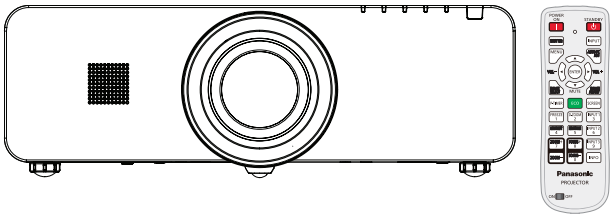
ORDER NO. VED1205428CE
D10

Service Manual

LCD Projector



Model No. **PT-EX600U**
PT-EX600E
PT-EX600UL
PT-EX600EL
PT-EW630U
PT-EW630E
PT-EW630UL
PT-EW630EL

* **Lens is optional for the projectors that “L” follows in model number.**

Panasonic®

Contents

Safety Instructions

The service technician is required to read and follow the “Safety Precautions” and “Important Safety Notice” in this service manual.

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It dose not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

WARNING : Use UV Radiation eye and skin protection during servicing

CAUTION

Precaution

If using of this projector at high altitudes, “Fan Control” to “ON1” for 1,000 to 2,000m or “ON2” for 2,000 to 2,700m.
(Refer to “PROJECTOR SETUP menu” in Operating Instructions.)
Failure to observe this may cause malfunctions. Never use this projector at an altitude of 2,700m or higher.
Using this projector at high altitude, consult your dealer or Authorized Service Center about preparations.

About lead free solder (PbF)

This projector is using the P.C.Board which applies lead free solder.
Use lead free solder in servicing from the standpoint of antipollution for the global environment.
Notes:

- Lead free solder: Sn-Ag-Cu (tin, silver and copper) has a higher melting point (approx. 217°C) than standard solder. Typically the melting point
- is 30~40 °C higher. When servicing, use a high temperature soldering iron with temperature limitation function and set it to 370 ± 10 °C.
- Be precautious about lead free solder. Sn-Ag-Cu (tin, silver and copper) will tend to splash when heated too high (approx. 600°C or higher).
- Use lead free solder for the P.C.Board (specified on it as “PbF”) which uses lead free solder. (When you unavoidably use lead solder, use lead
- solder after removing lead free solder. Or be sure to heat the lead free solder until it melts completely, before applying lead solder.)
- After solder to double layered P.C Boards, check the component side for exceee solder which may flow onto the opposite side.

About the identification of the lead free solder P.C.Board.
For the P.C.Board which applies lead free solder, the symbol as shown in the figure below is printed or stamped on the surface or the back of P.C.Board.

PbF

For US

IMPORTANT SAFETY NOTICE

There are special parts used in Panasonic LCD Projectors which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer’s specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC SOLUTIONS COMPANY.

WARNING:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment dose cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, The user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION : Any unauthorized changes or modifications to this equipment will void the user’s authority to operate this device.

Safety precautions

1.1. General Guidelines

- For continued safety, no modification of any circuit must be attempted.
- Unplug the power cord from the power outlet before disassembling this projector.
- Use correctly the supplied power cord and must ground it.
- It is advisable to use an isolation transformer in the AC power line before the service.
- Be careful not to touch the rotation part (cooling fan, etc.) of this projector when you service with the upper case removed and the power supply turned ON.
- Observe the original lead dress during the service. If a short circuit is found, replace all the parts overheated or damaged by the short circuit.
- After the service, all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations must be properly installed.
- After the service, check the leakage current to prevent the customer from getting an electric shock.

1.2. Leakage Current Check

1. Prepare the measuring circuit as shown in Fig.1.
   Be sure to use a voltmeter having the performance described in Table 1.
2. Assemble the circuit as shown in Fig. 2. Plug the power cord in a power outlet.
3. Connect M1 to T1 according to Fig. 2 and measure the voltage.
4. Change the connection of M1 from T1 to T2 and measure the voltage again.
5. The voltmeter must read 0.375 V or lower in both of steps 3 and 4. This means that the current must be 0.75mA or less.
6. If the reading is out of the above standard, the projector must be repaired and rechecked before returning to the customer because of a possibility of an electric shock.

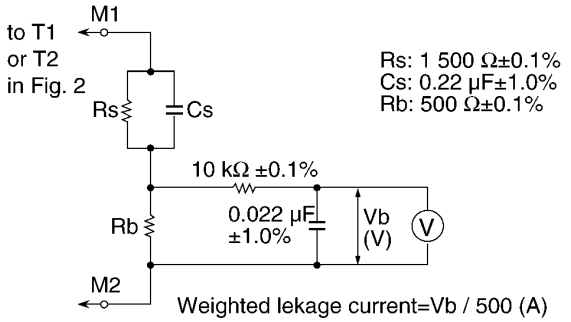


Fig. 1

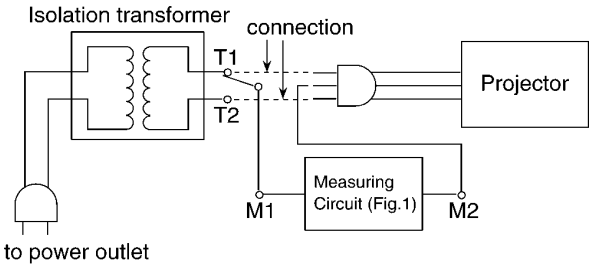


Fig. 2

	Performance
Voltmeter (rms reading)	Accuracy: ≤ 2% Input resistance: ≥ 1 MΩ Input capacitance: ≤ 200 pF Frequency range: 15 Hz to 1 MHz

Table. 2

1.3. UV Precaution and UHM Lamp Precautions

- Be sure to unplug the power cord from the power outlet when replacing the lamp.
- Because the lamp reaches a very high temperature during its operation, wait until it cools completely when replacing the Lamp Unit.
- The lamp emits small amounts of UV-radiation, avoid direct-eye contact with the light.
- The lamp unit has high internal pressure. If improperly handled, explosion might result.
- Because the high pressure lamp involves a risk of failure, never touch the lamp wire lead during the service.

Specifications

Model No.		PT-EX600U / E / UL / EL	PT-EW630U / E / UL / EL
Power supply		AC100 V - 240 V 50 Hz/60 Hz	
Power consumption		100 V - 240 V 4.9 A-2.0 A 490 W	
		When [Standby mode] of [Setting] is set to [ECO]: 0.4 W	
		When [Standby mode] of [Setting] is set to [Network]: 11 W	
		When [Standby mode] of [Setting] is set to [Normal]: 15 W	
LCD panel	**Panel size**	1.93 cm(0.8") (aspect ratio 4 : 3)	1.91 cm(0.75") (aspect ratio 16 : 10)
	Display method	3 transparent LCD panels (RGB)	
	Drive method	Active matrix method	
	Pixels	786 432 (1 024 x 768) x 3 panels	1 024 000 (1 280 x 800) x 3 panels
Lens*1		Motorised zoom (1.6x) / Motorised focus F 1.7 to 2.3, f 26.9 mm to 45.4 mm	
Luminous lamp		330 W UHM lamp	
Light output *2		6 000 lm	5 500 lm
Appli-cable scanning frequency *3	**for RGB signal**	Horizontal 15 kHz to 120 kHz, Vertical 48 Hz to 100 Hz	
		Dot clock frequency: up to 140 MHz	
	for YPBPR signal	[525i(480i)] Horizontal 15.75 kHz, Vertical 60 Hz [525p(480p)] Horizontal 31.5 kHz, Vertical 60 Hz [750(720)/60p] Horizontal 45 kHz, Vertical 60 Hz [1 125(1 080)/60i]Horizontal 33.75 kHz, Vertical 60 Hz [625i(576i)] Horizontal 15.63 kHz, Vertical 50 Hz [625p(576p)] Horizontal 31.25 kHz, Vertical 50 Hz [750(720)/50p] Horizontal 37.5 kHz, Vertical 50 Hz [1 125(1 080)50i] Horizontal 28.13 kHz, Vertical 50 Hz • HD/SYNC and V terminals are not compliant with 3 value composite SYNC	
	for Video signal (in-cluding S-Video)	Horizontal 15.75 kHz / 15.63 kHz, Vertical 50 Hz / 60 Hz	
	for HDMI signal	525p(480p), 625p(576p), 750(720)/60p, 750(720)/50p, 1 125(1080)/60p, 1 125(1 080)/50p, 1 125(1 080)/60i, 1 125(1 080)/50i • Displayable resolution: VGA to WUXGA (non-interlace) • Dot clock frequency: up to 162 MHz	
Color system		7 (NTSC, NTSC4.43, PAL, PAL-N, PAL-M, SECAM, PAL60)	
Projection size		1.01 m-10.1 m(40"-400")	
Screen aspect ratio		4 : 3	16 : 10
Projection scheme		Front / Rear / Mount on Ceiling / Floor (Menu setting system)	
Speaker		1(3.7 cm round-type)	
Maximum usable volume output		10W	
Contrast ratio *1		5 000 : 1 (all white / all black)	

*1: It is only for the model which with lens.
*2: Measurement, measuring conditions and method of notation all comply with ISO21118 international standards.
*3: For details of video signals that can be projected using this projector, refer to “List of compatible signals”.

Model No.		PT-EX600U / E / UL / EL	PT-EW630U / E / UL / EL
Terminals	INPUT 1 <DVI_D> <HDMI> <RGB>	* Choose one item in the menu DVI-D 24-pin (Single link), DVI 1.0 compatible, HDCP compatible) HDMI 19-pin (HDCP and Deep color compatible) D-sub HD 15-pin (female) [RGB signal] 0.7 V [p-p] 75 Ω (When G-SYNC is set 1.0 [p-p] 75 Ω HD/SYNC TTL high impedance, automatic positive/negative polarity compatible VD TTL high impedance, automatic positive/negative polarity compatible	
	INPUT 2 <VIDEO> <YP_BP_R> <RGB,SYNC/HD,VD>	* Choose one item in the menu BNCx1[VIDEO signal] (1.0 V [p-p] 75 Ω) BNCx3[YP_BP_R signal] Y:1.0 V [p-p] including synchronization signal,P_BP_R:0.7V[p-p] 75 Ω BNCx5[RGB signal] 0.7 V [p-p] 75 Ω (When G-SYNC is set 1.0 [p-p] 75 Ω HD/SYNC TTL high impedance, automatic positive/negative polarity compatible VD TTL high impedance, automatic positive/ negative polarity compatible	
	INPUT 3 <VIDEO> <YP_BP_R/YC_BC_R> <S-VIDEO>	* Choose one item in the menu RCA x 1 [VIDEO signal] (1.0 V [p-p] 75 Ω) RCA x 3 [YP_BP_R signal] Y:1.0 V [p-p] including synchronization signal ,P_BP_R:0.7V[p-p] 75 Ω Mini DIN 4 pin [S-VIDEO signal] Y 1.0 V [p-p],C 0.286V [p-p] 75 Ω,S1 signal compatible	
	<MONITOR OUT>	1 (D-sub HD 15 pin (female) [RGB signal] 0.7 V [p-p] 75 Ω (When G-SYNC is set 1.0 [p-p] 75 Ω	
	<AUDIO IN>	2 (M3 stereo mini jack, 0.5 V [rms], input impedance 22 KΩ and more) 1 (RCA pin jack x 2 (L-R), 0.5 V [rms], input impedance 22 KΩ and more)	
	<VARIABLE AUDIO OUT>	1 (M3 stereo mini jack, stereo monitor output compatible, 0 V [rms] to 2.0 V [rms] valuable, output impedance 2.2 kΩ and less)	
	<SERIAL IN>	1 (D-sub 9 pin, RS-232C compliant, for computer control use	
	<LAN>	1 (for RJ-45 network connection, PJLink compatible)	
Power cable length		3.0 m(118.1")	
Cabinet		Molded plastic	
Dimensions		Width: 489.5 mm (19.27") Height: 164 mm (6.46") (when front adjustable foot shortened) Depth: 370.1 mm (14.57")*4 (including protractions) 433.8 mm (17.08")*5 (including protractions)	
Weight		Approx. 9.6 kg(21.12 lbs.) *6 Approx. 10.3 kg(22.71 lbs.) *7	
Operating environment		Operating environment temperature: 0 °C (32 °F) to 40 °C (104 °F)*8 Operating environment humidity: 20 % to 80 % (no condensation)	
Remote control	Power supply	DC 3 V (battery (AAA/R03 or AAA/LR03 Type) x 2)	
	Operating range	Approx. 5 m (196.9") (when operated directly in front of receptor)	
	Weight	102 g (3.6 ozs.) (including batteries)	
	Dimensions	Width : 48 mm (1.89"), Length : 145 mm (5.71"), Height : 27 mm (1.06")	

*4: The depth is for the projector that without the projection lens.
*5: The depth is for the projector that with the standard projection lens.
*6: This is an average value. It may differ depending on individual product. It is only for PT-EX600UL, PT-EX600EL, PT_EW630UL and PT-EW630EL.
*7: This is an average value. It may differ depending on individual product. It is only for PT-EX600U,PT-EX600E, PT-EW630U and PT-EW630E.
*8: When using the projector at high elevation 1 000m to 2 700m sea level, the operating environment temperature will be 0 °C to 30 °C.
• The part numbers of accessories and separately sold components are subject to change without notice.

Circuit Protections

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

Fuse(F601)

A fuse is located inside of the projector. When the ON(G)/ STANDBY(R) indicator is not lighting, the fuse may be opened. Check the fuse as following steps.
The fuse should be used with the type listed right;

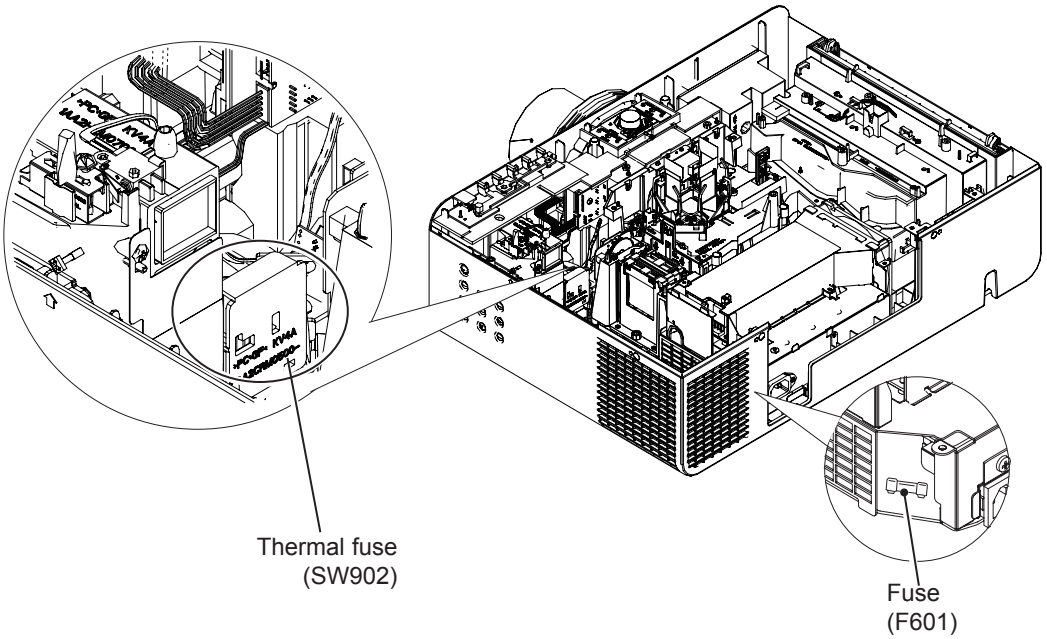
How to replace the fuse

1. The fuse is placed on the power board under the main board. Remove the cabinet top, main&AV board and exhaust fan assy.
2. Take the fuse off, and replace the old one with the specified type.

Fuse Part No: 423 035 4704
TYPE T10AH 250V FUSE
LITTEL FUSE INC. TYPE 0215010.MXEP

Thermal fuse(SW902)

There is the thermal fuse (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 113˚C, the thermal fuse opens to cut off the power to the power circuit.
If the thermal fuse opens, the projector cannot turn on. Thermal fuse replacement is required.



Mechanical sensor switches

This projector provides 2 mechanical sensor switches, the one is for air filter unit switch (SW1891) and the other one is for lamp cover switch(SW901).

The projector is shut down and the < ON(G)/STANDBY(R)> indicator lights in red and other indicators are blinking.

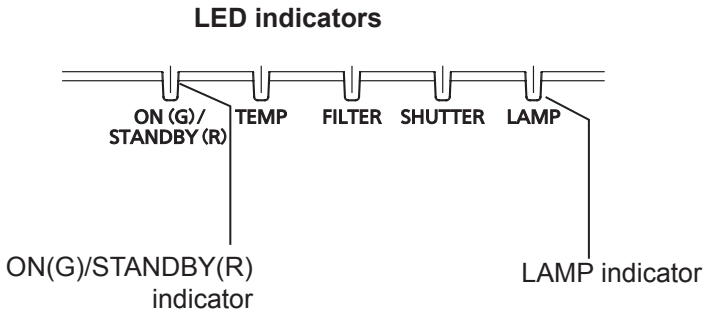
The air filter unit switch (SW1891) detects whether the air filter unit is installed correctly. If the air filter unit switch is not installed correctly, the projector cannot turn on. In this case, the <ON(G)/STANDBY(R)> indicator lights in red and other indicators are blinking.

