4095	
213	FRP_POS		24	0-255	
214	SWAP		1285	0-2047	
215	PRE_COLSHD_SEL		0	0-255	
216	HSYNC_FOLLOW		1	0-1	
217	DELAY_HSYNC		0	0-2047	
218	DELAY_VSYNC		16	0-255	
219	VSYNC_FOLLOW		0	0-1	
220	BLANK_RCENTER		0	0-2047	
221	BLANK_RSTART		128	0-255	
222	BLANK_REND		128	0-255	
223	BLANK_GCENTER		0	0-2047	
224	BLANK_GSTART		128	0-255	
225	BLANK_GEND		128	0-255	
226	BLANK_BCENTER		0	0-2047	
227	BLANK_BSTART		128	0-255	
228	BLANK_BEND		128	0-255	
229	Output limit R		4095	0-4095	
230	Output limit G		4095	0-4095	
231	Output limit B		4095	0-4095	
232	CROSSTALK_COEF_R		1023	0-1023	
233	CROSSTALK_COEF_G		1023	0-1023	
234	CROSSTALK_COEF_B		1023	0-1023	
235	LCCON_ENABL		0	0-1	
Group101 : Panel Service(6150/1060)					
0	R-LCCOM		345	0-511	
1	G-LCCOM		345	0-511	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
2	B-LCCOM		345	0-511	
3	R-LCCOM-Gain		189	0-255	
4	G-LCCOM-Gain		189	0-255	
5	B-LCCOM-Gain		189	0-255	
6	R-LCCOM-Bright		0	0-255	
7	G-LCCOM-Bright		0	0-255	
8	B-LCCOM-Bright		0	0-255	
9	R-LCCOM-Cent		16	0-63	
10	G-LCCOM-Cent		16	0-63	
11	B-LCCOM-Cent		16	0-63	
12	R-ENBX-PW		11	0-127	
13	G-ENBX-PW		11	0-127	
14	B-ENBX-PW		11	0-127	
15	R-DXIN		8	0-255	Link with No.18
16	G-DXIN		8	0-255	Link with No.19
17	B-DXIN		8	0-255	Link with No.20
18	R-CLXIN		8	0-255	Link with No.15
19	G-CLXIN		8	0-255	Link with No.16
20	B-CLXIN		8	0-255	Link with No.17
21	R-ENBX1IN		2	0-255	
22	G-ENBX1IN		2	0-255	
23	B-ENBX1IN		2	0-255	
Group102 : 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	
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	
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
2	PJLink Enable	PJLink	0	0 - 1	0: Disable 1: Enable
3	Shipping Setting		0	0 - 20	Default set when the value is set to 10
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
7	Device Access Disable		0	0 - 1	0:Enable (Normal), 1:Disable No last memory
20	Projector Time Reset		0	0 - 20	Projector Time is cleared when the value is set to 10
21	Lamp Warning Time (NORMAL)	Lamp Life at Normal Mode (Warning Time at Normal)		500 - 8000	
22	Lamp Warning Time (ECO)	Lamp Life at Eco Mode (Warning Time at Eco)		500 - 8000	
23	Lamp Warning Time (HIGH)	Lamp Life at High Mode (Warning Time at High)		500 - 8000	
30	Lamp life test enable				0:Disable 1:Enable, for safety test only
31	Lmap On time(for life test)	For test purpose			
32	Lamp Off time(for life test)	For test purpose			
33	Lamp total time(for life test)	For test purpose			
40	PreScaler		n/a	0-255	n/a
41	Htime		n/a	0-65535	n/a
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

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
55	Motor Disable	Motors Disable	0	0 - 1	0: On, 1: Off
56	Menu Position	Move menu (X axis)	0	0 - 1024	
57	Menu Position	Move menu (Y axis)	0	0 - 1024	
58	Lamp Go Out		n/a	0 - 1	
59	Source Search Enable	Source Search Enable	1	0 - 1	
60	Language Default setting	0:English(Default) 1:Japanese	0	0 - 1	Set the default language
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
2	Field Sense Invert Enable		0	0 - 1	Reverse Processing of FLDINVSetting Value 0: Disable - Used FLDINV Setting Value 1: Enable - Used Reversed FLDINV Setting Value
3					
4	Sub Image Enable		1	0 - 1	0:Disable (Service Adjustment Dsiable, Used all the Center Values 1:Enable (Service Adjustment Enable)
6	Zoom Accelerator Enable		0	0 - 1	0:Zoom Accelerator OFF, 1:Zoom Accelerator ON No last memory
7	DZoom Reset by Keystone		0	0 - 1	0:Enable (Normal), 1:Disable (Dzoo is not cancelled even if Keystone is cancelled) No last memory
8	Stability Count	Count Value of V-missing	5	0 - 255	
9	Sensivity for Signal Lost (HSYNC)	Only used this value for No Signal Judgement(Hz)	350	0 - 65535	
10	Sensivity for Signal Lost (VSYNC)	Only used this value for No Signal Judgement(Line)	3	0 - 255	
11	Keystone Filter Center Value	Reference Value	16	0 - 30	
Group 202	Option (MCI model only)				
0	Memory Viewer OSD	Memory Viewer OSD Display (1: Yes, 0: No)	1	0 - 1	
Group 210	LampContorl				
0	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value		0 - 255	
1	DIMMER_CTRL_LEVEL2	Luminance Level 2 Data for Dimmer: Dim Level 2 at the less than the Value		0 - 255	
2	DIMMER_CTRL_LEVEL3	Luminance Level 3 Data for Dimmer: Dim Level 3 at the less than the Value		0 - 255	
3	DIMMER_CTRL_LEVEL4	Luminance Level 4 Data for Dimmer: Dim Level 4 at the less than the Value		0 - 255	
4	DIMMER_CTRL_LEVEL5	Luminance Level 5 Data for Dimmer: Dim Level 5 at the less than the Value		0 - 255	
5	DIMMER_CTRL_LEVEL6	Luminance Level 6 Data for Dimmer: Dim Level 6 at the less than the Value		0 - 255	
6	DIMMER_CTRL_LEVEL7	Luminance Level 7 Data for Dimmer: Dim Level 7 at the less than the Value		0 - 255	
7	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value		0 - 255	
8	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value		0 - 255	
9	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value		0 - 255	
10	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value		0 - 255	
11	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value		0 - 255	
12	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value		0 - 255	

Electrical Adjustments

Group/Item	Item Name	Function	Initial				Range	Note
13	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value					0 - 255	
14	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value					0 - 255	
15	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer					0 - 16	
16	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer					-	* Read only
17	DIMMER_LEVEL_AUTO	Current Dimmer Leverl					-	* Read only
18	DIMMER_LEVEL_NORMAL	Normal Dimmer Level					0 - 15	
19	DIMMER_LEVEL_ECO	Eco Dimmer Level					0 - 15	
20	Lamp check enable							0: Lamp Failure Detection OFF (White 50% Back), 1 : ON (Blue 100% Back)
21	VOLTAGE_LEVEL	Lamp Voltage						Unit: 8bit(Raw Data) * Read only
22	DIMMER_LEVEL_HIGH	Dimmer level High					0 - 15	
Group 231	VBI Slice Level							
0	Generic Initial Slicing Level	PW190 register 0xE344	0x34				0-255	
1	Generic High Level Threshold	PW190 register 0xE345	-				0-255	
2	Generic Low Level Threshold	PW190 register 0xE346	-				0-255	
3	Generic Minimum Low Level	PW190 register 0xE344	0x30				0-255	
4	Generic mAXIMUM high Level	PW190 register 0xE348	0xe0				0-255	
							0-255	
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	10				0 - 255	
1	FAN1 MAX ADJUST (DAC)		225				0 - 255	
2	FAN2 MIN ADJUST (DAC)		10				0 - 255	
3	FAN2 MAX ADJUST (DAC)		225				0 - 255	
4	FAN3 MIN ADJUST (DAC)		10				0 - 255	
5	FAN3 MAX ADJUST (DAC)		225				0 - 255	
6	Not used							
7	Not used							
Group 251								
	Not used							
Group 252	Fan Option							
0	HI-LAND SWITCH	0: Normal, 1: Hi-Land, 2-4: Hi-Land 1-3	0				0 - 5	
1	SAFETY SWITCH	For test purpose	0				0 - 6	
2	FAN MANUAL SWITCH	0: Auto, 1: Manual	0				0 - 3	
3	FAN1 MANUAL VOLTAGE	Fan Voltage (unit : 0.1V)	100				0 - 255	
4	FAN2 MANUAL VOLTAGE	Effective only when Fan Maual switch is 1	100				0 - 255	
5	FAN3 MANUAL VOLTAGE		100				0 - 255	
6	Not used							
Group 253	Fan Tem Error Setting (Memorized)		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling		
0	Temp A Warning (High)	Temp. A to judge the Temp Error at High (Room)	46	46	42	39	30-100	
1	Temp B Warning (High)	Temp. B to judge the Temp Error at High (Panel)	60	60	57	54	30-100	
2	Temp C Warning (High)	Temp. C to judge the Temp Error at High (Lamp)	65	65	64	64	30-100	
3	Temp B-A Warning (High)	Temp. B-A to judge the Temp Error at High (Clogging Det.)	100	100	100	100	0-100	
4	Temp C-A Warning (High)	Temp. C-A to judge the Temp Error at High (Clogging Det.)	100	100	100	100	0-100	
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	46	46	42	46	30-100	
6	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	60	61	56	54	30-100	
7	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	65	65	63	63	30-100	
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	
9	Temp C-A Warning (Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100	

Electrical Adjustments

Group/Item	Item Name	Function	Initial				Range	Note	
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	46	46	41	40	30-100		
11	Temp B Warning (Eco)	Temp. B to judge the Temp Error at Eco (Panel)	60	61	55	54	30-100		
12	Temp C Warning (Eco)	Temp. C to judge the Temp Error at Eco (Lamp)	65	64	62	62	30-100		
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100		
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	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)		5				0-100		
17	Temp C Warning Offset (Temp)		15				0-100		
18	Temp B-A Warning Offset (Temp)		0				0-100		
19	Temp C-A Warning Offset (Temp)		0				0-100		
20	Temp A Warning Offset (Time)		5				0-100		
21	Temp B Warning Offset (Time)		5				0-100		
22	Temp C Warning Offset (Time)		18				0-100		
23	Temp B-A Warning Offset (Time)		1				0-100		
24	Temp C-A Warning Offset (Time)		1				0-100		
25	Factory Mode	For factor use	0				0-1		
Group 254	Fan Control Range Setting (Temp./Voltage)		Normal	Ceiling	HiLand-Normal	HiLand-Ceiling			
0	High Fan Control Min Temp	Temp Sensor Control Start/End Temp. at High	38	38	34	33	20-100		
1	High Fan Control Max Temp		43	43	40	38	20-100		
2	High Fan1 Min	Fan voltage value at High (unit: 0.1V)	95	95	115	115	0-255		
3	High Fan1 Max		135	135	135	135	0-255		
4	High Fan2 Min		85	85	130	130	0-255		
5	High Fan2 Max		130	130	130	130	0-255		
6	High Fan3 Min		75	75	80	80	0-255		
7	High Fan3 Max		77	77	90	90	0-255		
8	High Fan4 Min		9999		9999		-		
9	High Fan4 Max		9999		9999		-		
10	Normal Fan Control Min Temp		Temp Sensor Control Start/End Temp. p at Normal	38	39	35	33	20-100	
11	Normal Fan Control Max Temp			43	43	40	38	20-100	
12	Normal Fan1 Min	Fan voltage value at Normal (unit: 0.1V)	80	80	105	105	0-255		
13	Normal Fan1 Max		125	125	125	125	0-255		
14	Normal Fan2 Min		75	75	100	100	0-255		
15	Normal Fan2 Max		120	120	120	120	0-255		
16	Normal Fan3 Min		70	70	75	75	0-255		
17	Normal Fan3 Max		75	70	80	80	0-255		
18	Normal Fan4 Min		9999		9999		-		
19	Normal Fan4 Max		9999		9999		-		
20	Eco Fan Control Min Temp		Temp Sensor Control Start/End Temp. p at Eco	38	39	35	32	20-100	
21	Eco Fan Control Max Temp			42	43	39	38	20-100	
22	Eco Fan1 Min	Fan voltage value at Eco (unit: 0.1V)	60	60	95	95	0-255		
23	Eco Fan1 Max		115	115	115	115	0-255		
24	Eco Fan2 Min		70	70	90	90	0-255		
25	Eco Fan2 Max		110	110	110	110	0-255		
26	Eco Fan3 Min		53	53	58	58	0-255		
27	Eco Fan3 Max		53	53	63	63	0-255		
28	Eco Fan4 Min		9999		9999		-		
29	Eco Fan4 Max		9999		9999		-		
Group 255	Fan Start/Cooling Setting								
0	Fan1 Initial Volt		Fan Start Voltage (0.1V)	70				0-255	
1	Fan2 Initial Volt	70				0-255			
2	Fan3 Initial Volt	70				0-255			
3	Not used		9999				-		
4	Fan1 Cooling Speed	Fan Voltage at Power Off (0.1V)	130				0-255		
5	Fan2 Cooling Speed		130				0-255		
6	Fan3 Cooling Speed		130				0-255		

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
7	Not used		9999	-	
8	Cooling Time L1	Cooling Time stting at Fan Mode L1 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	2	1-15	
9	Cooling Time L2	Cooling Time stting at Fan Mode L2 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	3	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		38	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 (Vx10)		30-90	
2	Fan1 Speed Gain			0-255	
3	Fan2 Speed Gain	Additional Fan Speed of Min at Lamp Voltage Down (unit: 0.1V)		0-255	
4	Fan3 Speed Gain			0-255	
5	Not used		9999	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		
1	Standby Cooling Start Threshold	Cooling start threshold temp A	46		
2	Standby Cooling Enable	Cooling in standby Enable	1		
Group 260 Auto Calibration (Commn) * Auto Calibration					
0	Execute Calibration		0	0 - 1	Executes Auto-Calibration when changing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	10	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	1	1 - 20	
4	CHECK -Tolerance	Tolerance of OFFSET	2	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.	3	0 - 127	
7	OFFSET torelance	Torelance of Black Level Adj.	1	1 - 127	
8	GAIN target	Target Value of White Level Adj.	238	0 - 255	
9	GAIN torelance	Torelance of White Level Adj.	1	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	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
7	Image Area V Hight	Image Level Acquiring Area Height	9	0 - 4095	
8	Y Target Level	Target Value of Y Level Adj.	217	0 - 255	
11	Gain Tolerance	Tolerance of Level Adj.	1	0 - 255	
12	Delta Gain	Deviation Width of Gain Value	9	0 - 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	8	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
14	Y - OFFSET TARTGET		4	0 - 255	
15	CB OFFSET TARGET		128	0 - 255	
16	CR OFFSET TARGET		128	0 - 255	
17	Y - GAIN TARGET		217	0 - 255	
18	CB - GAIN TARGET		237	0 - 255	
19	CR - GAIN TARGET		237	0 - 255	
20	OFFSET torelance	Tolerance of OFFSET Adj.	1	1 - 255	
21	GAIN torelance	Tolerance of GAIN Adj.	1	1 - 255	
Group 280	AutoPC Adjstut				
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Un-supported Signal Input	0	0 - 1	0: Enable, 1: Disable
1	Frequency Step	Frequency Steps of TotalDot	1	0-3	
2	Frequency Threshold	Total Dot Frequency 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 500	Composite (NTSC) Composite / S-Video				
0					
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		18	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 501	Composite (PAL) Composite / S-Video				
0					
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		34	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 502	Composite (SECAM) Composite / S-Video				
0					

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
1	Disp Dots		652	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
Group 510	SCART(480i)				
0					
1	Disp Dots		662	0 ~ 4095	
2	H Back Porch		126	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		456	0 ~ 4095	
Group 511	SCART (575i)				
0					
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		144	0 ~ 4095	
3	V Back Porch		64	0 ~ 4095	
4	Disp Line		534	0 ~ 4095	
Group 520	YCbCr (480i)				
0	Total Dots		858	0 ~ 4095	
1	Disp Dots		670	0 ~ 4095	
2	H Back Porch		146	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		458	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		64	0 ~ 4095	
4	Disp Line		534	0 ~ 4095	
Group 522	YCbCr (480P)				
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		684	0 ~ 4095	
2	H Back Porch		136	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
Group 523	YCbCr (575P)				
0	Total Dots		64	0 ~ 4095	* Read only
1	Disp Dots		680	0 ~ 4095	
2	H Back Porch		142	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		550	0 ~ 4095	
Group 524	YCbCr (720P - 60)				
0	Total Dots		1650	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		316	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		700	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		338	0 ~ 4095	
3	V Back Porch		36	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 526	YCbCr (1080i - 60)				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		260	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 527	YCbCr (1080i - 50)				
0	Total Dots		2640	0 ~ 4095	* Read only
1	Disp Dots		1870	0 ~ 4095	

Electrical Adjustments

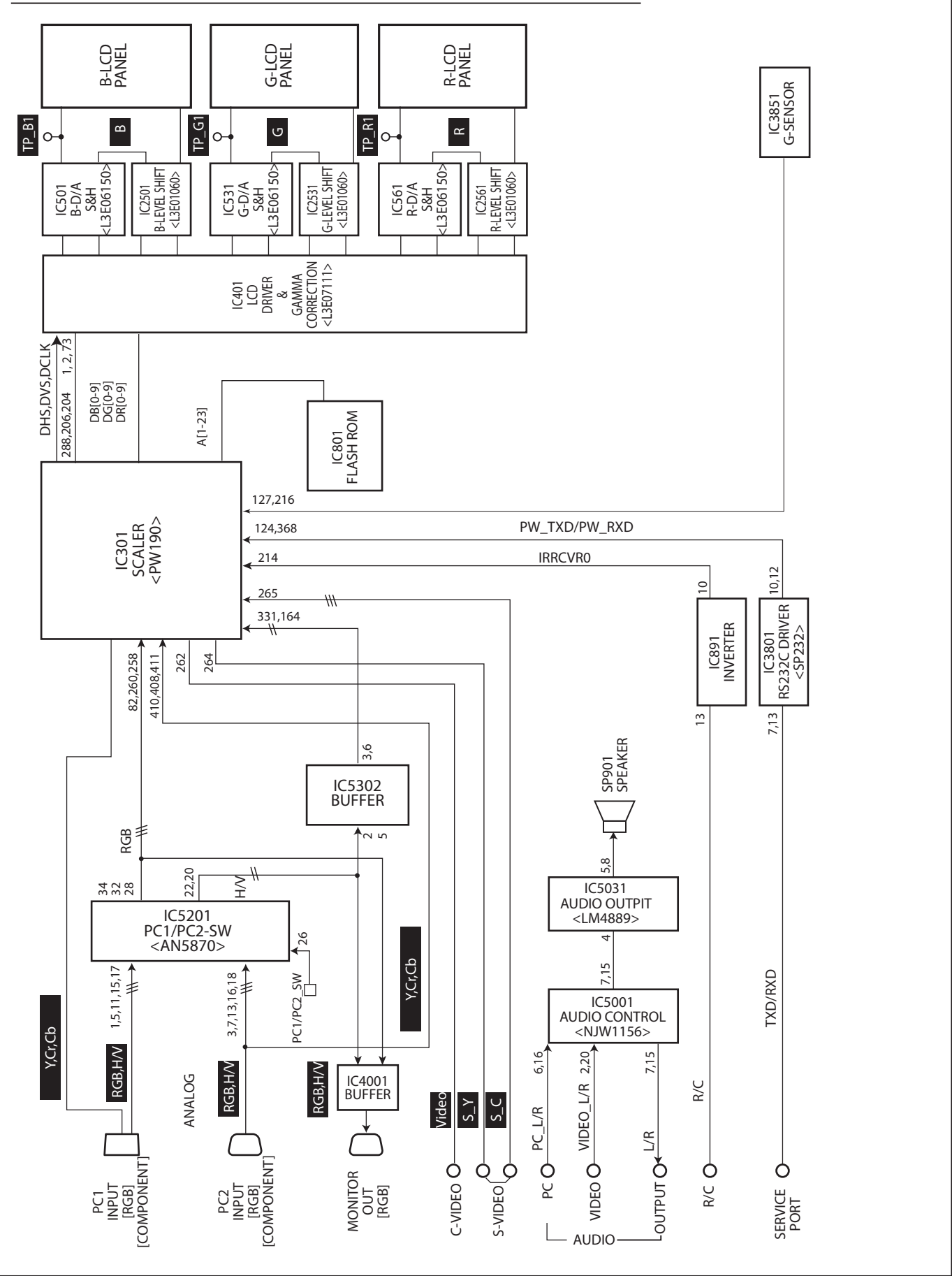
Group/Item	Item Name	Function	Initial	Range	Note
	2 H Back Porch		262	0 ~ 4095	
	3 V Back Porch		54	0 ~ 4095	
	4 Disp Line		1052	0 ~ 4095	
Group 528	YCbCr (1035i)				
	0 Total Dots		2200	0 ~ 4095	* Read only
	1 Disp Dots		1872	0 ~ 4095	
	2 H Back Porch		256	0 ~ 4095	
	3 V Back Porch		92	0 ~ 4095	
	4 Disp Line		1012	0 ~ 4095	
Group 540	RGB Video (480i)				
	0 Total Dots		960	0 ~ 4095	
	1 Disp Dots		752	0 ~ 4095	
	2 H Back Porch		166	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	
Group 541	RGB Video (575i)				
	0 Total Dots		966	0 ~ 4095	
	1 Disp Dots		736	0 ~ 4095	
	2 H Back Porch		182	0 ~ 4095	
	3 V Back Porch		66	0 ~ 4095	
	4 Disp Line		536	0 ~ 4095	
	5 Clamp		1	0 ~ 255	
	6 Clamp Width		31	0 ~ 255	
Group 542	RGB Video (480P)				
	0 Total Dots		960	0 ~ 4095	
	1 Disp Dots		766	0 ~ 4095	
	2 H Back Porch		156	0 ~ 4095	
	3 V Back Porch		46	0 ~ 4095	
	4 Disp Line		460	0 ~ 4095	
	5 Clamp		1	0 ~ 255	
	6 Clamp Width		31	0 ~ 255	
Group 543	RGB Video (575P)				
	0 Total Dots		986	0 ~ 4095	
	1 Disp Dots		774	0 ~ 4095	
	2 H Back Porch		174	0 ~ 4095	
	3 V Back Porch		62	0 ~ 4095	
	4 Disp Line		540	0 ~ 4095	
	5 Clamp		1	0 ~ 255	
	6 Clamp Width		31	0 ~ 255	
Group 544	RGB Video (720P - 60)				
	0 Total Dots		1650	0 ~ 4095	
	1 Disp Dots		1248	0 ~ 4095	
	2 H Back Porch		318	0 ~ 4095	
	3 V Back Porch		34	0 ~ 4095	
	4 Disp Line		702	0 ~ 4095	
	5 Clamp		1	0 ~ 255	
	6 Clamp Width		31	0 ~ 255	
Group 545	RGB Video (720P - 50)				
	0 Total Dots		1980	0 ~ 4095	
	1 Disp Dots		1246	0 ~ 4095	
	2 H Back Porch		310	0 ~ 4095	
	3 V Back Porch		34	0 ~ 4095	
	4 Disp Line		702	0 ~ 4095	
	5 Clamp		1	0 ~ 255	
	6 Clamp Width		31	0 ~ 255	
Group 546	RGB Video (1080i - 60)				
	0 Total Dots		2200	0 ~ 4095	
	1 Disp Dots		1872	0 ~ 4095	
	2 H Back Porch		262	0 ~ 4095	

Electrical Adjustments

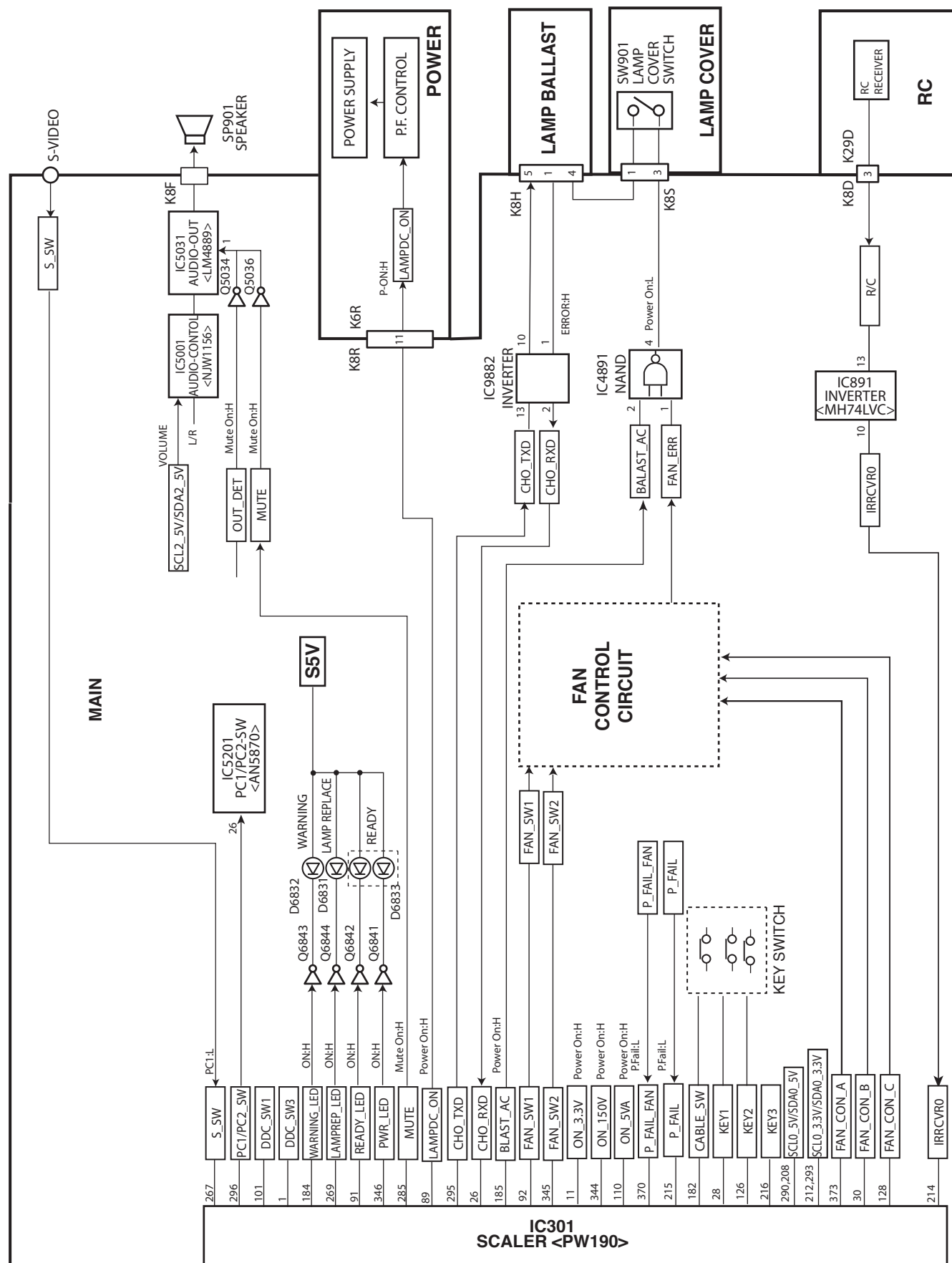
Group/Item	Item Name	Function	Initial	Range	Note
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 547	RGB Video (1080i - 50)				
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		264	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 548	RGB Video (1035i)				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 560	HDCP (480P)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEg		2	0 - 15	
Group 561	HDCP (575P)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEg		2	0 - 15	
Group 562	HDCP (720P-60)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)		0 - 255	
8	VSBEg		2	0 - 15	
Group 563	HDCP (720P-50)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEg		2	0 - 15	
Group 564	HDCP (1080i-60)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEg		2	0 - 15	
Group 565	HDCP (1080i-50)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEg		2	0 - 15	
Group 566	HDCP (1035i)				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	0	0 - 255	
8	VSBEg		2	0 - 15	
Group 981	Color Shading Adj Offset				
0	R-Max		0/0	0-255	
1	R-Mid1		0/0	0-255	
2	R-Mid2		0/0	0-255	
3	R-Min		0/0	0-255	
4	G-Max		0/0	0-255	
5	G-Mid1		0/0	0-255	
6	G-Mid2		0/0	0-255	
7	G-Min		0/0	0-255	
8	B-Max		0/0	0-255	
9	B-Mid1		0/0	0-255	
10	B-Mid2		0/0	0-255	
11	B-Min		0/0	0-255	