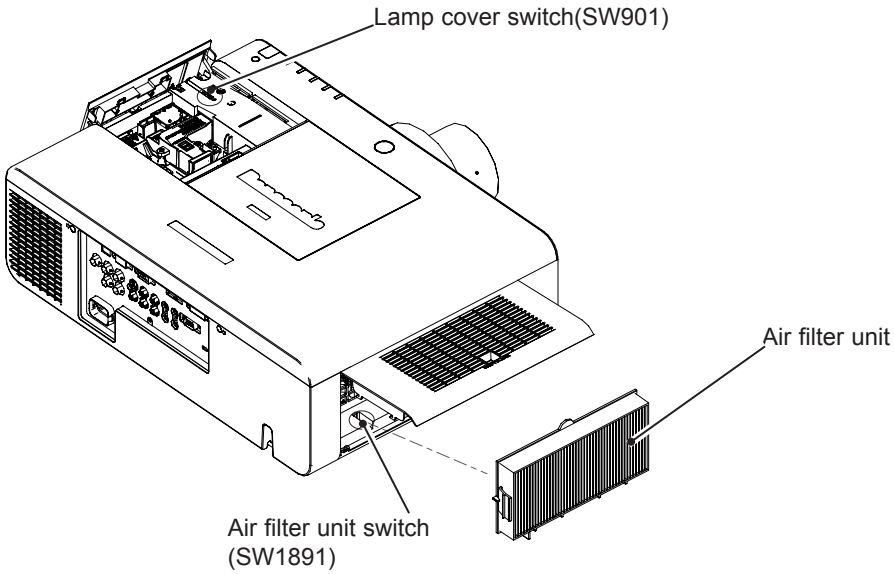
- Check that the lamp cover is installed securely.

The projector is shut down and the < ON(G)/STANDBY(R)> and <LAMP> indicators are blinking.

The lamp cover switch (SW901) detects whether the lamp cover is closed securely. If lamp cover is opened or not closed completely, the drive signal to the lamp circuit is cut off. After opening the lamp cover for replacing the new lamp assy, place the lamp cover correctly otherwise the projector cannot turn on.

- Check that the air filter unit is installed securely.

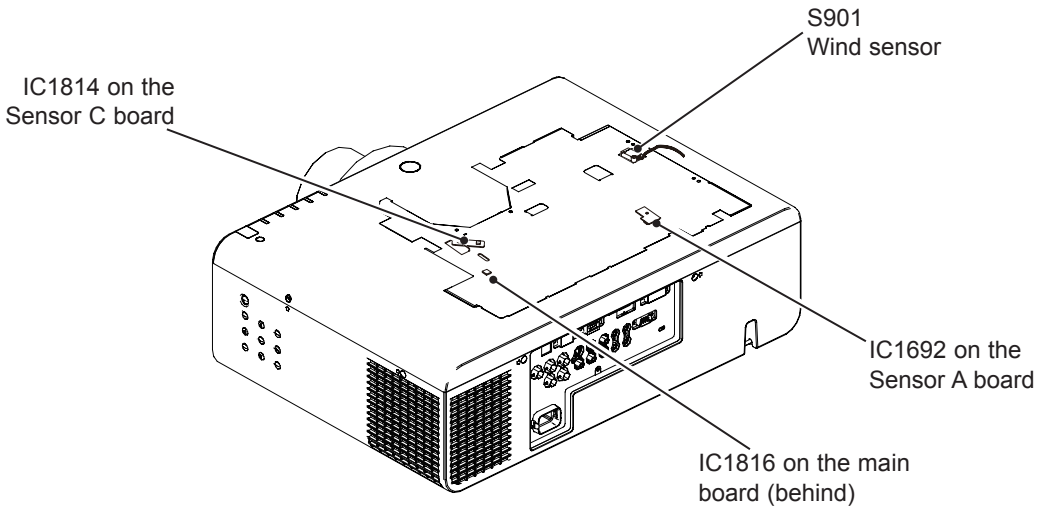




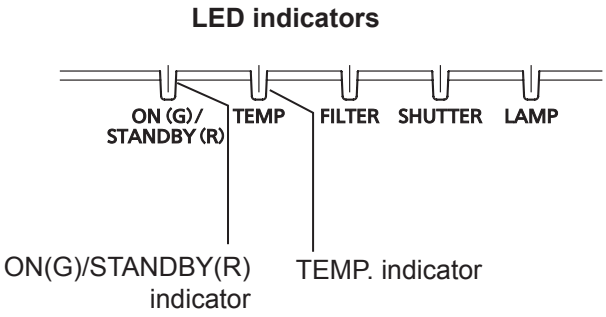
Temperature sensors, wind sensors

The projector provides 3 temperature sensor ICs and 1 wind sensor on the intake duct. These devices are monitoring the surrounding temperature of the lamp, panel and intake duct, and the wind sensor is monitoring airflow passed through the air filter in the intake duct.

- Internal temperature sensor A (IC1692) (around the Intake duct)
- Internal temperature sensor B (IC1816) (around the lamp house)
- Internal temperature sensor C (IC1814) (around the panel/prism)
- Wind sensor D (S901) (intake duct)



Top view of the LED indicators



The projector is shut down and the < TEMP> indicator is blinking red.

When the temperature inside the projector reaches a certain level, the <TEMP> indicator starts blinking slowly. If the temperature rises moreover, the projector will be automatically shut down to protect the inside of the projector, and the <TEMP.> indicator is blinking fast and the <ON(G)/STANDBY(R)> indicator lights in orange. When the projector has cooled down enough (to its normal operating temperature), the <ON(G)/STANDBY(R)> indicator lights in red and the projector can be turned on again by pressing the ⏻/| button.

✔Note:

• The <TEMP> indicator continues to blink even after the temperature inside the projector returns to normal. When the projector is turned on again, the <TEMP> indicator stops blinking.

Check the items below

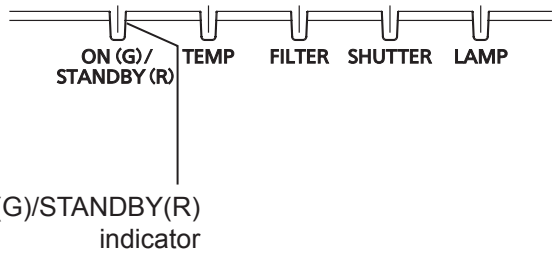
- Remove dust around the air filter.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal; operating temperature is 0 to 40 ºC or 32 to 104 ºF).

Power failure and fan lock detection

The projector provides the detection circuits of the power failure and the fan lock. When the detection circuit detects an error at the power supply line or at the fan operation circuit, the projector will turn into the standby mode to protect the other circuits defective.

Top view of the LED indicators

LED indicators



The projector is shut down and all indicators are blinking.

When the projector detects an abnormal condition (Power supply lines failure , fans failure), it will be automatically shut down to protect the inside of the projector and all of indicators blink. In this case, unplug the AC power cord and plug it, and then turn on the projector once again to verify operation. If the projector cannot be turned on and these indicators are still blinking, the projector may has an internal error. Unplug the AC power cord. See the troubleshooting chapter.

WARNING

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

Maintenance

Before replacing the unit

When you perform maintenance or replacement of the parts, make sure to turn off the power and disconnect the power plug from the wall outlet.

Maintenance

■ Outer case

Wipe off dirt and dust using a soft dry cloth.

- If the dirt is persistent, soak the cloth with water and wring it thoroughly before wiping. Dry off the projector with a dry cloth.
- Do not use benzene, thinner, or rubbing alcohol, other solvents, household cleaners. Using them may cause deterioration of the outer case.
- When using chemical treated dusters, follow its instruction.

■ Front glass surface of the lens

Wipe off the dirt and dust off the front surface of the lens with soft clean cloth.

- Do not use a cloth that has an abrasive surface or a cloth that is moist, oily, or covered with dust.
- Do not use excessive force when wiping the lens as it is fragile.

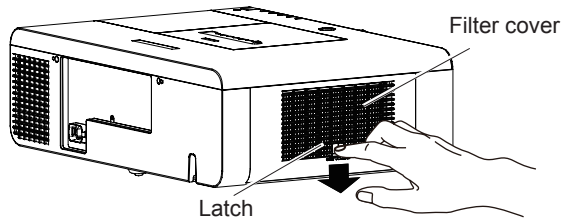
Attention

The lens is made of glass. Impacts or excessive force when wiping may scratch its surface.
Please handle with care.

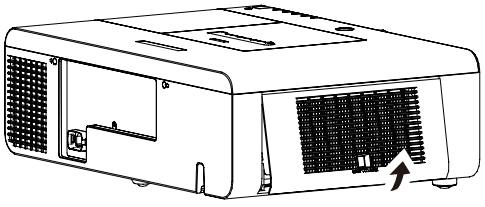
■ Air filter unit

Clean the air filter unit in the following cases.

- When the replacement message is displayed and the filter indicator <FILTER> lights up due to a blockage.
- The temperature inside the projector becomes high and the temperature indicator <TEMP> lights, causing the projector turn off, due to a blockage. (When the power if turned off, temperature indicator <TEMP> flashes and standby indicator <ON(G)/STABDBY(R)> lights in red.)



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

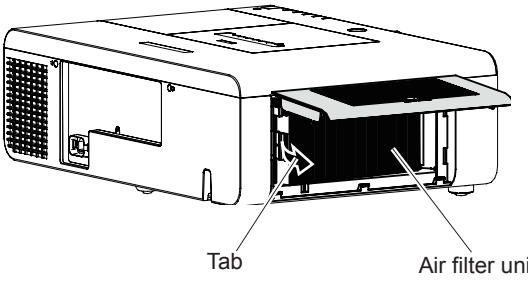


2) Clean up the dust on the projector and around the air vents.

3) Press ▼ downwards on the filter cover to release the latch and open the filter cover.

4) Pull out the air filter unit.

- Pick the tab and frame of the air filter unit, release the lock with pressing the tab rightwards in the figure, and then pull.



5) Clean the air filter unit.

✧ Removing the dust from the air filter unit

(i) Remove the dust from the air filter unit using a vacuum or other cleaner.

• If the dust persists after cleaning with a vacuum, wash the air filter unit in water.

✧ Washing the air filter unit

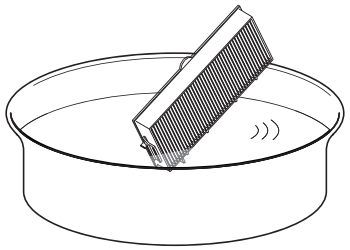
(i) Soak the air filter unit in water or warm water and rinse it lightly.

• Do not use materials such as blushes or detergent.

• When you rinse the air filter unit, hold the frame and avoid excessive force on the filter part.

(ii) Change the water two or three times while you rinse the air filter unit.

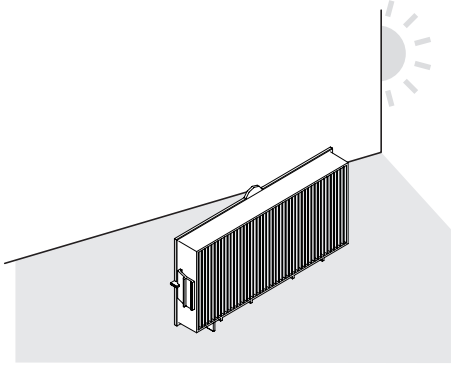
• Rinse it until the cloud of the water clears. If the air filter unit is not rinsed sufficiently, odor may result.



✧ Drying the air filter unit

Naturally dry the air filter unit in a well-ventilated place, avoiding dust and direct sunlight.

• Do not use a hair drier or other drier.



6) Attach the air filter unit.

✧ Hold the air filter unit that the tab is in left side in the figure. put the right side in the figure first, and press the tab side until make a click sound.

7) Close and press up to lock the filter cover.

✧ Make sure that the air filter cover is closed tightly.

8) Reset the filter counter.

✧ Turn on the power and perform [Filter counter reset] in the [Setting] menu.

Attention

✧ After washing the air filter unit, dry it thoroughly before attaching to the projector. Attaching wet air filter may cause electric shock or malfunction.

Note

✧ Be sure to attach the air filter unit properly. If you use the projector without attaching the air filter unit, the projector may be damaged due to the dirt or dust.

✧ If the air filter unit has been damaged or dirt remains even after washing it, replace it with a a new filter.

✧ It is recommended that the air filter unit is replaced after two times of cleaning and reusing.

✧ After washing, the capability of the air filter unit may decrease.

✧ After washing the air filter unit, reset the filter counter. Otherwise, the power of the projector may be turned off for safety.

Replacing the unit

■ Air filter unit

The replacement filter is optional. To purchase the product, consult your dealer.

Replacement air filter unit : ET-RFE200

Reset the filter counter.

- Turn on the power and perform [Filter counter reset] in the [Setting] menu.

Attention

- Turn off the power before you replace the air filter unit.
- When attaching the air filter unit, make sure that the projector is stable, and work in an environment that is safe, even in the event of the air filter unit dropping.
- Do not operate the projector with the air filter unit removed. Dust may accumulate on the optical elements degrading picture quality.
- After replacing the air filter unit, reset the filter counter. Otherwise, the power of the projector may be turned off for safety.

■ Lamp unit

The lamp unit is a consumable component. You can check the total usage time using lamp runtime in the information menu.
It is recommended to ask an authorized engineer to replace the lamp unit. Contact your dealer.
Consult your dealer to purchase a replacement lamp unit.

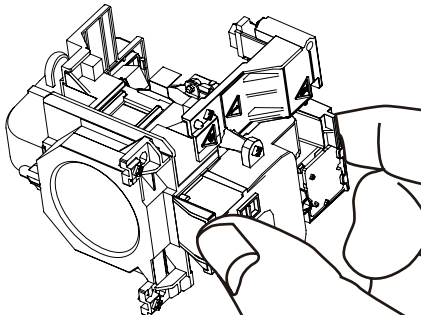
Replacement lamp unit : ET-LAE200

CAUTION:

■ Do not replace the lamp unit when it is hot. (Wait at least 1 hour after use.)
The inside of the cover can become very hot, take care to avoid burn injuries.

■ Notes on the replacement of the lamp unit

- The luminous source of the lamp is made of glass and may burst if you hit it against a hard surface or drop it. Please handle with care.
- A phillips screwdriver is required for replacement of the lamp unit.
- When replacing the lamp unit, be sure to hold it by the handle.
- When replacing the lamp because it has stopped illuminating. There is a possibility that the lamp may be broken. If replacing the lamp of a projector which has been installed on the ceiling. you should always assume that the lamp is broken. And you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently .Small pieces of glass may fall out when the lamp cover is opened. If pieces of glass get into your eyes or mouth. Seek medical advice immediately.
- The lamp contains mercury. Consult your local municipality or your dealer about correct disposal of used lamp units.



Attention

- Do not use other than designated lamp units.
- The part numbers of accessories and separately sold components are subject to change without notice

■ When to replace the lamp unit

The lamp unit is a consumable component. Brightness decreases according to duration of usage, so periodical replacement of the lamp unit is necessary. When the projection lamp of the projector reaches its end of life, the lamp replacement icon appears on the screen and <LAMP> indicator lights yellow. Replace the lamp with a new one promptly.

Lamp runtime	On screen Lamp replacement icon 	LAMP indicator 
Over 3000 hours*	The message is displayed for 10 seconds. If you press any button within the 10 seconds, the message disappears.	Lights in yellow (even in stand-by mode).
Over 3200 hours*	If the power is turned on without replacing the lamp, the power automatically turns off after approximately ten minutes to prevent the malfunction of the projector.	

* 3200 hours of use is a rough guideline, but is not a guarantee. The lamp runtime differs depending on the setting of "Lamp power" menu.

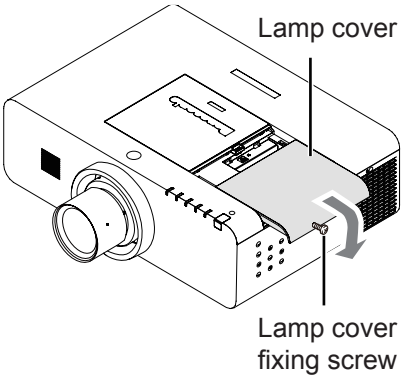
Note

- The lamp replacement icon will not appear when the [display] function is set to [Off], or during "Freeze".

Replacing the lamp unit

CAUTION:

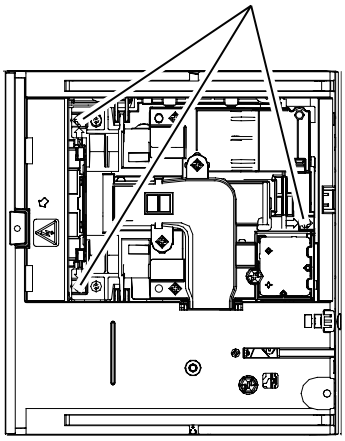
- When the projector is mounted on a ceiling, do not work with your face close to the projector.
- Attach the lamp unit and the lamp cover securely.
- When you experience difficulty in installing the lamp, remove it and try again. If you use force to install the lamp, the connector may be damaged.



1) Turn off the projector. Unplug the AC power cord. Wait at least 1 hour and make sure the lamp unit and surroundings are cool.

2) Use a phillips screwdriver to loosen the lamp cover fixing screw and remove the lamp cover.
- Remove the lamp cover by pulling it slowly toward the direction of the arrow.

Lamp unit fixing screws

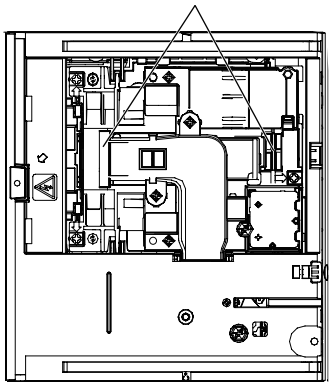


3) Use a phillips screwdriver to loosen the three lamp unit fixing screws until the screws turn freely. hold the used lamp unit by its handles, and pull it gently from the projector.

4) Insert the new lamp unit in correct direction. Tighten the three lamp unit fixing screws securely with a phillips screwdriver.

5) Attach the lamp cover, and tighten the lamp cover fixing screw securely with a phillips screwdriver.
- Attach the lamp cover by pushing it slowly opposite the direction of the arrow.

Handles



Attention

- When you replace the new lamp unit, the projector resets the total usage time of the lamp unit automatically.

How to check lamp runtime

The LAMP indicator will light yellow when the lamp runtime (Corresponding value) reaches 3,000 hours. This is to indicate that lamp replacement is required. The lamp runtime is calculated by using the below expression.

Lamp runtime (Corresponding value) = **T**normal + **T**eco x 0.75

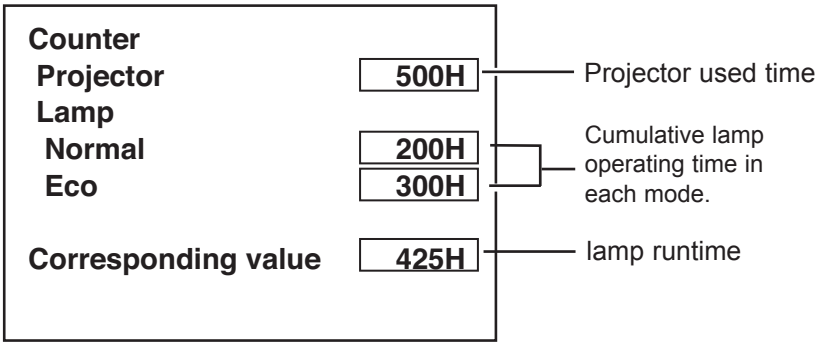
Tnormal : used time in the Normal and Auto mode

Teco : used time in the Eco1 and Eco2 mode

You can check the lamp runtime following to the below procedure.

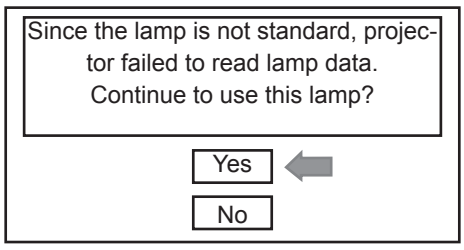
1 Press and hold the ⏻/I button on the projector or the **POWER ON** button on the remote control for more than 20 seconds.

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



Warning message on the non-standard lamp used

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



Quick maintenance

This projector provides a cabinet prism cover on the cabinet top to enhance the service maintenance. This enables service personnel to align the optical adjustment or replace the optical parts without disassembly the cabinet top.

1 Loosen 1 screw-A on the lamp cover and slide it to open (Fig. 1).

2 Loosen 1 screw-B on the prism cover and slide it in the arrow direction (Fig. 2).

3 Remove 2 screws-C(M3x6) and 1 screw-G(M3x10) to take the prism cover shield (Fig.3) then Loosen 1 hex screw-F and take the shutter assy off (Fig. 4).

4 Loosen 3 screws-D and take the LCD panel/prism assy upward off (Fig. 5/Fig. 7).

5 Remove 2 screws-E on each stopper of the polarized glass assy and take the polarized glass assy upward off (Fig. 5/Fig. 7).

See chapter "Optical Parts Disassembly" for further information of the optical parts disassembly.

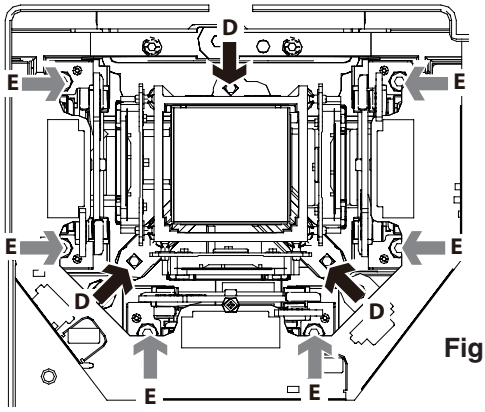


Fig. 7

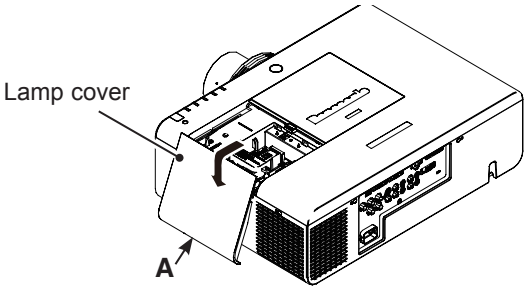


Fig. 1

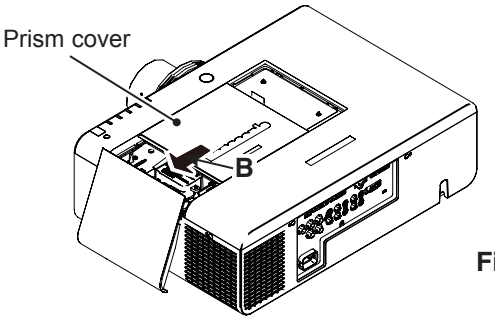


Fig. 2

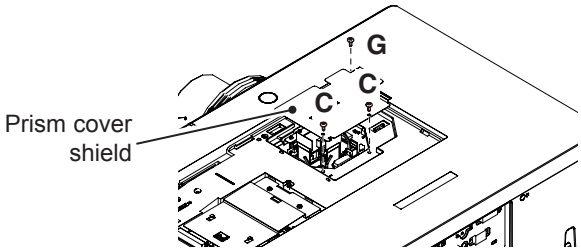


Fig. 3

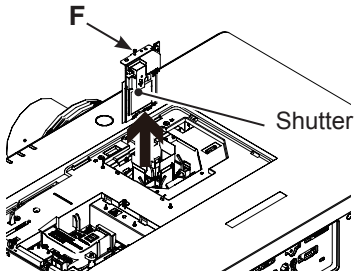


Fig. 4

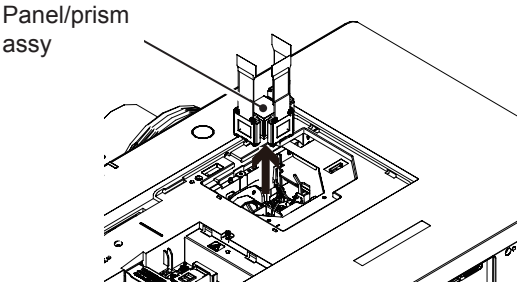


Fig. 5

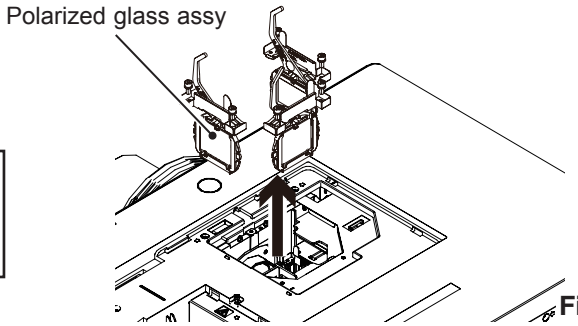
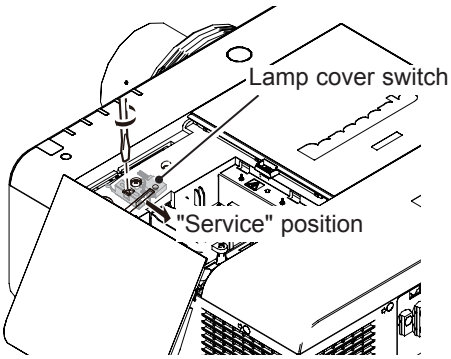


Fig. 6

Setting the lamp cover switch to "Service"

When aligning the optical parts with the lamp cover open, the projector cannot be turned on because the lamp cover switch is off. Insert the flat screw driver into the opening on the switch and set the lamp cover switch to "service" position as shown in the figure below.



After finishing the alignment, make sure that the lamp cover switch is reset to its original position, and close the prism cover and lamp cover securely.

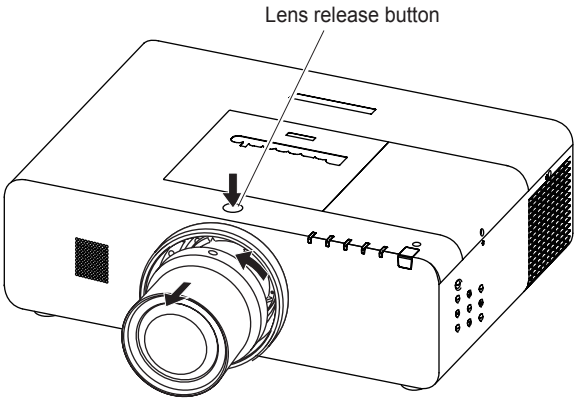
Removing and attaching the projection lens

When replacing the lens or using an optional lens, install the lens by following the instructions below. Ask the sales dealer for detailed information of the optional lens specifications.

■ Removing the lens

1. Press and hold the **<LENS>** button or **<LENS SHIFT>** button for more than 5 seconds to make the lens return to the central position.
2. Turn off the projector and unplug the AC power cord.
3. While pressing the lens release button, rotate the projection lens counterclockwise, and remove the projection lens.

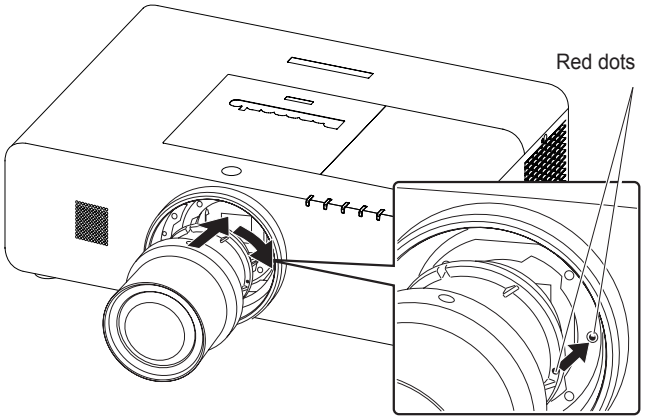
✧ Be careful when handling the lens. Do not drop.



■ Attaching the lens to the projector

1. Remove the lens mount cover.
2. Fit the lens to the projector by aligning the red dot on the lens with the red dot of the projector.
3. Slowly turn the lens clockwise until it clicks. Make sure that the lens is fully inserted to the projector.

✧ Do not press the lens release button when attaching the lens.



Using the lens antitheft screw

This projector provides a lens antitheft screw to protect the projection lens stolen from a suspicious person. Mount the lens antitheft screw by following the instructions below.

Mounting the lens antitheft screw

1 Loosen a screw-A on the lamp cover and slide it to open (Fig. 1).

2 Loosen a screw-B on the prism cover and slide it in the arrow direction (Fig. 2).

3 Insert the lens antitheft screw onto the screw hole on the cabinet top and turn it until the lens release button is locked (Fig. 3).

4 Close the prism cover and tighten the screw-B, and close the lamp cover and tighten the screw-A.

Check that the lens release button is locked to protect the projection lens removing.

Note: Be careful not to drop the lens antitheft screw into the opening of the projector when mounting the screw.

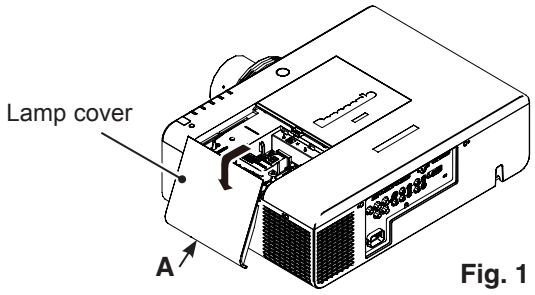


Fig. 1

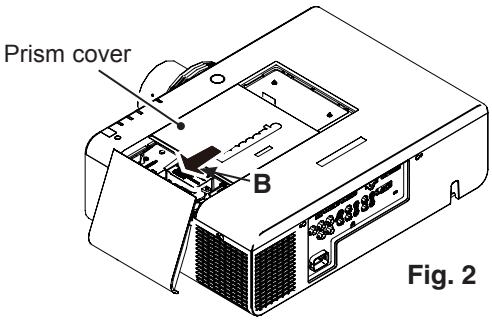


Fig. 2

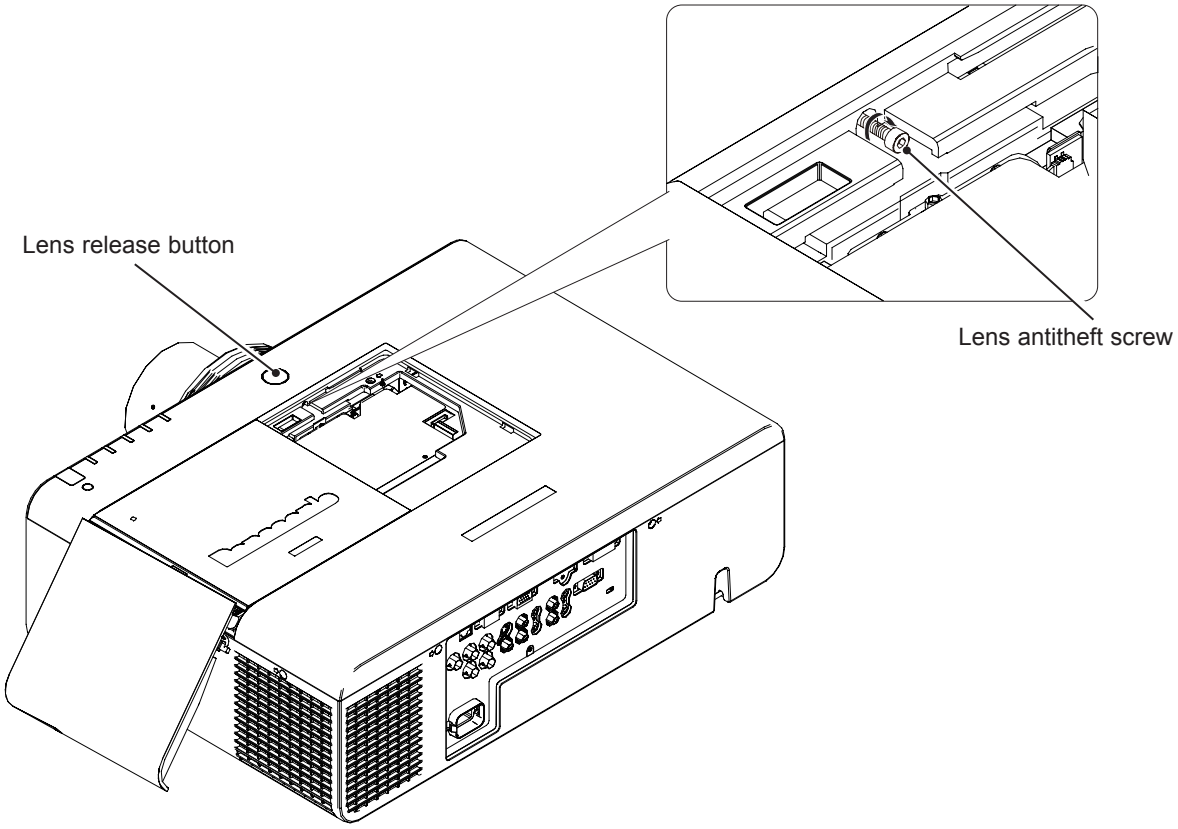


Fig. 3

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

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

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

Disassembly cleaning

Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.
Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassembly”.
2. Remove the optical base top following to “Optical Unit Disassembly”. 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.