Chassis Block Diagrams

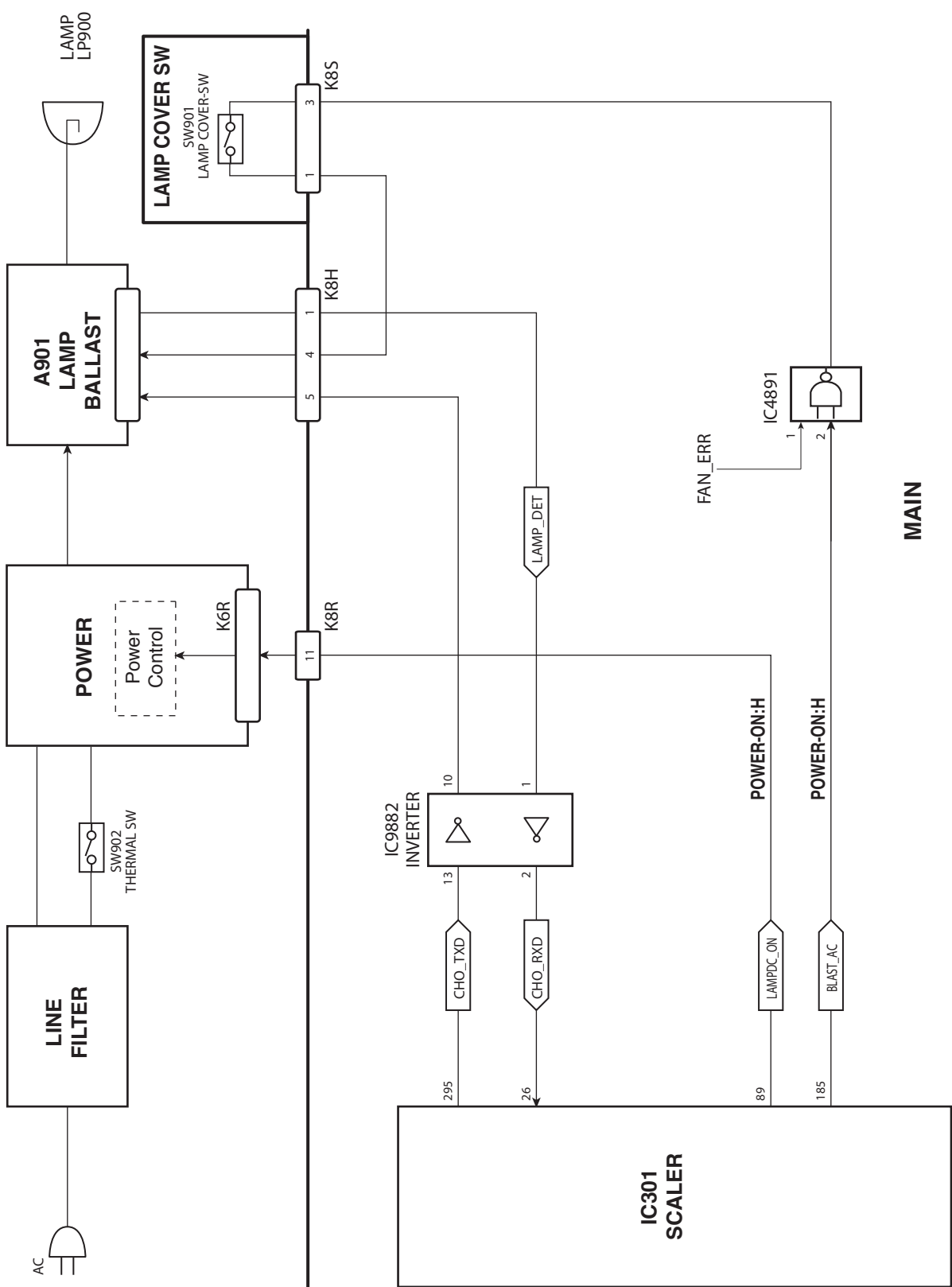
Chassis over view



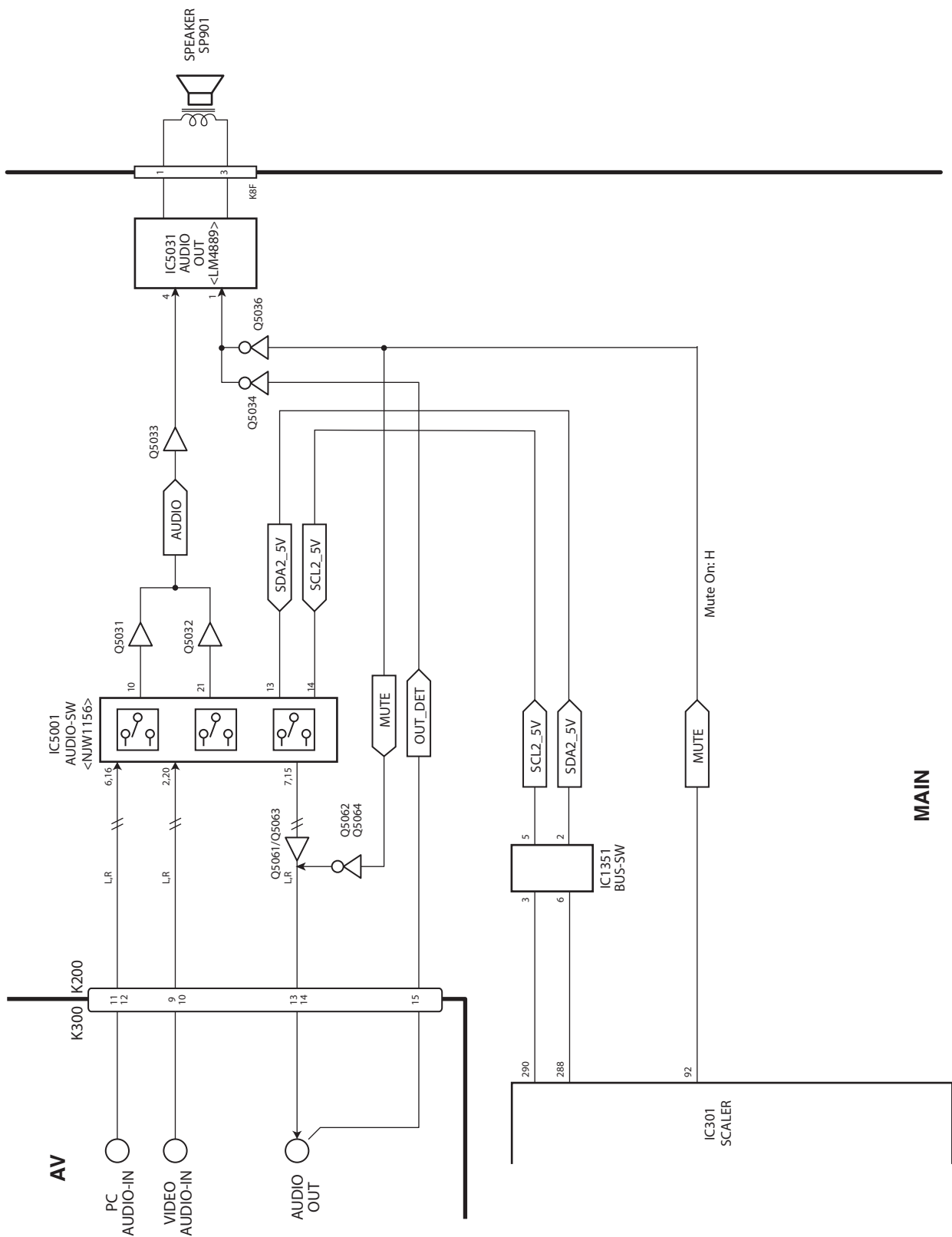
System control



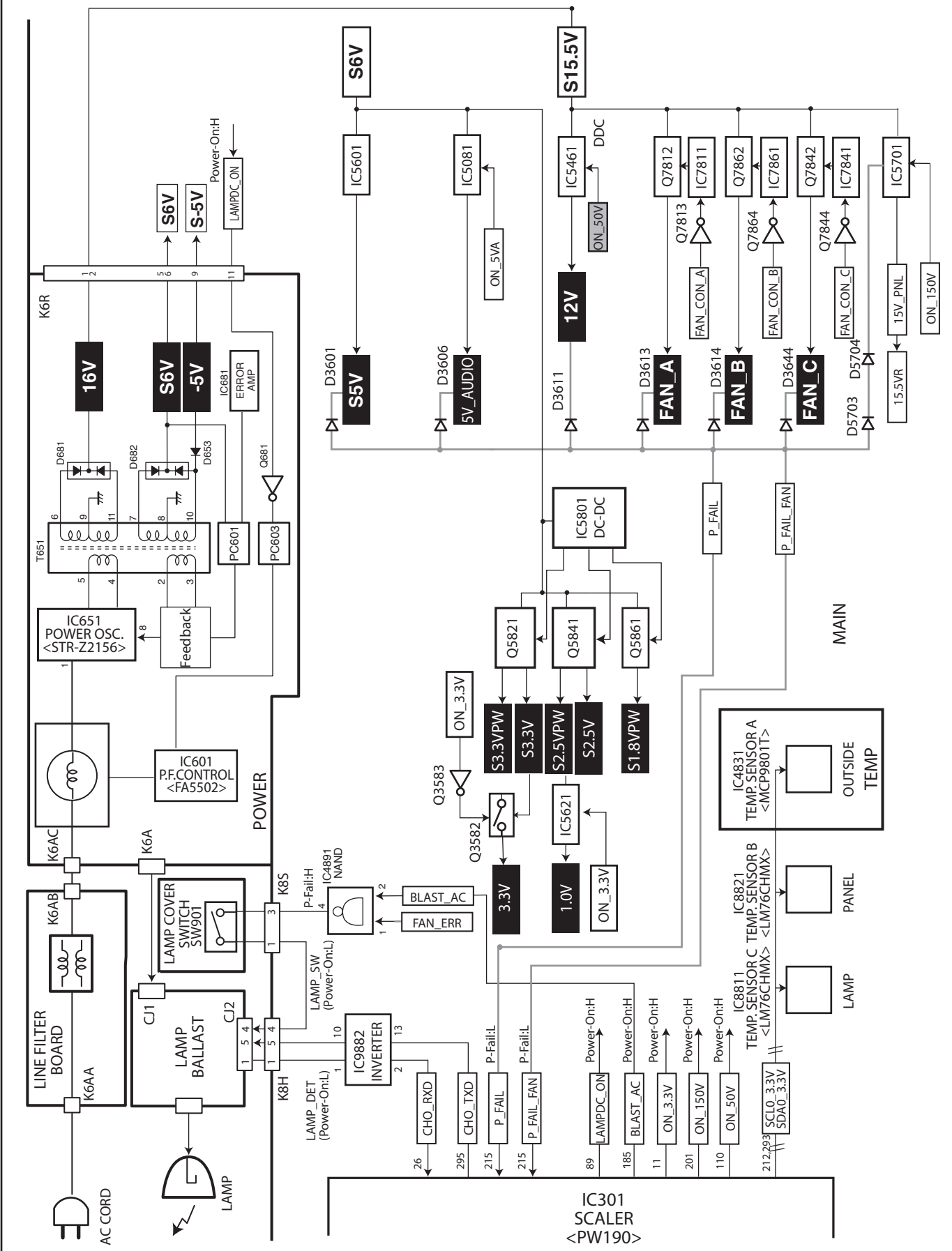
Lamp control



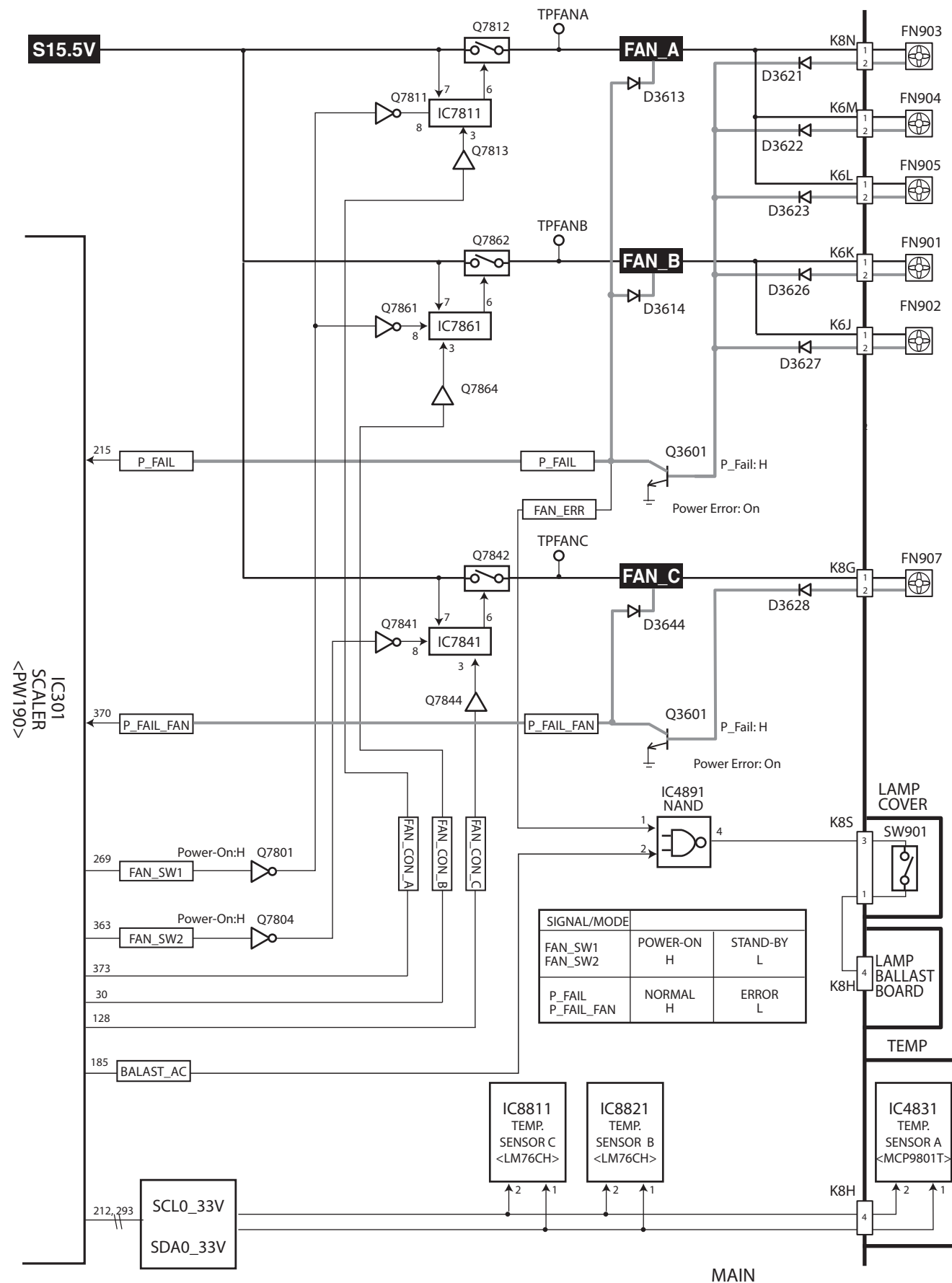
Audio circuit



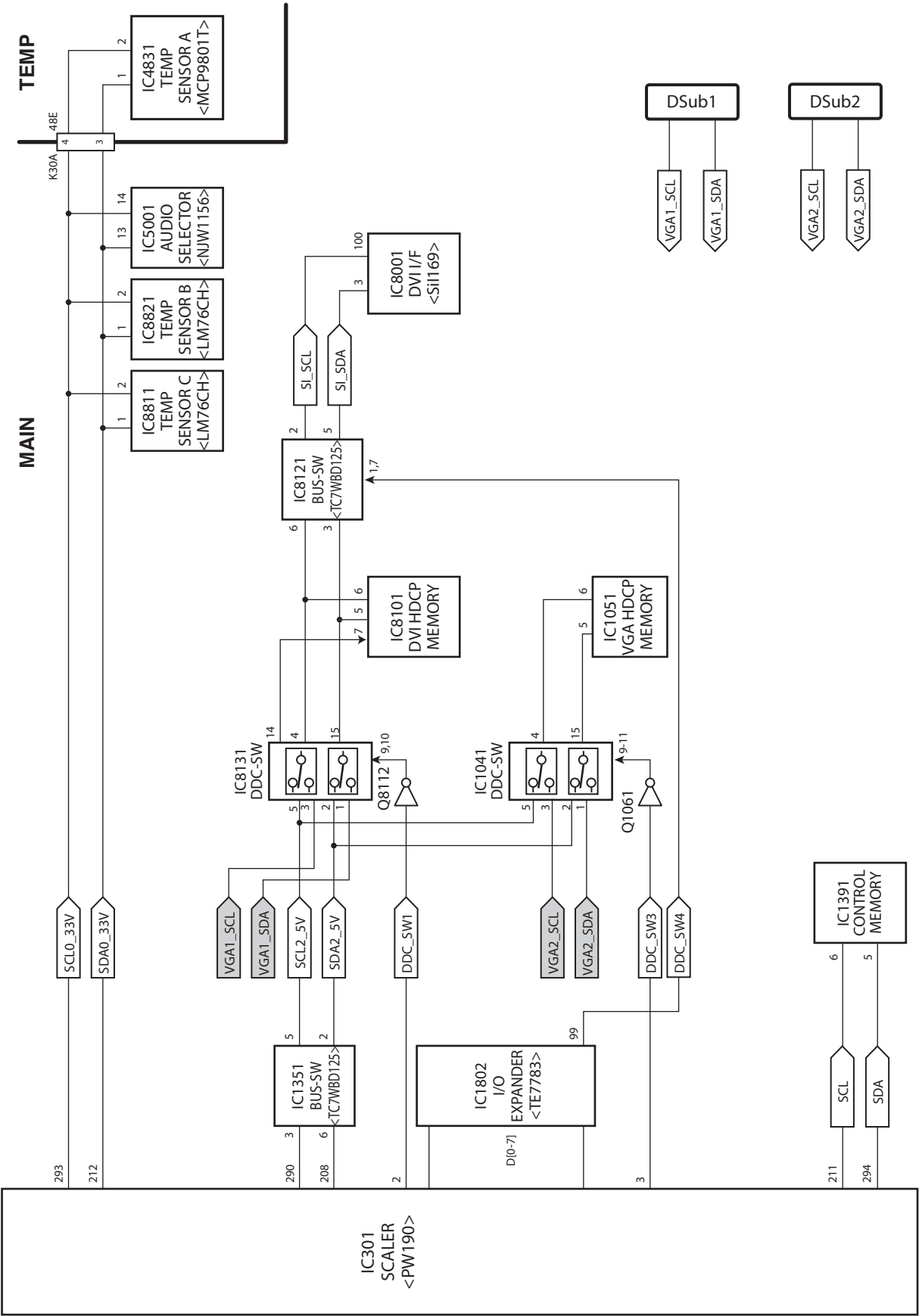
Power supply & protection circuit



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 POWER ON/STANDBY button to turn on the projector.
			The projector is operating normally.
			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.
			The projector is in the Power management mode.
			The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator stops blinking and the projector can be turned on. (The WARNING indicator keeps blinking.) Check and clean the filter.
			The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filter.
			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 green.

 ... blinks red.

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

No Power

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

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

AC cord, F601 (Fuse), Power board,

SW902 (Thermal sw.) short in normal

SW902 opens when the surrounding temperature of the switch exceeds 100°C.

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

The internal temperature is monitored by sensor ICs, IC8811(Lamp), IC8821 (Panel) on the Main board and IC4831 (Room) on the Temp. 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 215 of IC301<SCALER> when the abnormality occurs inside the projector, and then the IC301 sends the shutdown signal, LAMPDC_ON, to the power supply circuit to stop its operation, and signal BALAST_AC to the lamp ballast board via IC4891 and SW901<lamp cover switch> to stop operation of the lamp circuit.

An abnormality occurs on the secondary power supply;

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

An abnormality occurs on the fan control circuit;

Check FN901, FN902, FN903, FN904, FN905, FN907 and peripheral circuit.

If any of the fans has an error, the fan lock signal drives Q3601 or Q3644 becomes on. As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.

An abnormality occurs on the drive signals;

ON_150V signal (Power-on: H) is output from pin 344 of IC301 and switches Q2501, 15.5V supply circuit.

ON_5VA signal (Power-on: H) is output from pin 110 of IC301 and switches Q3582, 5VA supply circuit and switches IC5081, 5V_AUDIO supply circuit. ON_3.3V signal (Power-on: H) is output from pin 11 of IC301 and switches IC5631, 3.3V supply circuit and IC491, 1.2V supply circuit.

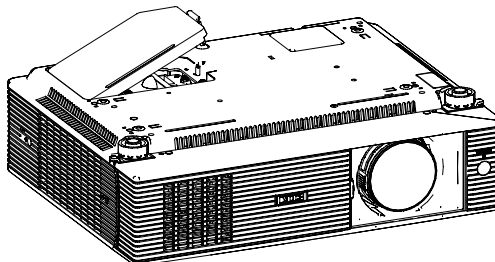
LAMPDC_ON signal (Power-on: H) is output from pin 89 of IC301 and supplied to the P.F Control IC, IC601, on the power supply board through Q681, and PC603.

BALAST_AC signal (Power-on: H) is output from pin 413 of IC301 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through SW901<Lamp Cover SW>.

CHO_RXD signal at pin 26 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, LAMP_DET/CHO_RXD signal becomes "High" and then IC301 shuts down the power supply circuit.

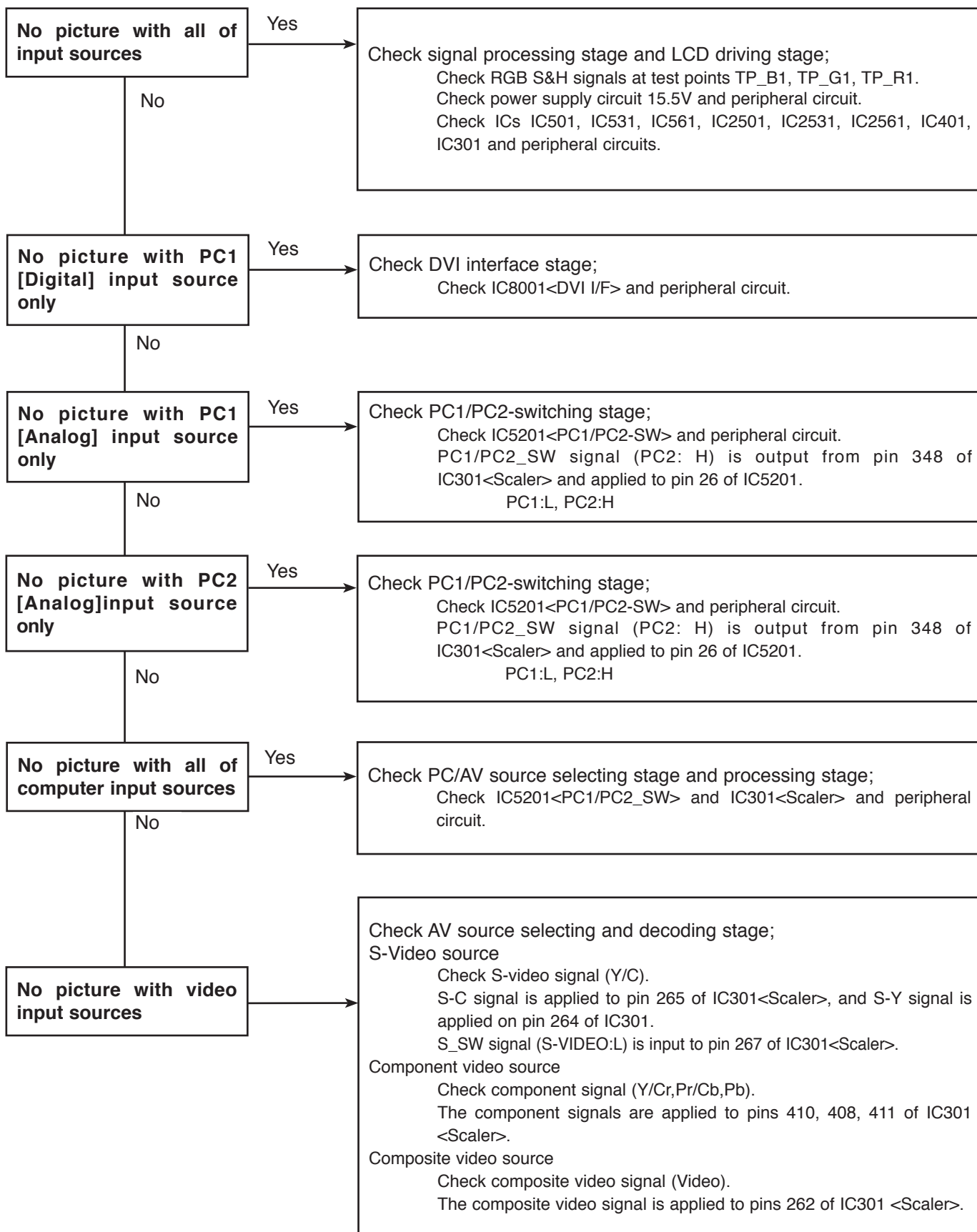
Lamp Cover switch

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



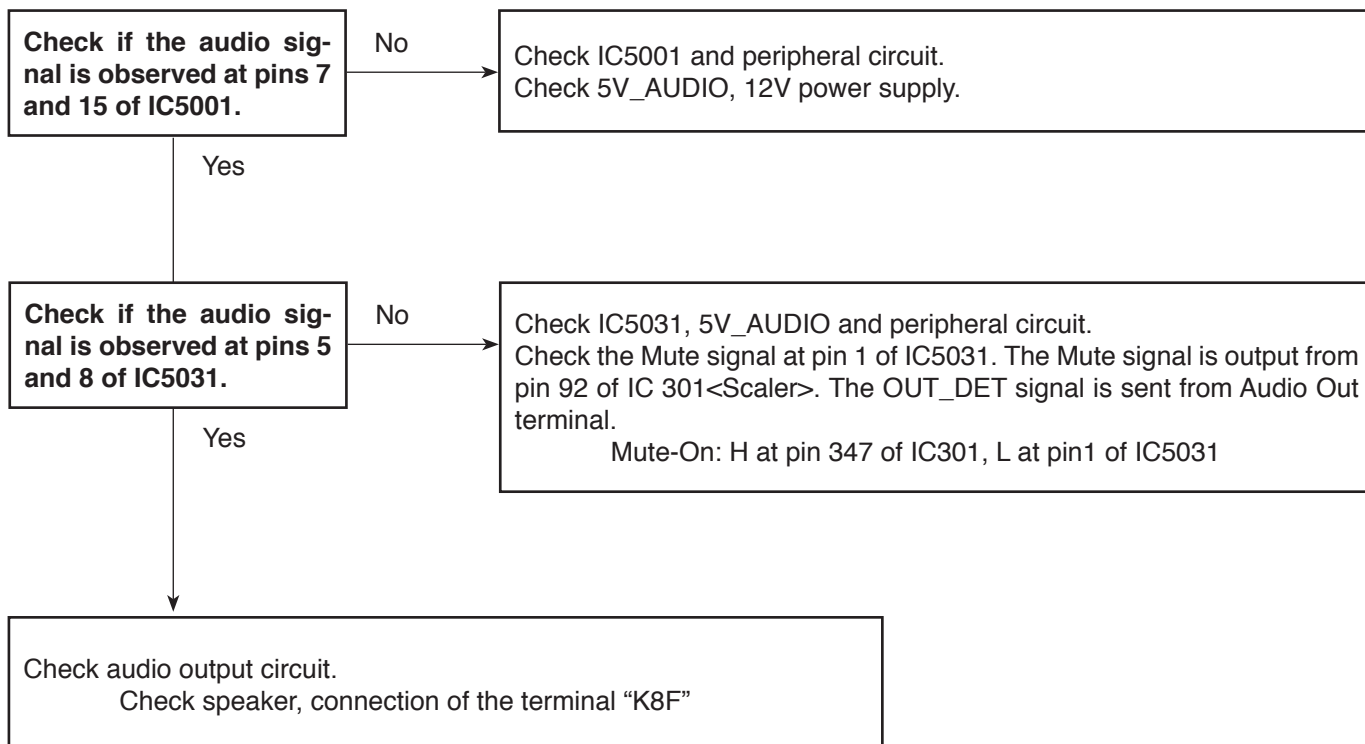
No Picture

Check following steps.



No Sound

Check following steps.



Control Port Functions

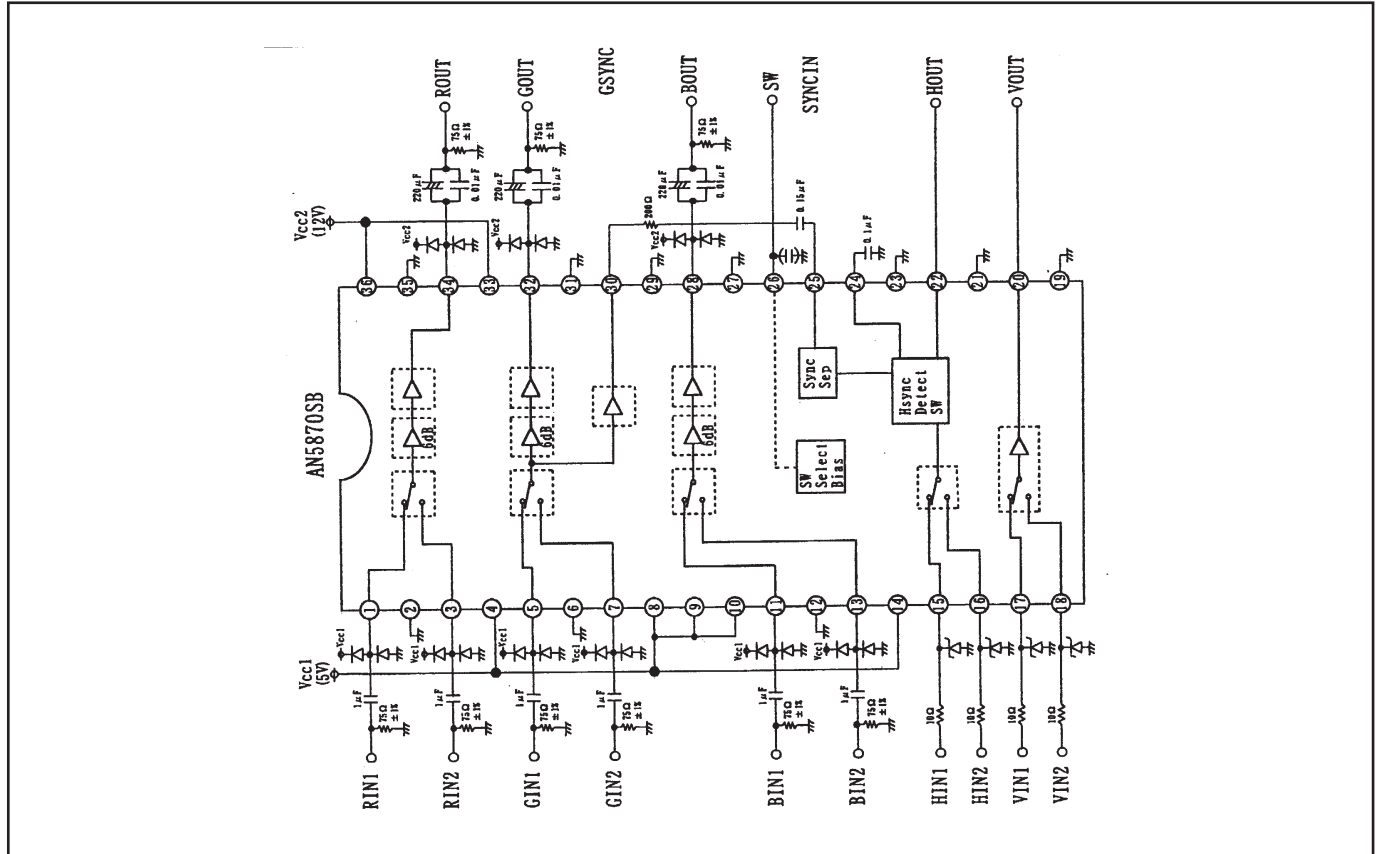
Scaler I/O Port Functions (PW190)

PIN NO.	PORT NO.	PORT NAME	FUNCTION	SIGNAL NAME	DESCRIPTION	I/O
1	A1	PORTD7	DDC_SW3	DDC_SW3	DDC_SW3	O
11	A11	PORTC5		ON_3.3V	3.3V Power Drive, Power On: H	O
101	B2	PORTD6	DDC_SW1	DDC_SW1	DDC_SW1	O
110	B11	PORTC6		ON_5VA	5VA Drive On/Off, On: H	O
111	B12	PORTC1		SCS	3-Wired Serial Control	O
124	B25	TXD_PW		TXD_PW	Serial Control TXD	O
201	C11	PORTC7		ON_150V	15V Power Driver, Power On: H	O
202	C12	PORTC2		SDATA_PW	3-Wired Serial Control Data	O
208	C18	TWOWSD2	2-Wire Serial Data 2	SDA2_5V	IIC Bus Control Data	O
211	C21	TWOWSC1	2-Wire Serial Clock 1	SCL	IIC Bus Control Clock	O
212	C22	TWOWSD0	2-Wire Serial Data 0	SDA	IIC Bus Control Data	O
28	C26	ADC1	ADC1	KEY1	Key Control Input	I
285	D12	PORTC3		MUTE	Sound Mute Drive, Mute On: H	O
288	D15	DHS	DHS	DHS	H-Sync. Output	O
290	D17	TWOWSC2	2-Wire Serial Clock 2	SCL2	IIC Bus Control Clock	O
293	D20	TWOWSC0	2-Wire Serial Clock 0	SCL0	IIC Bus Control Clock	O
294	D21	TWOWSD1	2-Wire Serial Data 1	SDA1	IIC Bus Control Data	O
296	D23	FAN_SW2		FAN_SW2	Fan Control Switch-2	O
215	D24	ADC0	ADC0	P_FAIL	Power Failure Signal Input, Failure:L	I
126	D25	ADC2	ADC2	KEY-2	Key Control Input	I
29	D26	ADC6	ADC6	LAMP Option	Lamp Option	I
362	E14	PORTC4		IRM_RST	L3E07110 Reset	O
363	E15	PORTC0		FAN_SW2	Fan Control Switch-2	O
368	E20	RXD_PW		RXD_PW	Serial Control RXD	I
370	E22	ADC5		P_FAIL_FAN	Power Failure Signal Input, Failure:L	I
216	E24	ADC3		SENSOR_T	Temperature	I
127	E25	ADC7	ADC7	SENSOR_X	Axis Acceleration Signal	I
30	E26	DAC1	DAC1	FAN_CON_B	Fan B Voltage Control	O
298	F23	ADC4	ADC4	BRAND Option	Option Switch BRAND	I
128	F25	DAC2	DAC2	FAN_CON_C	Fan C Voltage Control	O
92	K1	PORTB3		MUTE	Sound Mute Drive, Mute On: H	O
185	K2	PORTB4		BLAST_AC	Lamp Cotrol, Lamp On:H	O
347	K4	SIDEN		SIDEN	SIDEN for DVI	I
91	L1	PORTB5		READY_LED	READY LED Drive, On: H	O
184	L2	PORTB6		TEMP_LED	Temp Driver On: H	O
269	L3	PORTB7		LAMP REPLACE LED	LAMP REPLACE LED Drive, On: H	O
346	L4	PORTB4		PWR_LED	POWER LED Drive, On: H	O
90	M1	PORTA0		XSTDBYEN	for I/O Expander	O
183	M2	PORTA1		XRESET	for I/O Expander	O
268	M3	PORTB0		POWER_KEY	Power On Key, H:ON	I
345	M4	PORTB2		PC1/PC2_SW	PC1/PC2 Switch Output, PC1: H	O
89	N1	PORTA3		LAMPDC_ON	Power Control, Power On: H	O
192	N2	PORTA5		CABLE_SW	Cable Switch Output SCART: Hi	O
267	N3	PORTA6		S_SW	S-Video Input Switch	I
474	N6	PORTA2		WAKEUP	for I/O Expander	O

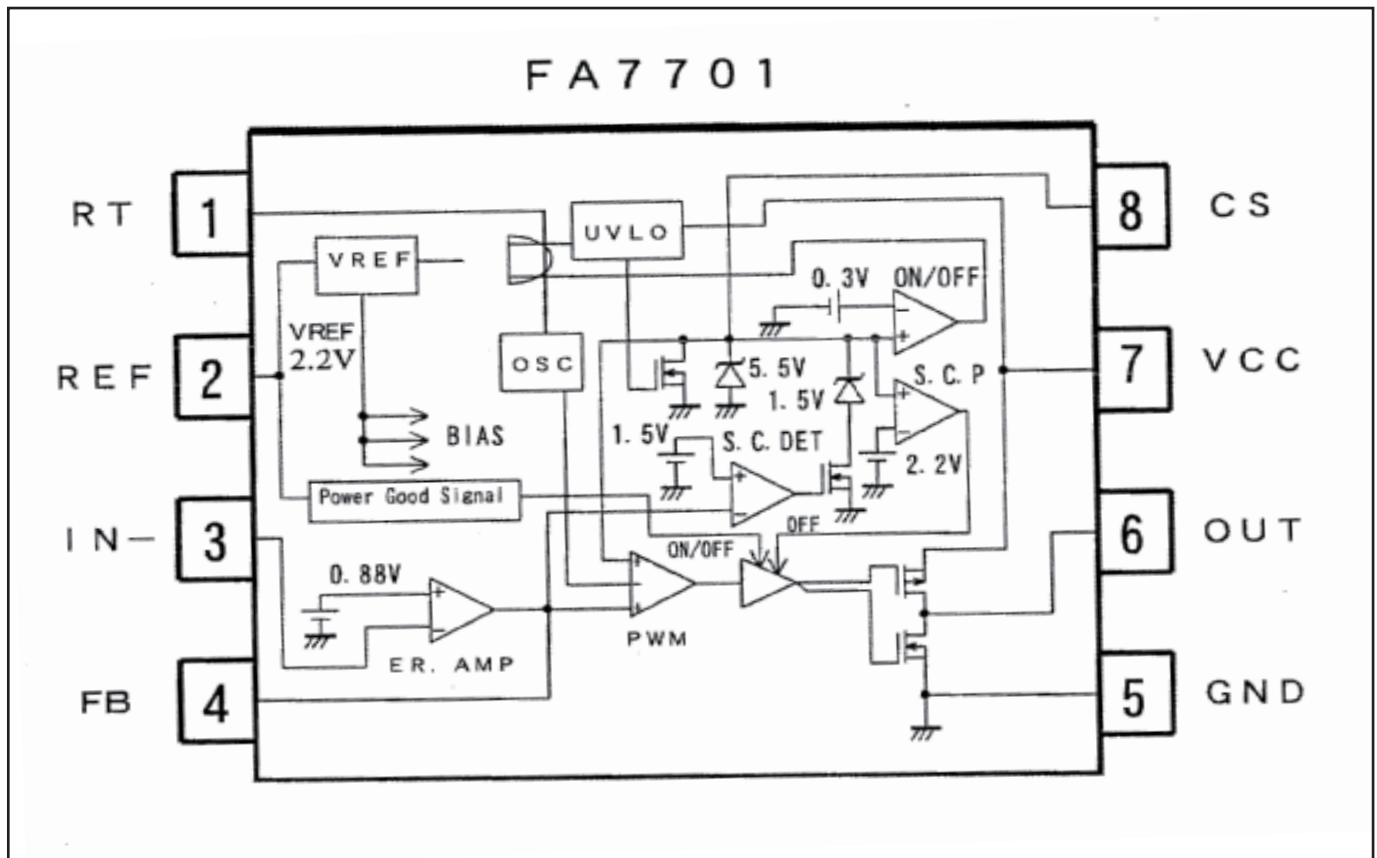
[illegible]

IC Block Diagrams

● AN5870 <Signal Switch, IC5201>

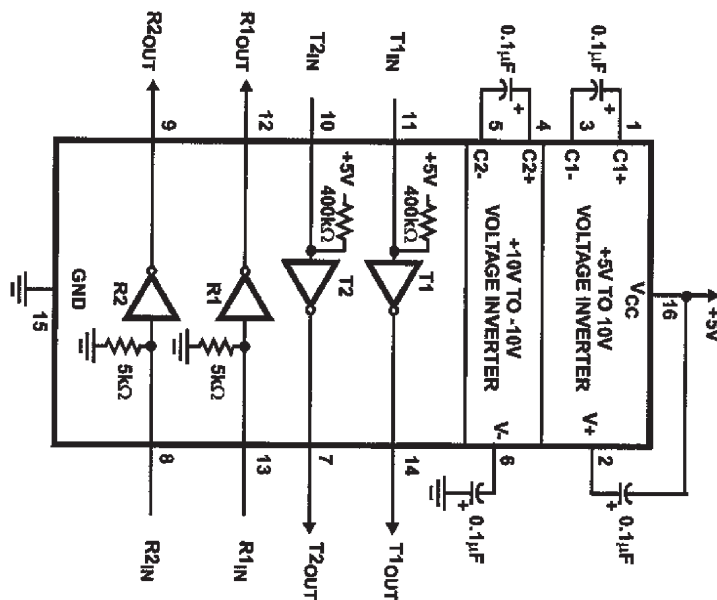


● FA7701 <DDC Control, IC5751>

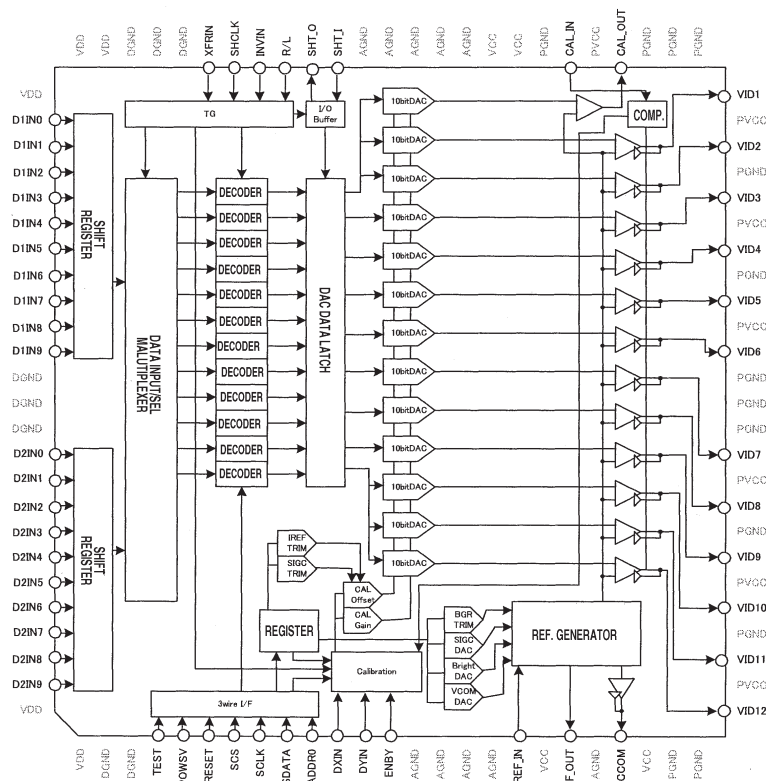




● HIN202EIB <RS-232C Driver, IC3801>

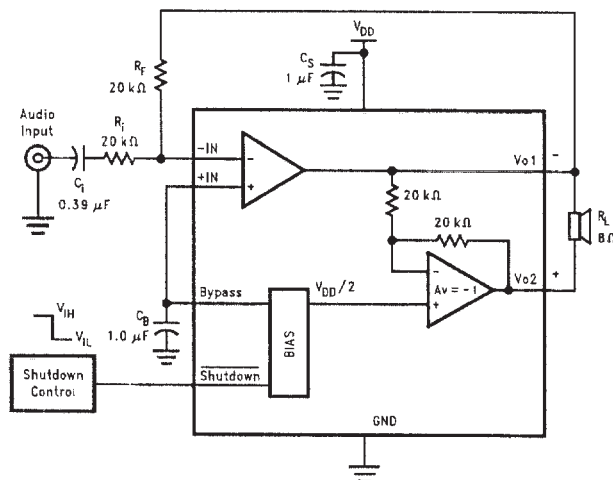


● L3E06150 <D/A, S/H-LCD Driver, IC501, IC531, IC561>

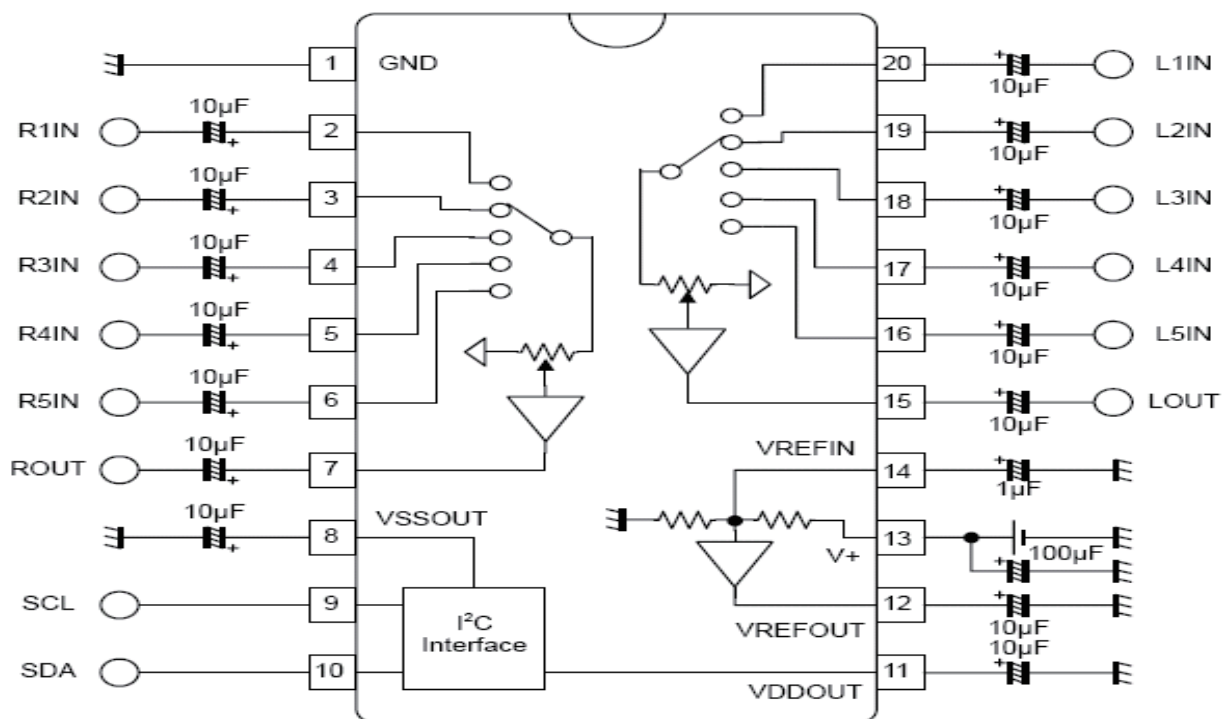




● LM4889 <Audio Output, IC5031>

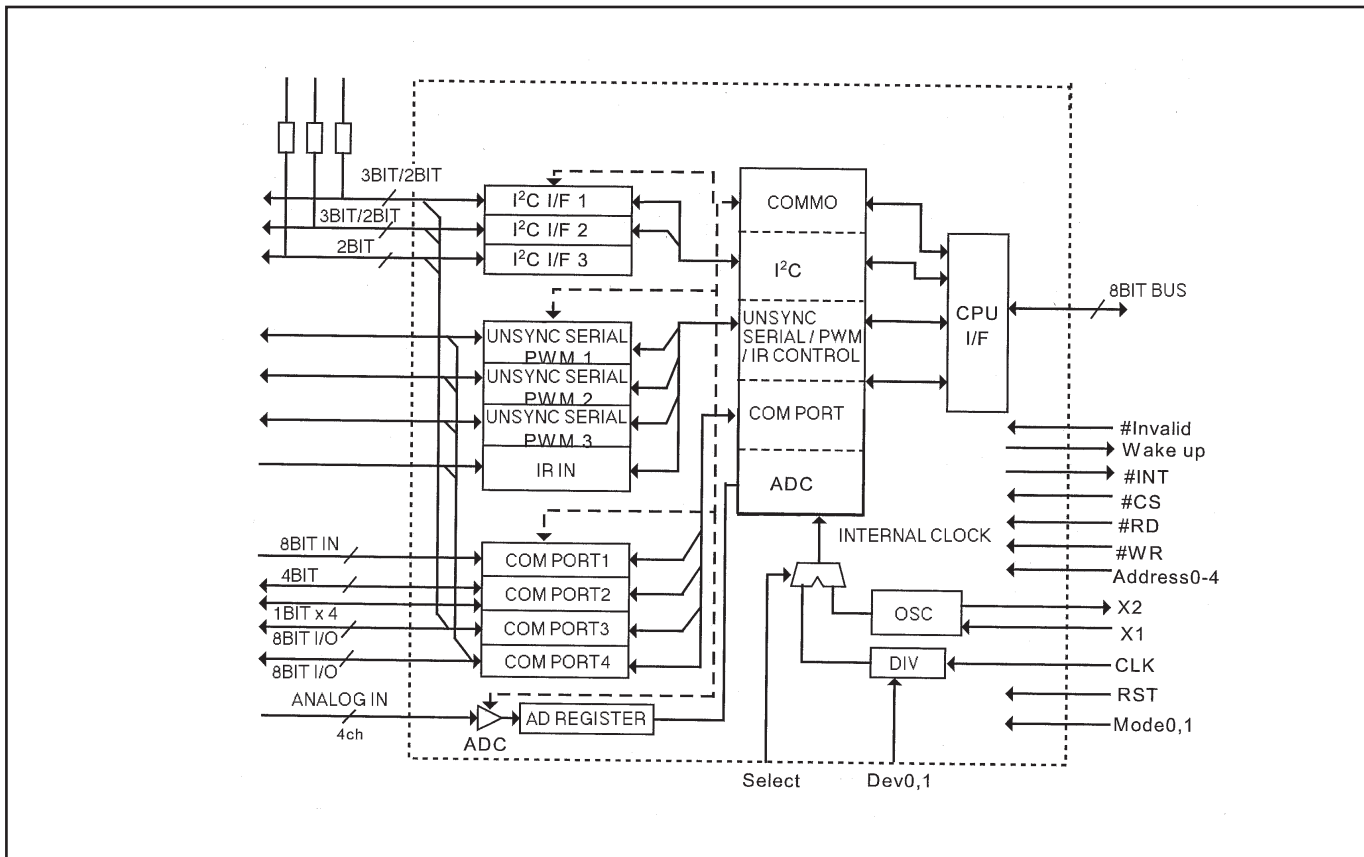


● NJW1156 <Audio Control, IC5001>





● TE7783 <Parallel I/O Expander, IC1802>

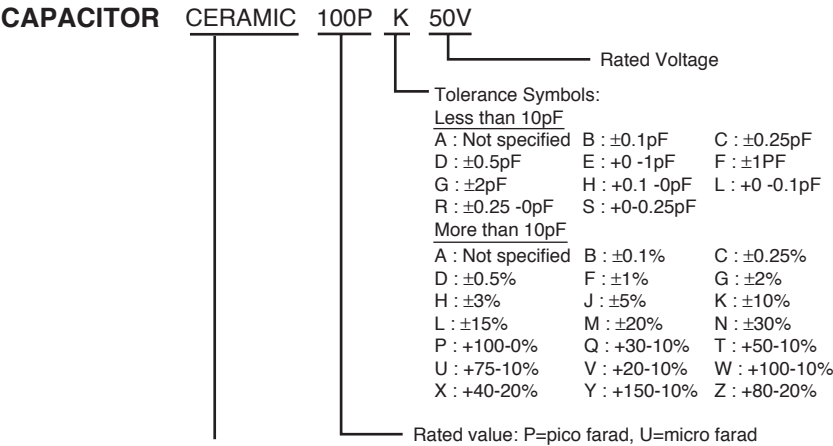


Electrical Parts List

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

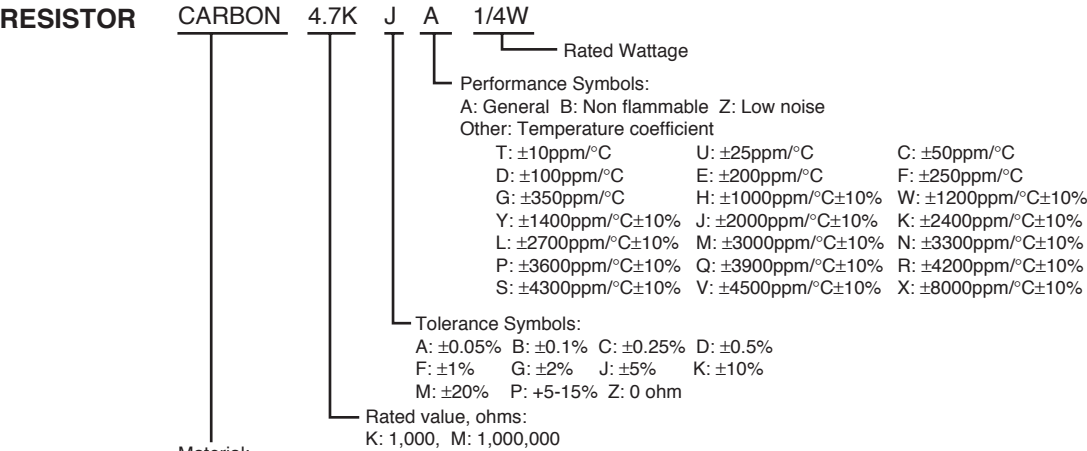
● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:



- 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% |

- 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



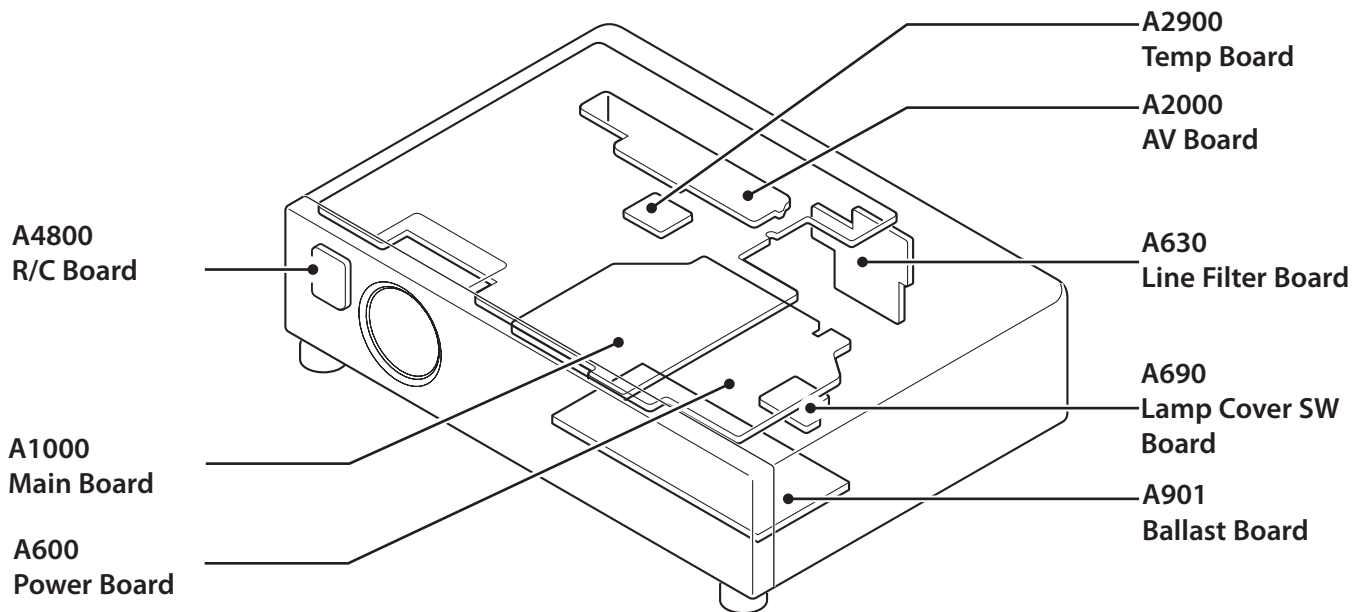
- Performance Symbols:
- A: General B: Non flammable Z: Low noise
- Other: Temperature coefficient
- | | | |
|--------------------|--------------------|--------------------|
| T: ±10ppm/°C | U: ±25ppm/°C | C: ±50ppm/°C |
| D: ±100ppm/°C | E: ±200ppm/°C | F: ±250ppm/°C |
| G: ±350ppm/°C | H: ±1000ppm/°C±10% | 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
 - RESISTOROther

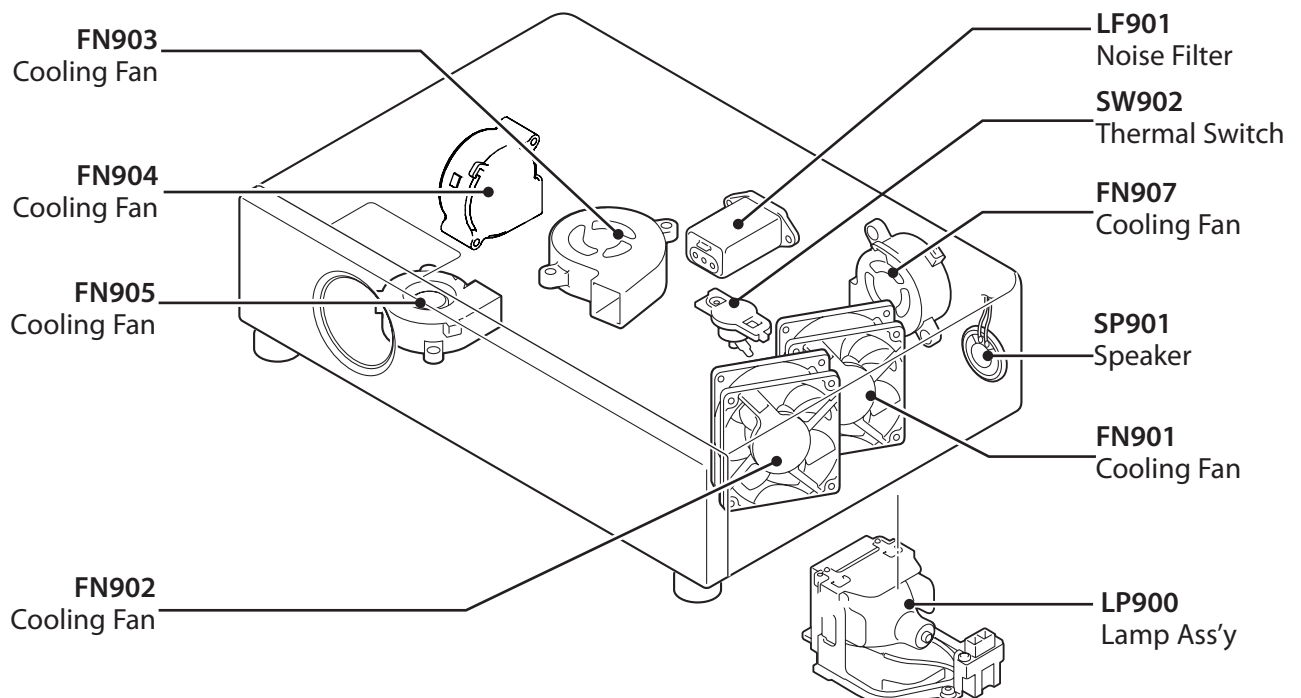
Electrical Parts List

Electrical Parts Location

● Assembled Boards



● Out Of Circuit Board



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

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Electrical Parts List

Key No. Part No. Description							Key No. Part No. Description						
C661	303	208	1415	TA-SOLID	1U M	25V	R681	301	150	5918	MT-GLAZE	10K JA	1/10W
	303	411	5712	TA-SOLID	1U M	25V	R682	301	256	6215	MT-GLAZE	270 JA	1/10W
C662	303	411	1823	ELECT	220U M	35V	R683	301	150	6212	MT-GLAZE	1K JA	1/10W
C663	303	342	3313	CERAMIC	0.1U K	25V	R684	301	150	5918	MT-GLAZE	10K JA	1/10W
C664	303	281	5218	CERAMIC	0.22U Z	16V	R686	301	162	3414	MT-GLAZE	39K JA	1/10W
C681	303	410	7509	ELECT	4700U M	25V	R687	301	265	2611	MT-GLAZE	5.1K FA	1/10W
C682	303	342	3313	CERAMIC	0.1U K	25V	R688	301	150	5918	MT-GLAZE	10K JA	1/10W
C683	303	445	3903	ELECT	3900U M	10V	R692	301	150	6212	MT-GLAZE	1K JA	1/10W
C684	303	342	3313	CERAMIC	0.1U K	25V	R693	301	150	5918	MT-GLAZE	10K JA	1/10W
C685	303	399	2126	ELECT	220U M	16V	R694	301	162	3711	MT-GLAZE	4.7K JA	1/10W
C686	303	348	5826	CERAMIC	0.47U K	10V	R699	301	238	4215	MT-GLAZE	1.5K JA	1/3W
C688	303	342	3313	CERAMIC	0.1U K	25V	VARIABLE RESISTOR						
C691	303	224	5015	CERAMIC	0.15U Z	16V	VR601	945	025	7415	VR,SEMI,1K	S	
C692	303	323	8818	CERAMIC	2.2U Z	16V	TRANSFORMER						
C693	304	073	4508	CERAMIC	2200P K	250V	T601	645	089	2561	INDUCTOR,700U		
RESISTOR							T651	945	085	7035	TRANS,POWER,PULSE		
R602	301	242	3914	MT-GLAZE	240K JA	1/2W	COIL						
R603	301	242	3914	MT-GLAZE	240K JA	1/2W	L603	945	081	4878	LINE FILTER		
R604	301	258	8217	MT-GLAZE	680 JA	1/3W	L611	645	089	2677	FILTER,EMI 1500PF		
R606	302	080	8809	MT-GLAZE	680 KA	1W	L614	645	089	2677	FILTER,EMI 1500PF		
R612	301	256	2613	MT-GLAZE	2.4K JA	1/10W	L616	645	089	2677	FILTER,EMI 1500PF		
R613	402	109	8206	RESISTER	0.15 JB	5W	DIODE						
R614	402	109	8206	RESISTER	0.15 JB	5W	D601	307	247	8827	DIODE RF101L2S		
R615	301	255	6513	MT-GLAZE	100 JA	1/10W	D602	307	247	8827	DIODE RF101L2S		
R618	301	162	3711	MT-GLAZE	4.7K JA	1/10W	D603	307	164	4015	DIODE RB160L-40-TE25		
R619	301	150	6014	MT-GLAZE	0.000 ZA	1/10W		307	149	6327	DIODE SFPB-54V		
R620	301	255	6513	MT-GLAZE	100 JA	1/10W	D604	307	225	4401	DIODE FMX-G26S		
R621	301	255	8715	MT-GLAZE	22 JA	1/10W	D605	307	223	0811	ZENER DIODE 02DZ22Y(TPH3)		
R622	301	264	9918	MT-GLAZE	36K FA	1/10W		307	221	7218	ZENER DIODE UDZS-FE-1722B		
R624	301	162	2714	MT-GLAZE	180 JA	1/10W	D606	307	163	0414	DIODE 1SS352- (TPH3)		
R625	301	265	0914	MT-GLAZE	4.7 JA	1/10W		307	149	0810	DIODE 1SS355-TE-17		
R626	301	152	3219	MT-GLAZE	330 JA	1/10W		408	062	7201	DIODE 1SS35		
R627	301	265	0914	MT-GLAZE	4.7 JA	1/10W	D607	307	163	0414	DIODE 1SS352- (TPH3)		
R628	301	255	6513	MT-GLAZE	100 JA	1/10W		307	149	0810	DIODE 1SS355-TE-17		
R630	301	256	7519	MT-GLAZE	390 JA	1/10W		408	062	7201	DIODE 1SS35		
R631	301	150	5918	MT-GLAZE	10K JA	1/10W	D608	307	163	0414	DIODE 1SS352- (TPH3)		
R632	301	150	6410	MT-GLAZE	4.3K JA	1/10W		307	149	0810	DIODE 1SS355-TE-17		
R633	301	162	3810	MT-GLAZE	470K JA	1/10W		408	062	7201	DIODE 1SS35		
R634	301	256	5812	MT-GLAZE	270K JA	1/10W	D609	307	163	0414	DIODE 1SS352- (TPH3)		
R635	301	255	6513	MT-GLAZE	100 JA	1/10W		307	149	0810	DIODE 1SS355-TE-17		
R636	301	152	3110	MT-GLAZE	620 JA	1/10W		408	062	7201	DIODE 1SS35		
R637	301	264	2810	MT-GLAZE	1.2K FA	1/10W	D610	307	163	0414	DIODE 1SS352- (TPH3)		
R638	301	259	9015	MT-GLAZE	150K FA	1/2W		307	149	0810	DIODE 1SS355-TE-17		
R639	301	259	9015	MT-GLAZE	150K FA	1/2W		408	062	7201	DIODE 1SS35		
R641	301	259	9015	MT-GLAZE	150K FA	1/2W	D615	307	164	4015	DIODE RB160L-40-TE25		
R642	301	259	9015	MT-GLAZE	150K FA	1/2W		307	149	6327	DIODE SFPB-54V		
R647	301	256	6611	MT-GLAZE	68K JA	1/10W		307	163	0414	DIODE 1SS352- (TPH3)		
R648	301	162	2417	MT-GLAZE	1.2K JA	1/10W		307	149	0810	DIODE 1SS355-TE-17		
R649	301	255	9514	MT-GLAZE	220K JA	1/10W		408	062	7201	DIODE 1SS35		
R650	301	255	8517	MT-GLAZE	9.1K JA	1/10W	D651	307	247	8827	DIODE RF101L2S		
R651	301	237	0010	MT-GLAZE	47K JA	1W	D652	407	256	3213	DIODE CRF03 (TE85L)		
R652	301	237	0010	MT-GLAZE	47K JA	1W	D653	307	223	0514	ZENER DIODE 02DZ12Y(TPH3)		
R653	301	237	0010	MT-GLAZE	47K JA	1W		307	221	7119	ZENER DIODE UDZS-FE-1712B		
R654	301	237	0010	MT-GLAZE	47K JA	1W	D654	307	163	0414	DIODE 1SS352- (TPH3)		
R655	301	162	4015	MT-GLAZE	560 JA	1/10W		307	149	0810	DIODE 1SS355-TE-17		
R656	301	237	0010	MT-GLAZE	47K JA	1W		408	062	7201	DIODE 1SS35		
R657	301	237	0010	MT-GLAZE	47K JA	1W	D681	307	202	9801	DIODE FMB-26L		
R658	302	081	2905	FUSIBLE RES	22 JH	1/2W		307	253	7504	DIODE RB085T-60		
R659	301	238	4512	MT-GLAZE	47 JA	1/3W	D682	307	202	9801	DIODE FMB-26L		
R660	302	081	2905	FUSIBLE RES	22 JH	1/2W		307	253	7504	DIODE RB085T-60		
△R661	324	006	1305	FUSE	250V	2.5A	D683	307	247	8827	DIODE RF101L2S		
R671	301	150	6212	MT-GLAZE	1K JA	1/10W	D686	307	223	1115	ZENER DIODE 02DZ6.2Y(TPH3)		
R672	301	257	7419	MT-GLAZE	120 JA	1/3W		307	209	1214	ZD UDZS-FE-176.2B		
R673	301	162	3711	MT-GLAZE	4.7K JA	1/10W	D687	307	210	5416	DIODE RB551V-30-TE-17		
R674	301	256	2613	MT-GLAZE	2.4K JA	1/10W	DB601	307	143	6006	DIODE RBV-1506		
R679	301	264	6511	MT-GLAZE	2.2K FA	1/10W							

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
	308 045 4909	DIODE RBV-1506 LF-B		303 276 3113	CERAMIC 33P J 50V
DS601	307 219 0808	THYRISTOR TF861S	C4833	303 453 8917	CERAMIC 0.1U K 16V
MISCELLANEOUS				303 453 8610	CERAMIC 0.1U K 16V
FB601	910 244 3975	CORE		303 409 3426	CERAMIC 0.1U K 16V
FB602	910 244 3975	CORE	C4834	303 358 3215	CERAMIC 10U K 6.3V
△PC601	307 223 7315	PC TLP421F(D4-GB-TP4)		303 370 0018	CERAMIC 10U K 6.3V
	307 223 8312	PC TLP421F(D4-GR-TP4)		303 368 7319	CERAMIC 10U K 6.3V
△PC602	307 223 7315	PC TLP421F(D4-GB-TP4)	RESISTOR		
	307 223 8312	PC TLP421F(D4-GR-TP4)	R4831	301 225 8110	MT-GLAZE 10 JA 1/16W
PTH601	308 037 5600	THERMISTOR NTPDB8R0LDHB0	R4832	301 225 8110	MT-GLAZE 10 JA 1/16W
PTH652	308 061 3900	TH PRF18BC471QB1RB	R4833	301 224 9019	MT-GLAZE 10K JA 1/16W
655 001 9752 ASSY,PWB,LINE FILTER KB3AC			R4835	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
CAPACITOR			655 002 3544 ASSY,PWB,MAIN KG3BC		
C601	304 079 5608	MT-POLYEST 0.47U M 275V	TRANSISTOR		
	304 094 2002	MT-POLYEST 0.47U K 275V	Q1031	305 217 4913	TR RN1111 TE85L
C602	404 113 2904	MT-POLYEST 0.33U K 275V	Q1032	305 217 4913	TR RN1111 TE85L
RESISTOR			Q1033	305 217 4913	TR RN1111 TE85L
R600	301 238 1016	MT-GLAZE 120K JA 1/2W	Q1034	305 217 4913	TR RN1111 TE85L
R601	301 238 1016	MT-GLAZE 120K JA 1/2W	Q1036	305 217 4913	TR RN1111 TE85L
VARIABLE RESISTOR			Q1037	305 217 4913	TR RN1111 TE85L
VA601	308 061 5607	VARISTOR ENE471D-14A-S6	Q1061	305 014 4512	TR 2SC2412K T146 R
COIL				305 014 4611	TR 2SC2412K T146 S
L601	945 050 2232	LINE FILTER		305 015 8727	TR 2SC2812-L6-TB
MISCELLANEOUS				305 015 8925	TR 2SC2812-L7-TB
F601	323 025 1204	FUSE 250V 8A		305 163 1615	TR 2SC2812N-L6-TB0
655 002 1717 ASSY,PWB,R/CS KG3AC				305 173 9816	TR 2SC3928A1R
CAPACITOR				305 173 9915	TR 2SC3928A1S
C2901	403 455 1012	CERAMIC 1U K 10V	Q2001	305 014 4512	TR 2SC2412K T146 R
	303 433 1112	CERAMIC 1U K 10V		305 014 4611	TR 2SC2412K T146 S
C2902	303 453 8719	CERAMIC 470P K 50V		305 015 8727	TR 2SC2812-L6-TB
	303 453 9211	CERAMIC 470P K 50V		305 015 8925	TR 2SC2812-L7-TB
	303 282 5118	CERAMIC 470P K 50V		305 163 1615	TR 2SC2812N-L6-TB0
C2903	303 384 4712	TA-SOLID 47U M 6.3V		305 173 9816	TR 2SC3928A1R
	303 449 1212	POS-SOLID 47U M 6.3V		305 173 9915	TR 2SC3928A1S
RESISTOR			Q2021	305 014 4512	TR 2SC2412K T146 R
R2901	301 225 1814	MT-GLAZE 47 JA 1/16W		305 014 4611	TR 2SC2412K T146 S
R2902	301 224 8814	MT-GLAZE 100 JA 1/16W		305 015 8727	TR 2SC2812-L6-TB
DIODE				305 015 8925	TR 2SC2812-L7-TB
D2901	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)		305 163 1615	TR 2SC2812N-L6-TB0
MISCELLANEOUS				305 173 9816	TR 2SC3928A1R
A2901	945 084 1997	UNIT,REMOCON RECEIVER		305 173 9915	TR 2SC3928A1S
655 002 1724 ASSY,PWB,TEMP. KG3AC			Q2071	305 014 4512	TR 2SC2412K T146 R
CAPACITOR				305 014 4611	TR 2SC2412K T146 S
C4831	303 453 7019	CERAMIC 33P J 50V		305 015 8727	TR 2SC2812-L6-TB
	303 453 9617	CERAMIC 33P J 50V		305 015 8925	TR 2SC2812-L7-TB
	303 276 3113	CERAMIC 33P J 50V		305 163 1615	TR 2SC2812N-L6-TB0
C4832	303 453 7019	CERAMIC 33P J 50V		305 173 9816	TR 2SC3928A1R
	303 453 9617	CERAMIC 33P J 50V		305 173 9915	TR 2SC3928A1S
			Q331	305 191 5814	TR 3LN01C-TB-E
			Q3582	306 017 8405	TR RTQ025P02-TR
			Q3583	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

Electrical Parts List

Key No. Part No. Description				Key No. Part No. Description			
Q3601	305 173 9915	TR	2SC3928A1S	Q5064	305 015 8727	TR	2SC2812-L6-TB
	305 014 4512	TR	2SC2412K T146 R		305 015 8925	TR	2SC2812-L7-TB
	305 014 4611	TR	2SC2412K T146 S		305 163 1615	TR	2SC2812N-L6-TB0
	305 015 8727	TR	2SC2812-L6-TB		305 173 9816	TR	2SC3928A1R
	305 015 8925	TR	2SC2812-L7-TB		305 173 9915	TR	2SC3928A1S
	305 163 1615	TR	2SC2812N-L6-TB0		305 014 4512	TR	2SC2412K T146 R
Q3602	305 173 9816	TR	2SC3928A1R		305 014 4611	TR	2SC2412K T146 S
	305 173 9915	TR	2SC3928A1S		305 015 8727	TR	2SC2812-L6-TB
	305 014 4512	TR	2SC2412K T146 R		305 015 8925	TR	2SC2812-L7-TB
	305 014 4611	TR	2SC2412K T146 S		305 163 1615	TR	2SC2812N-L6-TB0
	305 015 8727	TR	2SC2812-L6-TB		305 173 9816	TR	2SC3928A1R
	305 015 8925	TR	2SC2812-L7-TB	Q5201	305 173 9915	TR	2SC3928A1S
Q3801	305 163 1615	TR	2SC2812N-L6-TB0		305 014 4512	TR	2SC2412K T146 R
	305 173 9816	TR	2SC3928A1R		305 014 4611	TR	2SC2412K T146 S
	305 173 9915	TR	2SC3928A1S		305 015 8727	TR	2SC2812-L6-TB
Q5031	305 191 5814	TR	3LN01C-TB-E		305 015 8925	TR	2SC2812-L7-TB
	305 014 4512	TR	2SC2412K T146 R		305 163 1615	TR	2SC2812N-L6-TB0
	305 014 4611	TR	2SC2412K T146 S	Q5202	305 173 9816	TR	2SC3928A1R
	305 015 8727	TR	2SC2812-L6-TB		305 173 9915	TR	2SC3928A1S
	305 015 8925	TR	2SC2812-L7-TB		305 014 4512	TR	2SC2412K T146 R
	305 163 1615	TR	2SC2812N-L6-TB0		305 014 4611	TR	2SC2412K T146 S
Q5032	305 173 9816	TR	2SC3928A1R		305 015 8727	TR	2SC2812-L6-TB
	305 173 9915	TR	2SC3928A1S		305 015 8925	TR	2SC2812-L7-TB
	305 014 4512	TR	2SC2412K T146 R	Q5301	305 163 1615	TR	2SC2812N-L6-TB0
	305 014 4611	TR	2SC2412K T146 S		305 173 9816	TR	2SC3928A1R
	305 015 8727	TR	2SC2812-L6-TB		305 173 9915	TR	2SC3928A1S
	305 015 8925	TR	2SC2812-L7-TB		305 014 4512	TR	2SC2412K T146 R
Q5033	305 163 1615	TR	2SC2812N-L6-TB0		305 014 4611	TR	2SC2412K T146 S
	305 173 9816	TR	2SC3928A1R	Q5302	305 015 8727	TR	2SC2812-L6-TB
	305 173 9915	TR	2SC3928A1S		305 015 8925	TR	2SC2812-L7-TB
	305 014 4512	TR	2SC2412K T146 R		305 163 1615	TR	2SC2812N-L6-TB0
	305 014 4611	TR	2SC2412K T146 S		305 173 9816	TR	2SC3928A1R
	305 015 8727	TR	2SC2812-L6-TB		305 173 9915	TR	2SC3928A1S
Q5034	305 015 8925	TR	2SC2812-L7-TB	Q5303	305 134 5928	TR	2SA1037AK-T146-R
	305 163 1615	TR	2SC2812N-L6-TB0		305 147 2218	TR	2SA1037AK-S-T146
	305 173 9816	TR	2SC3928A1R		305 002 0311	TR	2SA1037K T146 R
	305 173 9915	TR	2SC3928A1S		305 002 0410	TR	2SA1037K T146 S
	305 014 4512	TR	2SC2412K T146 R		305 002 6729	TR	2SA1179-M6-TB
	305 014 4611	TR	2SC2412K T146 S	Q5304	305 002 6927	TR	2SA1179-M7-TB
Q5036	305 015 8727	TR	2SC2812-L6-TB		305 163 1516	TR	2SA1179N-M6-TB
	305 015 8925	TR	2SC2812-L7-TB		305 173 9618	TR	2SA1235A1E
	305 163 1615	TR	2SC2812N-L6-TB0		305 173 9717	TR	2SA1235A1F
	305 173 9816	TR	2SC3928A1R		305 134 5928	TR	2SA1037AK-T146-R
	305 173 9915	TR	2SC3928A1S		305 147 2218	TR	2SA1037AK-S-T146
	305 014 4512	TR	2SC2412K T146 R	Q5331	305 002 0311	TR	2SA1037K T146 R
Q5061	305 014 4611	TR	2SC2412K T146 S		305 002 0410	TR	2SA1037K T146 S
	305 015 8727	TR	2SC2812-L6-TB		305 002 6729	TR	2SA1179-M6-TB
	305 015 8925	TR	2SC2812-L7-TB		305 002 6927	TR	2SA1179-M7-TB
	305 163 1615	TR	2SC2812N-L6-TB0		305 163 1516	TR	2SA1179N-M6-TB
	305 173 9816	TR	2SC3928A1R		305 173 9618	TR	2SA1235A1E
	305 173 9915	TR	2SC3928A1S	Q5332	305 173 9717	TR	2SA1235A1F
Q5062	305 014 4512	TR	2SC2412K T146 R		305 014 4512	TR	2SC2412K T146 R
	305 014 4611	TR	2SC2412K T146 S		305 014 4611	TR	2SC2412K T146 S
	305 015 8727	TR	2SC2812-L6-TB		305 015 8727	TR	2SC2812-L6-TB
	305 015 8925	TR	2SC2812-L7-TB		305 015 8925	TR	2SC2812-L7-TB
	305 163 1615	TR	2SC2812N-L6-TB0		305 163 1615	TR	2SC2812N-L6-TB0
	305 173 9816	TR	2SC3928A1R	Q5332	305 173 9816	TR	2SC3928A1R
Q5063	305 173 9915	TR	2SC3928A1S		305 173 9915	TR	2SC3928A1S
	305 014 4512	TR	2SC2412K T146 R		305 014 4512	TR	2SC2412K T146 R
	305 014 4611	TR	2SC2412K T146 S		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

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
	305 002 0311	TR 2SA1037K T146 R		305 002 6729	TR 2SA1179-M6-TB
	305 002 0410	TR 2SA1037K T146 S		305 002 6927	TR 2SA1179-M7-TB
	305 002 6729	TR 2SA1179-M6-TB		305 163 1516	TR 2SA1179N-M6-TB
	305 002 6927	TR 2SA1179-M7-TB		305 173 9618	TR 2SA1235A1E
	305 163 1516	TR 2SA1179N-M6-TB		305 173 9717	TR 2SA1235A1F
	305 173 9618	TR 2SA1235A1E	Q6847	305 014 4512	TR 2SC2412K T146 R
	305 173 9717	TR 2SA1235A1F		305 014 4611	TR 2SC2412K T146 S
Q5333	305 134 5928	TR 2SA1037AK-T146-R		305 015 8727	TR 2SC2812-L6-TB
	305 147 2218	TR 2SA1037AK-S-T146		305 015 8925	TR 2SC2812-L7-TB
	305 002 0311	TR 2SA1037K T146 R		305 163 1615	TR 2SC2812N-L6-TB0
	305 002 0410	TR 2SA1037K T146 S		305 173 9816	TR 2SC3928A1R
	305 002 6729	TR 2SA1179-M6-TB		305 173 9915	TR 2SC3928A1S
	305 002 6927	TR 2SA1179-M7-TB	Q7801	305 014 4512	TR 2SC2412K T146 R
	305 163 1516	TR 2SA1179N-M6-TB		305 014 4611	TR 2SC2412K T146 S
	305 173 9618	TR 2SA1235A1E		305 015 8727	TR 2SC2812-L6-TB
	305 173 9717	TR 2SA1235A1F		305 015 8925	TR 2SC2812-L7-TB
Q5334	305 014 4512	TR 2SC2412K T146 R		305 163 1615	TR 2SC2812N-L6-TB0
	305 014 4611	TR 2SC2412K T146 S		305 173 9816	TR 2SC3928A1R
	305 015 8727	TR 2SC2812-L6-TB		305 173 9915	TR 2SC3928A1S
	305 015 8925	TR 2SC2812-L7-TB	Q7804	305 014 4512	TR 2SC2412K T146 R
	305 163 1615	TR 2SC2812N-L6-TB0		305 014 4611	TR 2SC2412K T146 S
	305 173 9816	TR 2SC3928A1R		305 015 8727	TR 2SC2812-L6-TB
	305 173 9915	TR 2SC3928A1S		305 015 8925	TR 2SC2812-L7-TB
Q5336	305 134 5928	TR 2SA1037AK-T146-R		305 163 1615	TR 2SC2812N-L6-TB0
	305 147 2218	TR 2SA1037AK-S-T146		305 173 9816	TR 2SC3928A1R
	305 002 0311	TR 2SA1037K T146 R		305 173 9915	TR 2SC3928A1S
	305 002 0410	TR 2SA1037K T146 S	Q7811	305 014 4512	TR 2SC2412K T146 R
	305 002 6729	TR 2SA1179-M6-TB		305 014 4611	TR 2SC2412K T146 S
	305 002 6927	TR 2SA1179-M7-TB		305 015 8727	TR 2SC2812-L6-TB
	305 163 1516	TR 2SA1179N-M6-TB		305 015 8925	TR 2SC2812-L7-TB
	305 173 9618	TR 2SA1235A1E		305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9717	TR 2SA1235A1F		305 173 9816	TR 2SC3928A1R
Q5821	306 017 8405	TR RTQ025P02-TR		305 173 9915	TR 2SC3928A1S
Q5841	306 017 8405	TR RTQ025P02-TR	Q7812	305 217 8515	TR RSQ025P03-TR
Q5861	306 017 8405	TR RTQ025P02-TR	Q7813	305 139 7719	TR IMZ1A-T108
Q6841	305 014 4512	TR 2SC2412K T146 R	Q7841	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S		305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB		305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB		305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0		305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R		305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S		305 173 9915	TR 2SC3928A1S
Q6842	305 014 4512	TR 2SC2412K T146 R	Q7842	305 217 8515	TR RSQ025P03-TR
	305 014 4611	TR 2SC2412K T146 S	Q7844	305 139 7719	TR IMZ1A-T108
	305 015 8727	TR 2SC2812-L6-TB	Q7862	305 217 8515	TR RSQ025P03-TR
	305 015 8925	TR 2SC2812-L7-TB	Q7864	305 139 7719	TR IMZ1A-T108
	305 163 1615	TR 2SC2812N-L6-TB0	Q8112	305 014 4512	TR 2SC2412K T146 R
	305 173 9816	TR 2SC3928A1R		305 014 4611	TR 2SC2412K T146 S
	305 173 9915	TR 2SC3928A1S		305 015 8727	TR 2SC2812-L6-TB
Q6843	305 014 4512	TR 2SC2412K T146 R		305 015 8925	TR 2SC2812-L7-TB
	305 014 4611	TR 2SC2412K T146 S		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8727	TR 2SC2812-L6-TB		305 173 9816	TR 2SC3928A1R
	305 015 8925	TR 2SC2812-L7-TB		305 173 9915	TR 2SC3928A1S
	305 163 1615	TR 2SC2812N-L6-TB0			
	305 173 9816	TR 2SC3928A1R			
	305 173 9915	TR 2SC3928A1S			
Q6844	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			
Q6846	305 134 5928	TR 2SA1037AK-T146-R			
	305 147 2218	TR 2SA1037AK-S-T146			
	305 002 0311	TR 2SA1037K T146 R			
	305 002 0410	TR 2SA1037K T146 S			

INTEGRATED CIRCUIT

IC1041	310 517 6809	IC TC74LVX4053FT
IC1051	309 462 0327	IC 24LC21AT/SN
IC1301	310 616 3402	IC PST413A300NR
	410 647 7902	IC MCP103T-300
IC1306	309 559 9018	IC AMS1117-3.3
IC1351	310 479 4004	IC TC7WBD125AFK
IC1391	310 538 4907	IC 24LC64T-I/SNG
IC301	309 670 8419	IC PW190-10L
IC3801	309 652 0714	IC HIN202EIBNZ-T
IC3851	309 644 3310	IC MXA2500EL
IC4001	409 677 4619	IC EL5308IUZ