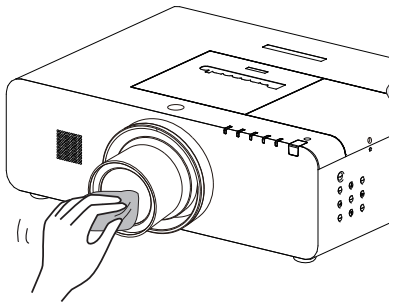
Caution:
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

Cleaning the projection lens

Unplug the AC power cord before cleaning.

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

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

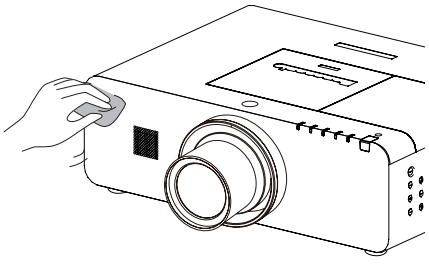


Cleaning the projector cabinet

Unplug the AC power cord before cleaning.

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

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



Security Function Notice

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

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

Resetting procedure

1. Disconnect the AC power cord from the AC outlet.
2. As pressing the **ENTER** button, connect the AC power cord into an AC outlet again.
3. Keep pressing the **ENTER** button and then press the ⏻/| button.
4. Release the ⏻/| button first and then release the **ENTER** button.

- The PIN code lock and Logo PIN code lock will be 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.

Standby Mode Notice

This projector provides 3 types of standby mode, Normal standby mode, Eco standby mode and Network standby mode. According to the standby mode "Normal", "Eco" or "Network", several functions are restricted as shown in the table below. To change the standby mode, use the projector's menu "Setting".

Normal..... Normal standby mode.
Network..... Supply the power to the network function even after turning off the projector. You can turn on /off the projector via network, modify network environment, and receive an e-mail about projector status while the projector is powered off.
Eco..... Select "Eco" when you do not use the projector via network. The projector's network function will stop when turning off the projector.

When "Eco" is selected, several functions will be restricted.

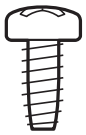
Restricted function in the standby mode

Function	Normal	Eco	Network
Network	✔	--	✔
Serial command control	✔	--	✔
Monitor out	✔	--	--
Audio out	✔	--	--
RC sensor setting	✔	✔*1	✔

*1 When "Eco" is selected, all of the infrared remote receivers, top, front or rear are activated in the eco standby mode regardless of the RC sensor setting.

Mechanical Disassembly

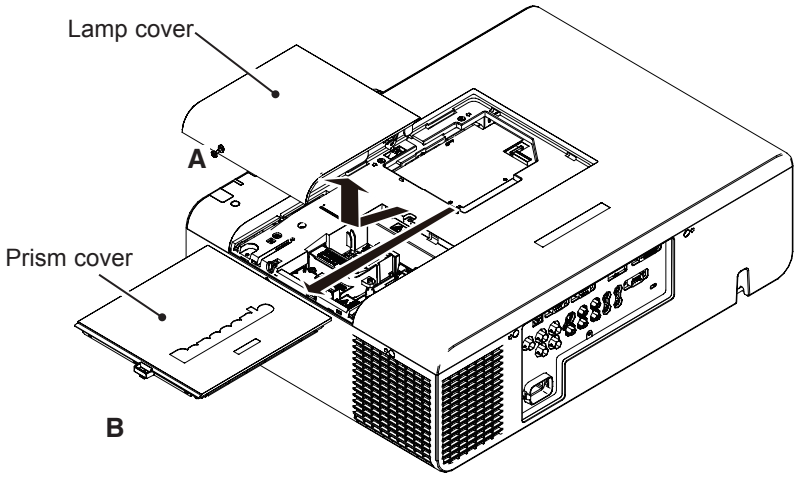
Mechanical disassembly should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.
Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

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

1. Lamp cover and prism cover removal
2. Cabinet top removal
3. Fan (FN905) and main&AV board removal
   - → 3-1. Main board and A/V board removal
4. Shutter and sensor C board removal
5. Lamp, lamp cover and ID connect board removal
6. Projection lens removal
7. Optical unit removal
   - → 7-1. Lens shift assy and Iris assy removal
8. Power box and thermal SW (SW902) removal
   - → 8-1. Thermal fuse replacing
   - → 8-2. Power box disassembly and fan (FN901) removal
9. Control board and fans (FN902, FN903, FN904) removal
10. Filter assy removal
11. Fans (FN908, FN909, FN910) removal
12. Fans (FN906, FN907, FN911) and speaker removal
13. Cable reforming

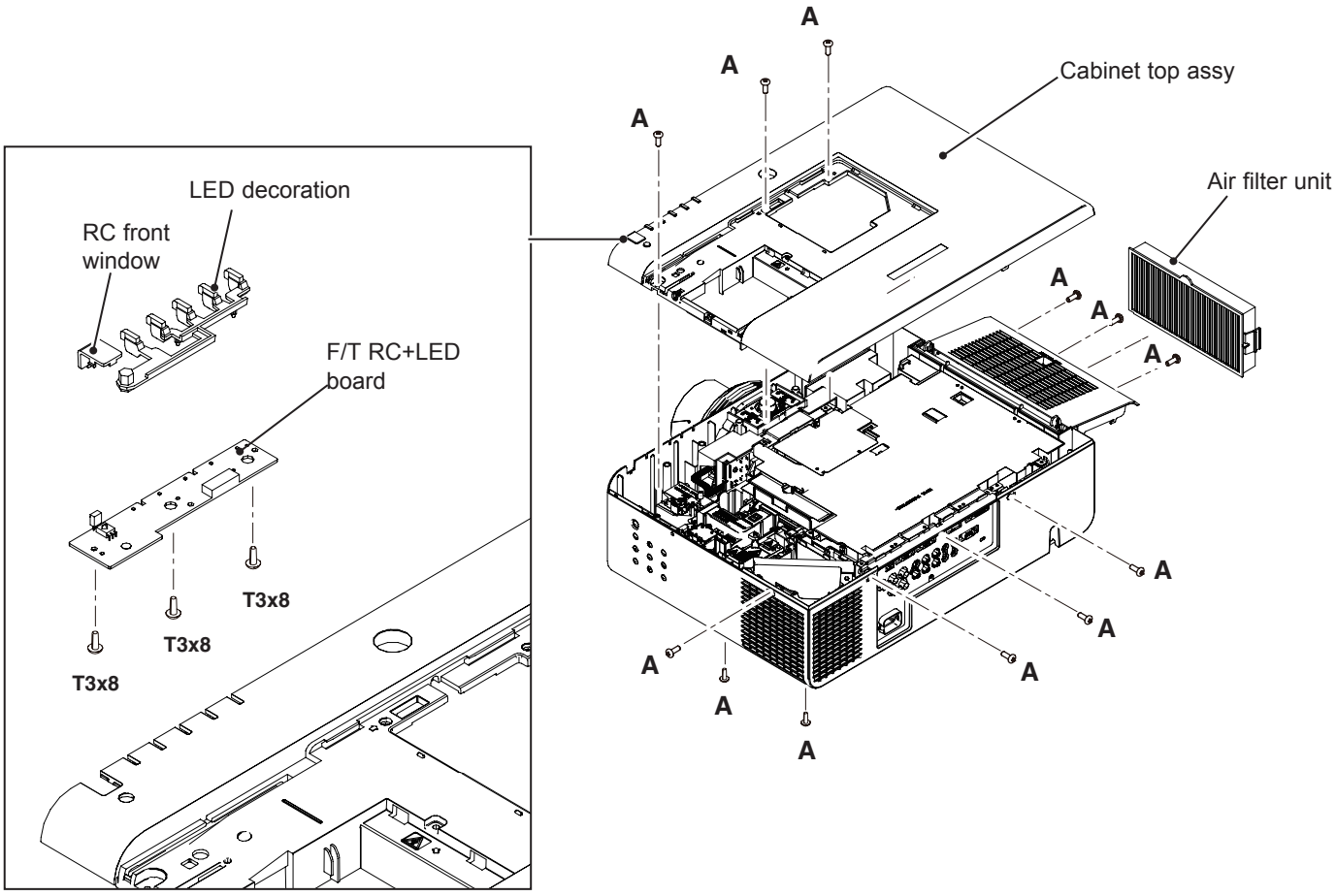
1. Lamp cover and prism cover removal

1. Loosen 1 screw-A and remove the lamp cover upward off.
2. Loosen 1 screw-B and remove the prism cover by sliding it in the arrow direction.



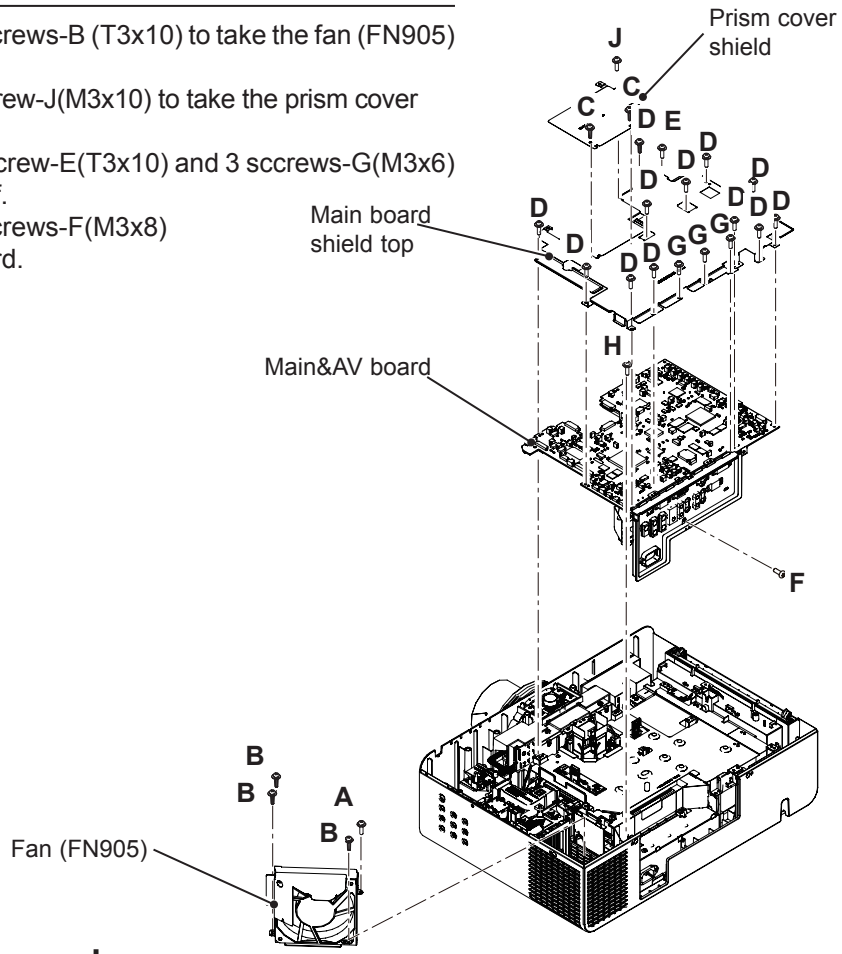
2. Cabinet top removal

1. Open the filter cover and remove the air filter unit.
2. Remove 12 screws-A (M3x8) to take the cabinet top assy upward off.



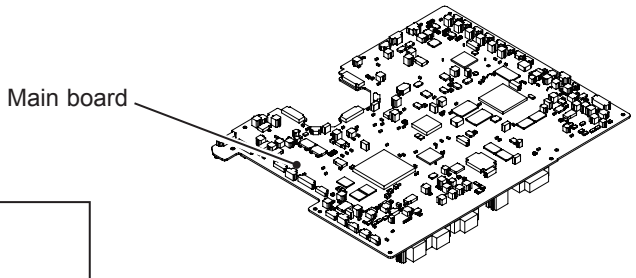
3. Fan (FN905) and main&AV board removal

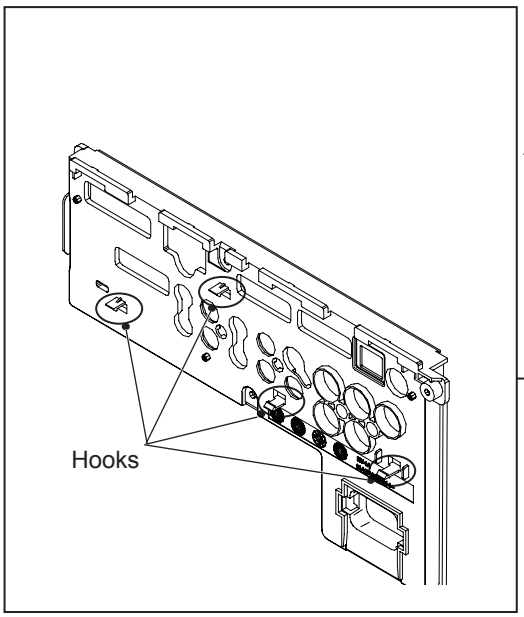
1. Remove 1 screw-A (M3x10) and 3 screws-B (T3x10) to take the fan (FN905) upward off.
2. Remove 2 screws-C(M3x6) and 1 screw-J(M3x10) to take the prism cover shield off.
3. Remove 12 sccrews-D(M3x10) , 1 screw-E(T3x10) and 3 sccrews-G(M3x6) to take the main board shield top off.
4. Remove 1 screw-H(M3x10)and 1 screws-F(M3x8) and then remove the main&AV board.

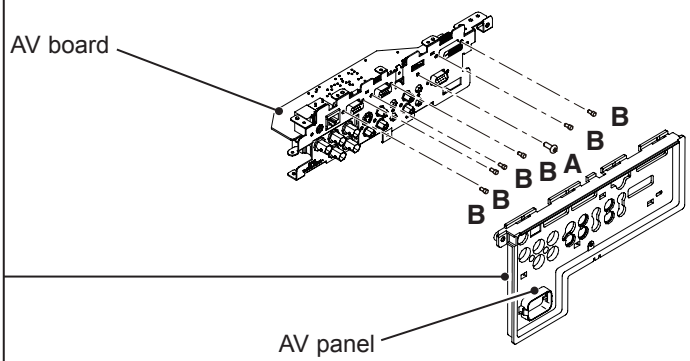


3-1.Main board and A/V board removal

1. Release the 4 hooks to remove the AV panel.
2. Remove 6 hex-screws-B and 1 screw A (M3x8) to remove the AV board from the main board.

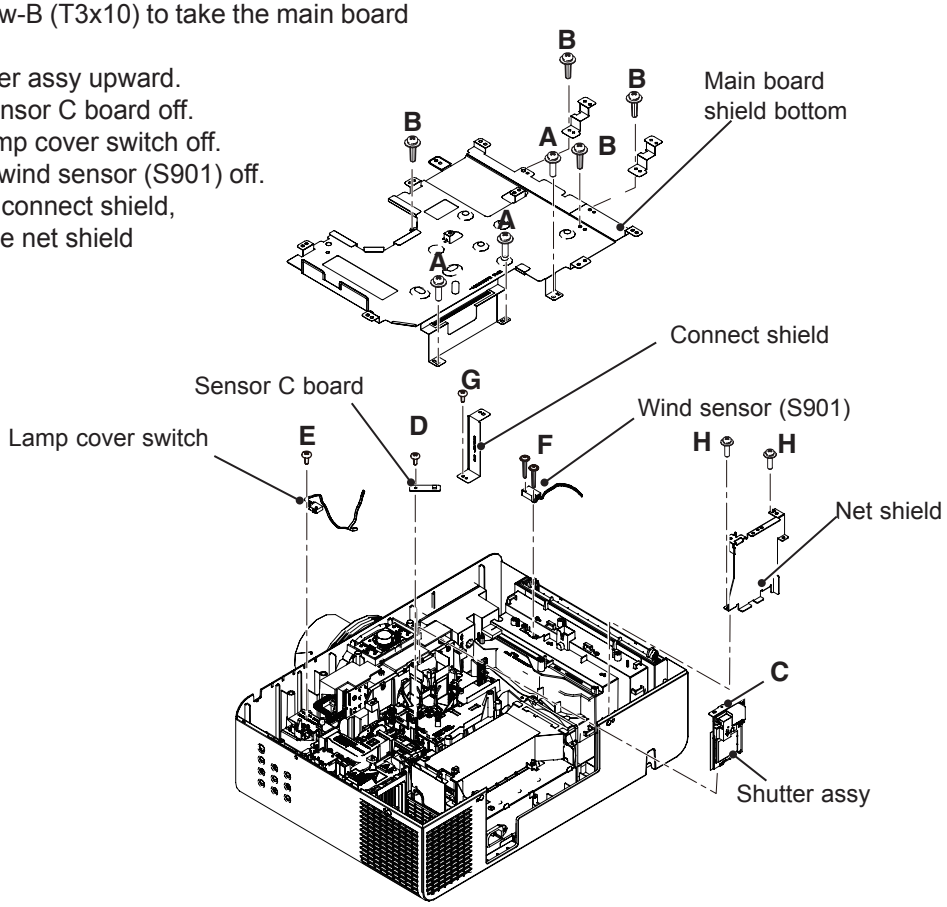






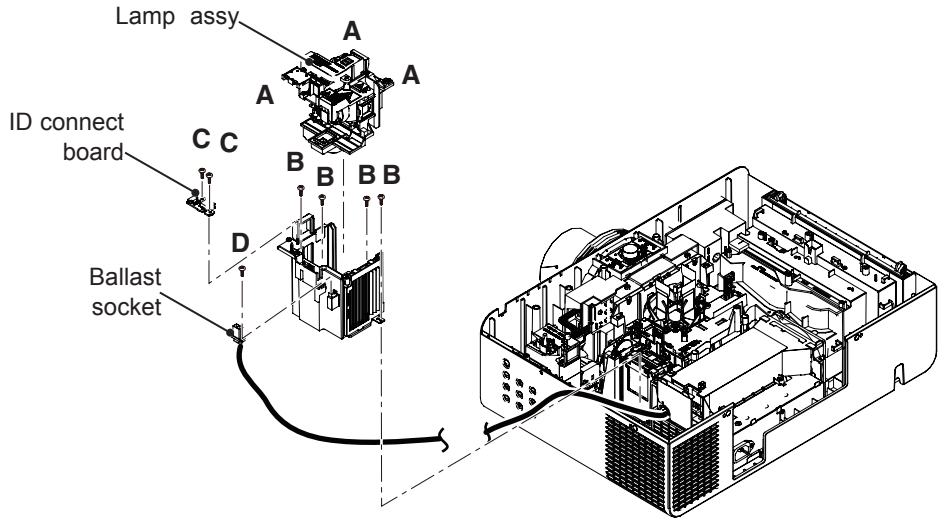
4. Shutter and sensor C board removal

1. Remove 3 screws-A (M3x10) and 4 screw-B (T3x10) to take the main board shield bottom.
2. Loosen 1 hex screw-C and pull the shutter assy upward.
3. Remove 1 screw-D (T3x8) to take the sensor C board off.
4. Remove 1 screw-E (T3x8) to take the lamp cover switch off.
5. Remove 2 screws-F (T3x14) to take the wind sensor (S901) off.
6. Remove 1 screws-G (T3x10) to take the connect shield, and remove 2 screw-H (T3x10) to pull the net shield upward.



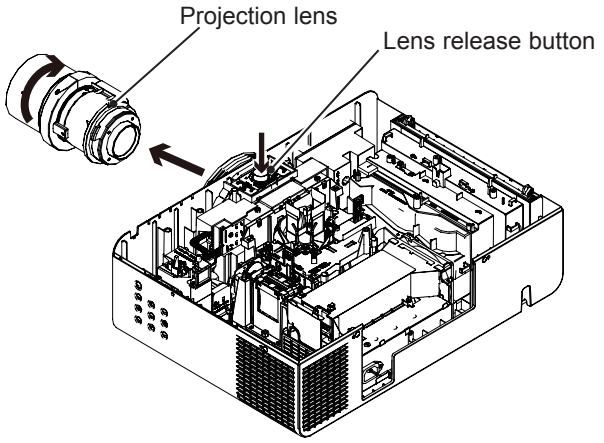
5. Lamp, lamp cover and ID connect board removal

1. Loosen 3 screws-A and pull the lamp assy upward.
2. Remove 4 screws-B (T3x8) to take the lamp house holder upward off.
3. Remove 2 screws-C (T3x8) to take the ID connect board.
4. Remove 1 screw-D (T3x10) to remove the ballast socket.



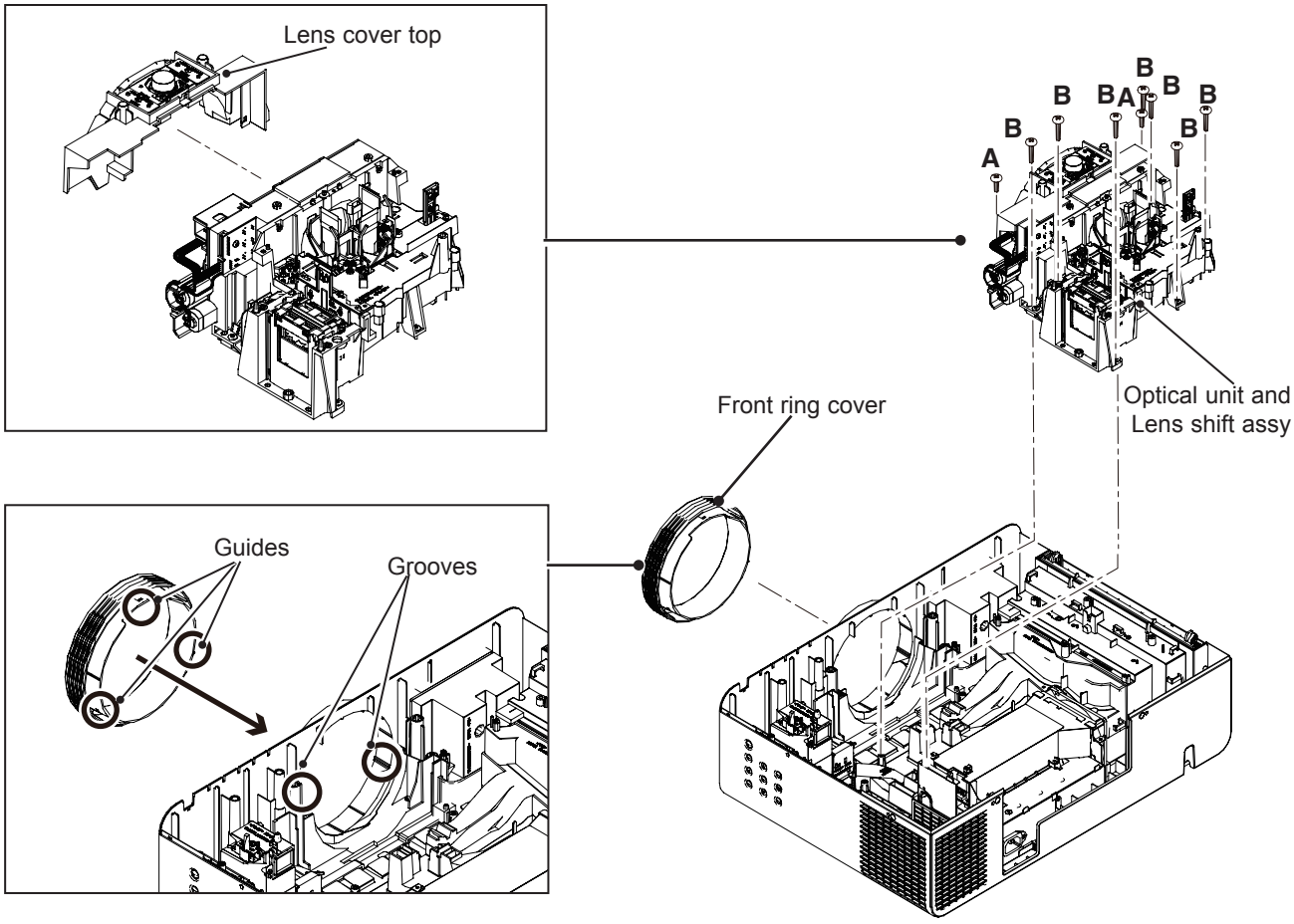
6. Projection lens removal

1. Press and hold the lens release button and turn the projection lens counter-clockwise until it stops and put it out slowly.



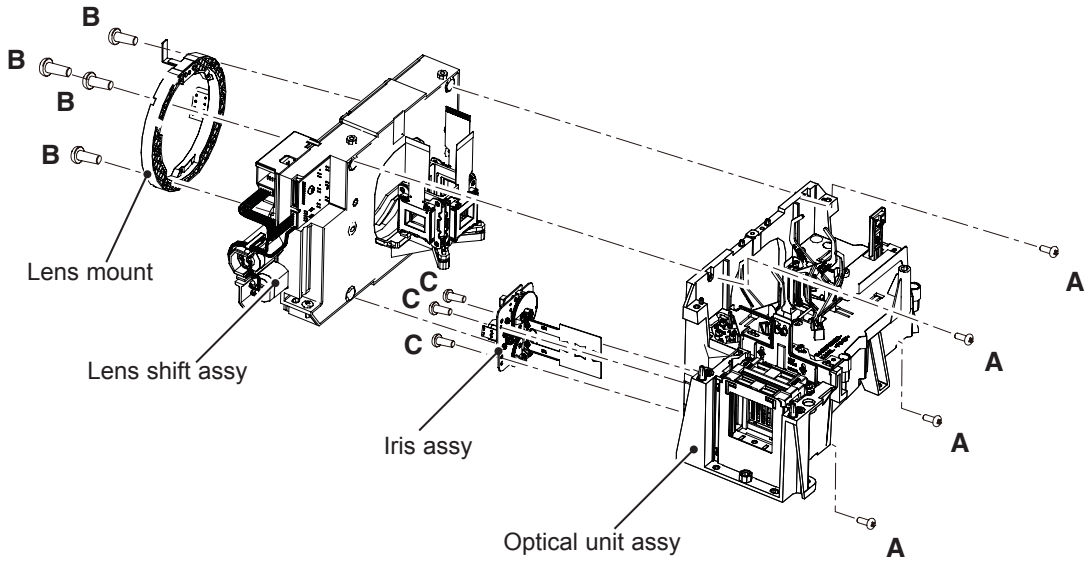
7. Optical unit removal

1. Remove 2 screws-A (T3x8)and 7 screws-B (T4x10) and remove the optical unit assy and lens shift assy.
2. Loose the lens cover top.
3. Remove the front ring cover by pressing it from back.



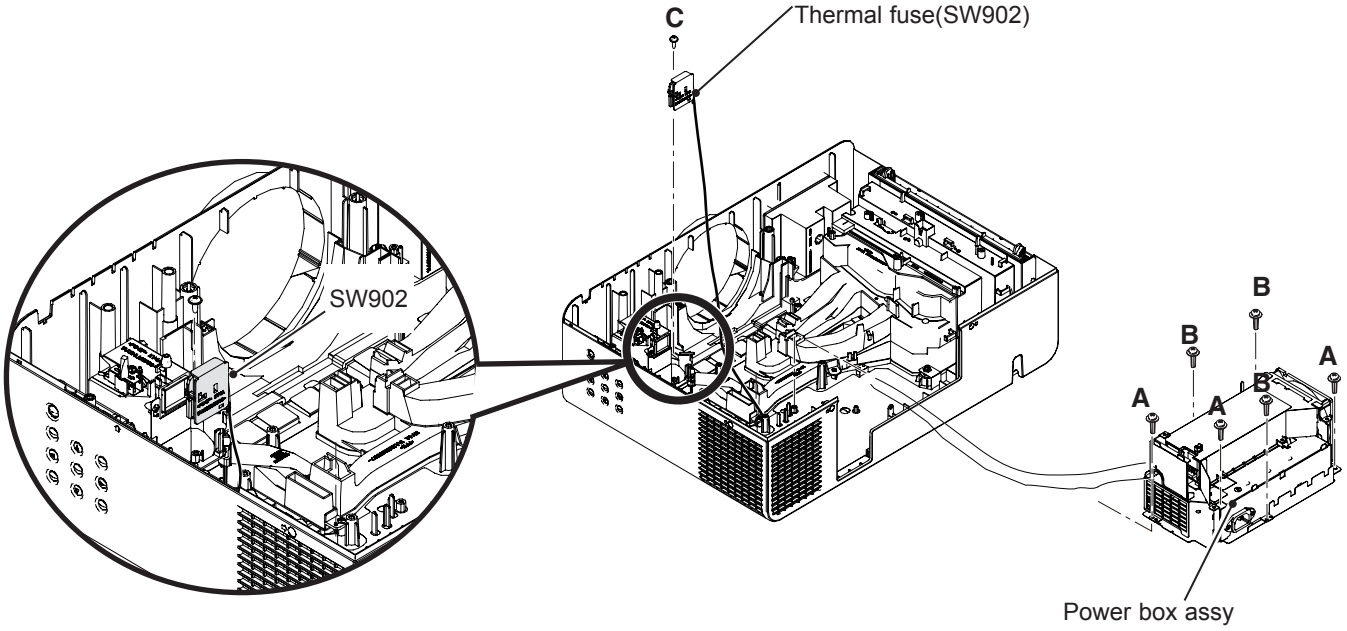
7-1. Lens shift assy and Iris assy removel

1. Remove 4 screws-A (M3x8) to take the lens shift assy off.
2. Remove 4 screws-B (M3x14) to take the lens mount off.
3. Remove 3 screws-C (T3x8) to take the Iris assy.



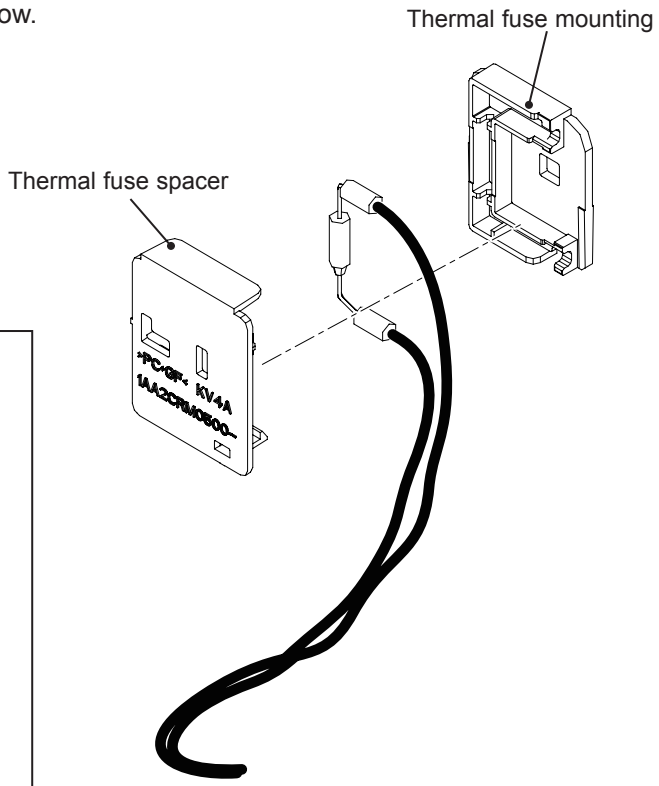
8. Power box and thermal fuse (SW902) removal

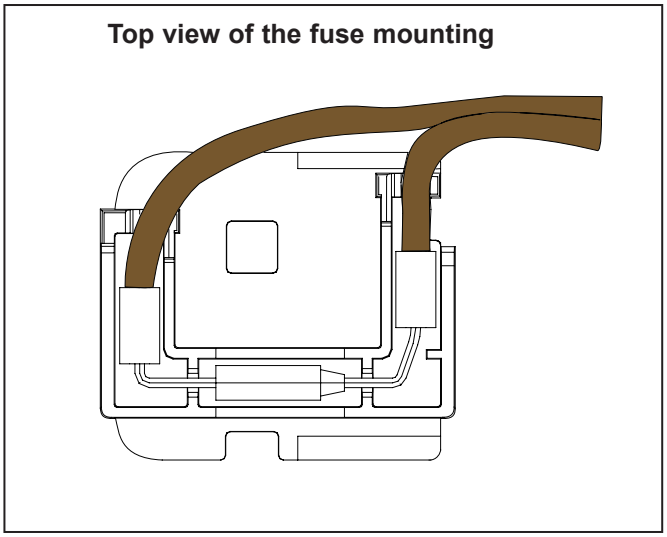
1. Remove 3 screws-A (M3x10) and 3 screws-B (T3x10) to remove the Power Box assy.
2. Remove 1 screw-C (T3x8) and pull the SW902 upward off.



8-1. Thermal fuse replacing

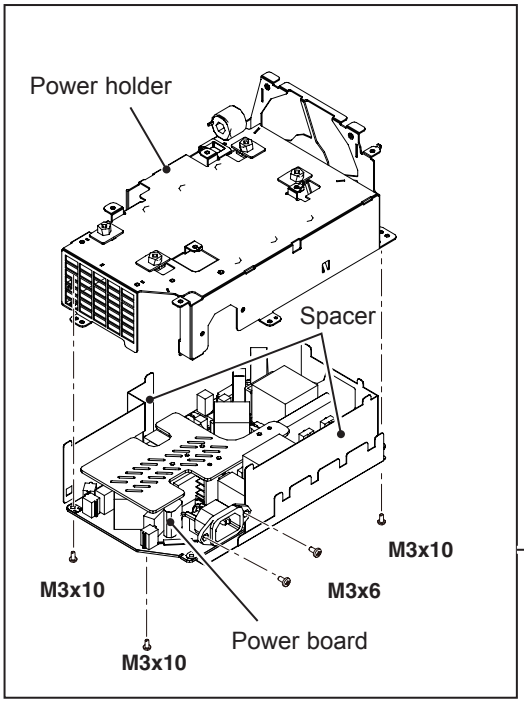
1. Remove the thermal fuse spacer from the thermal fuse mounting.
2. Remove the thermal fuse(SW902).
3. Mount the thermal fuses as shown in the figure below.