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
IC4011	310 348 7501	IC TC7WT241FU(TE12L)		303 409 3426	CERAMIC 0.1U K 16V
IC4891	309 404 7213	IC TC7SET00FU-(TE85L)	C2013	403 457 2512	CERAMIC 0.47U K 10V
IC5001	409 683 5716	IC NJW1156AV		303 376 6311	CERAMIC 0.47U K 10V
IC5031	309 594 1916	IC LM4889MM	C2021	303 358 3215	CERAMIC 10U K 6.3V
IC5081	309 578 6210	IC PQ1M505M2SPQ		303 368 7319	CERAMIC 10U K 6.3V
IC5201	309 530 7217	IC AN5870SB-E1V	C2022	303 453 8917	CERAMIC 0.1U K 16V
IC5302	309 439 8919	IC TC7WH125FU		303 453 8610	CERAMIC 0.1U K 16V
IC5461	309 608 9112	IC BAJ2CC0WFP		303 409 3426	CERAMIC 0.1U K 16V
IC5601	309 578 6210	IC PQ1M505M2SPQ	C2023	403 457 2512	CERAMIC 0.47U K 10V
IC5621	409 687 2018	IC BD10KA5WFP-E2		303 376 6311	CERAMIC 0.47U K 10V
IC5701	309 461 7822	IC PQ20WZ11	C2071	303 453 8917	CERAMIC 0.1U K 16V
IC5801	309 567 3213	IC FA7711V-TE1		303 453 8610	CERAMIC 0.1U K 16V
IC7811	309 675 1316	IC FA7703V-H1		303 409 3426	CERAMIC 0.1U K 16V
IC7841	309 531 6229	IC FA7701V-TE1	C2072	303 372 7510	CERAMIC 2.2U K 6.3V
IC801	410 644 1507	IC S29GL032A90TFIR30KB3AC	C2073	303 453 8917	CERAMIC 0.1U K 16V
IC8101	309 675 3815	IC 24LCS22AT-I/SN		303 453 8610	CERAMIC 0.1U K 16V
IC8131	310 517 6809	IC TC74LVX4053FT		303 409 3426	CERAMIC 0.1U K 16V
IC891	310 337 0605	IC HD74LVC14T	C2504	303 453 8917	CERAMIC 0.1U K 16V
IC9882	309 464 1411	IC TC74ACT14FT		303 453 8610	CERAMIC 0.1U K 16V
IC9883	309 487 5727	IC TC7SZ125FU		303 409 3426	CERAMIC 0.1U K 16V
CAPACITOR			C2505	303 376 3112	ELECT 100U M 25V
C1038	303 453 8917	CERAMIC 0.1U K 16V	C2506	303 396 9613	CERAMIC 1U K 25V
	303 453 8610	CERAMIC 0.1U K 16V		303 397 7618	CERAMIC 1U K 25V
	303 409 3426	CERAMIC 0.1U K 16V	C2507	303 396 9613	CERAMIC 1U K 25V
C1039	303 453 8917	CERAMIC 0.1U K 16V		303 397 7618	CERAMIC 1U K 25V
	303 453 8610	CERAMIC 0.1U K 16V	C2509	303 396 9613	CERAMIC 1U K 25V
	303 409 3426	CERAMIC 0.1U K 16V		303 397 7618	CERAMIC 1U K 25V
C1041	303 453 8917	CERAMIC 0.1U K 16V	C2511	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
C1051	303 453 8917	CERAMIC 0.1U K 16V	C2512	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
C1091	303 358 3215	CERAMIC 10U K 6.3V	C2513	303 396 9613	CERAMIC 1U K 25V
	303 368 7319	CERAMIC 10U K 6.3V		303 397 7618	CERAMIC 1U K 25V
C1301	303 392 1215	ELECT 47U M 6.3V	C2514	303 391 5511	ELECT 10U M 16V
	303 387 5310	ELECT 47U M 6.3V		303 175 7212	ELECT 10U M 16V
C1302	403 455 1012	CERAMIC 1U K 10V	C2534	303 453 8917	CERAMIC 0.1U K 16V
	303 433 1112	CERAMIC 1U K 10V		303 453 8610	CERAMIC 0.1U K 16V
C1303	303 454 0613	CERAMIC 0.01U K 50V		303 409 3426	CERAMIC 0.1U K 16V
	303 441 9810	CERAMIC 0.01U K 50V	C2535	303 376 3112	ELECT 100U M 25V
C1304	303 453 8511	CERAMIC 1000P K 50V	C2536	303 396 9613	CERAMIC 1U K 25V
	303 454 1214	CERAMIC 1000P K 50V		303 397 7618	CERAMIC 1U K 25V
	303 276 1317	CERAMIC 1000P K 50V	C2537	303 396 9613	CERAMIC 1U K 25V
C1305	303 453 8917	CERAMIC 0.1U K 16V		303 397 7618	CERAMIC 1U K 25V
	303 453 8610	CERAMIC 0.1U K 16V	C2539	303 396 9613	CERAMIC 1U K 25V
	303 409 3426	CERAMIC 0.1U K 16V		303 397 7618	CERAMIC 1U K 25V
C1351	303 453 8917	CERAMIC 0.1U K 16V	C2541	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
C1353	303 392 1215	ELECT 47U M 6.3V	C2542	303 453 8917	CERAMIC 0.1U K 16V
C1391	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	C2543	303 396 9613	CERAMIC 1U K 25V
C2001	303 358 3215	CERAMIC 10U K 6.3V		303 397 7618	CERAMIC 1U K 25V
	303 368 7319	CERAMIC 10U K 6.3V	C2544	303 391 5511	ELECT 10U M 16V
C2002	303 453 8917	CERAMIC 0.1U K 16V		303 175 7212	ELECT 10U M 16V
	303 453 8610	CERAMIC 0.1U K 16V	C2564	303 453 8917	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V		303 453 8610	CERAMIC 0.1U K 16V
C2003	403 457 2512	CERAMIC 0.47U K 10V		303 409 3426	CERAMIC 0.1U K 16V
	303 376 6311	CERAMIC 0.47U K 10V	C2565	303 401 4312	ELECT 47U M 25V
C2011	303 453 8917	CERAMIC 0.1U K 16V	C2566	303 396 9613	CERAMIC 1U K 25V
	303 453 8610	CERAMIC 0.1U K 16V		303 397 7618	CERAMIC 1U K 25V
	303 409 3426	CERAMIC 0.1U K 16V	C2567	303 396 9613	CERAMIC 1U K 25V
				303 397 7618	CERAMIC 1U K 25V
C2012	303 453 8917	CERAMIC 0.1U K 16V	C2569	303 396 9613	CERAMIC 1U K 25V
	303 453 8610	CERAMIC 0.1U K 16V		303 397 7618	CERAMIC 1U K 25V

Electrical Parts List

Key No. Part No. Description						Key No. Part No. Description					
C2571	303 453 8917	CERAMIC	0.1U K	16V		C322	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	
C2572	303 453 8917	CERAMIC	0.1U K	16V		C323	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	
C2573	303 396 9613	CERAMIC	1U K	25V		C324	303 453 8917	CERAMIC	0.1U K	16V	
	303 397 7618	CERAMIC	1U K	25V			303 453 8610	CERAMIC	0.1U K	16V	
C2574	303 391 5511	ELECT	10U M	16V		C326	303 409 3426	CERAMIC	0.1U K	16V	
	303 175 7212	ELECT	10U M	16V			303 453 8917	CERAMIC	0.1U K	16V	
C2891	303 453 8917	CERAMIC	0.1U K	16V		C327	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			303 453 8917	CERAMIC	0.1U K	16V	
C2892	303 453 7217	CERAMIC	47P J	50V		C328	303 453 8610	CERAMIC	0.1U K	16V	
	303 454 1610	CERAMIC	47P J	50V			303 409 3426	CERAMIC	0.1U K	16V	
	303 305 8812	CERAMIC	47P J	50V			303 453 8917	CERAMIC	0.1U K	16V	
C301	303 453 8917	CERAMIC	0.1U K	16V		C329	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			303 453 8917	CERAMIC	0.1U K	16V	
C302	303 453 8917	CERAMIC	0.1U K	16V		C331	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			303 453 8917	CERAMIC	0.1U K	16V	
C303	303 453 8917	CERAMIC	0.1U K	16V		C332	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			303 453 8917	CERAMIC	0.1U K	16V	
C304	303 453 8917	CERAMIC	0.1U K	16V		C333	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			303 453 8917	CERAMIC	0.1U K	16V	
C306	303 453 8917	CERAMIC	0.1U K	16V		C334	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			303 453 8917	CERAMIC	0.1U K	16V	
C307	303 453 8917	CERAMIC	0.1U K	16V		C336	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			303 453 8917	CERAMIC	0.1U K	16V	
C308	303 453 8917	CERAMIC	0.1U K	16V		C337	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			303 453 8917	CERAMIC	0.1U K	16V	
C309	303 453 8917	CERAMIC	0.1U K	16V		C338	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			303 453 8917	CERAMIC	0.1U K	16V	
C311	303 453 8917	CERAMIC	0.1U K	16V		C339	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			303 453 8917	CERAMIC	0.1U K	16V	
C312	303 453 8917	CERAMIC	0.1U K	16V		C341	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			303 453 8917	CERAMIC	0.1U K	16V	
C313	303 453 8917	CERAMIC	0.1U K	16V		C342	303 276 1911	CERAMIC	22P J	50V	
	303 453 8610	CERAMIC	0.1U K	16V			303 276 1911	CERAMIC	22P J	50V	
	303 409 3426	CERAMIC	0.1U K	16V			403 457 2512	CERAMIC	0.47U K	10V	
C314	303 453 8917	CERAMIC	0.1U K	16V		C347	303 376 6311	CERAMIC	0.47U K	10V	
	303 453 8610	CERAMIC	0.1U K	16V			303 396 9613	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
C316	303 453 8917	CERAMIC	0.1U K	16V		C3501	303 396 9613	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V			303 381 5316	ELECT	100U M	16V	
C317	303 453 8917	CERAMIC	0.1U K	16V		C3502	303 396 9613	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V			303 398 4418	ELECT	10U M	25V	
C318	303 453 8917	CERAMIC	0.1U K	16V		C3503	303 396 9613	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V			303 396 9613	CERAMIC	1U K	25V	
C319	303 453 8917	CERAMIC	0.1U K	16V		C3504	303 397 7618	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 398 4418	ELECT	10U M	25V	
	303 409 3426	CERAMIC	0.1U K	16V			303 396 9613	CERAMIC	1U K	25V	
C321	303 453 8917	CERAMIC	0.1U K	16V		C3505	303 397 7618	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 453 8917	CERAMIC	0.1U K	16V	
	303 409 3426	CERAMIC	0.1U K	16V			303 453 8610	CERAMIC	0.1U K	16V	
	303 453 8917	CERAMIC	0.1U K	16V		C352	303 409 3426	CERAMIC	0.1U K	16V	
	303 409 3426	CERAMIC	0.1U K	16V			303 453 8917	CERAMIC	0.1U K	16V	

Electrical Parts List

Key No. Part No. Description						Key No. Part No. Description					
C353	303 409 3426	CERAMIC	0.1U K	16V		C373	303 453 8610	CERAMIC	0.1U K	16V	
	303 453 8917	CERAMIC	0.1U K	16V			303 409 3426	CERAMIC	0.1U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V			303 453 8917	CERAMIC	0.1U K	16V	
C3531	303 409 3426	CERAMIC	0.1U K	16V			303 453 8610	CERAMIC	0.1U K	16V	
	303 396 9613	CERAMIC	1U K	25V			303 409 3426	CERAMIC	0.1U K	16V	
	303 397 7618	CERAMIC	1U K	25V		C376	303 368 7319	CERAMIC	10U K	6.3V	
C3532	303 396 9613	CERAMIC	1U K	25V		C377	303 368 7319	CERAMIC	10U K	6.3V	
	303 397 7618	CERAMIC	1U K	25V		C3801	303 453 8917	CERAMIC	0.1U K	16V	
	303 397 7618	CERAMIC	1U K	25V			303 453 8610	CERAMIC	0.1U K	16V	
C3533	303 381 5316	ELECT	100U M	16V			303 409 3426	CERAMIC	0.1U K	16V	
C3534	303 396 9613	CERAMIC	1U K	25V		C3802	303 453 8917	CERAMIC	0.1U K	16V	
	303 397 7618	CERAMIC	1U K	25V			303 453 8610	CERAMIC	0.1U K	16V	
C3535	303 398 4418	ELECT	10U M	25V			303 409 3426	CERAMIC	0.1U K	16V	
C3536	303 396 9613	CERAMIC	1U K	25V		C3803	303 453 8917	CERAMIC	0.1U K	16V	
	303 397 7618	CERAMIC	1U K	25V			303 453 8610	CERAMIC	0.1U K	16V	
C354	303 453 8917	CERAMIC	0.1U K	16V			303 409 3426	CERAMIC	0.1U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V		C3804	303 453 8917	CERAMIC	0.1U K	16V	
	303 409 3426	CERAMIC	0.1U K	16V			303 453 8610	CERAMIC	0.1U K	16V	
C356	303 453 8917	CERAMIC	0.1U K	16V			303 409 3426	CERAMIC	0.1U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V		C3806	403 455 1012	CERAMIC	1U K	10V	
	303 409 3426	CERAMIC	0.1U K	16V			303 433 1112	CERAMIC	1U K	10V	
C3561	303 396 9613	CERAMIC	1U K	25V		C381	303 454 0415	CERAMIC	0.068U K	16V	
	303 397 7618	CERAMIC	1U K	25V			303 442 0519	CERAMIC	0.068U K	16V	
	303 396 9613	CERAMIC	1U K	25V		C382	303 454 0415	CERAMIC	0.068U K	16V	
C3562	303 397 7618	CERAMIC	1U K	25V			303 442 0519	CERAMIC	0.068U K	16V	
	303 453 8917	CERAMIC	0.1U K	16V		C383	303 454 0613	CERAMIC	0.01U K	50V	
	303 453 8610	CERAMIC	0.1U K	16V			303 441 9810	CERAMIC	0.01U K	50V	
C357	303 409 3426	CERAMIC	0.1U K	16V		C384	303 454 0415	CERAMIC	0.068U K	16V	
	303 453 8917	CERAMIC	0.1U K	16V			303 442 0519	CERAMIC	0.068U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V		C3851	303 453 8917	CERAMIC	0.1U K	16V	
C358	303 409 3426	CERAMIC	0.1U K	16V			303 453 8610	CERAMIC	0.1U K	16V	
	303 453 8917	CERAMIC	0.1U K	16V			303 409 3426	CERAMIC	0.1U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V		C3852	303 453 8917	CERAMIC	0.1U K	16V	
C3580	303 391 5115	ELECT	100U M	16V			303 453 8610	CERAMIC	0.1U K	16V	
	303 296 9515	ELECT	100U M	16V			303 409 3426	CERAMIC	0.1U K	16V	
	303 398 4418	ELECT	10U M	25V			303 453 8917	CERAMIC	0.1U K	16V	
C3582	303 396 9613	CERAMIC	1U K	25V			303 453 8610	CERAMIC	0.1U K	16V	
C3583	303 397 7618	CERAMIC	1U K	25V			303 409 3426	CERAMIC	0.1U K	16V	
C3584	303 396 9613	CERAMIC	1U K	25V		C3853	303 336 3510	CERAMIC	0.47U K	16V	
	303 397 7618	CERAMIC	1U K	25V			304 110 9800	CERAMIC	0.47U K	16V	
	303 397 7618	CERAMIC	1U K	25V		C3854	303 336 3510	CERAMIC	0.47U K	16V	
C361	303 453 8917	CERAMIC	0.1U K	16V			304 110 9800	CERAMIC	0.47U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V		C386	303 454 0613	CERAMIC	0.01U K	50V	
	303 409 3426	CERAMIC	0.1U K	16V			303 441 9810	CERAMIC	0.01U K	50V	
C362	303 453 8917	CERAMIC	0.1U K	16V		C387	403 455 1012	CERAMIC	1U K	10V	
	303 453 8610	CERAMIC	0.1U K	16V			303 433 1112	CERAMIC	1U K	10V	
	303 409 3426	CERAMIC	0.1U K	16V		C388	403 455 1012	CERAMIC	1U K	10V	
C363	303 453 8917	CERAMIC	0.1U K	16V			303 433 1112	CERAMIC	1U K	10V	
	303 453 8610	CERAMIC	0.1U K	16V		C390	403 457 2512	CERAMIC	0.47U K	10V	
	303 409 3426	CERAMIC	0.1U K	16V			303 376 6311	CERAMIC	0.47U K	10V	
C364	303 453 8917	CERAMIC	0.1U K	16V		C391	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	
C365	303 453 8917	CERAMIC	0.1U K	16V		C392	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	
C366	303 453 8917	CERAMIC	0.1U K	16V			303 453 8610	CERAMIC	0.1U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V		C4006	303 453 8917	CERAMIC	0.1U K	16V	
	303 409 3426	CERAMIC	0.1U K	16V			303 453 8610	CERAMIC	0.1U K	16V	
C367	303 453 8917	CERAMIC	0.1U K	16V			303 409 3426	CERAMIC	0.1U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V		C4007	303 372 7510	CERAMIC	2.2U K	6.3V	
	303 409 3426	CERAMIC	0.1U K	16V		C4008	303 453 8917	CERAMIC	0.1U K	16V	
C368	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		C4009	303 372 7510	CERAMIC	2.2U K	6.3V	
C369	303 358 3215	CERAMIC	10U K	6.3V		C401	303 453 8719	CERAMIC	470P K	50V	
	303 368 7319	CERAMIC	10U K	6.3V			303 453 9211	CERAMIC	470P K	50V	
	303 453 8917	CERAMIC	0.1U K	16V			303 282 5118	CERAMIC	470P K	50V	
C371	303 453 8610	CERAMIC	0.1U K	16V		C4011	303 453 8917	CERAMIC	0.1U K	16V	
	303 409 3426	CERAMIC	0.1U K	16V			303 453 8610	CERAMIC	0.1U K	16V	
	303 453 8917	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					
C402	303 453 8917	CERAMIC	0.1U K	16V			303 433 1112	CERAMIC	1U K	10V	
	303 453 8610	CERAMIC	0.1U K	16V		C441	303 391 5511	ELECT	10U M	16V	
	303 409 3426	CERAMIC	0.1U K	16V		C442	303 392 1215	ELECT	47U M	6.3V	
C403	303 453 8719	CERAMIC	470P K	50V		C443	303 370 0216	CERAMIC	2.2U K	6.3V	
	303 453 9211	CERAMIC	470P K	50V		C4808	303 230 3616	TA-SOLID	47U M	6.3V	
	303 282 5118	CERAMIC	470P K	50V			303 384 4712	TA-SOLID	47U M	6.3V	
C404	303 453 8917	CERAMIC	0.1U K	16V			303 449 1212	POS-SOLID	47U M	6.3V	
	303 453 8610	CERAMIC	0.1U K	16V		C482	303 230 3616	TA-SOLID	47U M	6.3V	
	303 409 3426	CERAMIC	0.1U K	16V			303 384 4712	TA-SOLID	47U M	6.3V	
C406	303 453 8917	CERAMIC	0.1U K	16V			303 449 1212	POS-SOLID	47U M	6.3V	
	303 453 8610	CERAMIC	0.1U K	16V		C483	303 230 3616	TA-SOLID	47U M	6.3V	
	303 409 3426	CERAMIC	0.1U K	16V			303 384 4712	TA-SOLID	47U M	6.3V	
C407	303 453 8719	CERAMIC	470P K	50V			303 449 1212	POS-SOLID	47U M	6.3V	
	303 453 9211	CERAMIC	470P K	50V		C4891	303 453 8917	CERAMIC	0.1U K	16V	
	303 282 5118	CERAMIC	470P K	50V			303 453 8610	CERAMIC	0.1U K	16V	
C411	303 453 8917	CERAMIC	0.1U K	16V			303 409 3426	CERAMIC	0.1U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V		C5001	303 396 9613	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
C412	303 453 8917	CERAMIC	0.1U K	16V		C5002	303 396 9613	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V		C5004	303 396 9613	CERAMIC	1U K	25V	
C413	303 453 8719	CERAMIC	470P K	50V			303 397 7618	CERAMIC	1U K	25V	
	303 453 9211	CERAMIC	470P K	50V		C5006	303 401 4312	ELECT	47U M	25V	
	303 282 5118	CERAMIC	470P K	50V		C5007	303 342 3313	CERAMIC	0.1U K	25V	
C414	303 453 8917	CERAMIC	0.1U K	16V		C5008	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	
C416	303 453 8917	CERAMIC	0.1U K	16V		C5009	303 396 9613	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V		C501	303 453 8917	CERAMIC	0.1U K	16V	
C417	303 370 0216	CERAMIC	2.2U K	6.3V			303 453 8610	CERAMIC	0.1U K	16V	
C421	303 453 8719	CERAMIC	470P K	50V			303 409 3426	CERAMIC	0.1U K	16V	
	303 453 9211	CERAMIC	470P K	50V		C5011	303 394 5815	CERAMIC	4.7U K	16V	
	303 282 5118	CERAMIC	470P K	50V		C5012	303 394 5815	CERAMIC	4.7U K	16V	
C422	403 455 1012	CERAMIC	1U K	10V		C5013	303 394 5815	CERAMIC	4.7U K	16V	
	303 433 1112	CERAMIC	1U K	10V		C5014	303 396 9613	CERAMIC	1U K	25V	
	303 453 8719	CERAMIC	470P K	50V			303 397 7618	CERAMIC	1U K	25V	
C423	303 453 9211	CERAMIC	470P K	50V		C5015	303 397 5713	ELECT	100U M	10V	
	303 282 5118	CERAMIC	470P K	50V			303 387 5617	ELECT	100U M	10V	
	403 455 1012	CERAMIC	1U K	10V		C502	303 453 8917	CERAMIC	0.1U K	16V	
C424	303 433 1112	CERAMIC	1U K	10V			303 453 8610	CERAMIC	0.1U K	16V	
	403 455 1012	CERAMIC	1U K	10V			303 409 3426	CERAMIC	0.1U K	16V	
	303 433 1112	CERAMIC	1U K	10V		C5024	403 455 1616	CERAMIC	10U K	16V	
C426	303 453 8719	CERAMIC	470P K	50V		C503	303 453 8917	CERAMIC	0.1U K	16V	
	303 453 9211	CERAMIC	470P K	50V			303 453 8610	CERAMIC	0.1U K	16V	
	303 282 5118	CERAMIC	470P K	50V			303 409 3426	CERAMIC	0.1U K	16V	
C428	303 453 8917	CERAMIC	0.1U K	16V		C5031	303 396 9613	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V		C5032	303 336 3510	CERAMIC	0.47U K	16V	
C431	303 453 8719	CERAMIC	470P K	50V		C5033	403 455 1012	CERAMIC	1U K	10V	
	303 453 9211	CERAMIC	470P K	50V			303 433 1112	CERAMIC	1U K	10V	
	303 282 5118	CERAMIC	470P K	50V		C5037	403 455 1012	CERAMIC	1U K	10V	
C432	303 453 8917	CERAMIC	0.1U K	16V			303 433 1112	CERAMIC	1U K	10V	
	303 453 8610	CERAMIC	0.1U K	16V		C5038	303 454 0613	CERAMIC	0.01U K	50V	
	303 409 3426	CERAMIC	0.1U K	16V		C5039	303 454 0613	CERAMIC	0.01U K	50V	
C433	303 453 8719	CERAMIC	470P K	50V		C504	303 453 8917	CERAMIC	0.1U K	16V	
	303 453 9211	CERAMIC	470P K	50V			303 453 8610	CERAMIC	0.1U K	16V	
	303 282 5118	CERAMIC	470P K	50V			303 409 3426	CERAMIC	0.1U K	16V	
C434	303 453 8917	CERAMIC	0.1U K	16V		C5041	303 454 0613	CERAMIC	0.01U K	50V	
	303 453 8610	CERAMIC	0.1U K	16V		C505	303 396 9613	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
C436	303 453 8917	CERAMIC	0.1U K	16V		C506	303 396 9613	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V		C5061	403 455 1616	CERAMIC	10U K	16V	
C437	303 409 3426	CERAMIC	0.1U K	16V		C5069	403 455 1616	CERAMIC	10U K	16V	
C438	303 441 9810	CERAMIC	0.01U K	50V		C507	303 396 9613	CERAMIC	1U K	25V	
C439	403 455 1012	CERAMIC	1U K	10V			303 397 7618	CERAMIC	1U K	25V	

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Key No. Part No. Description						Key No. Part No. Description					
C508	303 396 9613	CERAMIC	1U K	25V		C5221	303 409 3426	CERAMIC	0.1U K	16V	
	303 397 7618	CERAMIC	1U K	25V			303 454 0613	CERAMIC	0.01U K	50V	
C5081	303 453 8917	CERAMIC	0.1U K	16V		C5222	303 441 9810	CERAMIC	0.01U K	50V	
	303 453 8610	CERAMIC	0.1U K	16V			303 453 8917	CERAMIC	0.1U K	16V	
C5082	303 409 3426	CERAMIC	0.1U K	16V		C5227	303 453 8610	CERAMIC	0.1U K	16V	
	303 453 8917	CERAMIC	0.1U K	16V			303 409 3426	CERAMIC	0.1U K	16V	
C5083	303 453 8610	CERAMIC	0.1U K	16V		C5228	303 381 9918	ELECT	470U M	16V	
	303 409 3426	CERAMIC	0.1U K	16V			303 454 0613	CERAMIC	0.01U K	50V	
C5084	303 392 1215	ELECT	47U M	6.3V		C5229	303 441 9810	CERAMIC	0.01U K	50V	
	303 387 5310	ELECT	47U M	6.3V			303 381 9918	ELECT	470U M	16V	
C5087	303 453 8917	CERAMIC	0.1U K	16V		C5231	303 454 0613	CERAMIC	0.01U K	50V	
	303 453 8610	CERAMIC	0.1U K	16V			303 441 9810	CERAMIC	0.01U K	50V	
C509	303 409 3426	CERAMIC	0.1U K	16V		C5232	303 381 9918	ELECT	470U M	16V	
	303 381 5613	ELECT	220U M	16V		C5233	303 454 0613	CERAMIC	0.01U K	50V	
C510	303 423 8916	ELECT	220U M	16V			303 441 9810	CERAMIC	0.01U K	50V	
	303 396 9613	CERAMIC	1U K	25V		C524	303 391 5511	ELECT	10U M	16V	
C511	303 397 7618	CERAMIC	1U K	25V			303 175 7212	ELECT	10U M	16V	
C512	303 396 9613	CERAMIC	1U K	25V		C5241	403 457 2512	CERAMIC	0.47U K	10V	
	303 397 7618	CERAMIC	1U K	25V			303 376 6311	CERAMIC	0.47U K	10V	
C513	303 396 9613	CERAMIC	1U K	25V		C5243	403 457 2512	CERAMIC	0.47U K	10V	
	303 397 7618	CERAMIC	1U K	25V			303 376 6311	CERAMIC	0.47U K	10V	
C515	303 396 9613	CERAMIC	1U K	25V		C5244	303 355 9913	CERAMIC	2.2U K	10V	
	303 397 7618	CERAMIC	1U K	25V		C529	303 453 8917	CERAMIC	0.1U K	16V	
C516	303 453 8511	CERAMIC	1000P K	50V			303 453 8610	CERAMIC	0.1U K	16V	
C517	303 454 1214	CERAMIC	1000P K	50V		C5301	303 409 3426	CERAMIC	0.1U K	16V	
	303 396 9613	CERAMIC	1U K	25V			303 453 8917	CERAMIC	0.1U K	16V	
C519	303 397 7618	CERAMIC	1U K	25V		C5303	303 453 8610	CERAMIC	0.1U K	16V	
	303 453 8917	CERAMIC	0.1U K	16V			303 409 3426	CERAMIC	0.1U K	16V	
C5200	303 453 8610	CERAMIC	0.1U K	16V		C5306	403 455 1012	CERAMIC	1U K	10V	
	303 409 3426	CERAMIC	0.1U K	16V			303 433 1112	CERAMIC	1U K	10V	
C5201	403 455 1616	CERAMIC	10U K	16V		C531	303 453 8917	CERAMIC	0.1U K	16V	
C5202	303 372 7510	CERAMIC	2.2U K	6.3V			303 453 8610	CERAMIC	0.1U K	16V	
C5203	303 372 7510	CERAMIC	2.2U K	6.3V		C532	303 409 3426	CERAMIC	0.1U K	16V	
C5204	303 372 7510	CERAMIC	2.2U K	6.3V			303 453 8917	CERAMIC	0.1U K	16V	
C5206	303 372 7510	CERAMIC	2.2U K	6.3V		C5321	303 453 8610	CERAMIC	0.1U K	16V	
C5207	303 372 7510	CERAMIC	2.2U K	6.3V			303 409 3426	CERAMIC	0.1U K	16V	
C5208	303 381 5613	ELECT	220U M	16V		C533	303 397 8219	CERAMIC	2.2U K	25V	
	303 423 8916	ELECT	220U M	16V			303 453 8917	CERAMIC	0.1U K	16V	
C5209	303 453 8917	CERAMIC	0.1U K	16V		C5332	303 453 8610	CERAMIC	0.1U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V			303 409 3426	CERAMIC	0.1U K	16V	
C5211	303 409 3426	CERAMIC	0.1U K	16V		C5333	403 455 1012	CERAMIC	1U K	10V	
	303 453 8917	CERAMIC	0.1U K	16V			303 433 1112	CERAMIC	1U K	10V	
C5212	303 453 8610	CERAMIC	0.1U K	16V		C5334	303 314 5918	CERAMIC	0.47U K	16V	
	303 409 3426	CERAMIC	0.1U K	16V			303 453 6814	CERAMIC	68P J	50V	
C5213	303 453 8917	CERAMIC	0.1U K	16V		C5336	303 454 0019	CERAMIC	68P J	50V	
	303 453 8610	CERAMIC	0.1U K	16V			303 320 0419	CERAMIC	68P J	50V	
C5214	303 409 3426	CERAMIC	0.1U K	16V		C5337	303 309 2519	CERAMIC	27P J	50V	
	303 453 8917	CERAMIC	0.1U K	16V			303 453 6319	CERAMIC	100P J	50V	
C5216	303 453 8610	CERAMIC	0.1U K	16V		C534	303 454 0910	CERAMIC	100P J	50V	
	303 409 3426	CERAMIC	0.1U K	16V			303 294 6110	CERAMIC	100P J	50V	
C5217	303 381 5316	ELECT	100U M	16V		C5341	303 453 8917	CERAMIC	0.1U K	16V	
	303 369 3211	ELECT	100U M	16V			303 453 8610	CERAMIC	0.1U K	16V	
C5218	403 455 1012	CERAMIC	1U K	10V		C535	303 409 3426	CERAMIC	0.1U K	16V	
	303 433 1112	CERAMIC	1U K	10V			403 455 1012	CERAMIC	1U K	10V	
C5219	303 453 8917	CERAMIC	0.1U K	16V		C536	303 433 1112	CERAMIC	1U K	10V	
	303 453 8610	CERAMIC	0.1U K	16V			303 396 9613	CERAMIC	1U K	25V	
C5219	303 409 3426	CERAMIC	0.1U K	16V		C537	303 397 7618	CERAMIC	1U K	25V	
	303 453 8917	CERAMIC	0.1U K	16V			303 396 9613	CERAMIC	1U K	25V	
C5219	303 453 8610	CERAMIC	0.1U K	16V		C538	303 397 7618	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 396 9613	CERAMIC	1U K	25V	
C5219	303 453 8610	CERAMIC	0.1U K	16V		C539	303 397 7618	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 396 9613	CERAMIC	1U K	25V	

Electrical Parts List

Key No. Part No. Description						Key No. Part No. Description					
C540	303 397 7618	CERAMIC	1U K	25V		C5662	303 453 8917	CERAMIC	0.1U K	16V	
	303 396 9613	CERAMIC	1U K	25V			303 453 8610	CERAMIC	0.1U K	16V	
	303 397 7618	CERAMIC	1U K	25V			303 409 3426	CERAMIC	0.1U K	16V	
C541	303 396 9613	CERAMIC	1U K	25V		C567	303 396 9613	CERAMIC	1U K	25V	
	303 397 7618	CERAMIC	1U K	25V			303 397 7618	CERAMIC	1U K	25V	
C542	303 396 9613	CERAMIC	1U K	25V		C5670	303 392 1215	ELECT	47U M	6.3V	
	303 397 7618	CERAMIC	1U K	25V			303 387 5310	ELECT	47U M	6.3V	
C543	303 396 9613	CERAMIC	1U K	25V		C568	303 396 9613	CERAMIC	1U K	25V	
	303 397 7618	CERAMIC	1U K	25V			303 397 7618	CERAMIC	1U K	25V	
C545	303 396 9613	CERAMIC	1U K	25V		C569	303 396 9613	CERAMIC	1U K	25V	
	303 397 7618	CERAMIC	1U K	25V			303 397 7618	CERAMIC	1U K	25V	
C546	303 453 8511	CERAMIC	1000P K	50V		C570	303 396 9613	CERAMIC	1U K	25V	
	303 454 1214	CERAMIC	1000P K	50V			303 397 7618	CERAMIC	1U K	25V	
C547	303 396 9613	CERAMIC	1U K	25V		C5704	303 396 9613	CERAMIC	1U K	25V	
	303 397 7618	CERAMIC	1U K	25V			303 397 7618	CERAMIC	1U K	25V	
C549	303 453 8917	CERAMIC	0.1U K	16V		C5705	303 401 4312	ELECT	47U M	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 401 4312	ELECT	47U M	25V	
	303 409 3426	CERAMIC	0.1U K	16V		C571	303 396 9613	CERAMIC	1U K	25V	
C554	303 391 5511	ELECT	10U M	16V			303 397 7618	CERAMIC	1U K	25V	
	303 175 7212	ELECT	10U M	16V		C5710	303 396 9613	CERAMIC	1U K	25V	
C559	303 453 8917	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V		C572	303 396 9613	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
C5601	303 397 5713	ELECT	100U M	10V		C573	303 396 9613	CERAMIC	1U K	25V	
	303 387 5617	ELECT	100U M	10V			303 397 7618	CERAMIC	1U K	25V	
C5602	303 453 8917	CERAMIC	0.1U K	16V		C575	303 396 9613	CERAMIC	1U K	25V	
	303 453 8610	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
	303 409 3426	CERAMIC	0.1U K	16V		C576	303 453 8511	CERAMIC	1000P K	50V	
C5603	303 397 5713	ELECT	100U M	10V			303 454 1214	CERAMIC	1000P K	50V	
	303 387 5617	ELECT	100U M	10V		C577	303 396 9613	CERAMIC	1U K	25V	
	303 453 8917	CERAMIC	0.1U K	16V			303 397 7618	CERAMIC	1U K	25V	
C5604	303 453 8610	CERAMIC	0.1U K	16V		C579	303 453 8917	CERAMIC	0.1U K	16V	
	303 409 3426	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	
C5607	303 342 3313	CERAMIC	0.1U K	25V		C5801	303 325 6317	CERAMIC	0.22U K	10V	
C561	303 453 8917	CERAMIC	0.1U K	16V			403 455 1012	CERAMIC	1U K	10V	
	303 453 8610	CERAMIC	0.1U K	16V		C5802	303 433 1112	CERAMIC	1U K	10V	
	303 409 3426	CERAMIC	0.1U K	16V			303 453 8917	CERAMIC	0.1U K	16V	
C5616	303 397 8219	CERAMIC	2.2U K	25V		C5803	303 453 8610	CERAMIC	0.1U K	16V	
C5617	303 394 5815	CERAMIC	4.7U K	16V			303 409 3426	CERAMIC	0.1U K	16V	
C5618	303 394 5815	CERAMIC	4.7U K	16V			303 454 1917	CERAMIC	4700P K	50V	
C5619	403 455 1012	CERAMIC	1U K	10V		C5804	303 379 7315	CERAMIC	4700P K	50V	
	303 433 1112	CERAMIC	1U K	10V			403 455 1616	CERAMIC	10U K	16V	
C562	303 453 8917	CERAMIC	0.1U K	16V		C5805	403 455 1012	CERAMIC	1U K	10V	
	303 453 8610	CERAMIC	0.1U K	16V			303 433 1112	CERAMIC	1U K	10V	
	303 409 3426	CERAMIC	0.1U K	16V		C5806	303 454 1917	CERAMIC	4700P K	50V	
C5621	303 453 8917	CERAMIC	0.1U K	16V			303 379 7315	CERAMIC	4700P K	50V	
	303 453 8610	CERAMIC	0.1U K	16V		C5807	303 454 1917	CERAMIC	4700P K	50V	
	303 409 3426	CERAMIC	0.1U K	16V			303 379 7315	CERAMIC	4700P K	50V	
C5622	303 392 1215	ELECT	47U M	6.3V		C5808	303 454 1917	CERAMIC	4700P K	50V	
	303 387 5310	ELECT	47U M	6.3V			303 379 7315	CERAMIC	4700P K	50V	
	303 453 8917	CERAMIC	0.1U K	16V		C5809	303 453 8917	CERAMIC	0.1U K	16V	
C5623	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	
C5624	303 454 1016	CERAMIC	8200P K	50V		C5811	303 337 9511	CERAMIC	0.15U K	10V	
	303 306 6510	CERAMIC	8200P K	50V			403 455 1012	CERAMIC	1U K	10V	
	303 453 8917	CERAMIC	0.1U K	16V		C5821	303 433 1112	CERAMIC	1U K	10V	
C563	303 453 8610	CERAMIC	0.1U K	16V			403 462 2910	EP-ELECT	330U M	4V	
	303 409 3426	CERAMIC	0.1U K	16V		C5822	303 453 8917	CERAMIC	0.1U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V			303 453 8610	CERAMIC	0.1U K	16V	
C564	303 453 8917	CERAMIC	0.1U K	16V		C5823	303 409 3426	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		C584	303 391 5511	ELECT	10U M	16V	
C5644	303 391 5511	ELECT	10U M	16V			303 175 7212	ELECT	10U M	16V	
	303 175 7212	ELECT	10U M	16V		C5841	403 455 1012	CERAMIC	1U K	10V	
	303 396 9613	CERAMIC	1U K	25V			303 433 1112	CERAMIC	1U K	10V	
C565	303 397 7618	CERAMIC	1U K	25V		C5842	403 462 2910	EP-ELECT	330U M	4V	
	303 396 9613	CERAMIC	1U K	25V		C5843	303 453 8917	CERAMIC	0.1U K	16V	
C566	303 397 7618	CERAMIC	1U K	25V			303 453 8610	CERAMIC	0.1U K	16V	
	303 397 7618	CERAMIC	1U K	25V			303 409 3426	CERAMIC	0.1U K	16V	

Electrical Parts List

Key No. Part No. Description						Key No. Part No. Description					
C5844	303 454 1016	CERAMIC	8200P K	50V		C891	303 453 8917	CERAMIC	0.1U K	16V	
	303 306 6510	CERAMIC	8200P K	50V			303 453 8610	CERAMIC	0.1U K	16V	
C5861	403 455 1012	CERAMIC	1U K	10V		C9882	303 409 3426	CERAMIC	0.1U K	16V	
	303 433 1112	CERAMIC	1U K	10V			303 453 8917	CERAMIC	0.1U K	16V	
C5862	403 462 2910	EP-ELECT	330U M	4V			303 453 8610	CERAMIC	0.1U K	16V	
C5863	303 453 8917	CERAMIC	0.1U K	16V			303 409 3426	CERAMIC	0.1U K	16V	
	303 453 8610	CERAMIC	0.1U K	16V		RESISTOR					
	303 409 3426	CERAMIC	0.1U K	16V		R1020	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
C5864	303 454 1016	CERAMIC	8200P K	50V		R1021	301 260 4115	MT-GLAZE	75 JA	1/3W	
	303 306 6510	CERAMIC	8200P K	50V		R1022	301 260 4115	MT-GLAZE	75 JA	1/3W	
C5865	303 381 5316	ELECT	100U M	16V		R1023	301 260 4115	MT-GLAZE	75 JA	1/3W	
C5866	303 381 5316	ELECT	100U M	16V		R1024	301 225 1418	MT-GLAZE	47K JA	1/16W	
C5867	303 381 5316	ELECT	100U M	16V		R1026	301 225 1418	MT-GLAZE	47K JA	1/16W	
C589	303 453 8917	CERAMIC	0.1U K	16V		R1031	301 260 4115	MT-GLAZE	75 JA	1/3W	
	303 453 8610	CERAMIC	0.1U K	16V		R1032	301 260 4115	MT-GLAZE	75 JA	1/3W	
	303 409 3426	CERAMIC	0.1U K	16V		R1033	301 260 4115	MT-GLAZE	75 JA	1/3W	
C6801	303 453 8917	CERAMIC	0.1U K	16V		R1034	301 225 1418	MT-GLAZE	47K JA	1/16W	
	303 453 8610	CERAMIC	0.1U K	16V		R1036	301 225 1418	MT-GLAZE	47K JA	1/16W	
	303 409 3426	CERAMIC	0.1U K	16V		R1037	301 224 9316	MT-GLAZE	1K JA	1/16W	
C6802	303 453 8917	CERAMIC	0.1U K	16V		R1038	301 224 9514	MT-GLAZE	2.2K JA	1/16W	
	303 453 8610	CERAMIC	0.1U K	16V		R1039	301 224 9316	MT-GLAZE	1K JA	1/16W	
	303 409 3426	CERAMIC	0.1U K	16V		R1040	301 224 9514	MT-GLAZE	2.2K JA	1/16W	
C6803	303 453 8917	CERAMIC	0.1U K	16V		R1041	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 453 8610	CERAMIC	0.1U K	16V		R1042	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 409 3426	CERAMIC	0.1U K	16V		R1043	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
C7811	303 397 8219	CERAMIC	2.2U K	25V		R1044	301 224 9019	MT-GLAZE	10K JA	1/16W	
C7812	303 453 8917	CERAMIC	0.1U K	16V		R1046	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 453 8610	CERAMIC	0.1U K	16V		R1047	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 409 3426	CERAMIC	0.1U K	16V		R1051	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
C7813	303 381 5613	ELECT	220U M	16V		R1052	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
	303 423 8916	ELECT	220U M	16V		R1061	301 224 9019	MT-GLAZE	10K JA	1/16W	
C7816	303 376 3112	ELECT	100U M	25V		R1062	301 224 9316	MT-GLAZE	1K JA	1/16W	
C7817	303 453 8917	CERAMIC	0.1U K	16V		R1301	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 453 8610	CERAMIC	0.1U K	16V		R1306	301 224 9316	MT-GLAZE	1K JA	1/16W	
	303 409 3426	CERAMIC	0.1U K	16V		R1351	301 224 9019	MT-GLAZE	10K JA	1/16W	
C7818	303 454 1917	CERAMIC	4700P K	50V		R1352	301 224 9019	MT-GLAZE	10K JA	1/16W	
C7841	303 397 8219	CERAMIC	2.2U K	25V		R1353	301 225 0213	MT-GLAZE	3.3K JA	1/16W	
C7843	303 381 5316	ELECT	100U M	16V		R1354	301 225 0213	MT-GLAZE	3.3K JA	1/16W	
	303 369 3211	ELECT	100U M	16V		R1391	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
C7844	303 381 5316	ELECT	100U M	16V		R1392	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 369 3211	ELECT	100U M	16V		R1393	301 225 0213	MT-GLAZE	3.3K JA	1/16W	
C7847	303 453 8917	CERAMIC	0.1U K	16V		R1394	301 225 0213	MT-GLAZE	3.3K JA	1/16W	
	303 453 8610	CERAMIC	0.1U K	16V		R1906	303 376 6212	CERAMIC	0.22U K	10V	
	303 409 3426	CERAMIC	0.1U K	16V		R1907	301 224 9316	MT-GLAZE	1K JA	1/16W	
C7848	303 454 1917	CERAMIC	4700P K	50V		R1908	301 224 9316	MT-GLAZE	1K JA	1/16W	
	303 379 7315	CERAMIC	4700P K	50V		R1909	301 224 9316	MT-GLAZE	1K JA	1/16W	
C7863	303 381 5316	ELECT	100U M	16V		R1911	303 376 6212	CERAMIC	0.22U K	10V	
	303 369 3211	ELECT	100U M	16V		R1913	303 376 6212	CERAMIC	0.22U K	10V	
C7868	303 454 1917	CERAMIC	4700P K	50V		R1914	303 376 6212	CERAMIC	0.22U K	10V	
C7870	303 401 4312	ELECT	47U M	25V		R1917	303 376 6212	CERAMIC	0.22U K	10V	
C801	303 453 8917	CERAMIC	0.1U K	16V		R1918	303 376 6212	CERAMIC	0.22U K	10V	
	303 453 8610	CERAMIC	0.1U K	16V		R1919	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 409 3426	CERAMIC	0.1U K	16V		R1920	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
C8101	303 453 8917	CERAMIC	0.1U K	16V		R1922	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	
C8106	303 453 8917	CERAMIC	0.1U K	16V		R1924	303 376 6212	CERAMIC	0.22U K	10V	
	303 453 8610	CERAMIC	0.1U K	16V		R1925	303 376 6212	CERAMIC	0.22U K	10V	
	303 409 3426	CERAMIC	0.1U K	16V		R1926	303 376 6212	CERAMIC	0.22U K	10V	
C8161	303 358 3215	CERAMIC	10U K	6.3V		R1930	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 368 7319	CERAMIC	10U K	6.3V		R1931	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
C8813	303 453 8917	CERAMIC	0.1U K	16V		R1932	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 453 8610	CERAMIC	0.1U K	16V		R1939	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 409 3426	CERAMIC	0.1U K	16V		R1943	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
C8823	303 453 8917	CERAMIC	0.1U K	16V		R1944	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 453 8610	CERAMIC	0.1U K	16V			301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
	303 409 3426	CERAMIC	0.1U K	16V							

Electrical Parts List

Key No. Part No. Description					Key No. Part No. Description				
R2000	301 150 6014	MT-GLAZE	0.000	ZA 1/10W	R304	301 224 9316	MT-GLAZE	1K	JA 1/16W
R2002	301 225 1418	MT-GLAZE	47K	JA 1/16W	R306	301 224 9712	MT-GLAZE	22	JA 1/16W
R2003	301 225 0718	MT-GLAZE	56K	JA 1/16W	R307	301 224 9712	MT-GLAZE	22	JA 1/16W
R2004	301 225 1319	MT-GLAZE	470	JA 1/16W	R308	301 339 9515	MT-GLAZE	12.1K	FA 1/10W
R2006	301 224 9316	MT-GLAZE	1K	JA 1/16W	R311	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2007	301 224 8814	MT-GLAZE	100	JA 1/16W	R312	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2008	301 225 0015	MT-GLAZE	270	JA 1/16W	R314	301 226 1516	MT-GLAZE	0.000	ZA 1/16W
R2012	301 225 1418	MT-GLAZE	47K	JA 1/16W	R316	301 226 1516	MT-GLAZE	0.000	ZA 1/16W
R2013	301 225 0718	MT-GLAZE	56K	JA 1/16W	R321	301 225 0213	MT-GLAZE	3.3K	JA 1/16W
R2014	301 225 1319	MT-GLAZE	470	JA 1/16W	R322	301 225 0213	MT-GLAZE	3.3K	JA 1/16W
R2016	301 224 9316	MT-GLAZE	1K	JA 1/16W	R324	301 256 6017	MT-GLAZE	27K	JA 1/10W
R2017	301 224 8814	MT-GLAZE	100	JA 1/16W	R325	301 150 5918	MT-GLAZE	10K	JA 1/10W
R2022	301 225 1418	MT-GLAZE	47K	JA 1/16W	R328	301 162 3711	MT-GLAZE	4.7K	JA 1/10W
R2023	301 225 0718	MT-GLAZE	56K	JA 1/16W	R329	301 150 5918	MT-GLAZE	10K	JA 1/10W
R2024	301 225 1319	MT-GLAZE	470	JA 1/16W	R333	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2026	301 224 9316	MT-GLAZE	1K	JA 1/16W	R334	301 225 8110	MT-GLAZE	10	JA 1/16W
R2027	301 224 8814	MT-GLAZE	100	JA 1/16W	R339	301 225 0213	MT-GLAZE	3.3K	JA 1/16W
R2028	301 225 0015	MT-GLAZE	270	JA 1/16W	R342	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2032	301 224 9019	MT-GLAZE	10K	JA 1/16W	R343	301 225 8110	MT-GLAZE	10	JA 1/16W
R2036	301 225 8110	MT-GLAZE	10	JA 1/16W	R348	301 225 0213	MT-GLAZE	3.3K	JA 1/16W
R2037	301 225 8110	MT-GLAZE	10	JA 1/16W	R3502	301 225 1418	MT-GLAZE	47K	JA 1/16W
R2038	301 225 8110	MT-GLAZE	10	JA 1/16W	R3503	301 224 8913	MT-GLAZE	100K	JA 1/16W
R2039	301 225 8110	MT-GLAZE	10	JA 1/16W	R352	301 226 1516	MT-GLAZE	0.000	ZA 1/16W
R2041	301 225 8110	MT-GLAZE	10	JA 1/16W	R353	301 226 1516	MT-GLAZE	0.000	ZA 1/16W
R2042	301 225 8110	MT-GLAZE	10	JA 1/16W	R3532	301 225 1418	MT-GLAZE	47K	JA 1/16W
R2043	301 225 8110	MT-GLAZE	10	JA 1/16W	R3533	301 224 8913	MT-GLAZE	100K	JA 1/16W
R2044	301 225 8110	MT-GLAZE	10	JA 1/16W	R354	301 226 1516	MT-GLAZE	0.000	ZA 1/16W
R2046	301 225 8110	MT-GLAZE	10	JA 1/16W	R356	301 226 1516	MT-GLAZE	0.000	ZA 1/16W
R2047	301 225 8110	MT-GLAZE	10	JA 1/16W	R3562	301 225 1418	MT-GLAZE	47K	JA 1/16W
R2071	301 224 8913	MT-GLAZE	100K	JA 1/16W	R3563	301 224 8913	MT-GLAZE	100K	JA 1/16W
R2072	301 224 8913	MT-GLAZE	100K	JA 1/16W	R3585	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2073	301 224 9415	MT-GLAZE	1M	JA 1/16W	R3586	301 224 9316	MT-GLAZE	1K	JA 1/16W
R2074	301 224 9910	MT-GLAZE	22K	JA 1/16W	R3587	301 224 9316	MT-GLAZE	1K	JA 1/16W
R2076	301 224 8814	MT-GLAZE	100	JA 1/16W	R3588	301 225 1210	MT-GLAZE	4.7K	JA 1/16W
R2501	945 041 1978	INDUCTOR,330	OHM		R3601	301 224 9316	MT-GLAZE	1K	JA 1/16W
R2502	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3602	301 225 0619	MT-GLAZE	5.6K	JA 1/16W
R2503	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3603	301 224 9316	MT-GLAZE	1K	JA 1/16W
R2504	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3604	301 225 0619	MT-GLAZE	5.6K	JA 1/16W
R2509	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R361	301 339 9614	MT-GLAZE	23.2K	FA 1/10W
R2510	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R362	301 302 3410	MT-GLAZE	13K	JA 1/16W
R2511	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3621	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2513	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3622	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2514	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3623	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2515	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3626	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2517	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3627	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2518	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3628	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2519	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R371	301 224 9415	MT-GLAZE	1M	JA 1/16W
R2521	301 224 8913	MT-GLAZE	100K	JA 1/16W	R3801	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2531	945 041 1978	INDUCTOR,330	OHM		R3802	301 225 0213	MT-GLAZE	3.3K	JA 1/16W
R2532	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R381	301 263 7420	MT-GLAZE	75	JA 1/16W
R2533	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3851	301 227 5612	MT-GLAZE	8.2K	JA 1/16W
R2534	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3853	301 256 6215	MT-GLAZE	270	JA 1/10W
R2535	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R3854	301 227 5612	MT-GLAZE	8.2K	JA 1/16W
R2537	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R386	301 224 8814	MT-GLAZE	100	JA 1/16W
R2540	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R391	301 224 9316	MT-GLAZE	1K	JA 1/16W
R2551	301 224 8913	MT-GLAZE	100K	JA 1/16W	R392	301 224 9019	MT-GLAZE	10K	JA 1/16W
R2561	945 041 1978	INDUCTOR,330	OHM		R4001	301 265 4912	MT-GLAZE	75	FA 1/10W
R2562	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R4002	301 265 4912	MT-GLAZE	75	FA 1/10W
R2563	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R4003	301 265 4912	MT-GLAZE	75	FA 1/10W
R2564	301 226 1516	MT-GLAZE	0.000	ZA 1/16W	R4004	301 265 4912	MT-GLAZE	75	FA 1/10W
R2581	301 224 8913	MT-GLAZE	100K	JA 1/16W	R4006	301 265 4912	MT-GLAZE	75	FA 1/10W
R2890	301 224 9712	MT-GLAZE	22	JA 1/16W	R4007	301 150 6014	MT-GLAZE	0.000	ZA 1/10W
R2891	301 224 9712	MT-GLAZE	22	JA 1/16W	R4008	301 150 6014	MT-GLAZE	0.000	ZA 1/10W
R2892	301 224 8814	MT-GLAZE	100	JA 1/16W	R401	301 224 8814	MT-GLAZE	100	JA 1/16W
R301	301 224 9316	MT-GLAZE	1K	JA 1/16W	R4011	301 150 6014	MT-GLAZE	0.000	ZA 1/10W
R302	301 224 9316	MT-GLAZE	1K	JA 1/16W	R402	301 224 8814	MT-GLAZE	100	JA 1/16W
R303	301 224 9316	MT-GLAZE	1K	JA 1/16W	R403	301 224 8814	MT-GLAZE	100	JA 1/16W

Electrical Parts List

Key No. Part No. Description						Key No. Part No. Description					
R4031	301	225	8110	MT-GLAZE	10 JA 1/16W	R5207	301	225	8110	MT-GLAZE	10 JA 1/16W
R4032	301	225	8110	MT-GLAZE	10 JA 1/16W	R5208	301	224	8814	MT-GLAZE	100 JA 1/16W
R406	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R5209	301	224	8814	MT-GLAZE	100 JA 1/16W
R407	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R521	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R408	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R5211	301	224	8814	MT-GLAZE	100 JA 1/16W
R410	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R5212	301	224	8814	MT-GLAZE	100 JA 1/16W
R412	301	225	1814	MT-GLAZE	47 JA 1/16W	R5213	301	225	1814	MT-GLAZE	47 JA 1/16W
R414	301	225	1814	MT-GLAZE	47 JA 1/16W	R5215	301	225	3818	MT-GLAZE	1.5K JA 1/16W
R416	301	225	1814	MT-GLAZE	47 JA 1/16W	R5218	945	040	6448	INDUCTOR,3.3U M	
R418	301	225	1814	MT-GLAZE	47 JA 1/16W	R522	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R419	301	225	1814	MT-GLAZE	47 JA 1/16W	R5223	301	224	9316	MT-GLAZE	1K JA 1/16W
R422	301	225	1814	MT-GLAZE	47 JA 1/16W	R5224	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R423	301	225	1814	MT-GLAZE	47 JA 1/16W	R5226	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R424	301	225	1210	MT-GLAZE	4.7K JA 1/16W	R5228	301	224	9316	MT-GLAZE	1K JA 1/16W
R425	301	150	6014	MT-GLAZE	0.000 ZA 1/10W	R5229	301	036	9610	MT-GLAZE	56 JA 1/8W
R426	301	224	9019	MT-GLAZE	10K JA 1/16W	R5231	301	036	9610	MT-GLAZE	56 JA 1/8W
R427	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R5232	301	036	9610	MT-GLAZE	56 JA 1/8W
R4803	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R5233	301	150	6014	MT-GLAZE	0.000 ZA 1/10W
R4834	301	224	9514	MT-GLAZE	2.2K JA 1/16W	R5234	301	150	6014	MT-GLAZE	0.000 ZA 1/10W
R4836	301	037	5017	MT-GLAZE	0.000 ZA 1/10W	R5236	301	150	6014	MT-GLAZE	0.000 ZA 1/10W
R4860	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R5238	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R4861	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R5239	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R4862	301	037	5215	MT-GLAZE	100 JA 1/10W	R5240	301	162	2219	MT-GLAZE	10 JA 1/10W
R4863	301	224	8814	MT-GLAZE	100 JA 1/16W	R5241	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R5001	301	037	5017	MT-GLAZE	0.000 ZA 1/10W	R5248	301	150	6014	MT-GLAZE	0.000 ZA 1/10W
R5002	301	225	8110	MT-GLAZE	10 JA 1/16W	R5251	301	150	6014	MT-GLAZE	0.000 ZA 1/10W
R5003	301	225	8110	MT-GLAZE	10 JA 1/16W	R5253	301	150	6014	MT-GLAZE	0.000 ZA 1/10W
R5004	301	224	8913	MT-GLAZE	100K JA 1/16W	R5254	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R5005	301	224	8913	MT-GLAZE	100K JA 1/16W	R5255	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R5006	301	224	8913	MT-GLAZE	100K JA 1/16W	R5256	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R5007	301	224	8913	MT-GLAZE	100K JA 1/16W	R5302	301	240	9710	MT-GLAZE	820K JA 1/16W
R5031	301	224	8814	MT-GLAZE	100 JA 1/16W	R5303	301	224	9316	MT-GLAZE	1K JA 1/16W
R5032	301	224	8814	MT-GLAZE	100 JA 1/16W	R5304	301	224	9316	MT-GLAZE	1K JA 1/16W
R5033	301	225	0213	MT-GLAZE	3.3K JA 1/16W	R5306	301	162	2219	MT-GLAZE	10 JA 1/10W
R5034	301	224	9316	MT-GLAZE	1K JA 1/16W	R5307	301	224	9019	MT-GLAZE	10K JA 1/16W
R5036	301	225	0213	MT-GLAZE	3.3K JA 1/16W	R5308	301	224	9316	MT-GLAZE	1K JA 1/16W
R5037	301	224	9316	MT-GLAZE	1K JA 1/16W	R5312	301	224	9316	MT-GLAZE	1K JA 1/16W
R5039	301	229	7218	MT-GLAZE	18K JA 1/16W	R5331	301	240	9710	MT-GLAZE	820K JA 1/16W
R5040	301	224	9019	MT-GLAZE	10K JA 1/16W	R5332	301	224	9316	MT-GLAZE	1K JA 1/16W
R5041	301	224	9316	MT-GLAZE	1K JA 1/16W	R5333	301	224	9316	MT-GLAZE	1K JA 1/16W
R5042	301	224	9316	MT-GLAZE	1K JA 1/16W	R5334	301	224	9019	MT-GLAZE	10K JA 1/16W
R5044	301	224	9019	MT-GLAZE	10K JA 1/16W	R5336	301	224	9316	MT-GLAZE	1K JA 1/16W
R5046	301	224	9019	MT-GLAZE	10K JA 1/16W	R5337	301	224	9316	MT-GLAZE	1K JA 1/16W
R5047	301	224	9613	MT-GLAZE	2.7K JA 1/16W	R5338	301	226	2414	MT-GLAZE	560 JA 1/16W
R5048	301	224	9316	MT-GLAZE	1K JA 1/16W	R5341	301	162	2219	MT-GLAZE	10 JA 1/10W
R5051	301	224	9019	MT-GLAZE	10K JA 1/16W	R5342	301	037	5017	MT-GLAZE	0.000 ZA 1/10W
R5052	301	224	9910	MT-GLAZE	22K JA 1/16W	R5344	301	225	0718	MT-GLAZE	56K JA 1/16W
R5053	301	224	9910	MT-GLAZE	22K JA 1/16W	R5345	301	224	9316	MT-GLAZE	1K JA 1/16W
R506	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R5351	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R5061	301	224	9316	MT-GLAZE	1K JA 1/16W	R536	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R5062	301	225	0213	MT-GLAZE	3.3K JA 1/16W	R537	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R5063	301	224	9316	MT-GLAZE	1K JA 1/16W	R540	301	294	3115	MT-GLAZE	1K FA 1/16W
R5064	301	224	9316	MT-GLAZE	1K JA 1/16W	R541	301	225	8110	MT-GLAZE	10 JA 1/16W
R5066	301	225	0213	MT-GLAZE	3.3K JA 1/16W	R549	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R5067	301	224	9316	MT-GLAZE	1K JA 1/16W	R550	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R5069	301	224	9316	MT-GLAZE	1K JA 1/16W	R551	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R507	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R552	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R5082	301	224	9316	MT-GLAZE	1K JA 1/16W	R5601	301	224	9316	MT-GLAZE	1K JA 1/16W
R510	301	294	3115	MT-GLAZE	1K FA 1/16W	R5611	301	224	8814	MT-GLAZE	100 JA 1/16W
R511	301	225	8110	MT-GLAZE	10 JA 1/16W	R5620	301	190	1710	MT-GLAZE	0.000 ZA 1W
R519	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R5621	301	190	1710	MT-GLAZE	0.000 ZA 1W
R520	301	226	1516	MT-GLAZE	0.000 ZA 1/16W	R5625	301	198	7912	MT-GLAZE	47 JA 1W
R5201	301	225	8110	MT-GLAZE	10 JA 1/16W	R5626	301	198	7912	MT-GLAZE	47 JA 1W
R5202	301	225	8110	MT-GLAZE	10 JA 1/16W	R5627	301	198	7912	MT-GLAZE	47 JA 1W
R5203	301	225	8110	MT-GLAZE	10 JA 1/16W	R5641	301	224	9316	MT-GLAZE	1K JA 1/16W
R5204	301	225	8110	MT-GLAZE	10 JA 1/16W	R566	301	226	1516	MT-GLAZE	0.000 ZA 1/16W
R5206	301	225	8110	MT-GLAZE	10 JA 1/16W	R567	301	226	1516	MT-GLAZE	0.000 ZA 1/16W

Electrical Parts List

Key No. Part No. Description						Key No. Part No. Description					
R570	301 294 3115	MT-GLAZE	1K FA	1/16W		R6857	301 225 1616	MT-GLAZE	390 JA	1/16W	
R5701	301 294 3016	MT-GLAZE	10K FA	1/16W		R6858	301 225 1616	MT-GLAZE	390 JA	1/16W	
R5702	301 294 4419	MT-GLAZE	1.8K FA	1/16W		R6859	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
R5703	301 301 0410	MT-GLAZE	240 FA	1/16W		R6863	301 225 3818	MT-GLAZE	1.5K JA	1/16W	
R5705	301 224 9316	MT-GLAZE	1K JA	1/16W		R6864	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
R571	301 225 8110	MT-GLAZE	10 JA	1/16W		R6865	301 224 9316	MT-GLAZE	1K JA	1/16W	
R579	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R6866	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
R580	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R699	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
R5801	301 294 3511	MT-GLAZE	27K FA	1/16W		R7801	301 224 9019	MT-GLAZE	10K JA	1/16W	
R5802	301 224 8913	MT-GLAZE	100K JA	1/16W		R7803	301 224 9019	MT-GLAZE	10K JA	1/16W	
R5803	301 294 3016	MT-GLAZE	10K FA	1/16W		R7805	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
R5804	301 224 9019	MT-GLAZE	10K JA	1/16W		R7816	301 225 8110	MT-GLAZE	10 JA	1/16W	
R5806	301 225 2118	MT-GLAZE	12K JA	1/16W		R7818	301 294 3016	MT-GLAZE	10K FA	1/16W	
R5807	301 037 5017	MT-GLAZE	0.000 ZA	1/10W		R7819	301 224 8913	MT-GLAZE	100K JA	1/16W	
R5808	301 224 9019	MT-GLAZE	10K JA	1/16W		R7821	301 294 3511	MT-GLAZE	27K FA	1/16W	
R5809	301 224 9019	MT-GLAZE	10K JA	1/16W		R7824	301 294 2811	MT-GLAZE	2.2K FA	1/16W	
R581	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R7828	301 224 9019	MT-GLAZE	10K JA	1/16W	
R5811	301 224 8913	MT-GLAZE	100K JA	1/16W		R7829	301 224 9316	MT-GLAZE	1K JA	1/16W	
R5812	301 224 8913	MT-GLAZE	100K JA	1/16W		R7831	301 224 9316	MT-GLAZE	1K JA	1/16W	
R5813	301 294 3511	MT-GLAZE	27K FA	1/16W		R7832	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
R5814	301 294 3016	MT-GLAZE	10K FA	1/16W		R7833	301 225 0213	MT-GLAZE	3.3K JA	1/16W	
R582	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R7834	301 286 4717	MT-GLAZE	30K JA	1/16W	
R5821	301 225 1418	MT-GLAZE	47K JA	1/16W		R7843	301 241 0211	MT-GLAZE	3.3M JA	1/16W	
R5823	301 225 0213	MT-GLAZE	3.3K JA	1/16W		R7846	301 225 8110	MT-GLAZE	10 JA	1/16W	
R5824	301 287 2227	MT-GLAZE	22K FA	1/16W		R7848	301 224 9019	MT-GLAZE	10K JA	1/16W	
R5826	301 338 8113	MT-GLAZE	1.2K FA	1/16W		R7849	301 224 8913	MT-GLAZE	100K JA	1/16W	
R5827	301 294 3016	MT-GLAZE	10K FA	1/16W		R7850	301 286 4717	MT-GLAZE	30K JA	1/16W	
R5841	301 225 1418	MT-GLAZE	47K JA	1/16W		R7851	301 294 3511	MT-GLAZE	27K FA	1/16W	
R5843	301 225 0213	MT-GLAZE	3.3K JA	1/16W		R7854	301 294 4419	MT-GLAZE	1.8K FA	1/16W	
R5844	301 294 3313	MT-GLAZE	15K FA	1/16W		R7858	301 224 9019	MT-GLAZE	10K JA	1/16W	
R5846	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R7859	301 235 1415	MT-GLAZE	1.2K JA	1/16W	
R5847	301 294 3016	MT-GLAZE	10K FA	1/16W		R7863	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
R586	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R7866	301 225 8110	MT-GLAZE	10 JA	1/16W	
R5861	301 225 1418	MT-GLAZE	47K JA	1/16W		R7869	301 224 8913	MT-GLAZE	100K JA	1/16W	
R5863	301 225 0213	MT-GLAZE	3.3K JA	1/16W		R7871	301 294 3511	MT-GLAZE	27K FA	1/16W	
R5864	301 294 2613	MT-GLAZE	4.7K FA	1/16W		R7874	301 294 2811	MT-GLAZE	2.2K FA	1/16W	
R5866	301 301 8119	MT-GLAZE	3.9K FA	1/16W		R7878	301 224 9019	MT-GLAZE	10K JA	1/16W	
R5867	301 294 3016	MT-GLAZE	10K FA	1/16W		R7879	301 224 9316	MT-GLAZE	1K JA	1/16W	
R587	301 224 9019	MT-GLAZE	10K JA	1/16W		R7881	301 224 9316	MT-GLAZE	1K JA	1/16W	
R590	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R7882	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
R593	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R7883	301 225 0213	MT-GLAZE	3.3K JA	1/16W	
R594	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R7884	301 286 4717	MT-GLAZE	30K JA	1/16W	
R596	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R7891	301 224 9316	MT-GLAZE	1K JA	1/16W	
R6800	301 225 1517	MT-GLAZE	3.9K JA	1/16W		R7892	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
R6801	301 225 0213	MT-GLAZE	3.3K JA	1/16W		R7893	301 240 5613	MT-GLAZE	3K JA	1/16W	
R6802	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R801	301 224 9019	MT-GLAZE	10K JA	1/16W	
R6803	301 224 9019	MT-GLAZE	10K JA	1/16W		R802	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
R6804	301 225 0213	MT-GLAZE	3.3K JA	1/16W		R803	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
R6806	301 224 9217	MT-GLAZE	15K JA	1/16W		R804	301 224 9019	MT-GLAZE	10K JA	1/16W	
R6807	301 234 9917	MT-GLAZE	6.8K JA	1/16W		R807	301 224 9019	MT-GLAZE	10K JA	1/16W	
R6808	301 225 1517	MT-GLAZE	3.9K JA	1/16W		R808	301 224 9019	MT-GLAZE	10K JA	1/16W	
R6809	301 225 0213	MT-GLAZE	3.3K JA	1/16W		R809	301 225 8516	MT-GLAZE	1.8K JA	1/16W	
R6811	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R8101	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
R6812	301 225 0213	MT-GLAZE	3.3K JA	1/16W		R8102	301 225 1210	MT-GLAZE	4.7K JA	1/16W	
R6813	301 224 9019	MT-GLAZE	10K JA	1/16W		R8103	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
R6818	301 234 9917	MT-GLAZE	6.8K JA	1/16W		R8104	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
R6821	301 226 1516	MT-GLAZE	0.000 ZA	1/16W		R8106	301 224 9019	MT-GLAZE	10K JA	1/16W	
R6822	301 225 0213	MT-GLAZE	3.3K JA	1/16W		R8113	301 224 9019	MT-GLAZE	10K JA	1/16W	
R6823	301 224 9019	MT-GLAZE	10K JA	1/16W		R8114	301 224 9316	MT-GLAZE	1K JA	1/16W	
R6841	301 225 8011	MT-GLAZE	330 JA	1/16W		R812	301 224 9019	MT-GLAZE	10K JA	1/16W	
R6843	301 225 8011	MT-GLAZE	330 JA	1/16W		R8130	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
R6846	301 225 1210	MT-GLAZE	4.7K JA	1/16W		R8131	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
R6848	301 225 2019	MT-GLAZE	680 JA	1/16W		R8132	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
R6849	301 225 2019	MT-GLAZE	680 JA	1/16W		R8133	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
R6851	301 225 1210	MT-GLAZE	4.7K JA	1/16W		R8134	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	
R6853	301 225 1319	MT-GLAZE	470 JA	1/16W		R839	301 225 0213	MT-GLAZE	3.3K JA	1/16W	
R6854	301 225 1210	MT-GLAZE	4.7K JA	1/16W		R8811	301 225 8110	MT-GLAZE	10 JA	1/16W	

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R8812	301 225 8110	MT-GLAZE 10 JA 1/16W	L2501	945 041 1978	INDUCTOR,330 OHM
R8821	301 225 8110	MT-GLAZE 10 JA 1/16W	L2502	945 041 1978	INDUCTOR,330 OHM
R8822	301 225 8110	MT-GLAZE 10 JA 1/16W	L2531	945 041 1978	INDUCTOR,330 OHM
R891	301 224 8814	MT-GLAZE 100 JA 1/16W	L2532	945 041 1978	INDUCTOR,330 OHM
R9882	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	L2561	945 041 1978	INDUCTOR,330 OHM
RB2502	945 037 0817	R-NETWORK 0X4 1/16W	L2562	945 041 1978	INDUCTOR,330 OHM
RB2503	945 037 0817	R-NETWORK 0X4 1/16W	L2892	945 086 5368	IMPEDANCE,220 OHM P
RB2504	945 037 0817	R-NETWORK 0X4 1/16W	L341	945 086 5368	IMPEDANCE,220 OHM P
RB301	945 037 0831	R-NETWORK 47X4 1/16W	L351	945 086 5368	IMPEDANCE,220 OHM P
RB302	945 037 0831	R-NETWORK 47X4 1/16W	L352	945 086 5368	IMPEDANCE,220 OHM P
RB303	945 037 0831	R-NETWORK 47X4 1/16W	L353	945 086 5368	IMPEDANCE,220 OHM P
RB304	945 037 0831	R-NETWORK 47X4 1/16W	L3530	945 041 1978	INDUCTOR,330 OHM
RB306	945 037 0831	R-NETWORK 47X4 1/16W	L3532	945 041 1978	INDUCTOR,330 OHM
RB307	945 037 0831	R-NETWORK 47X4 1/16W	L3533	945 041 1978	INDUCTOR,330 OHM
RB308	945 037 0831	R-NETWORK 47X4 1/16W	L3534	945 041 2210	INDUCTOR,0.12U K
RB309	945 037 0831	R-NETWORK 47X4 1/16W	L354	945 086 5368	IMPEDANCE,220 OHM P
RB411	945 037 0831	R-NETWORK 47X4 1/16W	L356	945 086 5368	IMPEDANCE,220 OHM P
RB412	945 037 0831	R-NETWORK 47X4 1/16W	L357	945 086 5368	IMPEDANCE,220 OHM P
RB413	945 037 0831	R-NETWORK 47X4 1/16W	L3580	945 041 1978	INDUCTOR,330 OHM
RB414	945 037 0831	R-NETWORK 47X4 1/16W	L361	945 086 5368	IMPEDANCE,220 OHM P
RB416	945 037 0831	R-NETWORK 47X4 1/16W	L362	945 086 5368	IMPEDANCE,220 OHM P
RB417	945 037 0831	R-NETWORK 47X4 1/16W	L3620	945 086 5368	IMPEDANCE,220 OHM P
RB418	945 037 0831	R-NETWORK 47X4 1/16W	L3621	945 086 5368	IMPEDANCE,220 OHM P
RB419	945 037 0831	R-NETWORK 47X4 1/16W	L3622	945 086 5368	IMPEDANCE,220 OHM P
RB421	945 037 0831	R-NETWORK 47X4 1/16W	L3624	945 086 5368	IMPEDANCE,220 OHM P
RB422	945 037 0831	R-NETWORK 47X4 1/16W	L3626	945 086 5368	IMPEDANCE,220 OHM P
RB423	945 037 0831	R-NETWORK 47X4 1/16W	L3627	945 086 5368	IMPEDANCE,220 OHM P
RB424	945 037 0831	R-NETWORK 47X4 1/16W	L363	945 086 5368	IMPEDANCE,220 OHM P
RB426	945 037 0831	R-NETWORK 47X4 1/16W	L3630	945 086 5368	IMPEDANCE,220 OHM P
RB427	945 037 0831	R-NETWORK 47X4 1/16W	L3631	945 086 5368	IMPEDANCE,220 OHM P
RB428	945 037 0831	R-NETWORK 47X4 1/16W	L3632	945 086 5368	IMPEDANCE,220 OHM P
RB429	945 037 0831	R-NETWORK 47X4 1/16W	L3634	945 086 5368	IMPEDANCE,220 OHM P
RB431	945 037 0831	R-NETWORK 47X4 1/16W	L3636	945 086 5368	IMPEDANCE,220 OHM P
RB432	945 037 0831	R-NETWORK 47X4 1/16W	L3637	945 086 5368	IMPEDANCE,220 OHM P
RB433	945 037 0831	R-NETWORK 47X4 1/16W	L366	945 086 5368	IMPEDANCE,220 OHM P
RB434	945 037 0831	R-NETWORK 47X4 1/16W	L368	945 086 5368	IMPEDANCE,220 OHM P
RB436	945 037 0831	R-NETWORK 47X4 1/16W	L4001	945 086 7577	FILTER,EMI 400MHZ
RB437	945 037 0831	R-NETWORK 47X4 1/16W	L4002	945 086 7577	FILTER,EMI 400MHZ
RB501	645 071 9592	R-NETWORK 0X4 1/32W	L4003	945 086 7577	FILTER,EMI 400MHZ
	945 036 3529	R-NETWORK 0X4 1/32W	L4004	945 086 7577	FILTER,EMI 400MHZ
	945 037 0817	R-NETWORK 0X4 1/16W	L4006	945 086 7577	FILTER,EMI 400MHZ
RB502	645 071 9592	R-NETWORK 0X4 1/32W	L402	945 041 1978	INDUCTOR,330 OHM
	945 036 3529	R-NETWORK 0X4 1/32W	L4031	945 086 7454	FILTER,EMI 50MHZ
	945 037 0817	R-NETWORK 0X4 1/16W	L4032	945 086 7454	FILTER,EMI 50MHZ
RB503	645 071 9592	R-NETWORK 0X4 1/32W	L4801	945 086 5368	IMPEDANCE,220 OHM P
	945 036 3529	R-NETWORK 0X4 1/32W	L4802	945 086 5368	IMPEDANCE,220 OHM P
	945 037 0817	R-NETWORK 0X4 1/16W	L4803	945 086 5368	IMPEDANCE,220 OHM P
RB531	645 071 9592	R-NETWORK 0X4 1/32W	L4804	945 086 5368	IMPEDANCE,220 OHM P
	945 036 3529	R-NETWORK 0X4 1/32W	L4861	945 086 5368	IMPEDANCE,220 OHM P
	945 037 0817	R-NETWORK 0X4 1/16W	L4862	945 086 5368	IMPEDANCE,220 OHM P
RB532	645 071 9592	R-NETWORK 0X4 1/32W	L501	945 041 1978	INDUCTOR,330 OHM
	945 036 3529	R-NETWORK 0X4 1/32W	L5200	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
	945 037 0817	R-NETWORK 0X4 1/16W	L531	945 041 1978	INDUCTOR,330 OHM
RB533	645 071 9592	R-NETWORK 0X4 1/32W	L5332	945 032 8344	INDUCTOR,39U J
	945 036 3529	R-NETWORK 0X4 1/32W	L5601	945 086 5368	IMPEDANCE,220 OHM P
	945 037 0817	R-NETWORK 0X4 1/16W	L561	945 041 1978	INDUCTOR,330 OHM
RB561	645 071 9592	R-NETWORK 0X4 1/32W	L5662	945 041 1978	INDUCTOR,330 OHM
	945 036 3529	R-NETWORK 0X4 1/32W	L5821	945 062 2930	INDUCTOR,10U M
	945 037 0817	R-NETWORK 0X4 1/16W	L5822	945 041 1978	INDUCTOR,330 OHM
RB562	645 071 9592	R-NETWORK 0X4 1/32W	L5828	945 041 1978	INDUCTOR,330 OHM
	945 036 3529	R-NETWORK 0X4 1/32W	L5841	945 062 2930	INDUCTOR,10U M
	945 037 0817	R-NETWORK 0X4 1/16W	L5848	945 041 1978	INDUCTOR,330 OHM
RB563	645 071 9592	R-NETWORK 0X4 1/32W	L5861	945 062 2930	INDUCTOR,10U M
	945 036 3529	R-NETWORK 0X4 1/32W	L5868	945 041 1978	INDUCTOR,330 OHM
	945 037 0817	R-NETWORK 0X4 1/16W	L7811	945 062 2855	INDUCTOR,33U M
COIL			L7841	945 062 2855	INDUCTOR,33U M
			L7861	945 062 2855	INDUCTOR,33U M