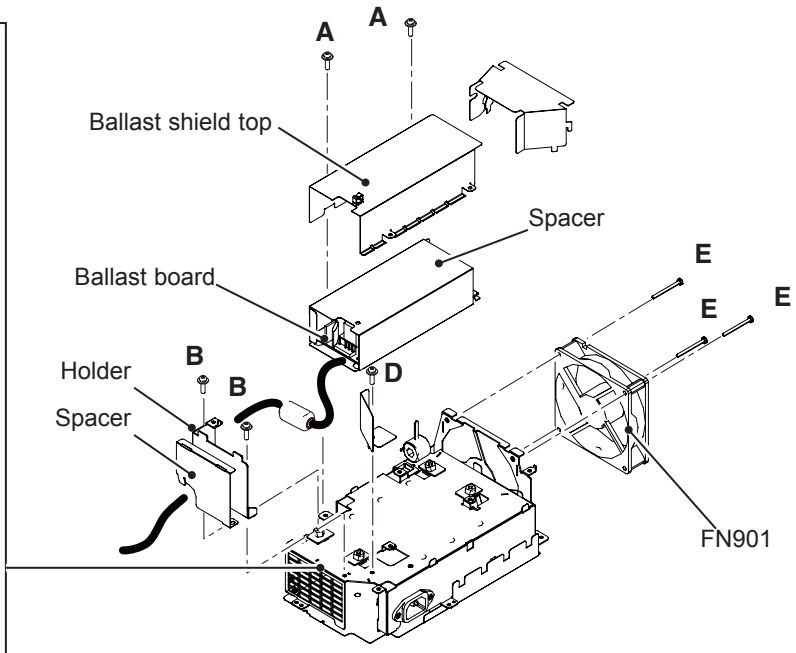




8-2. Power box disassembly and fan (FN901) removal

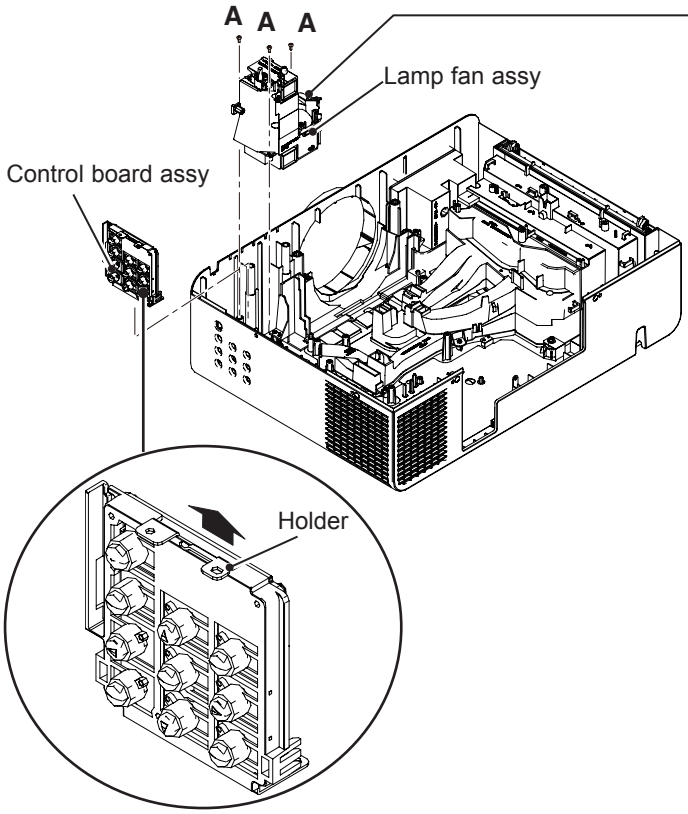
1. Remove 2 screw-A (M3x10) to remove the ballast shield top.
2. Remove 2 screws-B (M3x10) to take the Holder. then remove 1 screw-D (M3x10) to take the ballast board off.
3. Remove 3 screws-E (T3x28) to take the fan (FN901) off.

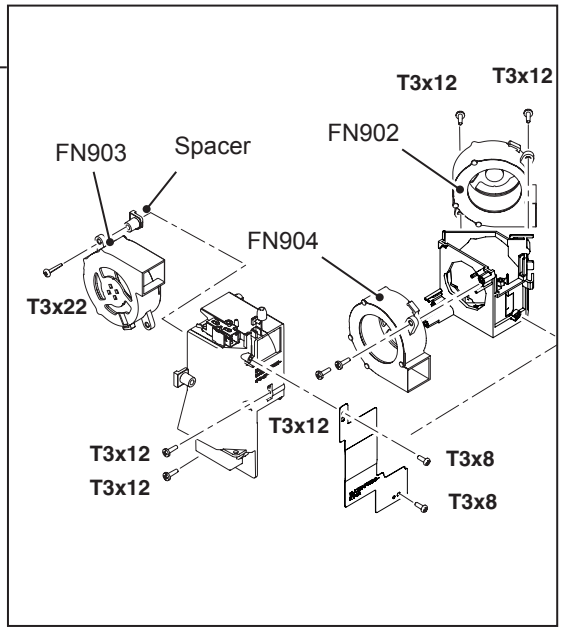




9. Control board and fans (FN902,FN903,FN904) removal

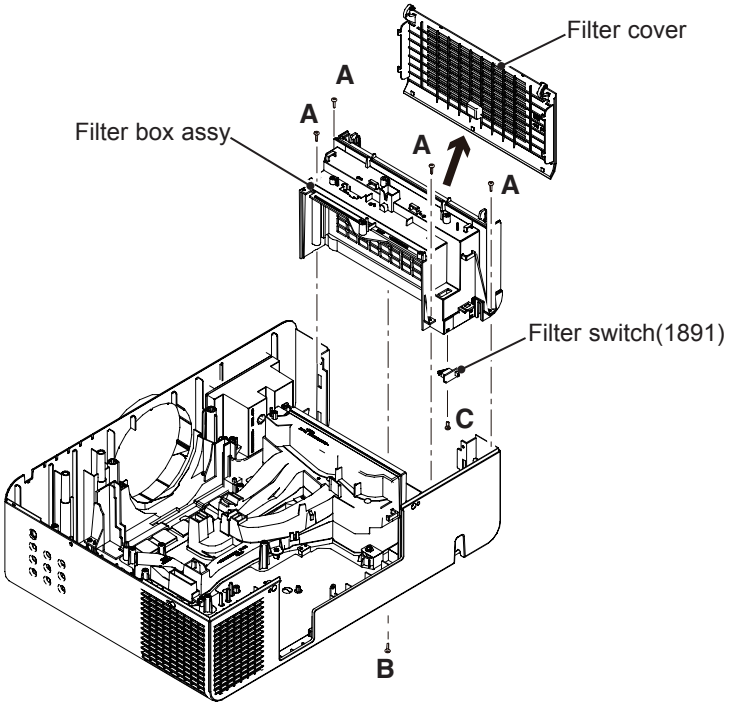
1. Remove 3 screws-A (T3x8) to take the lamp fan assy off.
2. Pull the holder on the control board up to release the hook and remove the Control board assy upward off.





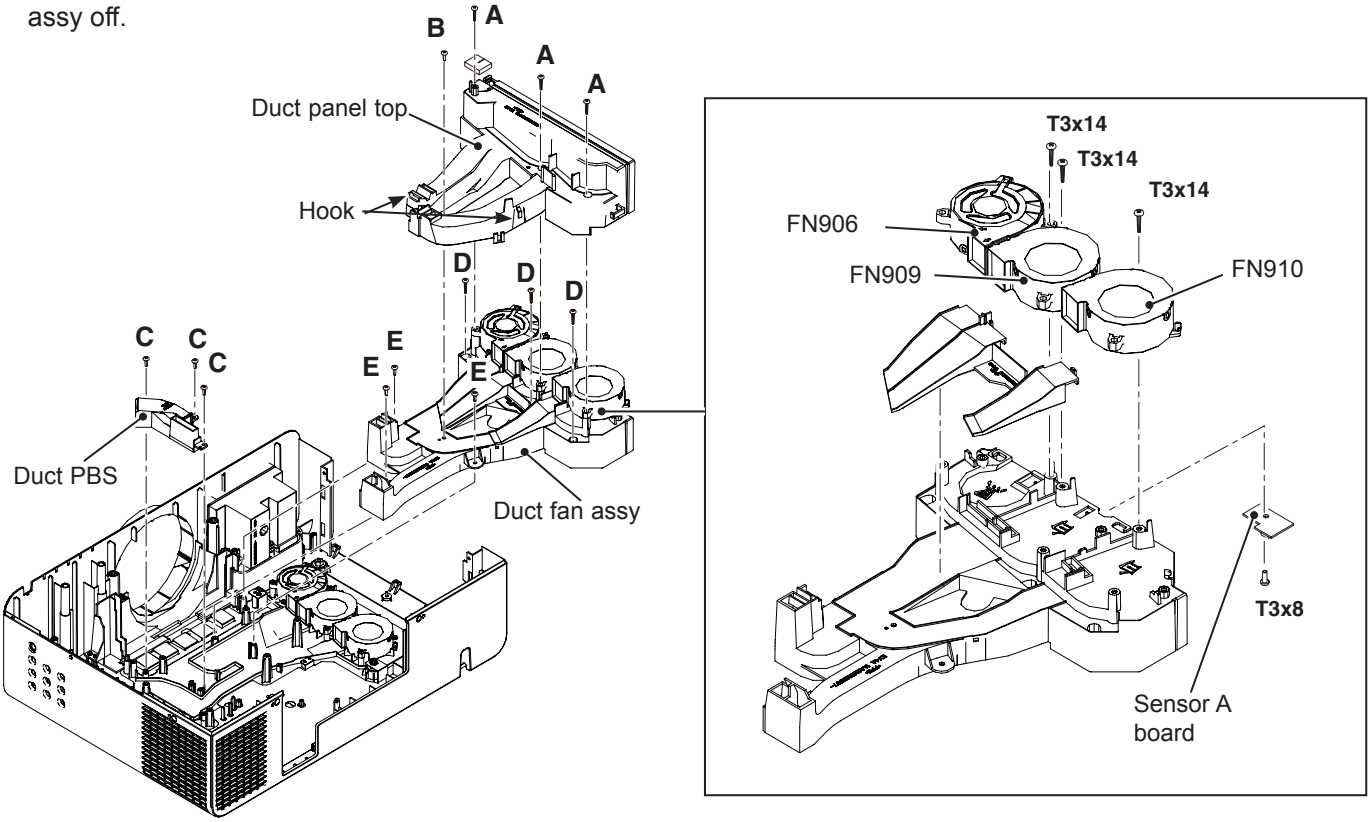
10. Filter assy removal

1. Remove the filter cover by pulling it outside.
2. Remove 4 screws-A (T3x8) and 1 screw-B (M3x8) and pull the filter box assy upward off.
3. Remove 1 screw-C (T3x6) to remove the filter switch(SW1891).



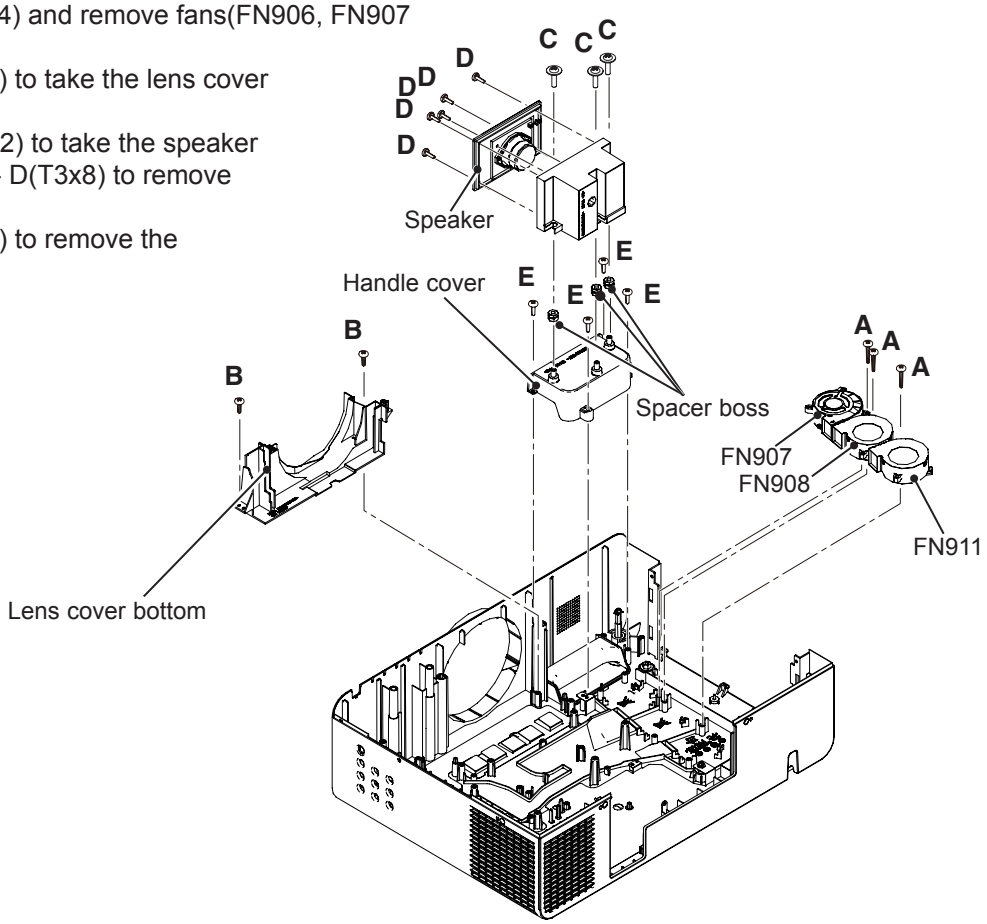
11. Fans (FN906, FN909, FN910) removal

1. Remove 3 screws-A (T3x14), 1 screw-B (T3x8) and unhook 2 hooks and remove the duct panel top.
2. Remove 3 screws-C (T3x8) to take the duct PBS off.
3. Remove 3 screws-D (T3x14) and 3 screws-E (T3x8) to take the duct fans assy off.



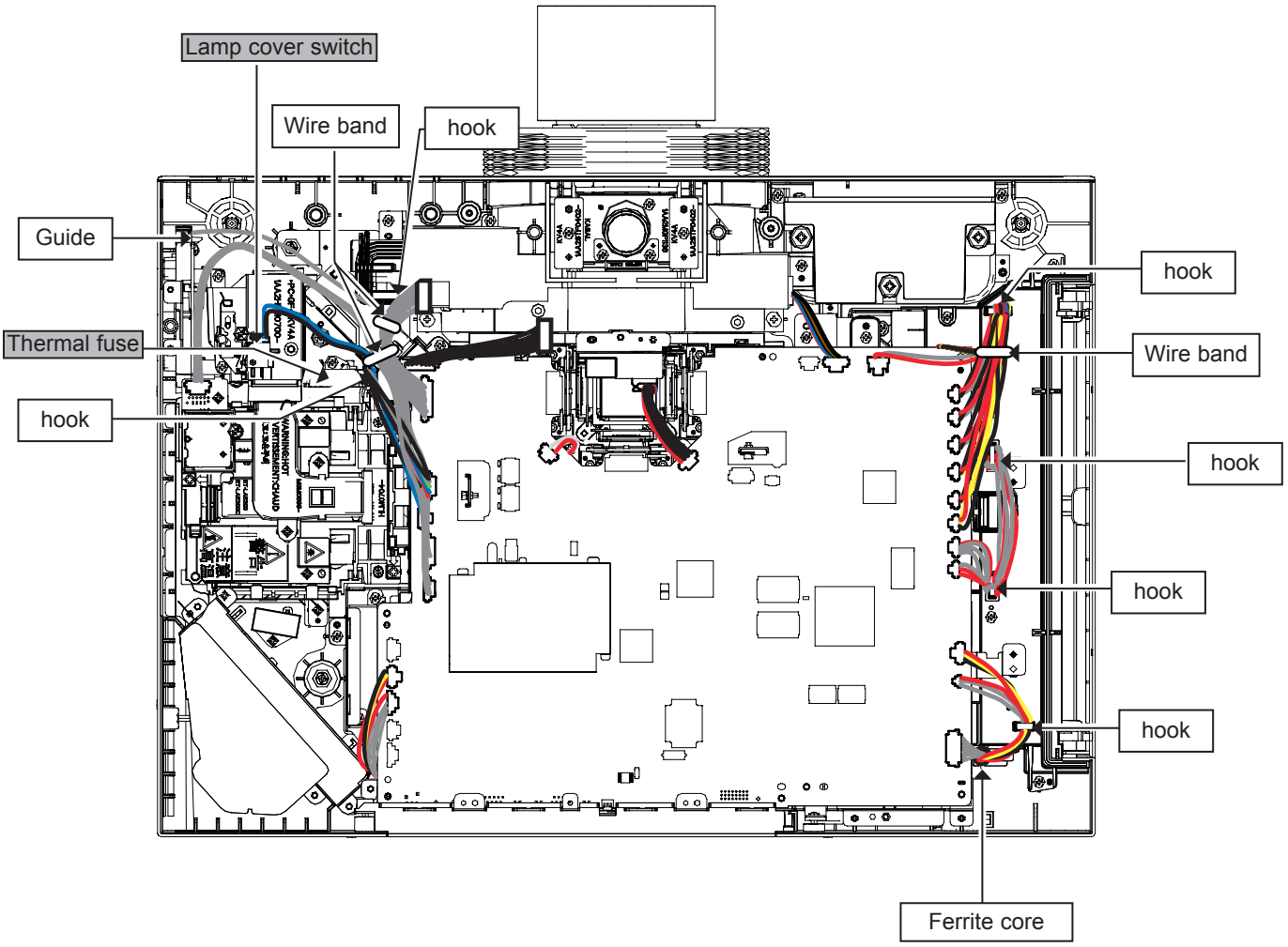
12. Fans (FN907, FN908, FN911) and speaker removal

1. Remove 3 screws-A (T3x14) and remove fans(FN906, FN907 and FN911).
2. Remove 2 screws-B (T3x8) to take the lens cover bottom upward.
3. Remove 3 screws-C (T3x12) to take the speaker box off. Remove 5 screws- D(T3x8) to remove the speaker.
4. Remove 4 screws-E (T3x8) to remove the handle cover.