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
L8079	945 041 1978	INDUCTOR,330 OHM	D5201	307 210 5416	DIODE RB551V-30-TE-17
L8801	945 086 5368	IMPEDANCE,220 OHM P	D5202	307 210 5416	DIODE RB551V-30-TE-17
L8802	945 086 5368	IMPEDANCE,220 OHM P	D5203	307 210 5416	DIODE RB551V-30-TE-17
L8803	945 086 5368	IMPEDANCE,220 OHM P	D5204	307 210 5416	DIODE RB551V-30-TE-17
DIODE			D5622	307 163 0414	DIODE 1SS352- (TPH3)
D1024	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)		307 149 0810	DIODE 1SS355-TE-17
D1026	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)		408 062 7201	DIODE 1SS35
D1034	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	D5623	307 163 0414	DIODE 1SS352- (TPH3)
D1036	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)		307 149 0810	DIODE 1SS355-TE-17
D1041	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)		408 062 7201	DIODE 1SS35
	307 209 1214	ZD UDZS-TE-176.2B	D5624	307 163 0414	DIODE 1SS352- (TPH3)
D1042	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)		307 149 0810	DIODE 1SS355-TE-17
	307 209 1214	ZD UDZS-TE-176.2B		408 062 7201	DIODE 1SS35
D1091	307 205 5216	DIODE RB521S-30-TE61	D5684	307 254 2716	DIODE CMS16
D1092	307 205 5216	DIODE RB521S-30-TE61	D5703	307 163 0414	DIODE 1SS352- (TPH3)
D2071	307 163 0414	DIODE 1SS352- (TPH3)		307 149 0810	DIODE 1SS355-TE-17
	408 062 7201	DIODE 1SS35		408 062 7201	DIODE 1SS35
D2891	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	D5704	307 163 0414	DIODE 1SS352- (TPH3)
D2892	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)		307 149 0810	DIODE 1SS355-TE-17
D3601	307 163 0414	DIODE 1SS352- (TPH3)		408 062 7201	DIODE 1SS35
	307 149 0810	DIODE 1SS355-TE-17	D5821	307 254 2716	DIODE CMS16
	408 062 7201	DIODE 1SS35	D5861	307 254 2716	DIODE CMS16
D3602	307 163 0414	DIODE 1SS352- (TPH3)	D6801	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
	307 149 0810	DIODE 1SS355-TE-17	D6802	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
	408 062 7201	DIODE 1SS35	D6803	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
D3606	307 163 0414	DIODE 1SS352- (TPH3)	D6804	303 358 3215	CERAMIC 10U K 6.3V
	307 149 0810	DIODE 1SS355-TE-17		303 370 0018	CERAMIC 10U K 6.3V
	408 062 7201	DIODE 1SS35	D6831	307 209 7513	LED SML-210YT T86 L
D3611	307 163 0414	DIODE 1SS352- (TPH3)	D6832	307 203 7816	LED SML-210LT T86 M
	307 149 0810	DIODE 1SS355-TE-17	D6833	307 222 4810	LED SML-521MUW T86
	408 062 7201	DIODE 1SS35	D6841	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
D3613	307 163 0414	DIODE 1SS352- (TPH3)	D6842	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
	307 149 0810	DIODE 1SS355-TE-17	D6843	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
	408 062 7201	DIODE 1SS35	D6844	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
D3614	307 163 0414	DIODE 1SS352- (TPH3)	D7812	307 254 2716	DIODE CMS16
	307 149 0810	DIODE 1SS355-TE-17		307 201 2724	DIODE RB051L-40-TE25
	408 062 7201	DIODE 1SS35	D7842	307 254 2716	DIODE CMS16
D3617	307 163 0414	DIODE 1SS352- (TPH3)	D7862	307 254 2716	DIODE CMS16
	408 062 7201	DIODE 1SS35		307 201 2724	DIODE RB051L-40-TE25
D3618	307 163 0414	DIODE 1SS352- (TPH3)	D8161	307 205 5216	DIODE RB521S-30-TE61
	408 062 7201	DIODE 1SS35	D8162	307 205 5216	DIODE RB521S-30-TE61
D3621	307 163 0414	DIODE 1SS352- (TPH3)	D8163	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
	408 062 7201	DIODE 1SS35	MISCELLANEOUS		
D3622	307 163 0414	DIODE 1SS352- (TPH3)	FB2891	945 086 6037	IMPEDANCE,330 OHM P
	408 062 7201	DIODE 1SS35	FB3620	945 086 6037	IMPEDANCE,330 OHM P
D3623	307 163 0414	DIODE 1SS352- (TPH3)	FB3621	945 086 6037	IMPEDANCE,330 OHM P
	408 062 7201	DIODE 1SS35	FB3622	945 086 6037	IMPEDANCE,330 OHM P
D3626	307 163 0414	DIODE 1SS352- (TPH3)	FB3624	945 086 6037	IMPEDANCE,330 OHM P
	408 062 7201	DIODE 1SS35	FB3626	945 086 6037	IMPEDANCE,330 OHM P
D3627	307 163 0414	DIODE 1SS352- (TPH3)	FB3627	945 086 6037	IMPEDANCE,330 OHM P
	408 062 7201	DIODE 1SS35	FB4801	945 086 6037	IMPEDANCE,330 OHM P
D3628	307 163 0414	DIODE 1SS352- (TPH3)	FB602	945 041 1978	INDUCTOR,330 OHM
	408 062 7201	DIODE 1SS35	FB603	945 041 1978	INDUCTOR,330 OHM
D3644	307 163 0414	DIODE 1SS352- (TPH3)	FB604	945 041 1978	INDUCTOR,330 OHM
	408 062 7201	DIODE 1SS35	FB605	945 041 1978	INDUCTOR,330 OHM
D4812	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	FB606	945 041 1978	INDUCTOR,330 OHM
D4813	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	FB607	945 041 1978	INDUCTOR,330 OHM
D5053	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	FB609	945 041 1978	INDUCTOR,330 OHM
D5054	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	FB8801	945 086 6037	IMPEDANCE,330 OHM P
D5061	307 163 0414	DIODE 1SS352- (TPH3)	K10B	645 089 7696	SOCKET,D-SUB 15P
	307 149 0810	DIODE 1SS355-TE-17	K10C	645 089 7696	SOCKET,D-SUB 15P
	408 062 7201	DIODE 1SS35	K40A	645 089 7702	SOCKET,D-SUB 15P
D5062	307 163 0414	DIODE 1SS352- (TPH3)	K40B	945 078 1613	SOCKET,DIN 8P
	307 149 0810	DIODE 1SS355-TE-17		952 001 8427	SOCKET,DIN 8P
	408 062 7201	DIODE 1SS35	SC1021	945 076 3503	SURGE-ABSORBER
			SC1022	945 076 3503	SURGE-ABSORBER

Electrical Parts List

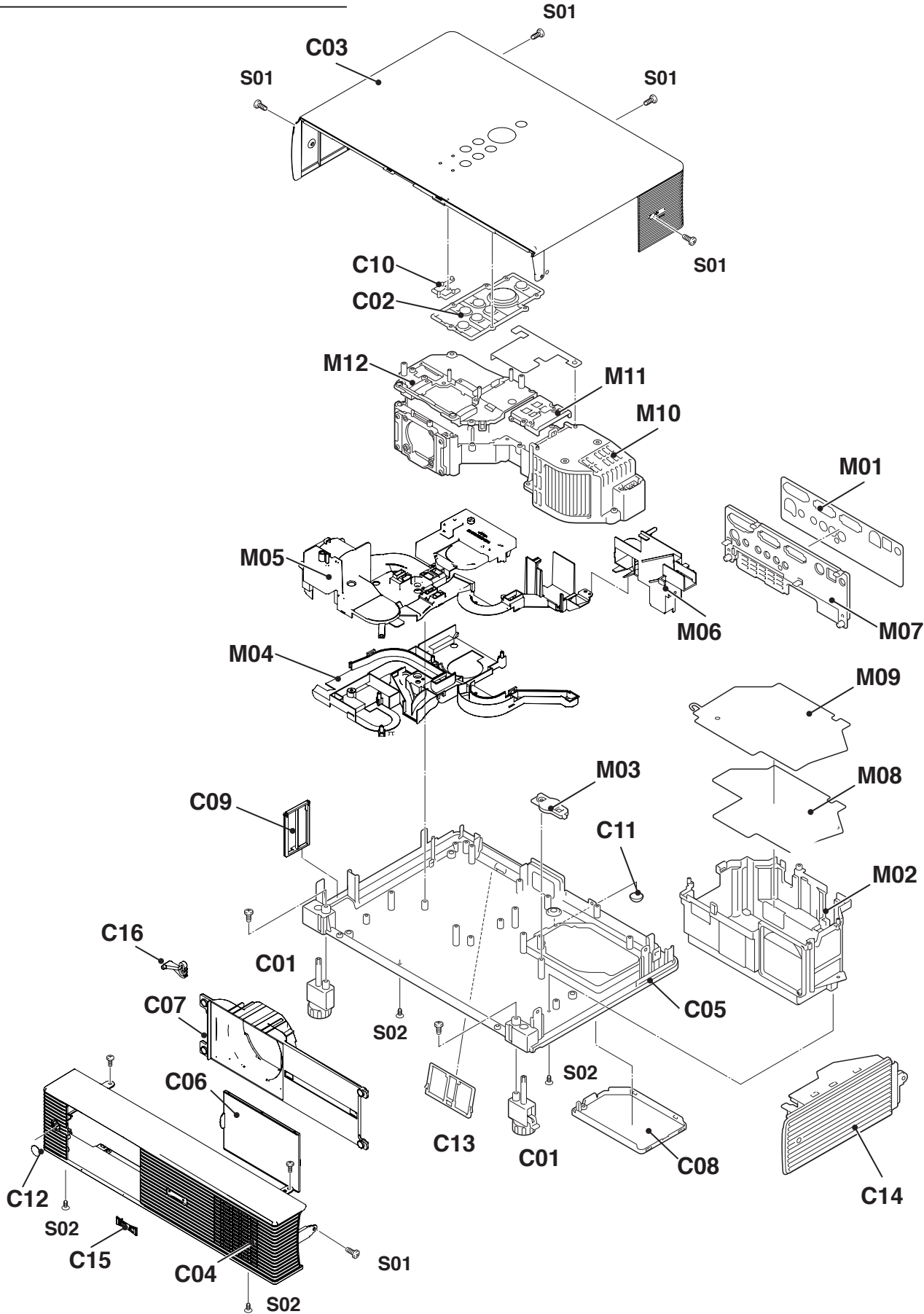
Key No.	Part No.	Description	Key No.	Part No.	Description
SC1023	945 076 3503	SURGE-ABSORBER	R2061	301 255 6513	MT-GLAZE 100 JA 1/10W
SC1031	945 076 3503	SURGE-ABSORBER	R2062	301 255 6513	MT-GLAZE 100 JA 1/10W
SC1032	945 076 3503	SURGE-ABSORBER	R2063	301 150 5819	MT-GLAZE 100K JA 1/10W
SC1033	945 076 3503	SURGE-ABSORBER	R2064	301 150 5819	MT-GLAZE 100K JA 1/10W
SC4001	945 076 3503	SURGE-ABSORBER	COIL		
SC4002	945 076 3503	SURGE-ABSORBER	L2001	945 086 7461	FILTER,EMI 100MHZ
SC4003	945 076 3503	SURGE-ABSORBER	L2011	945 086 7461	FILTER,EMI 100MHZ
SC4004	945 076 3503	SURGE-ABSORBER	L2021	945 086 7461	FILTER,EMI 100MHZ
SC4006	945 076 3503	SURGE-ABSORBER	L2031	945 086 7461	FILTER,EMI 100MHZ
SC4031	945 076 3503	SURGE-ABSORBER	L2051	945 086 7454	FILTER,EMI 50MHZ
SC4032	945 076 3503	SURGE-ABSORBER	L2052	945 086 7454	FILTER,EMI 50MHZ
SC5608	945 076 3503	SURGE-ABSORBER	L2056	945 086 7454	FILTER,EMI 50MHZ
SW6800	945 026 2792	SWITCH,PUSH 1P-1TX1	L2057	945 086 7454	FILTER,EMI 50MHZ
	952 001 8830	SWITCH,PUSH 1P-1TX1	L2061	945 086 7454	FILTER,EMI 50MHZ
SW6801	945 026 2792	SWITCH,PUSH 1P-1TX1	L2062	945 086 7454	FILTER,EMI 50MHZ
	952 001 8830	SWITCH,PUSH 1P-1TX1	DIODE		
SW6802	945 026 2792	SWITCH,PUSH 1P-1TX1	D2031	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
	952 001 8830	SWITCH,PUSH 1P-1TX1		307 221 7119	ZENER DIODE UDZS-TE-1712B
SW6803	945 026 2792	SWITCH,PUSH 1P-1TX1	MISCELLANEOUS		
	952 001 8830	SWITCH,PUSH 1P-1TX1	K20A	645 089 9041	SOCKET,DIN 4P
SW6804	945 026 2792	SWITCH,PUSH 1P-1TX1	K20B	945 068 3740	JACK,RCA-3
	952 001 8830	SWITCH,PUSH 1P-1TX1	K20C	945 006 4792	JACK,PHONE D3.6
SW6806	945 026 2792	SWITCH,PUSH 1P-1TX1		952 001 0070	JACK,PHONE D3.6
	952 001 8830	SWITCH,PUSH 1P-1TX1		952 001 0971	JACK,PHONE D3.5
SW6807	945 026 2792	SWITCH,PUSH 1P-1TX1	K20D	945 006 4792	JACK,PHONE D3.6
	952 001 8830	SWITCH,PUSH 1P-1TX1		952 001 0070	JACK,PHONE D3.6
SW6808	945 026 2792	SWITCH,PUSH 1P-1TX1		952 001 0971	JACK,PHONE D3.5
	952 001 8830	SWITCH,PUSH 1P-1TX1	SC2001	945 076 3503	SURGE-ABSORBER
SW6809	945 026 2792	SWITCH,PUSH 1P-1TX1	SC2011	945 076 3503	SURGE-ABSORBER
	952 001 8830	SWITCH,PUSH 1P-1TX1	SC2021	945 076 3503	SURGE-ABSORBER
SW6811	945 026 2792	SWITCH,PUSH 1P-1TX1	SC2031	945 076 3503	SURGE-ABSORBER
	952 001 8830	SWITCH,PUSH 1P-1TX1	SC2051	945 076 3503	SURGE-ABSORBER
X341	945 088 7179	OSC,CRYSTAL 27.0MHZ	SC2052	945 076 3503	SURGE-ABSORBER
XL1021	945 086 7577	FILTER,EMI 400MHZ	SC2056	945 076 3503	SURGE-ABSORBER
XL1022	945 086 7577	FILTER,EMI 400MHZ	SC2057	945 076 3503	SURGE-ABSORBER
XL1023	945 086 7577	FILTER,EMI 400MHZ	SC2058	945 076 3503	SURGE-ABSORBER
XL1024	945 086 7560	FILTER,EMI 200MHZ	SC2059	945 076 3503	SURGE-ABSORBER
XL1026	945 086 7560	FILTER,EMI 200MHZ	655 002 1663 ASSY,PWB,LAMP COVER SW KG3AC		
XL1031	945 086 7577	FILTER,EMI 400MHZ	△SW901	945 063 5176	SWITCH,PUSH 2P-2TX3
XL1032	945 086 7577	FILTER,EMI 400MHZ	PACKING MATERIALS		
XL1033	945 086 7577	FILTER,EMI 400MHZ		610 338 8984	CARTON CASE-KG3BC
XL1034	945 086 7560	FILTER,EMI 200MHZ		610 340 0273	POLY BAG-PT5EC
XL1036	945 086 7560	FILTER,EMI 200MHZ		610 336 8221	CUSHION SPACER -KB3AC
655 002 1649 ASSY,PWB,AV KG3AC				610 339 5463	CUSHION -KB3AC
CAPACITOR			ACCESSORIES		
C2031	303 367 0410	CERAMIC 0.1U K 50V	OWNER'S MANUAL		
	303 370 1510	CERAMIC 0.1U K 50V		610 338 4450	CD-ROM,OWNERS MANUAL-KG3BC
C2061	303 157 3614	CERAMIC 100P J 50V		655 002 3513	SETUP INST-KG3BC
C2062	303 157 3614	CERAMIC 100P J 50V	REMOTE CONTROL		
RESISTOR				945 086 4972	ASSY,REMOCON CXVP
R2001	301 260 4115	MT-GLAZE 75 JA 1/3W		910 321 4482	RC-BATTERY LID-CXTJ
R2003	301 150 6014	MT-GLAZE 0.000 ZA 1/10W	△AC CORD		
R2008	301 150 6014	MT-GLAZE 0.000 ZA 1/10W		US	945 064 6363
R2011	301 260 4115	MT-GLAZE 75 JA 1/3W			
R2012	301 150 6014	MT-GLAZE 0.000 ZA 1/10W			
R2021	301 260 4115	MT-GLAZE 75 JA 1/3W			
R2022	301 150 6014	MT-GLAZE 0.000 ZA 1/10W			
R2031	301 255 6513	MT-GLAZE 100 JA 1/10W			
R2051	301 150 5819	MT-GLAZE 100K JA 1/10W			
R2052	301 150 5819	MT-GLAZE 100K JA 1/10W			
R2056	301 150 5819	MT-GLAZE 100K JA 1/10W			
R2057	301 150 5819	MT-GLAZE 100K JA 1/10W			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
EU	945 054 1156	CORD,POWER-3.0MK			
HK	945 054 1149	CORD,POWER-3.138MK			
MISCELLANEOUS					
610	336 8405	CARRY BAG-KB3AC			
945	039 7210	CABLE,MOUSE SRAL			
945	073 4855	CABLE,INTERFACE VGA			
645	093 1642	CABLE,INTERFACE VGA			
655	002 1205	POLYE BAG-KB3AC			

Mechanical Parts List

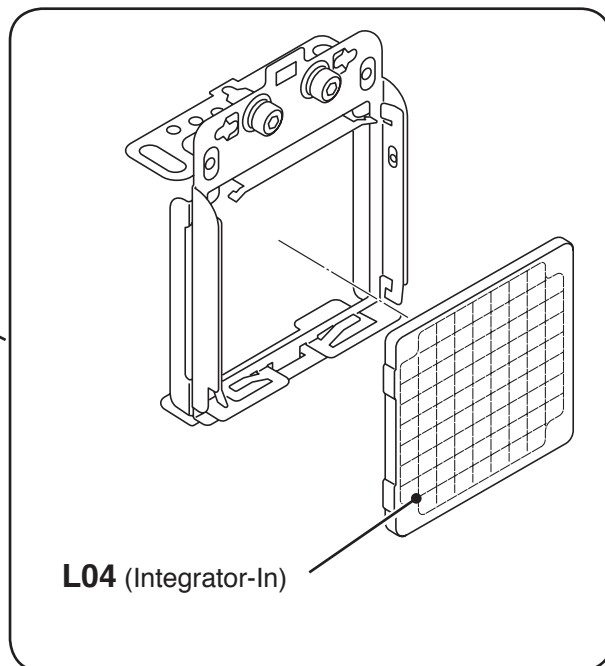
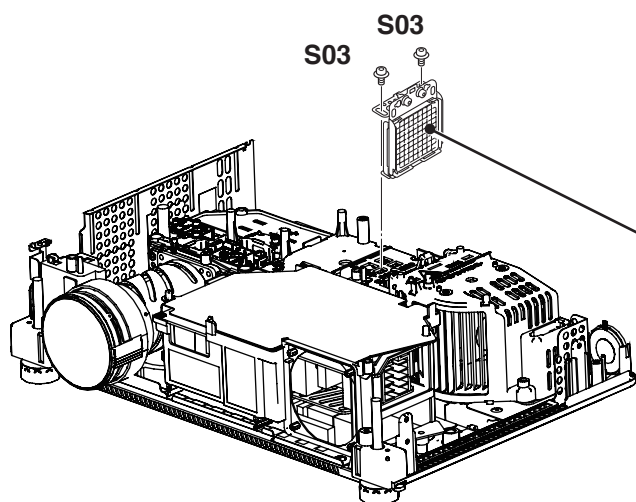
Cabinet Parts Location



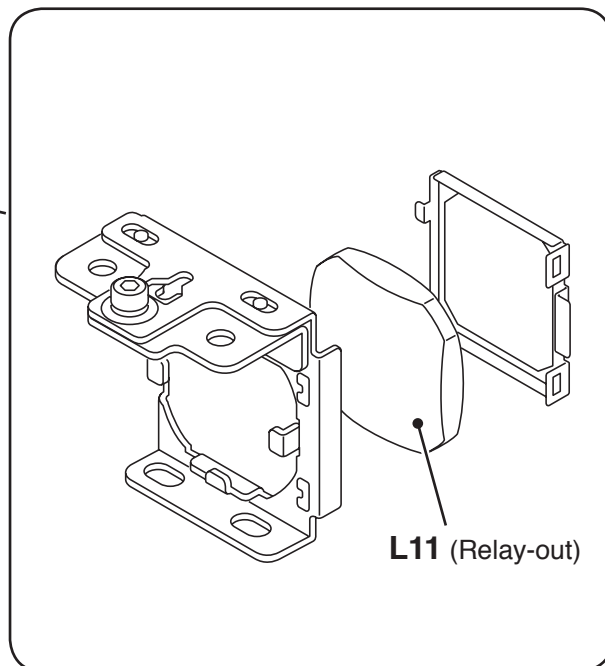
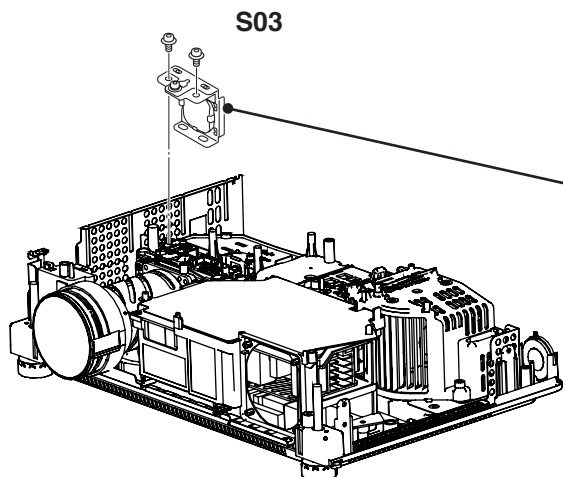
Mechanical Parts List

Optical Parts Location

Integrator Lens-In

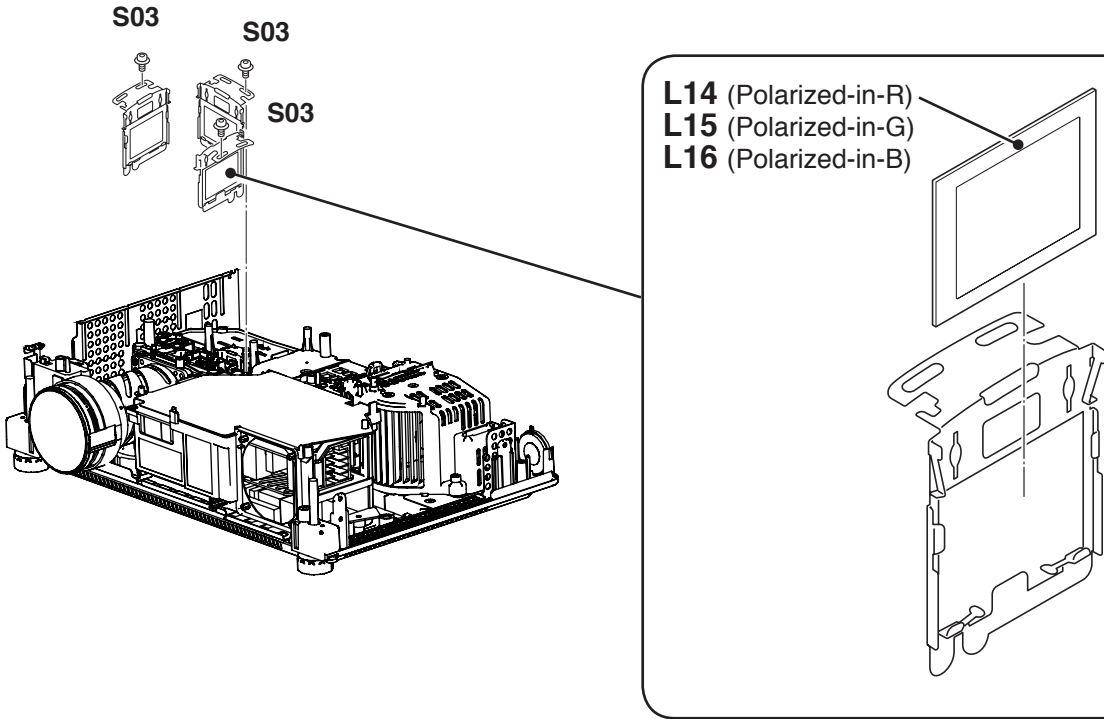


Relay Lens-Out

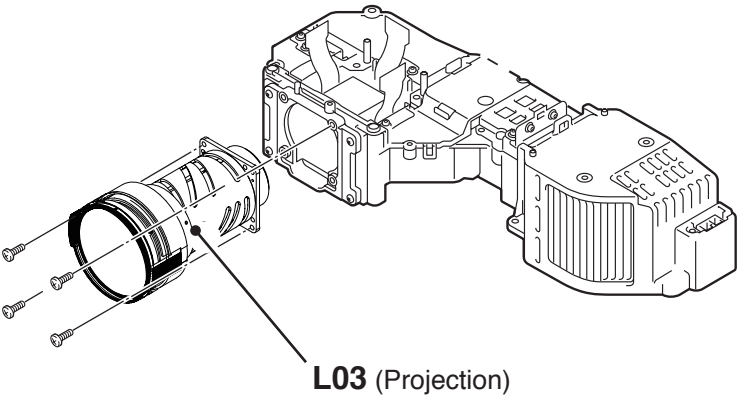


Mechanical Parts List

Polarized Glass-In

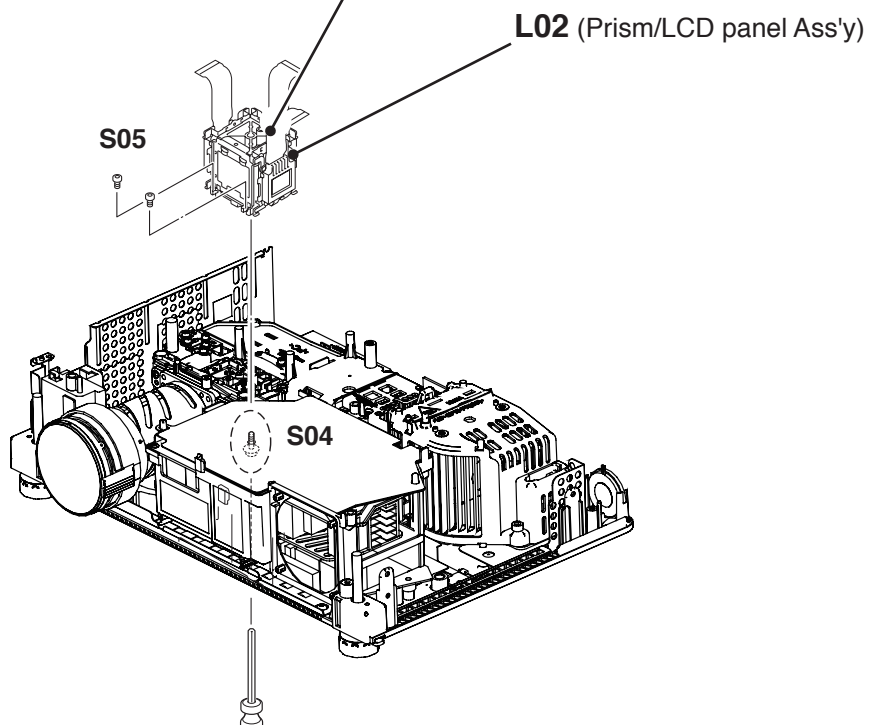
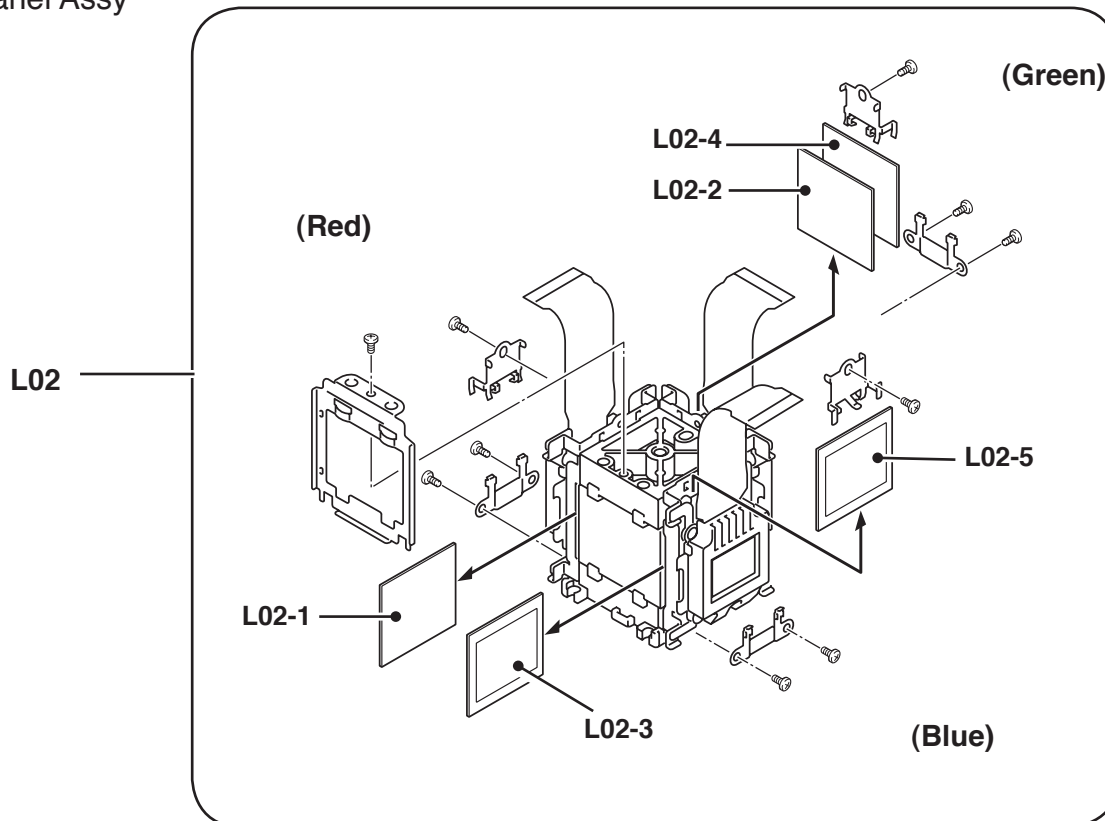


Projection Lens

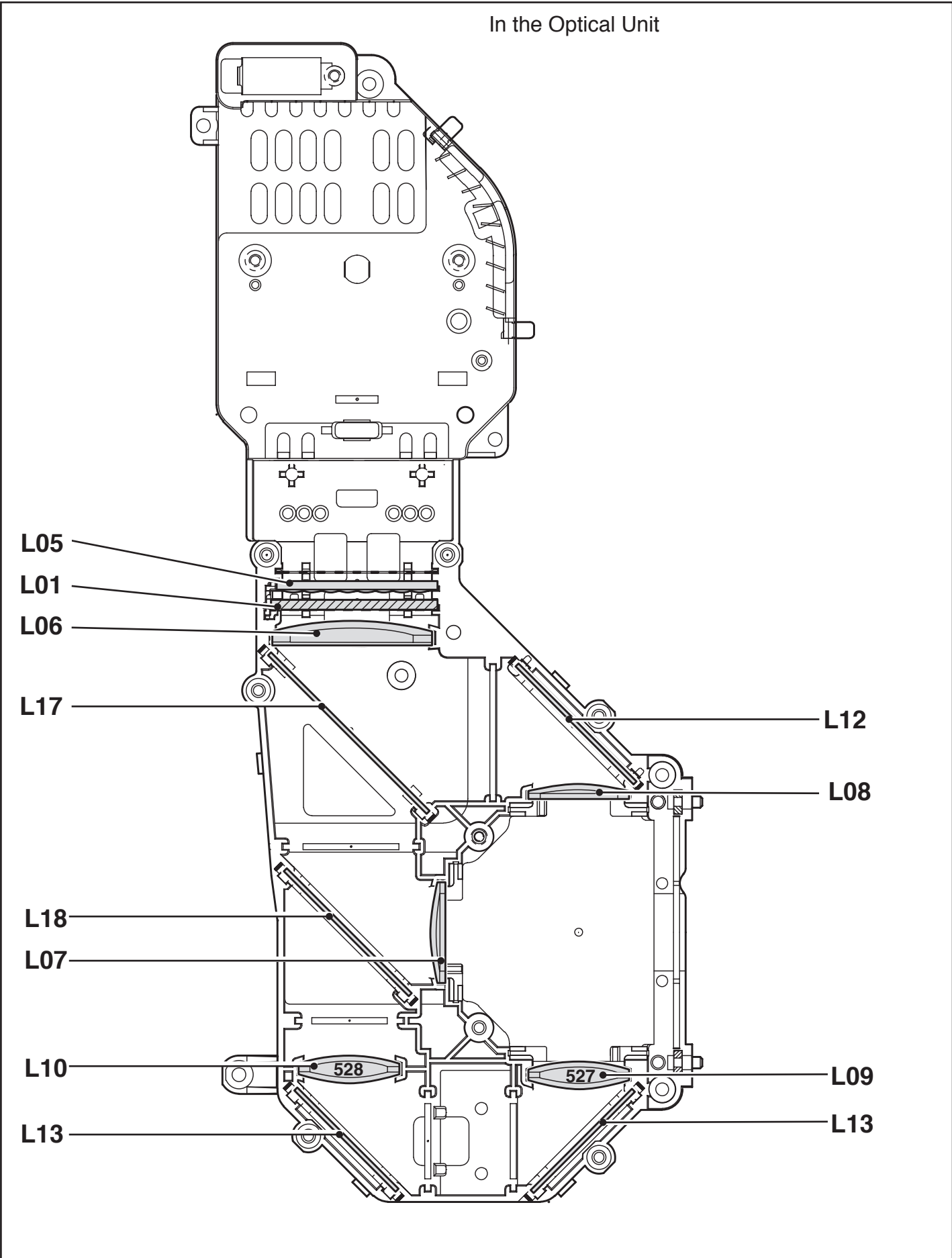


Mechanical Parts List

Prism/LCD Panel Assy



Mechanical Parts List



Mechanical Parts List

Mechanical Parts List

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

Key No.	Part No.	Description	Key No.	Part No.	Description
CABINET PARTS					
C01	610 332 1301	ASSY,STAND LEG-KM6B	L18	945 088 7919	DICHROIC MIRROR (G)
C02	610 333 9214	BUTTON-KM6BC			
C03	610 338 8953	CABINET TOP-KG3BC			
C04	610 338 8816	CABINET FRONT-KG3BC			
C05	610 338 8892	CABINET BTM-KF3BC			
C06	610 336 2304	CAP LENS-KB3BC			
C07	610 336 2441	CAP LENS BASE-KB3AC			
C08	610 337 3430	COVER,LP SERVICE-KB3AC			
C09	610 338 3682	FILTER BASE-KF3AC			
C10	610 333 8859	DEC INLAY LED-KM6AC			
C11	910 325 2477	DEC LEG-PT5EC			
C12	910 302 5613	DEC SHEET-M4JA			
C13	610 333 9290	FILTER BASE-KM6AC			
C14	610 333 8699	GRILLE-KM6BC			
C15	610 336 2243	BADGE EIKI-KB3BC			
C16	610 336 2465	DEC INLAY LED FR-KB3AC			
CHASSIS PARTS					
M01	610 339 4480	DEC AV SHEET KG3BC			
M02	610 334 4348	HOLDER POWER PWB BTM-KM6AC			
M03	610 334 5895	HOLDER T SW-KM6AC			
M04	610 338 3618	MOUNTING DUCT BTM-KF3AC			
M05	610 338 3675	MOUNTING DUCT TOP-KF3AC			
M06	610 334 4386	MOUNTING DUCT LP-KM6AC			
M07	610 333 9467	PANEL AV -KM6BC			
M08	610 334 0067	SPACER SHEET#POWER-KM6AC			
M09	610 334 7097	SPACER SHEET#POW T TOP-KM6AC			
M10	610 331 1692	OPTICAL BASE BTM-KM6A			
M11	610 331 1715	OPTICAL BASE TOP A-KM6A			
M12	610 331 1722	OPTICAL BASE TOP B-KM6A			
SCREWS					
S01	411 190 5001	SCR S-TPG BIN 3X10			
S02	411 200 2808	SCR TPG FLT 3X8			
S03	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5			
S04	312 070 3400	SPECIAL SCREW-3.0X10V			
S05	312 069 7105	SPECIAL SCREW V			
OPTICAL PARTS					
L01	645 092 9892	PRISM(PBS)			
L02	610 340 2284	ASS'Y LCD PNL/PRISM-KF3AC			
(Including Key No.L02-1 to L02-5 and LCD Panels)					
L02-1	645 095 4221	POLARIZED GLASS(OUT/R)			
L02-2	645 089 3513	POLARIZED GLASS(OUT/G)			
L02-3	645 089 3520	POLARIZED GLASS(OUT/B)			
L02-4	645 089 4091	PREPOLARIZED GLASS(OUT/G)			
L02-5	645 089 4107	PREPOLARIZED GLASS(OUT/B)			
L03	645 093 1451	LENS,PROJECTION			
L04	645 093 4681	LENS,INTEGRATOR(IN)			
L05	645 093 4698	LENS,INTEGRATOR(OUT)			
L06	945 088 7827	LENS,CONDENSER(OUT)			
L07	945 088 7834	LENS,CONDENSER(G)			
L08	945 088 7841	LENS,CONDENSER(B)			
L09	945 088 7858	LENS,CONDENSER(R)			
L10	945 088 7865	LENS,RELAY(IN)			
L11	945 088 7872	LENS,RELAY(OUT)			
L12	945 088 7889	MIRROR(B)			
L13	945 088 7896	MIRROR(R)			
L14	645 089 3476	POLARIZED GLASS(IN/R)			
L15	645 089 3483	POLARIZED GLASS(IN/G)			
L16	645 089 3490	POLARIZED GLASS(IN/B)			
L17	945 088 7902	DICHROIC MIRROR (B)			

EIKI

A-key to better communications

Diagrams & Drawings

Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
LC-XB42	KG3-XB4200

These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KG3-XB4200, model LC-XB42. File with the service manual No. SM5110956-00

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

Example 2000 K K 1000 BG

Example 160 E M 10

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

Tolerance

Type

Rated voltage

● Material table

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

● Tolerance table

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

Coil Reading

Example L2 C1 4R7 K N

Tolerance

Inductance value

Manufacture code

Unique code

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

Resistor Reading

Example 1/2 D J 10K B

Example 6 W K 8.2

Characteristic

Z (Carbon fuse)

B (Non-burnable)

Example 1/2 C K 1M

K indicates in $\text{K}\Omega$

M indicate in $\text{M}\Omega$

Resistance value

Tolerance (see below table)

Material (see below table)

Rated wattage (W)

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

● Material table

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

● Tolerance table

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

Diode/Transistor Type Reading

● Diode

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

● Transistor

(1) NPN type

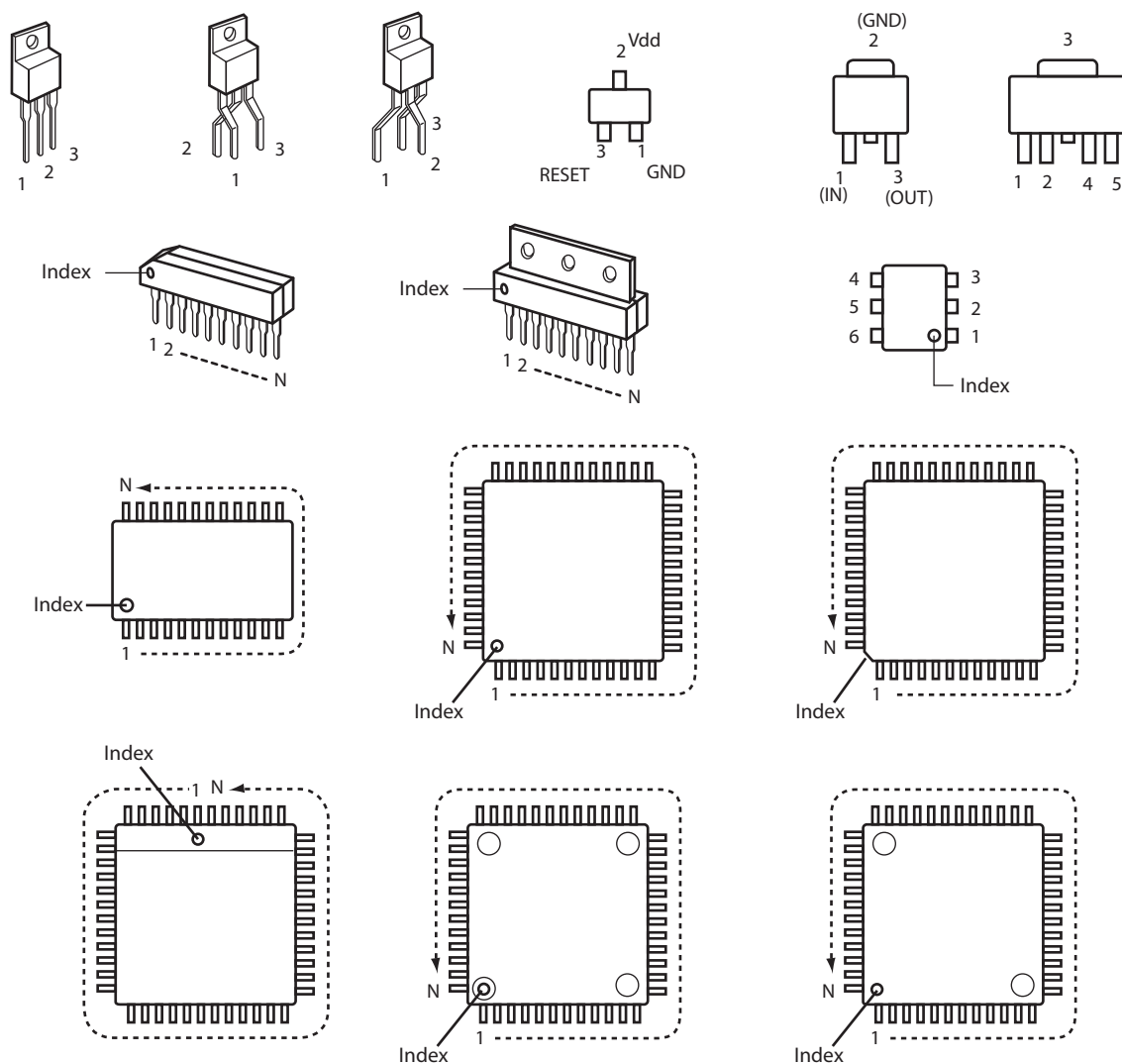
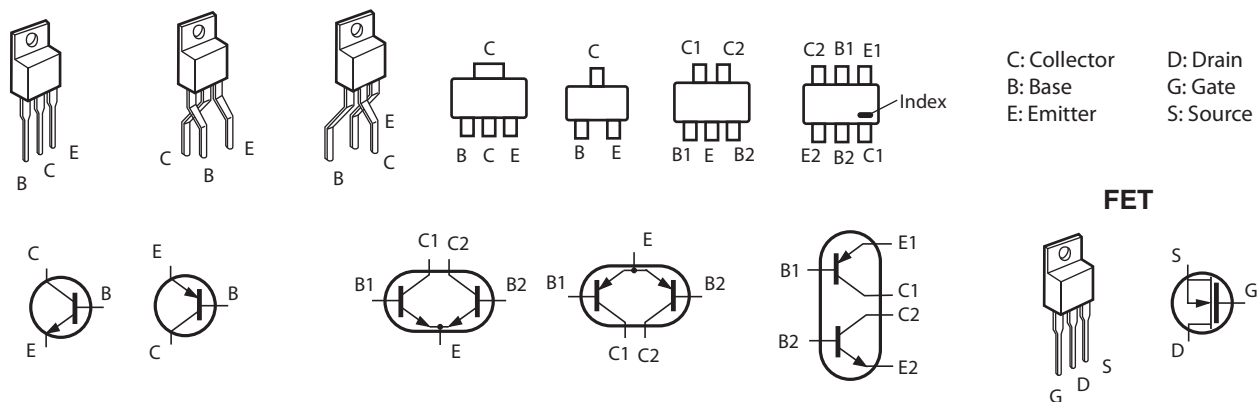
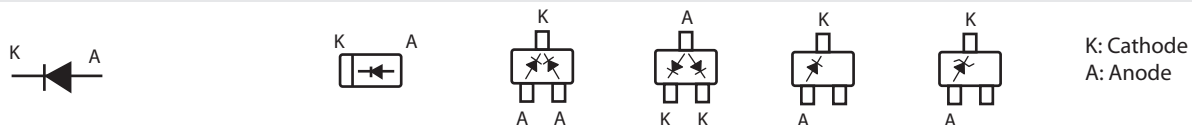
Mark	Type number
--	2SC536 2SC945A 2SC1815 2SC1740S
AD	NF, NG PA, QA Y, GR Q, R, S
AE	NF, NG PA, QA, RA O, Y, GR Q, R, S

(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



Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment. Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

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

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

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

Soldering iron

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

Solder

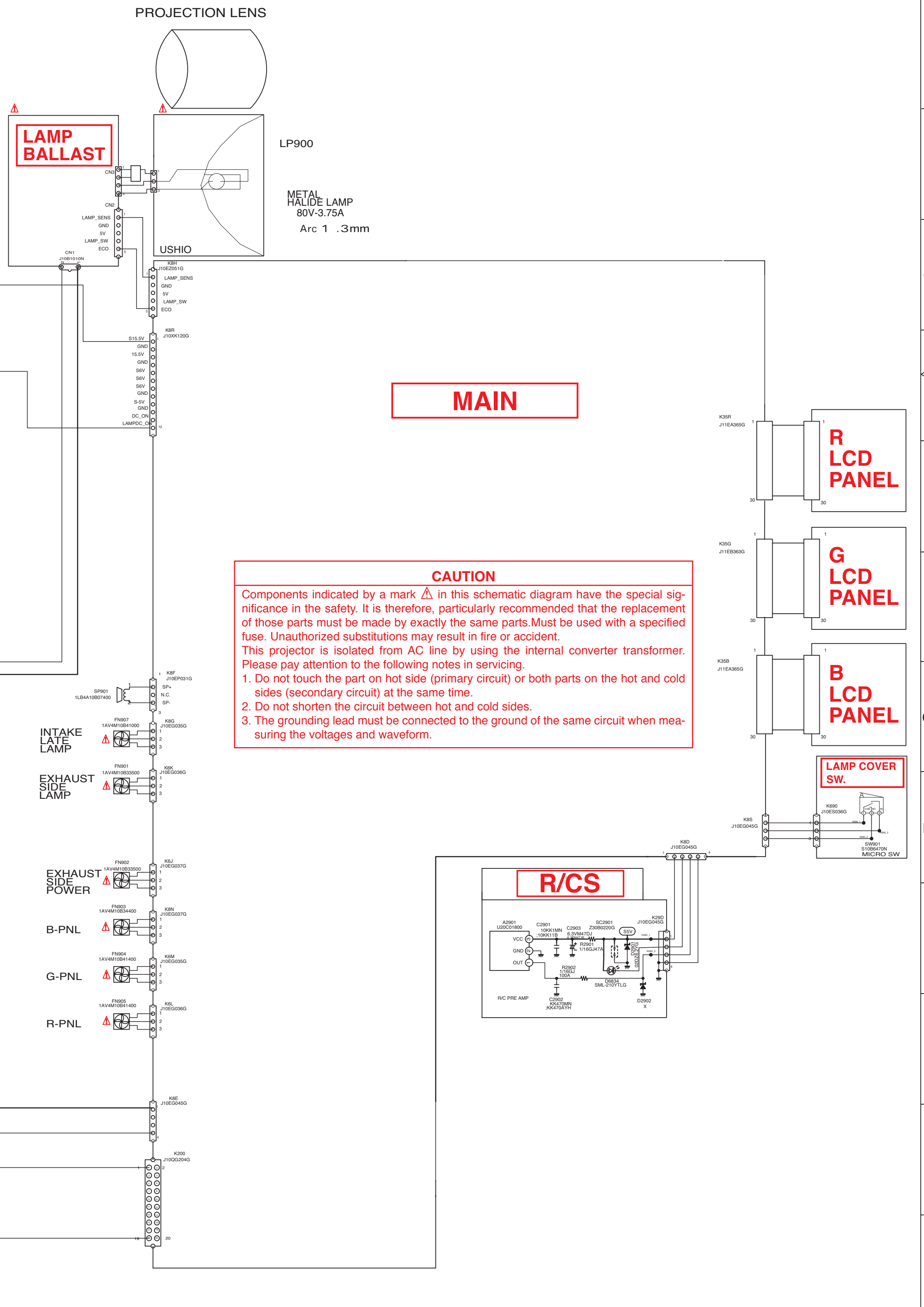
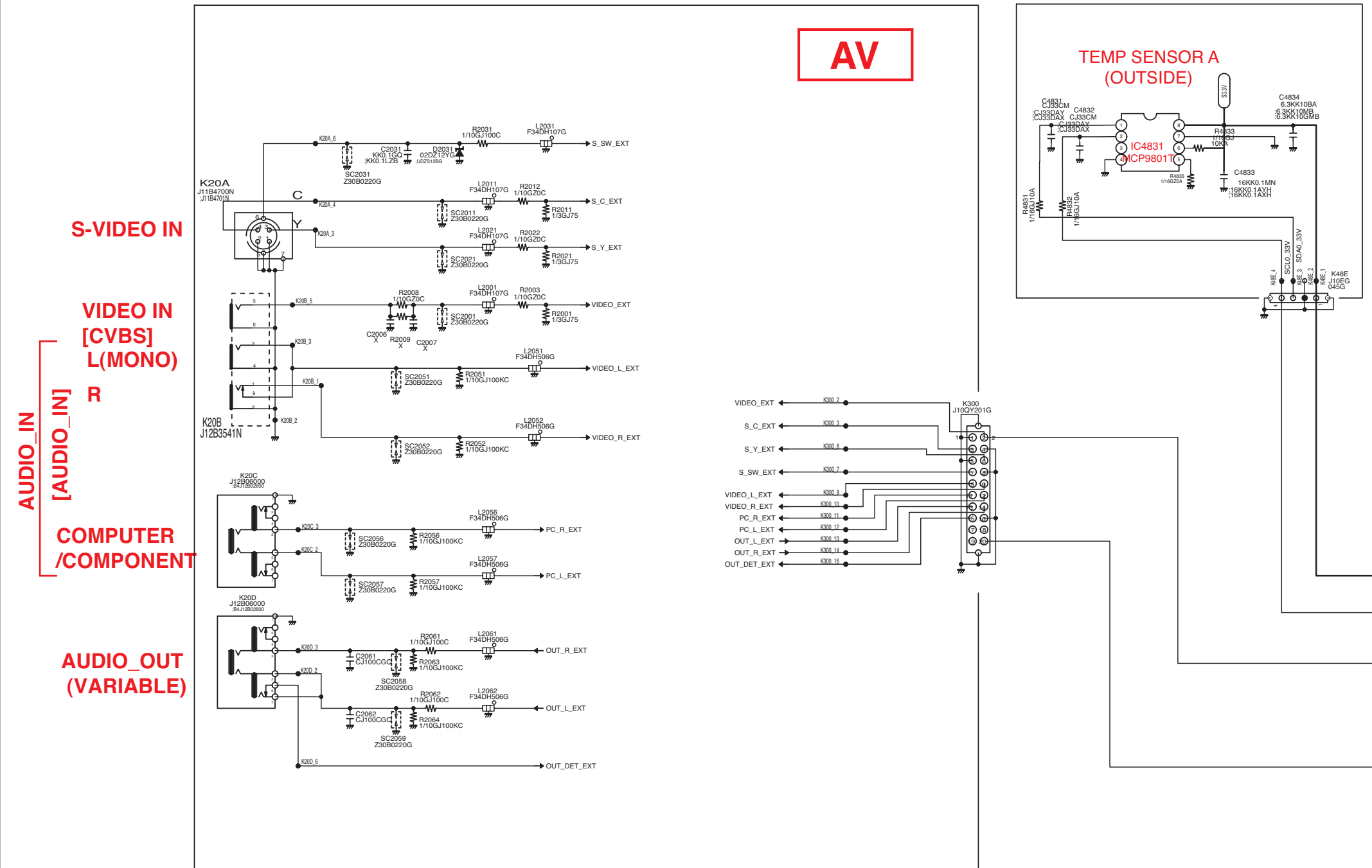
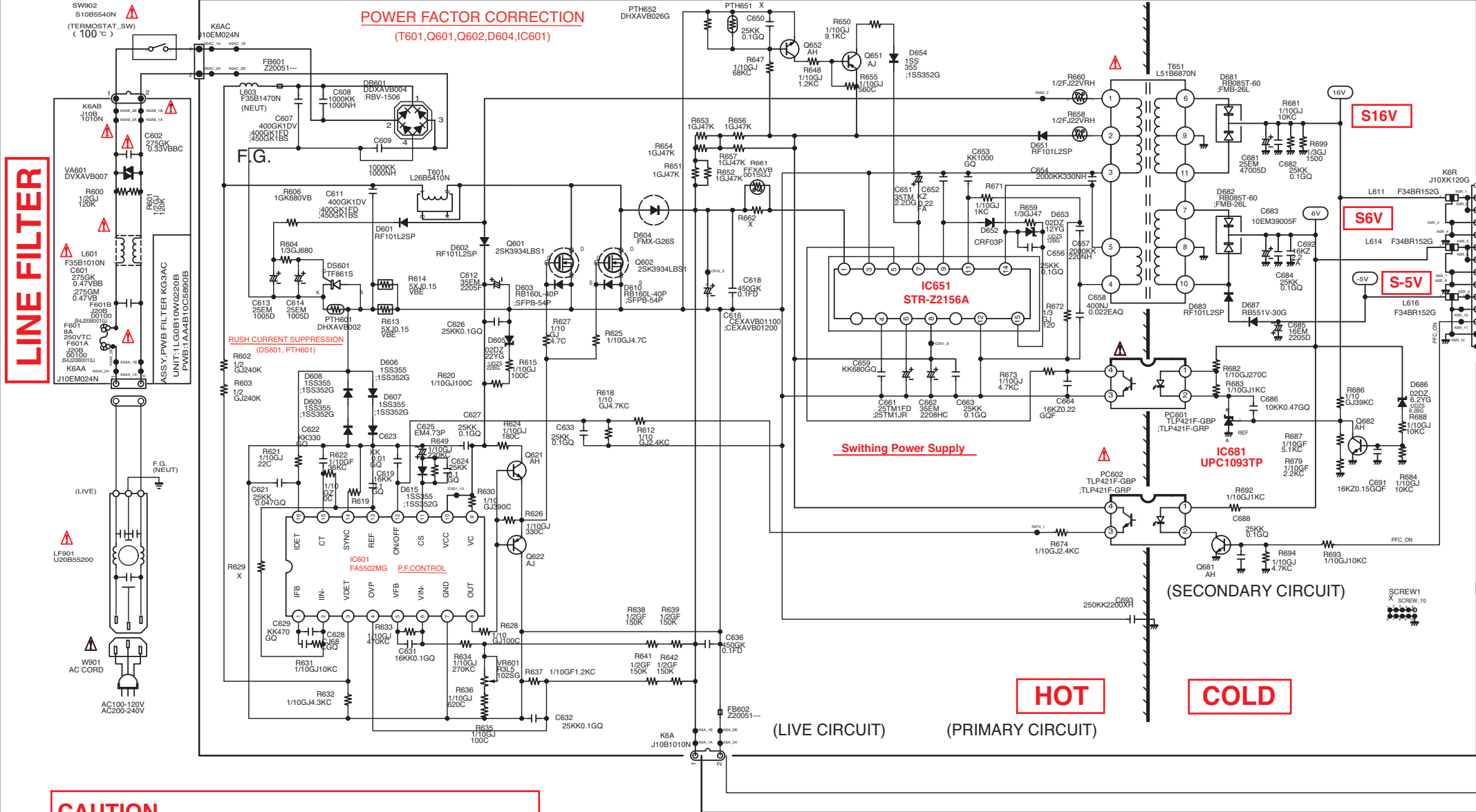
Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

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

Note:

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

Schematic Diagrams



CVBS
S_VIDEO
VIDEO
AUDIO_IN
PC
AUDIO_IN
AUDIO_OUT

PC analog
monitor
OUT

PC analog
IN1

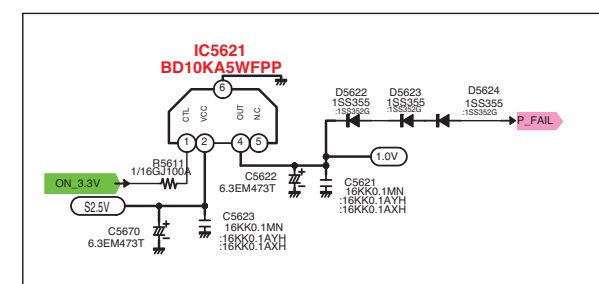
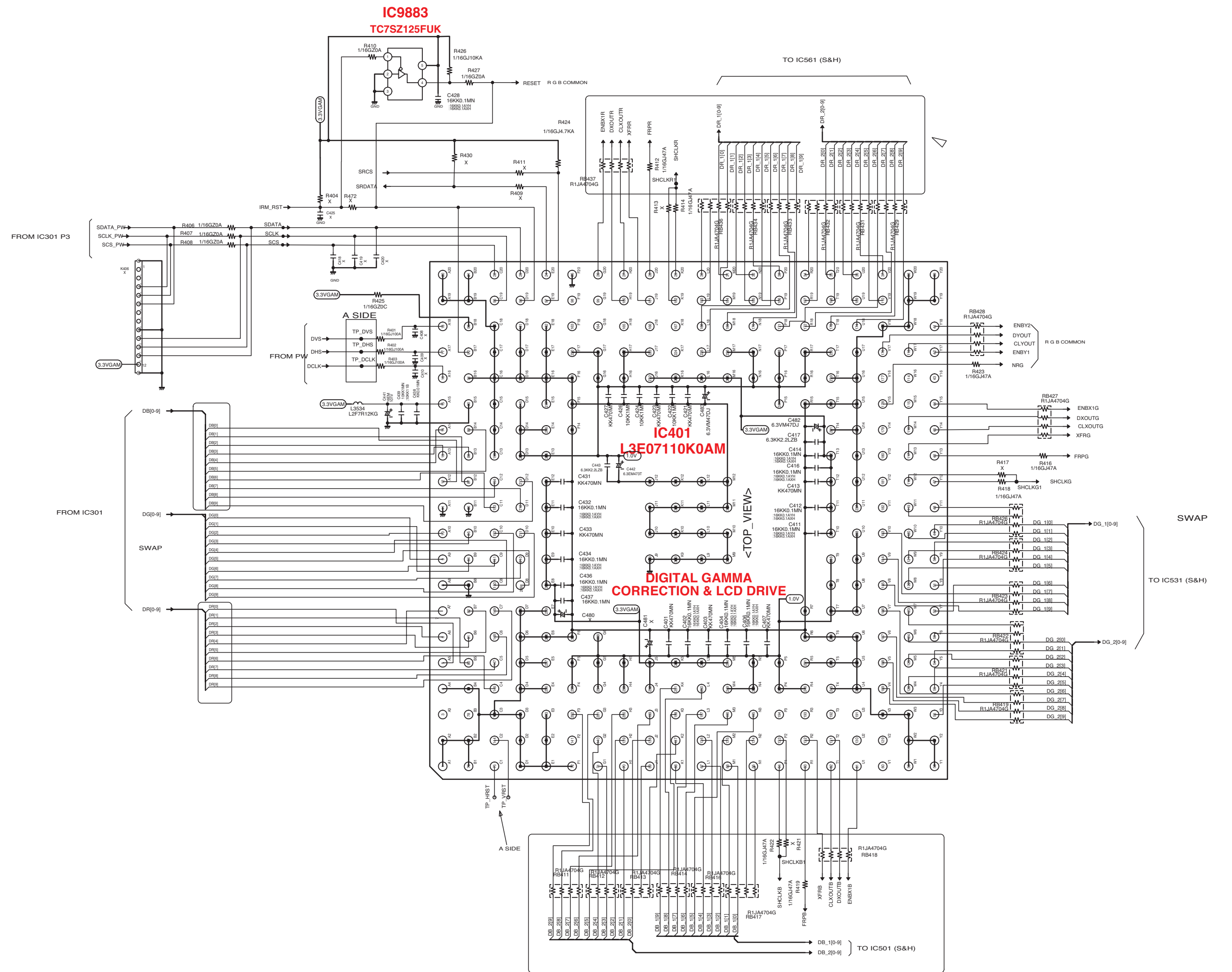
PC analog
component
IN2

SERVICE
PORT
SERIAL

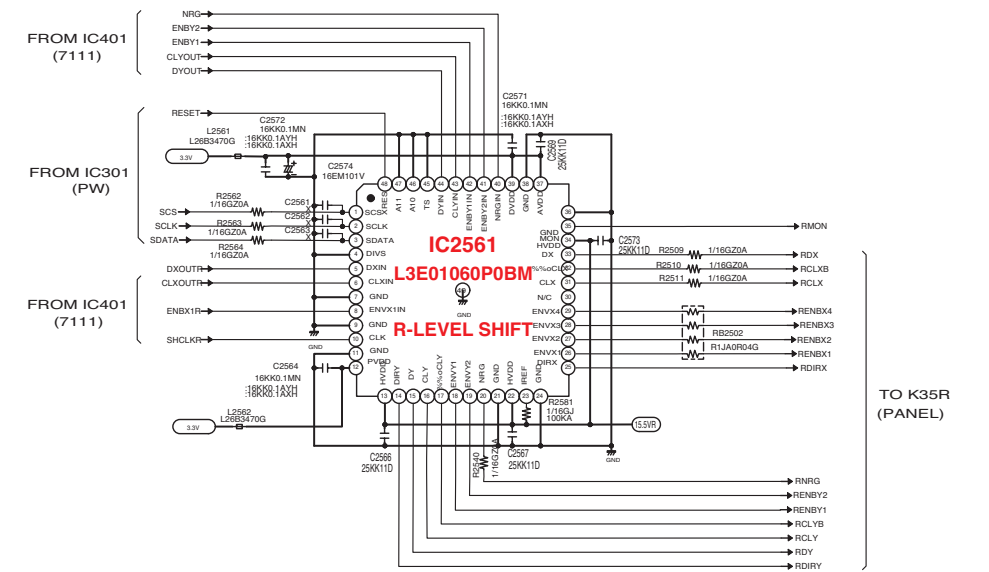
MAIN-1

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

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

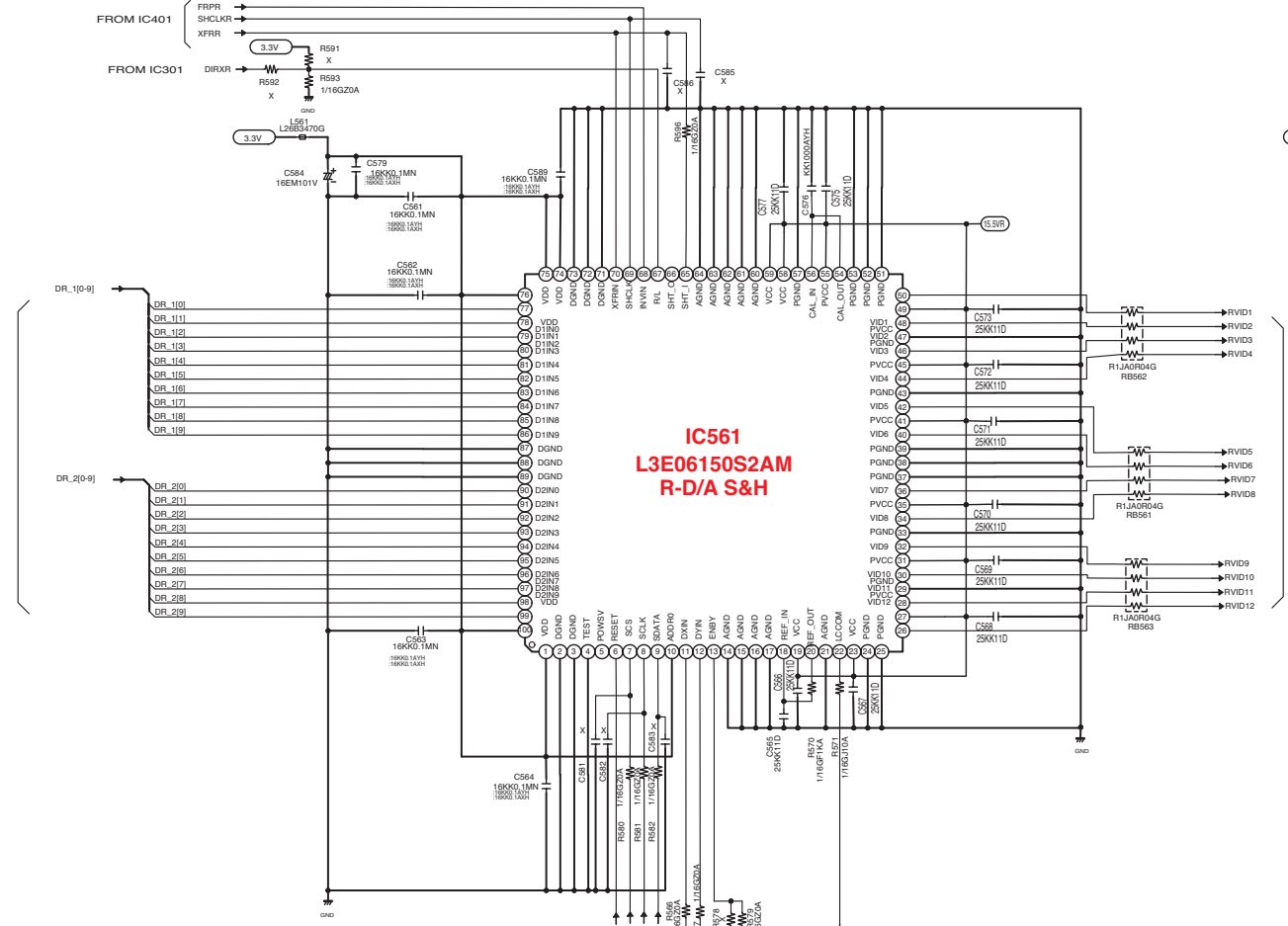
**MAIN-2**

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



FROM IC401

TO K35R (PANEL)

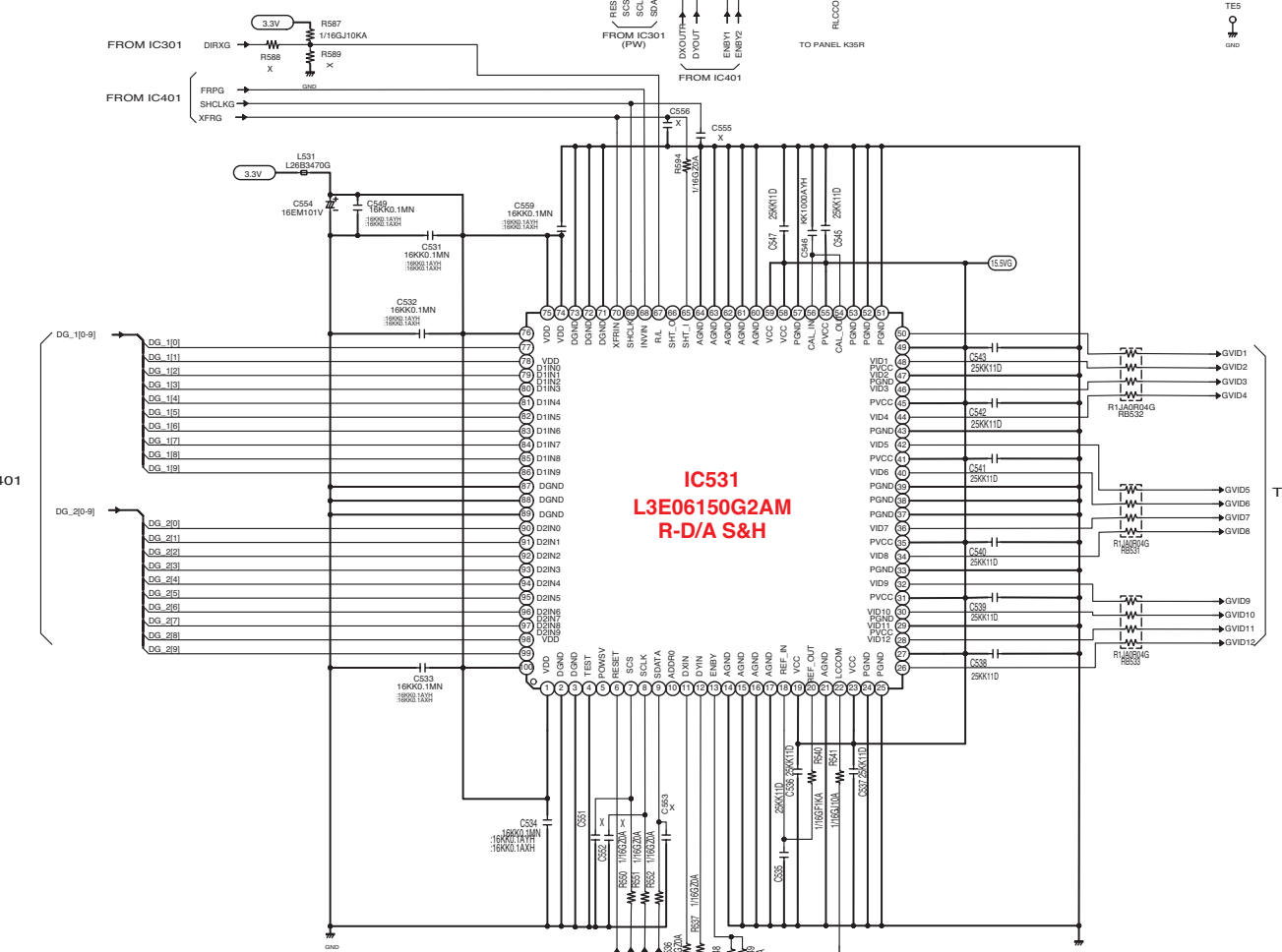


FROM IC301

FROM IC401

FROM IC401

TO K35G (PANEL)

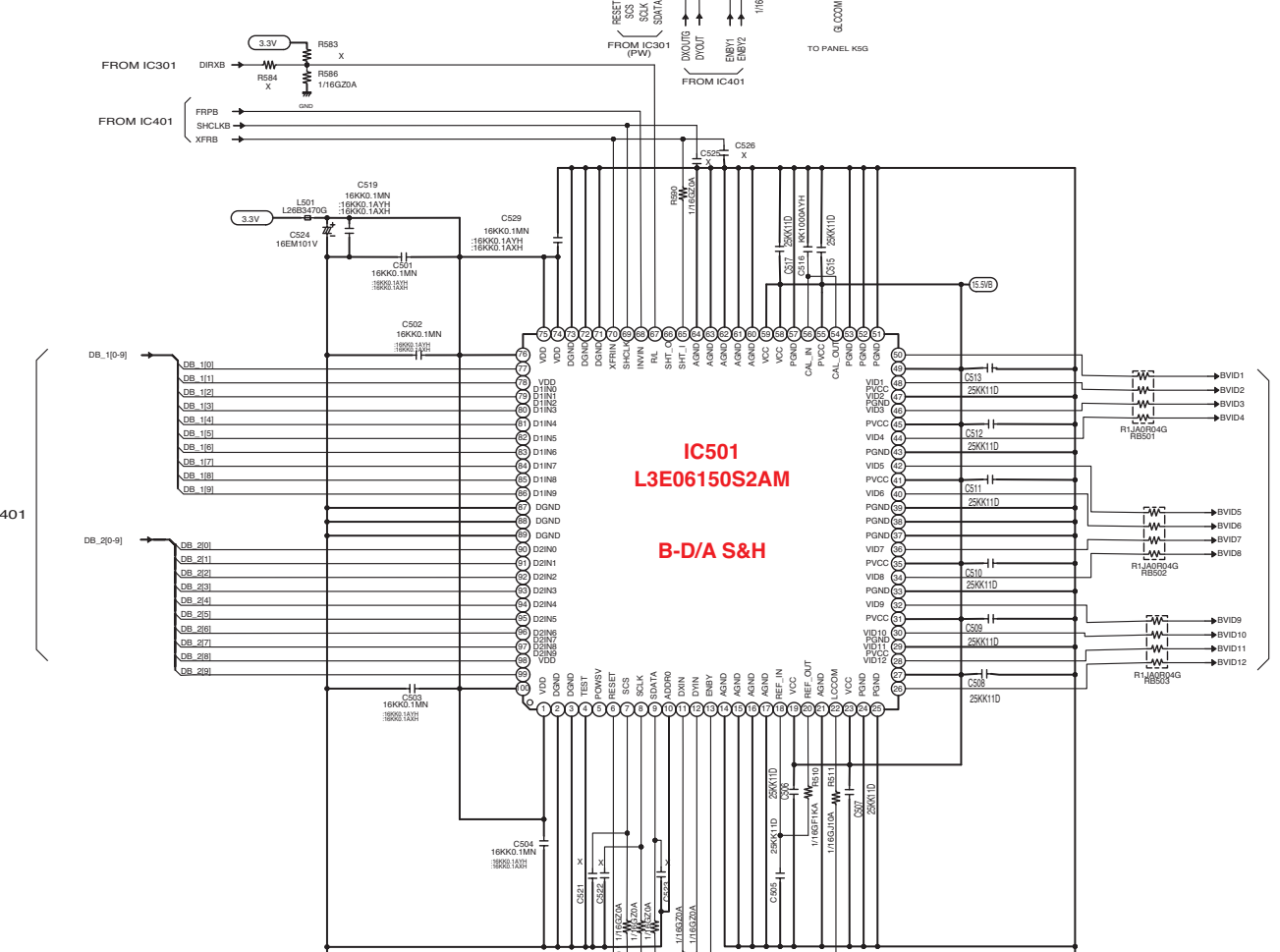


FROM IC301

FROM IC401

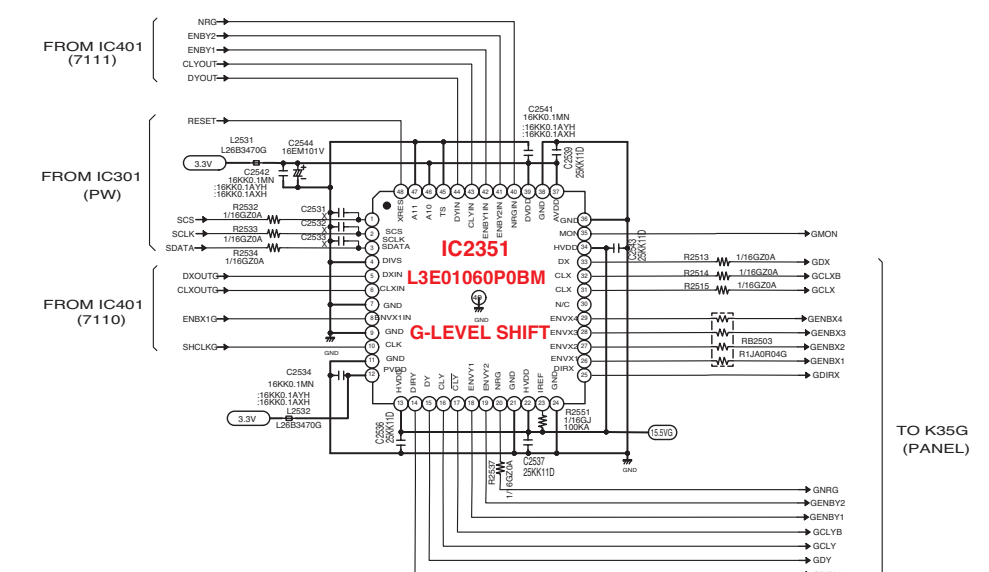
FROM IC401

TO K35B (PANEL)