13. Cable reforming

Reform the cables as shown in the figure below. Place the cables at the original position after replacing the parts.



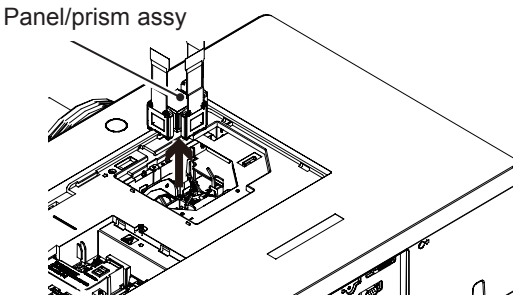
Note on fan's connection
- Fans (FN906, FN907, FN908) can be connected to any of connectors (K78F, K78G, K78H) on the main board.
- Fans (FN909, FN910, FN911) can be connected to any of connectors (K78J, K78K, K78L) on the main board.

Optical Parts Disassembly

Before taking this procedure, remove the cabinet top, main&AV board assy, projection lens, lamp assy and shutter assy refer to the “Mechanical disassembly”.
Disassembly requires a 2.0mm hex wrench and a screwdriver.
Note:To remove the LCD panel/prism assy and polarized glass-in, open the prism cover and then remove the shutter assy first.

1. LCD panel/prism assy removal

1. Open the prism cover to removal shutter assy. (refer to chapter"Quick maintenance"for detailed information of open the prism cover to removal shutter assy)
2. Loosen 3 screws-D and pull the panel/prism assy upward (Fig.1) .



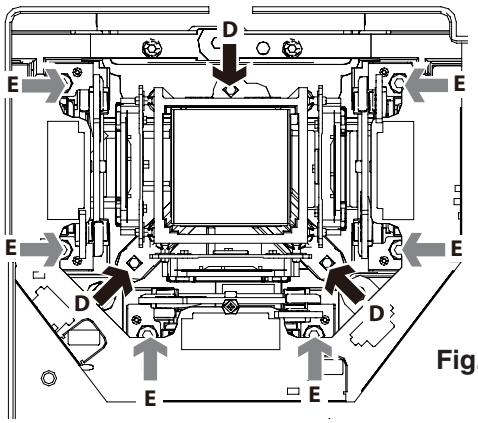


Fig. 1

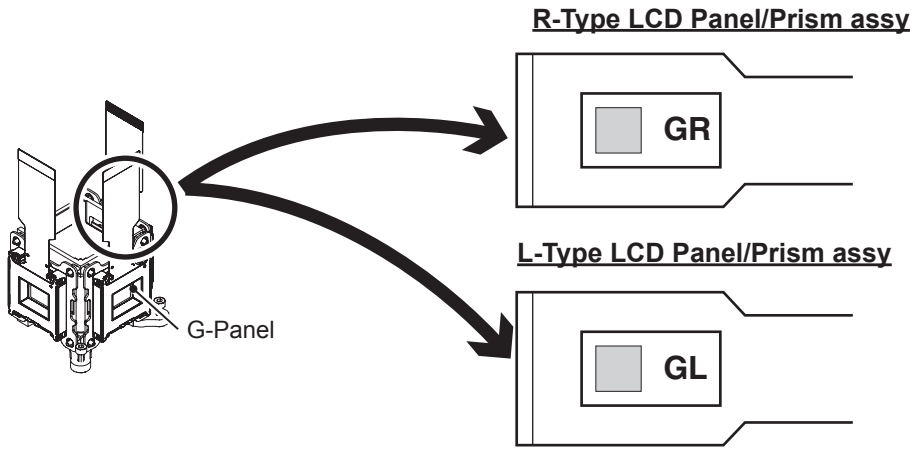
*** Note on handling the LCD panel/prism assy**
LCD Panel, Polarized glasses are very sensitive parts. Never touch or wipe the surface. When removing the dust on the surface, use a commercial (inert gas) air spray to remove them.

LCD panel type check

There are 2 types combination of the LCD panel/prism assembly and the optical unit, named type-R and type-L. Since both have no compatibility, each type should be combined with the same type, and the specific parts should be used. If not, the poor optical characteristics may degrade the quality of a projected image.

How to check the type of LCD panel assy

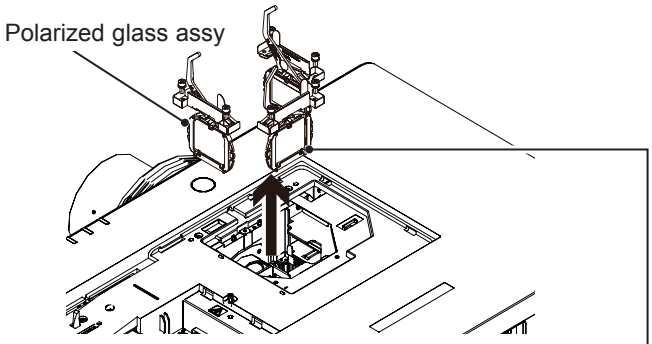
Check the printed marker on the flat cable of the G-LCD Panel.
GR --> R-type LCD panel/prism assy
GL --> L-Type LCD panel/prism assy



Important notice on LCD panel/prism assy replacement
LCD panels used for this model cannot be replaced separately. Do not disassemble the LCD panel/prism assy. 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 assy at once.
When replacing LCD panel/prism assy, take the optical and electrical adjustments following to the chapter "Adjustment".

2. Polarized glass-in removal

1. Remove 2 screws-E (M2.5x6) each on the polarized glass assy and remove the stoppers, and pull the polarized glass assy upward (Fig.1).



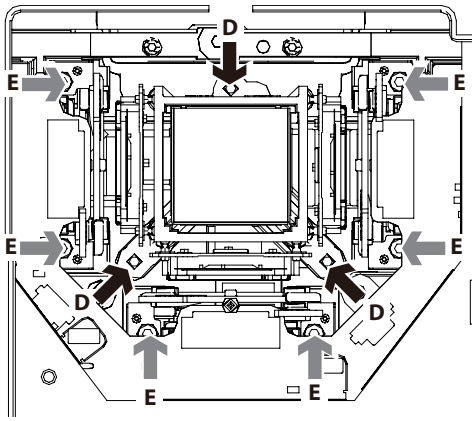
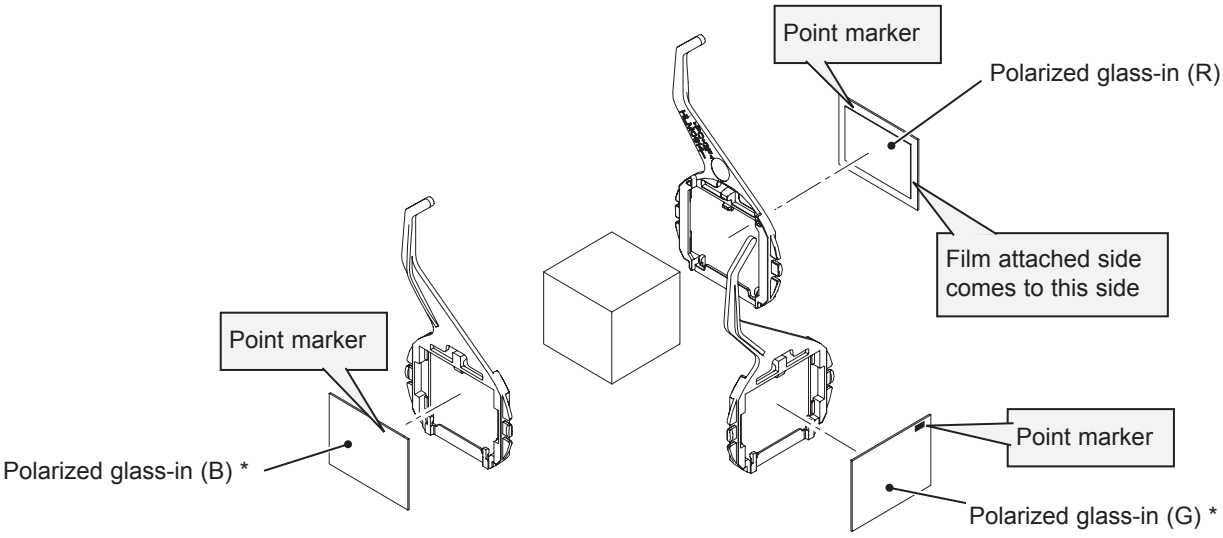


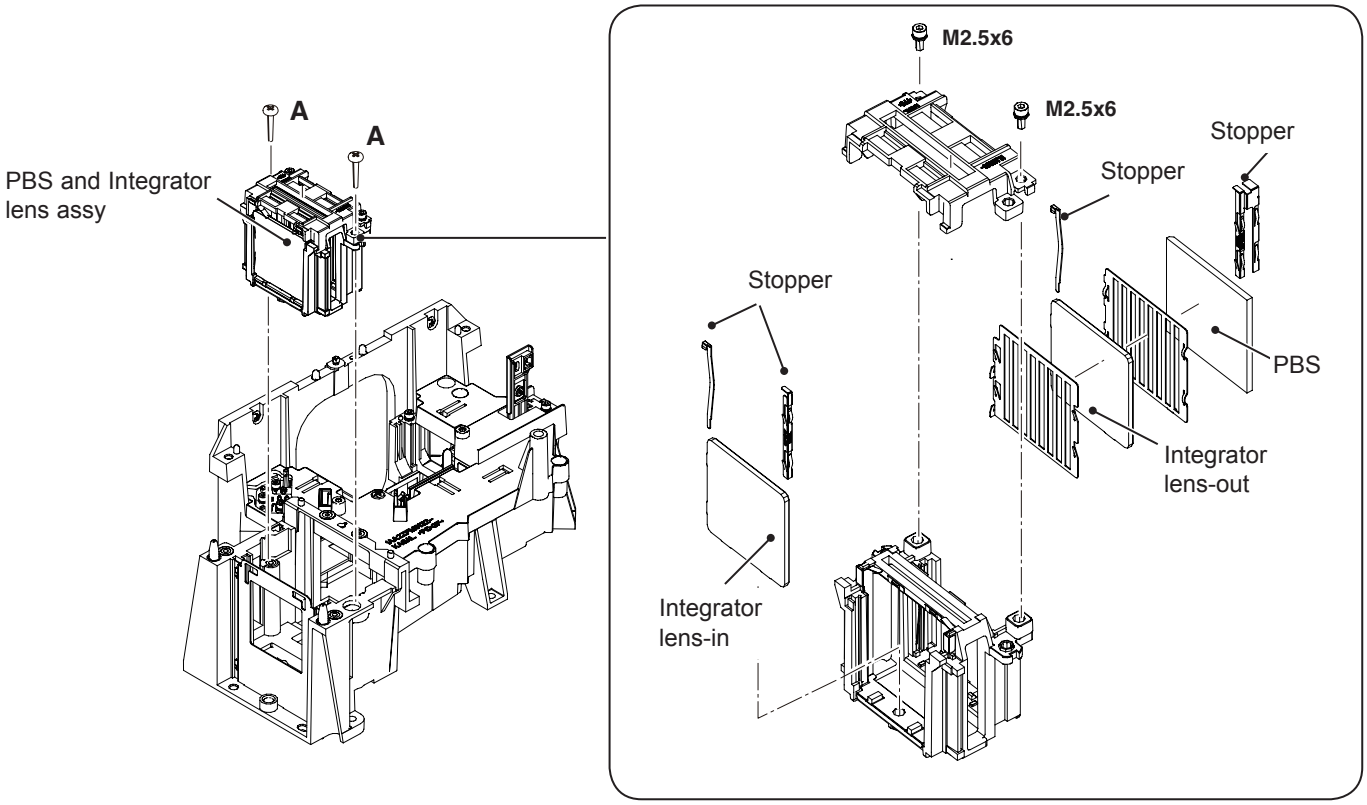
Fig. 1



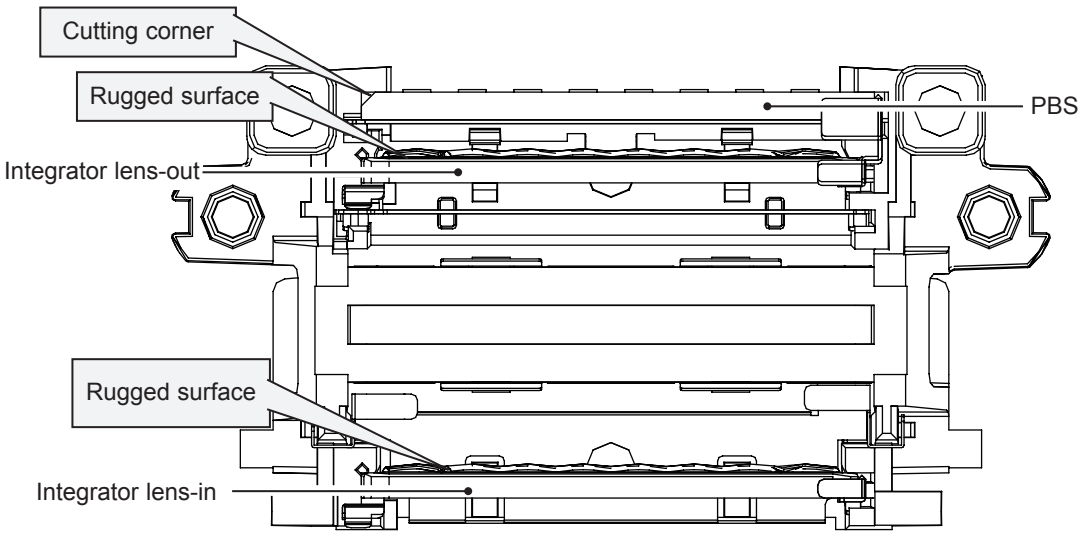
*** Note on handling the polarized glasses**
Polarized glass-in (B) and (G) are very sensitive parts. Never touch or wipe the both surfaces. Grab the edge of the glass by new gloves when handling the polarized glass. When removing the dust on the surface, use a commercial (inert gas) air spray to remove them. Never use organic solvents.