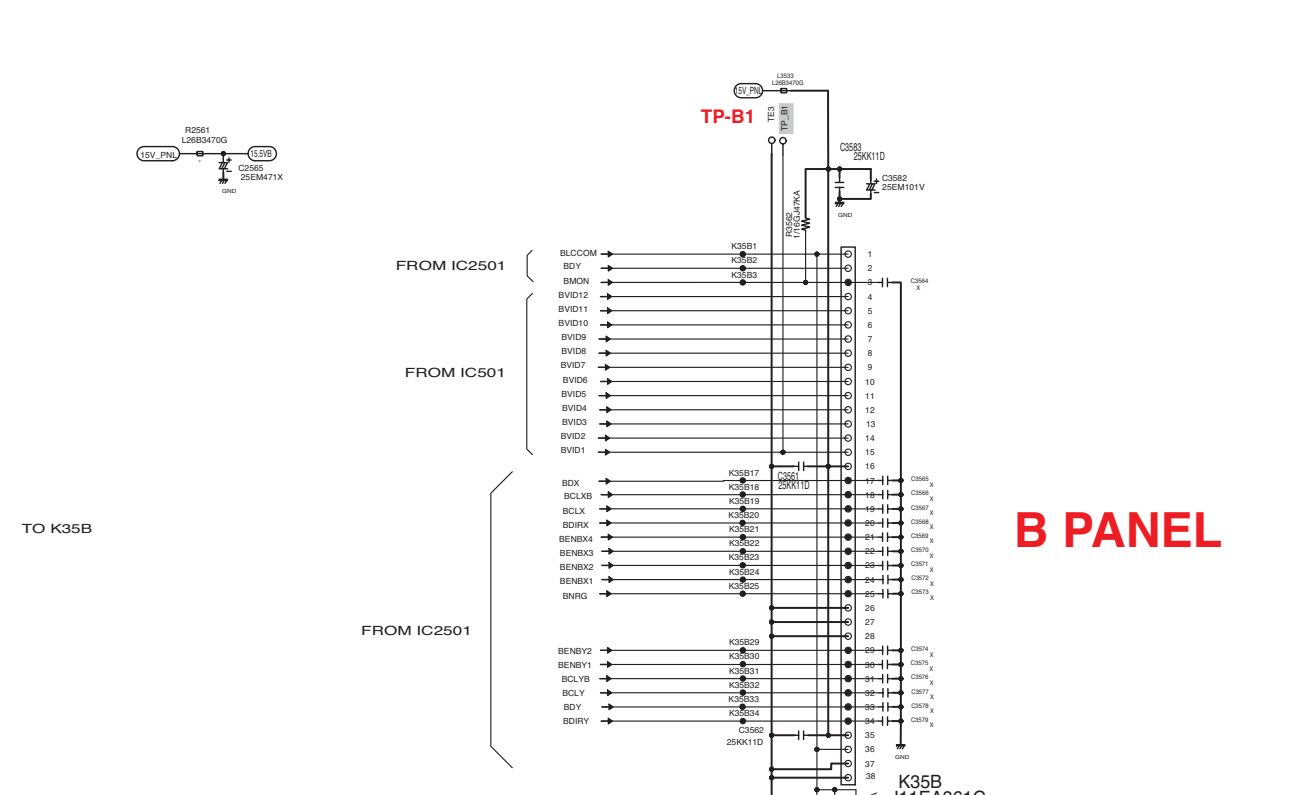
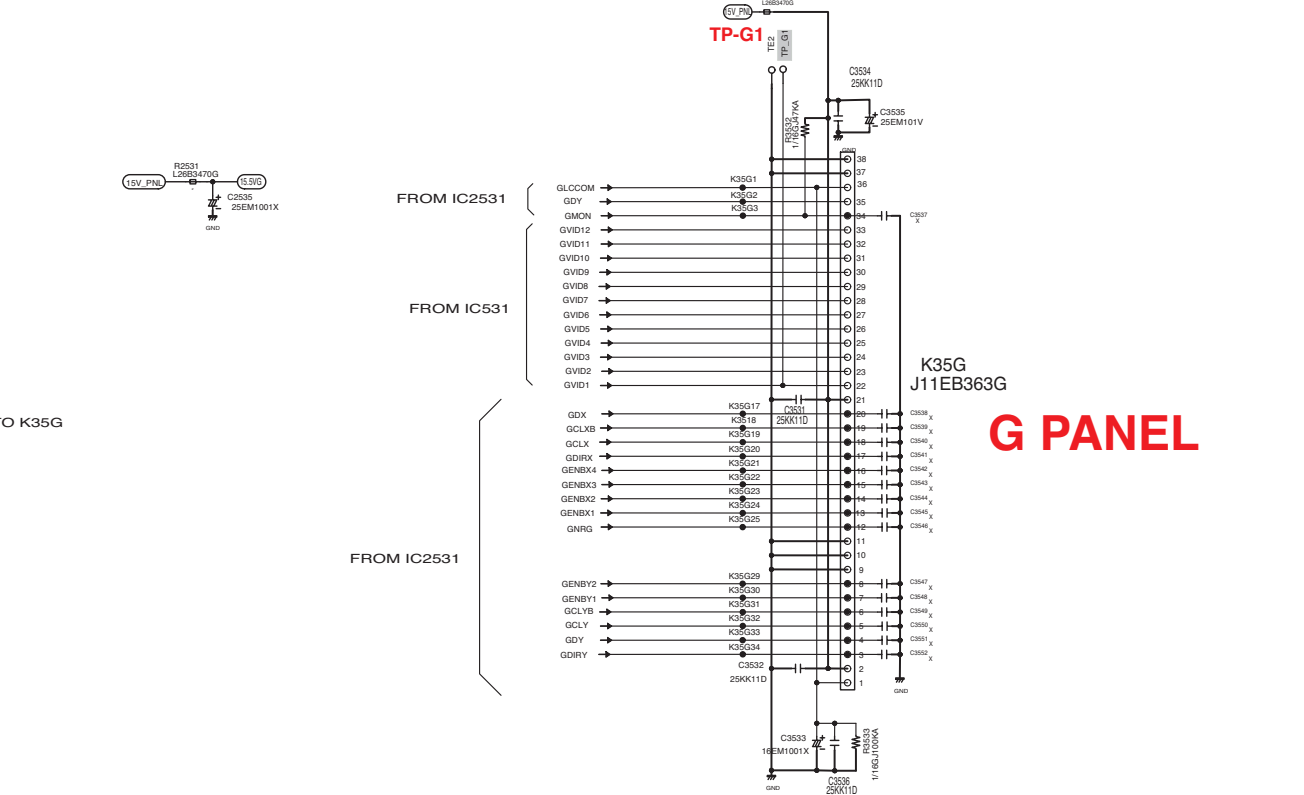
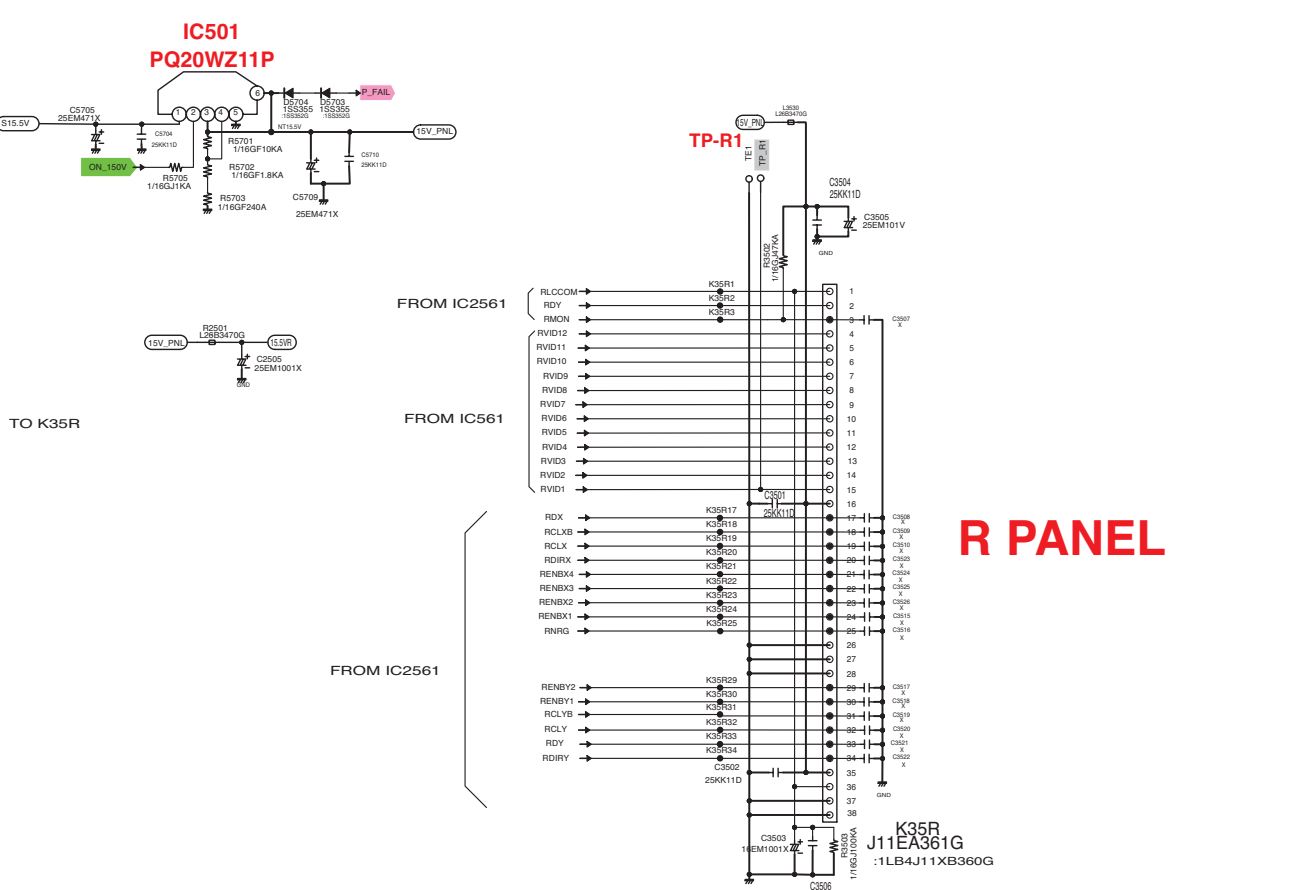
FROM IC301

FROM IC401



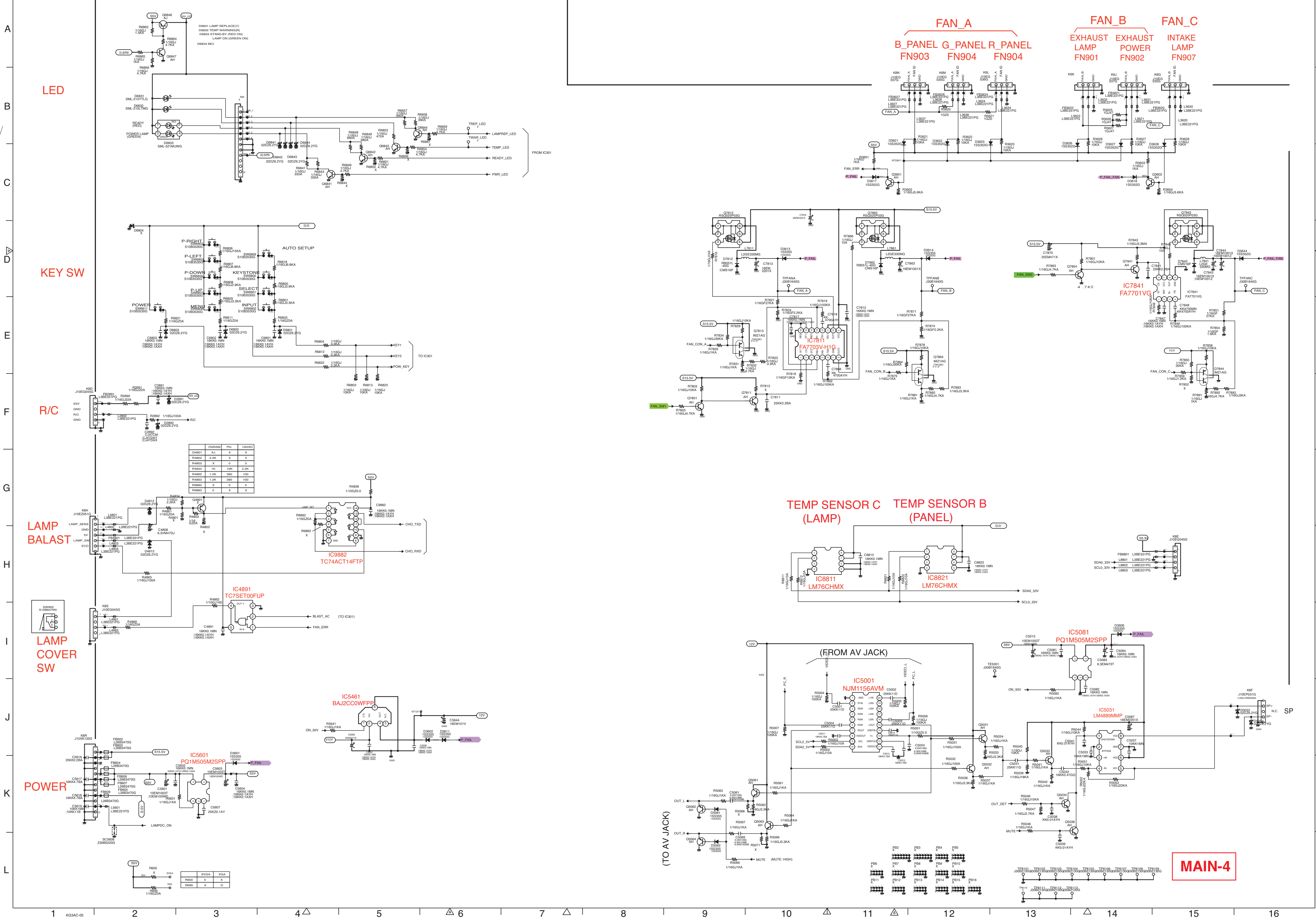
TO K35G (PANEL)

TO K35B (PANEL)



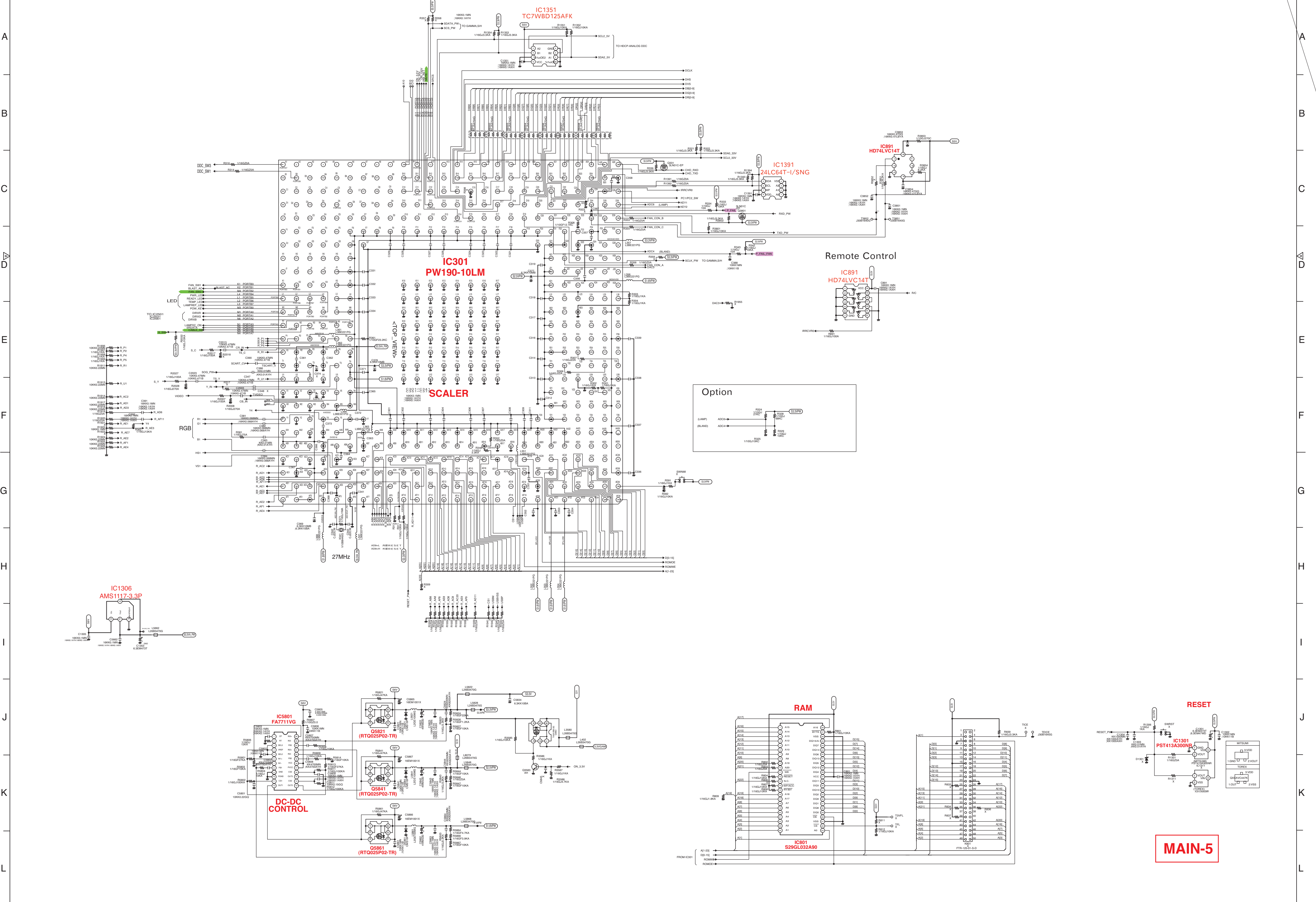
MAIN-3

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



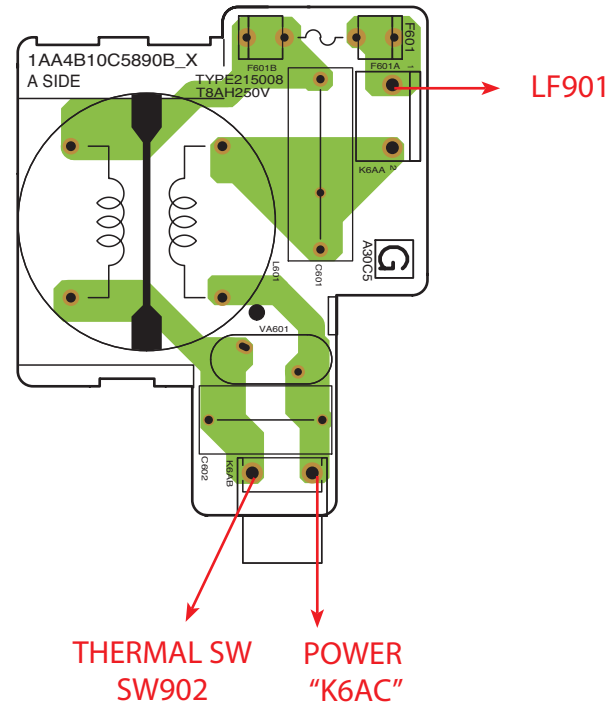
A
B
C
D
E
F
G
H
I
J
K
L

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

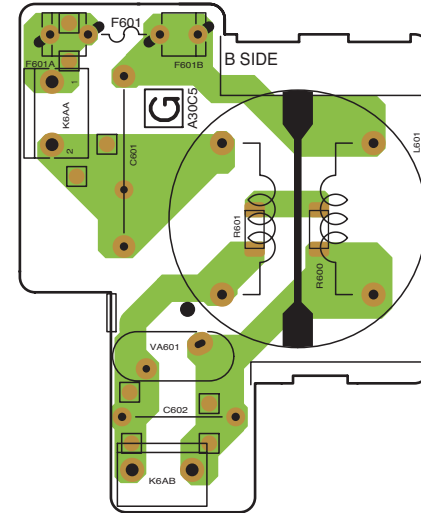


Printed Wiring Board Diagrams

LINE FILTER (SIDE:A)



LINE FILTER (SIDE:B)

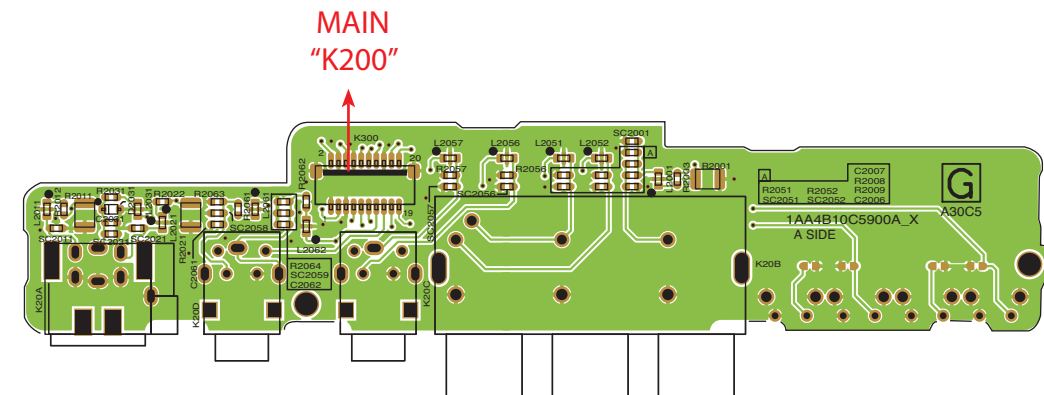


CAUTION

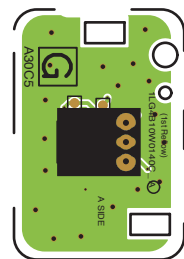
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing

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

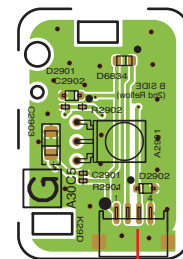
AV (SIDE:A)



R/CS (SIDE:A)

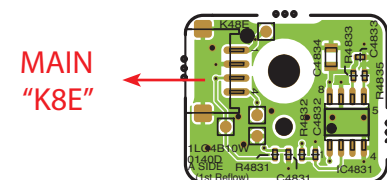


R/CS (SIE:B)

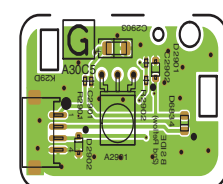
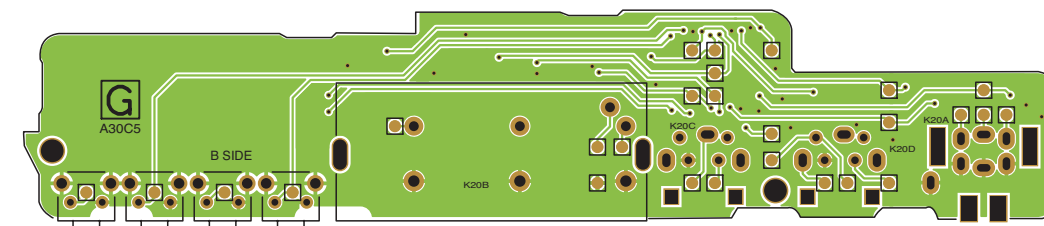


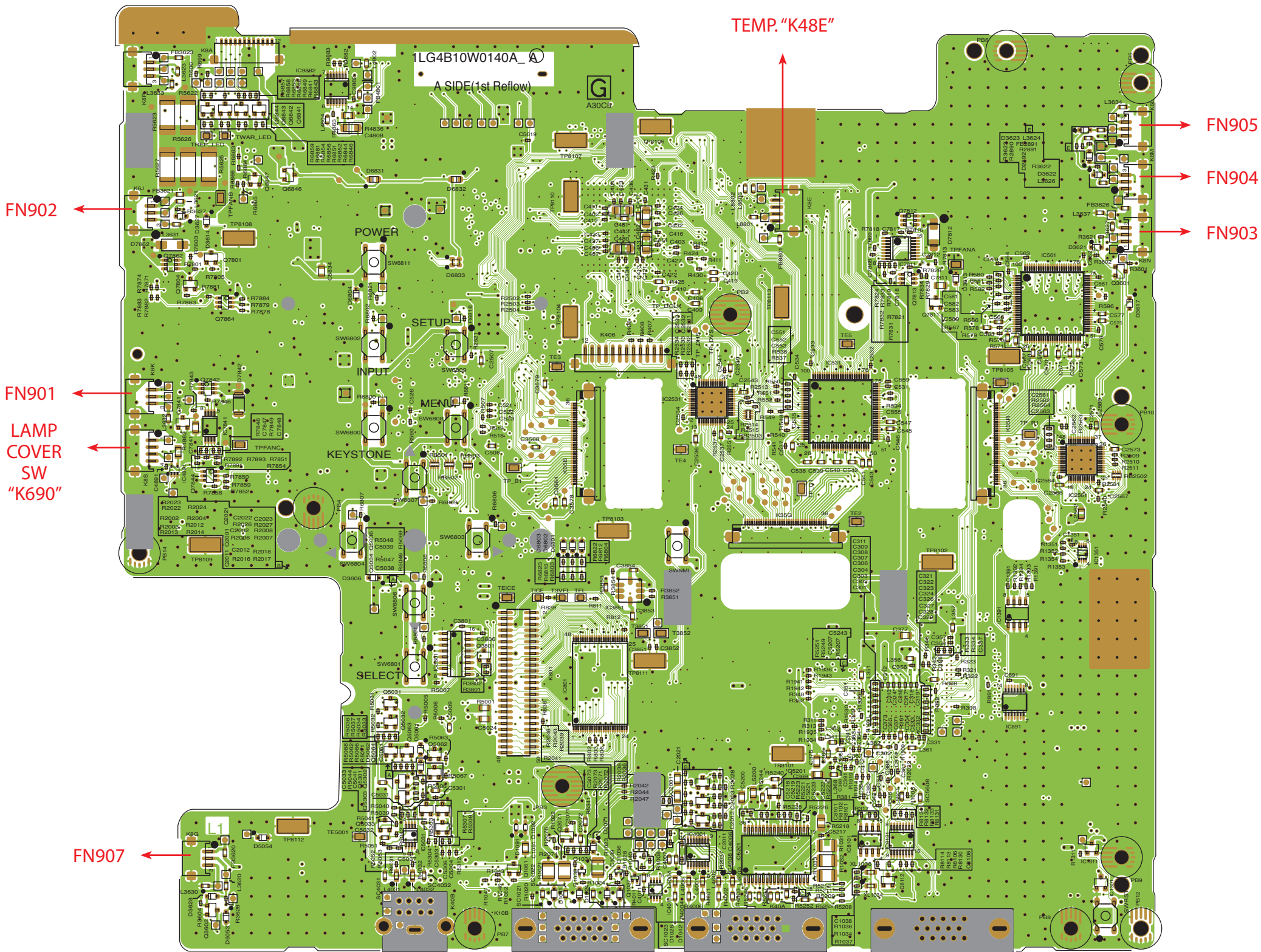
MAIN
"K8D"

TEMP. (SIDE:A)



TEMP. (SIDE:B)

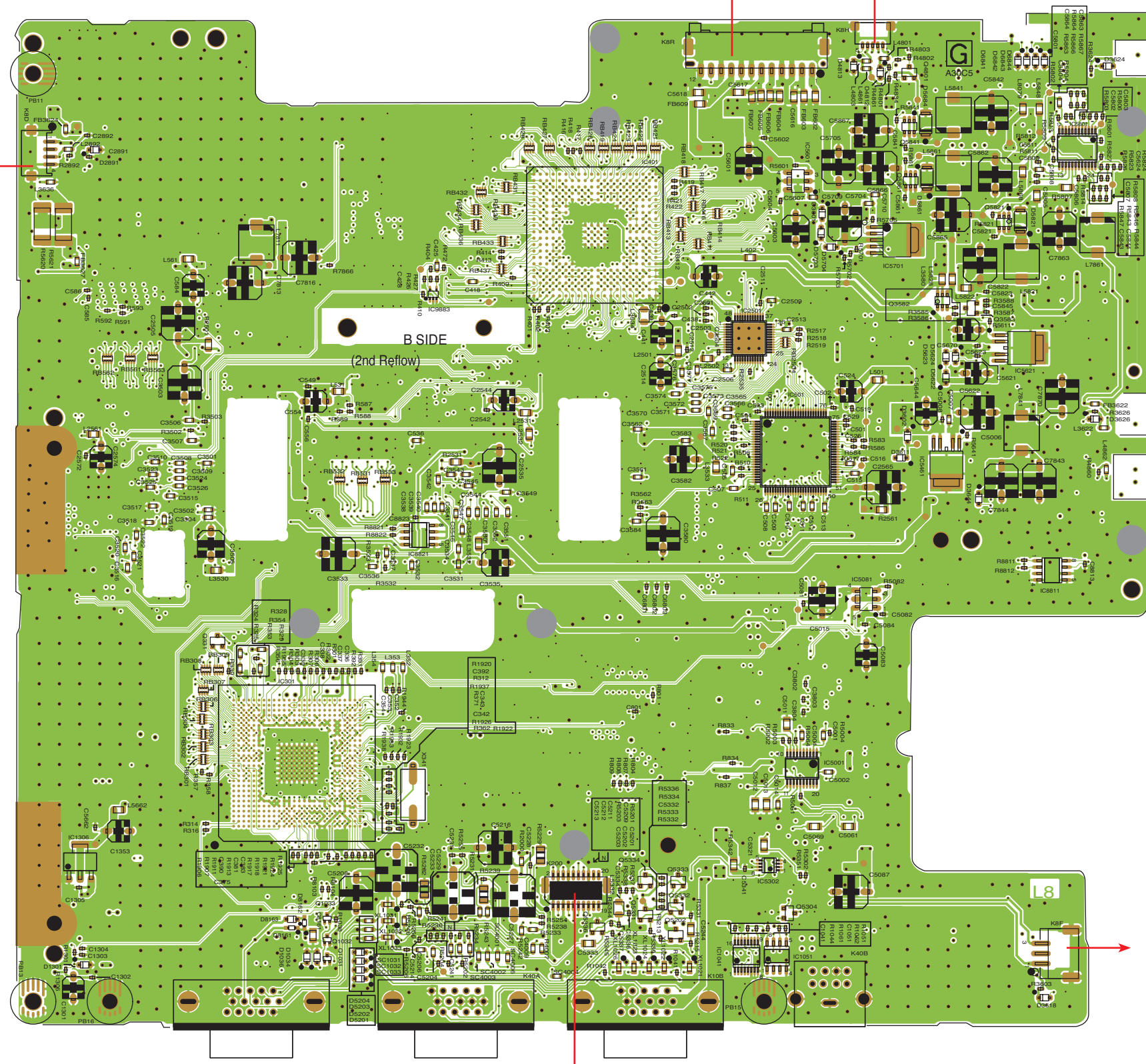
**AV (SIE:B)**



R/CS
"K29D"

POWER
"K6R"

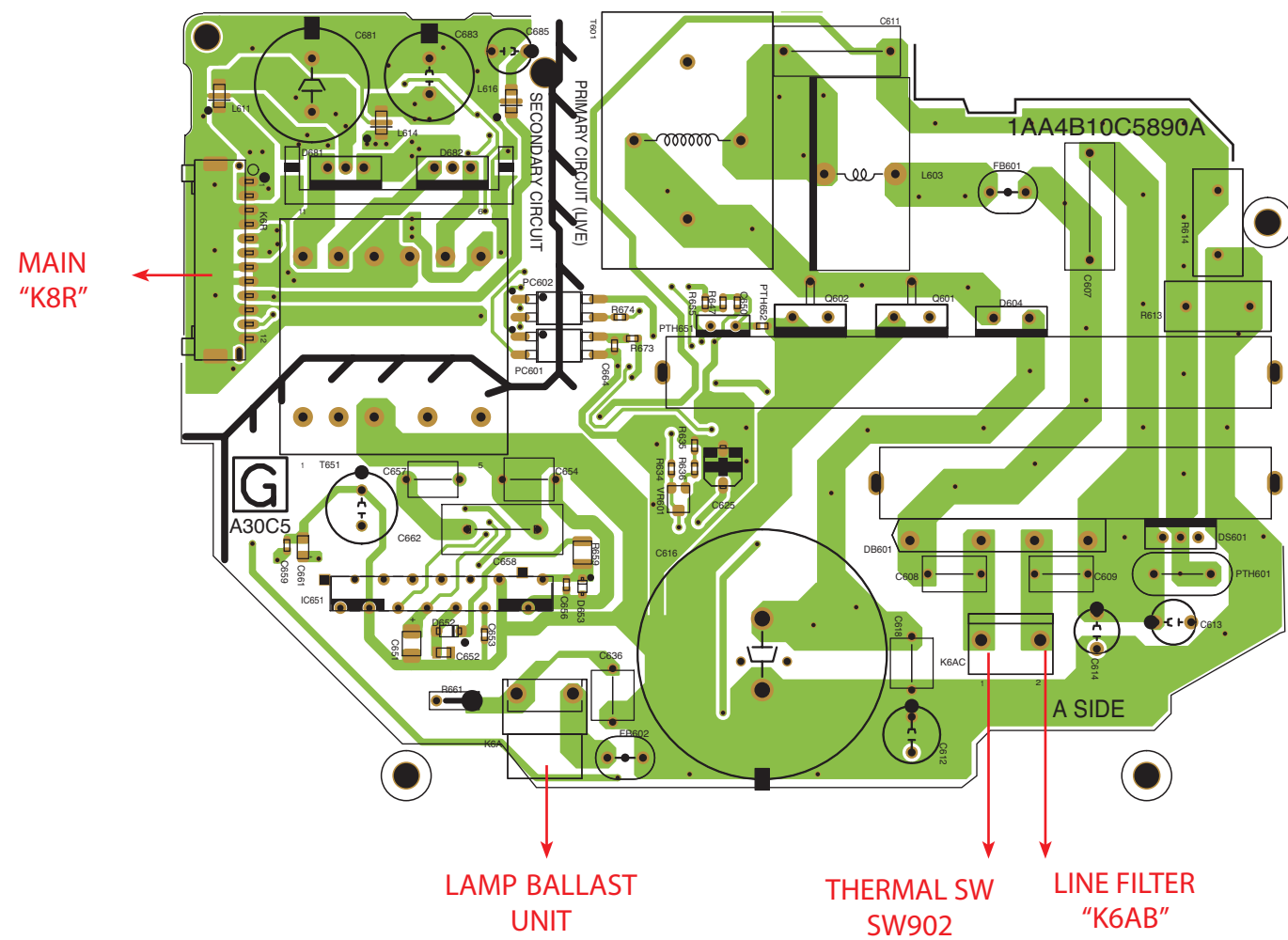
LAMP BALLAST
UNIT



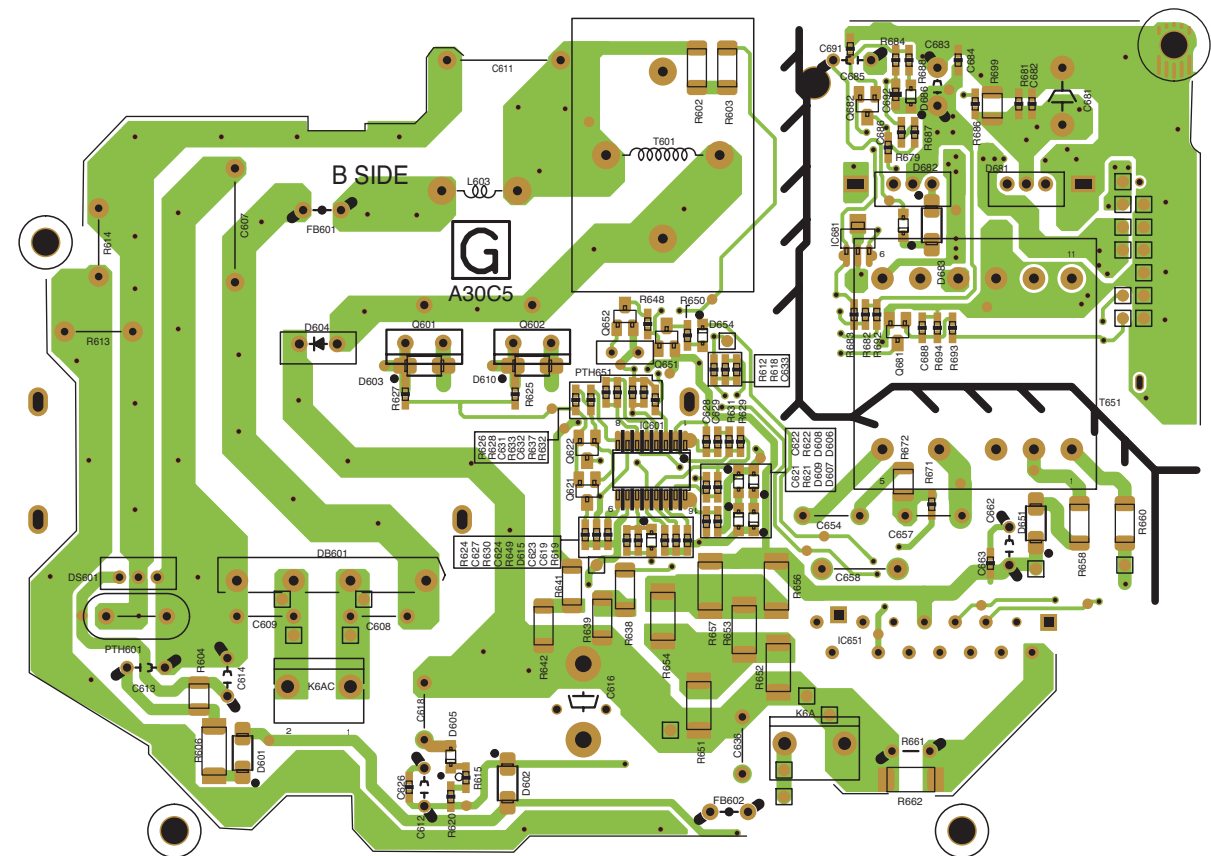
SP901

AV
"K300"

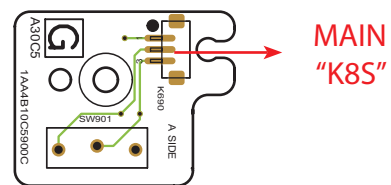
POWER (SIDE:A)



POWER (SIDE:B)



LAMP COVER SW (SIDE:A)



LAMP COVER SW (SIDE:B)