3. PBS and integrator lens assy removal

1. Remove 2 screws-A (M3x14) and pull the PBS and Integrator lens assy upward.

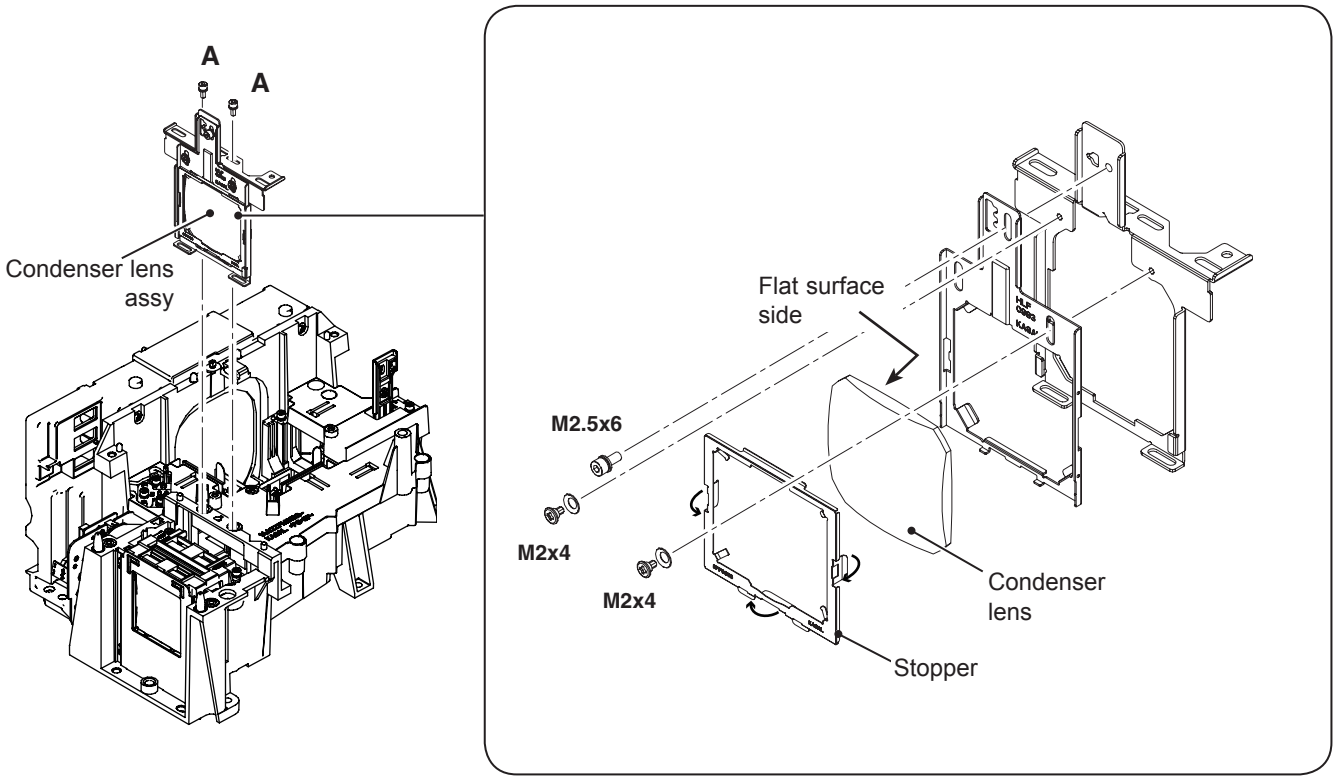


Top view of PBS and Integrator lens assy



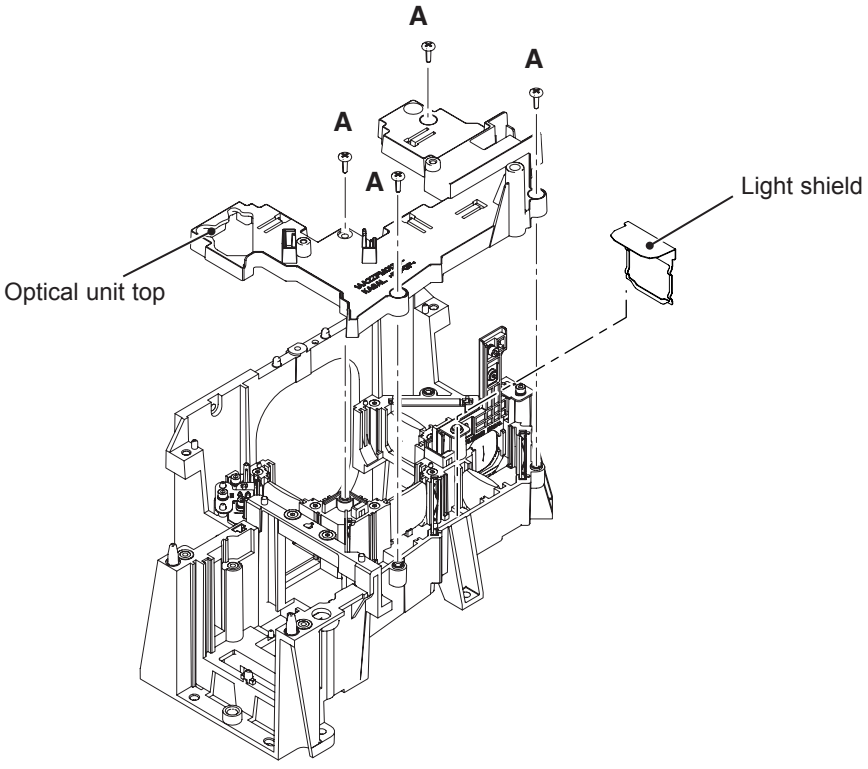
4. Condenser lens assy removal

1. Remove 2 screws-A (M2.5x6) and pull the condenser lens assy upward.



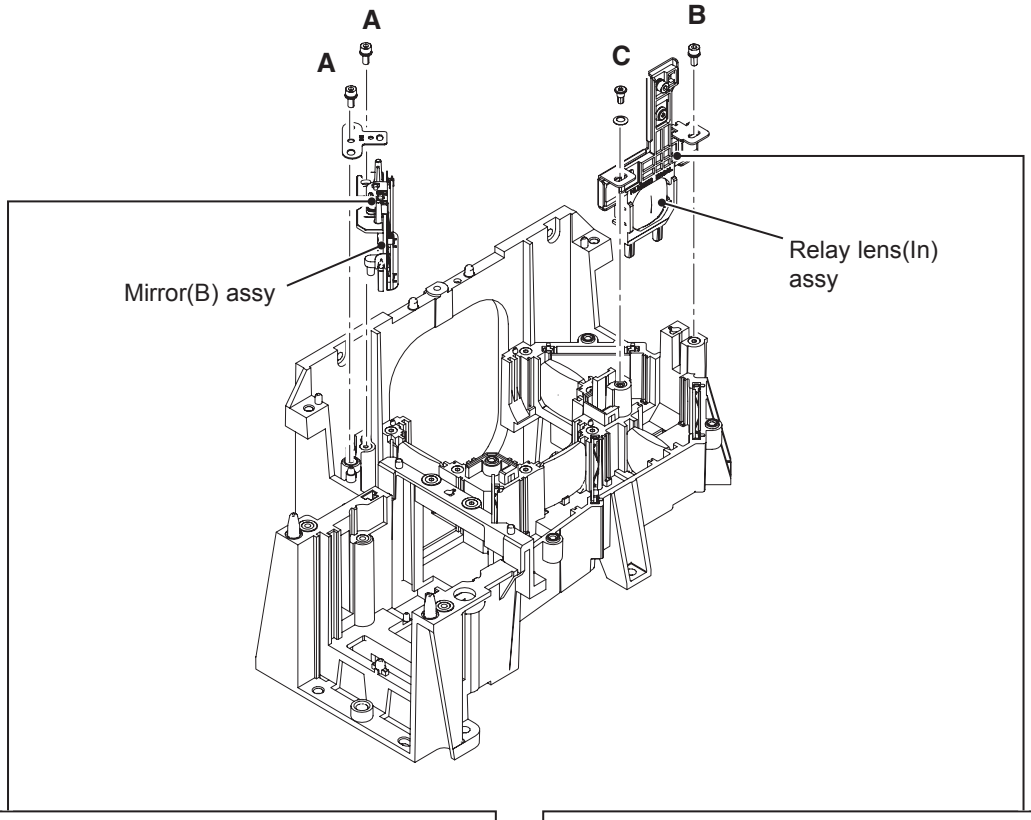
5. Optical parts in the optical unit removal

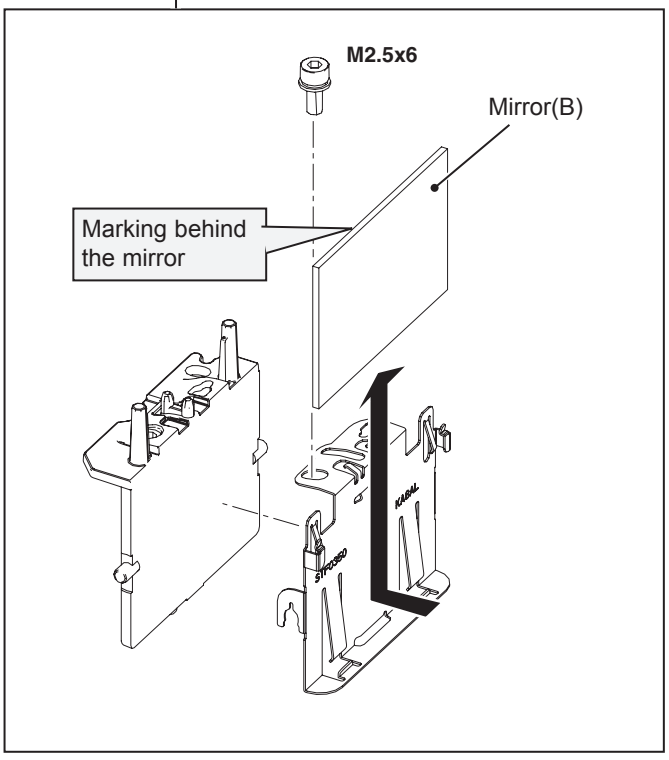
1. Remove 4 screws-A (T3x12) to take the optical unit top off and then remove the light shield.

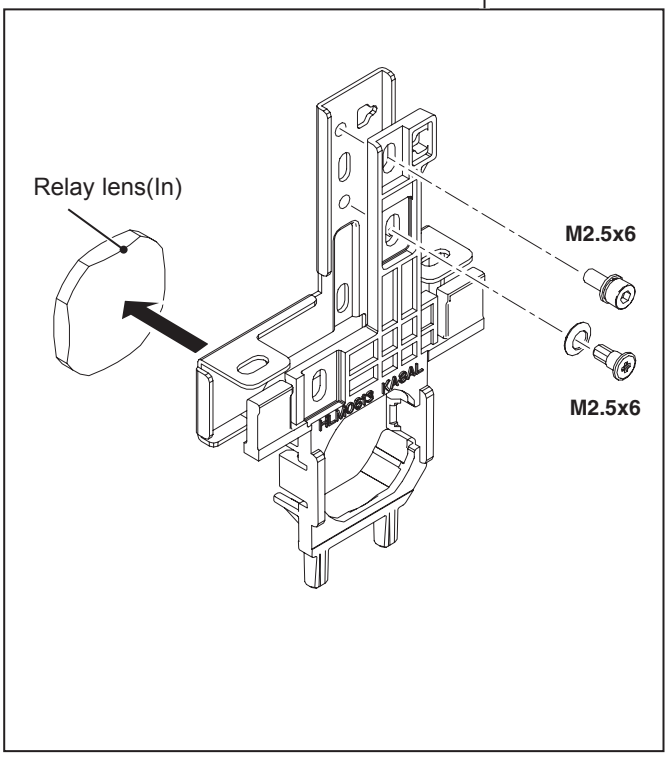


5-1. Mirror(B) assy and relay lens(IN) assy removal

1. Remove 2 screws-A (M2.5x6) and pull the mirror(B) assy upward off.
2. Remove 1 screw-B (M2.5x6) and 1 screw-C (M2x4), and pull the relay lens(In) assy upward off.

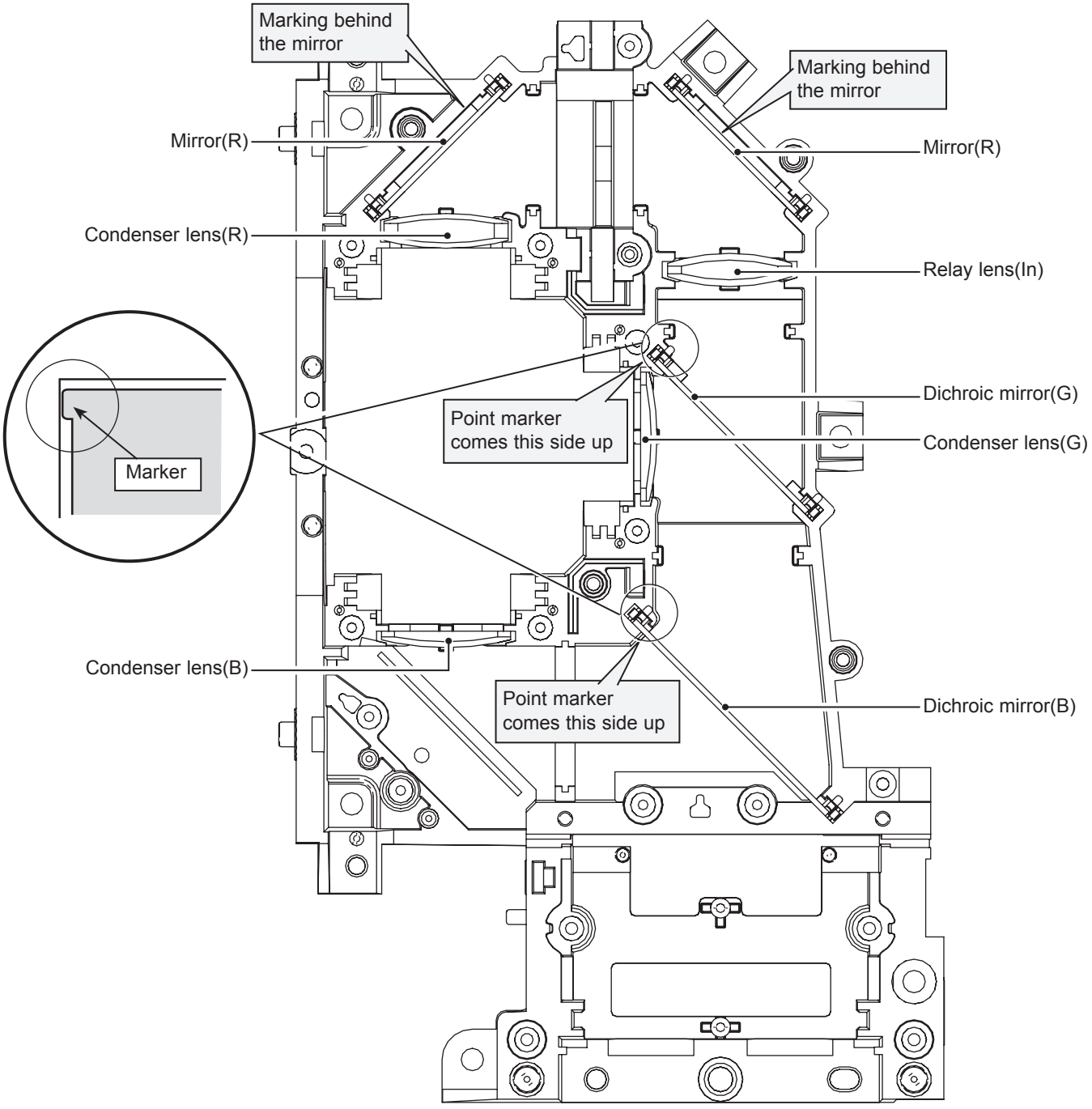






5-2. Optical parts in the optical unit

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 the figure below.



Servicing Notice

Note on main board replacement

Take the following steps when the main board is replaced.

1.EEPROM data transfer

Each of the adjustment data (electrical adjustment data, serial number, projector's, filter usage time, user control setting value, etc.) is stored in memory ICs(IC1387) on the main board. After replacing the main board, perform the data transferring by using the software [NVReadWrite v1.0.0.0]. For further details, refer to the operation manual of the software.
The data which can be set by this software includes "Serial number" and "Model no." setting below. Follow each setting procedure if the indivsual setting is needed.

Serial number setting

The data of serial number is stored in memory IC (IC1387) on the main board.
After replacing the main board, perform the work below to restore the serial number.

- Use the serial no. setting tool to write the correct serial no. referring to the serial no. (S/N) printed on the rating label. For further details, refer to the operation manual of the software [SERIAL NO. SETTING TOOL V1.00].

Model no. setting

The data of projector's model no. is stored in both memory IC (IC1387) on the main board.
After replacing the main board, perform the work below to restore the model number.

1. Enter the service mode.
2. Select the group "430 ~ 437" and No. "1", change the data value from "0" to "10". Refer to table below. The data value will return to "0" after setting.
3. To check the setting, select each group and No. "0" and check its value with table below.

How to enter the service mode, or set the group. No. and data, refer to the item "Service adjustment menu operation".

Model no. setting

Model no. setting	Group	No.	Data
Not defined	430	0	✻ (refer t table right)
		1	0 -> 10
PT-EX600 PT-EW630	431	0	✻ (refer t table right)
		1	0 -> 10
PT-EX600U PT-EW630U	432	0	✻ (refer t table right)
		1	0 -> 10
PT-EX600E PT-EW630E	433	0	✻ (refer t table right)
		1	0 -> 10
PT-EX600EJ PT-EW630EJ	434	0	✻ (refer t table right)
		1	0 -> 10
PT-SLX70C PT-SLW73C	437	0	✻ (refer t table right)
		1	0 -> 10

Model no. checking

Data	Model no.
0	Not defined
1	PT-EX600 PT-EW630
2	PT-EX600U PT-EW630U
3	PT-EX600E PT-EW630E
4	PT-EX600EJ PT-EW630EJ
7	PT-SLX70C PT-SLW73C

2. Adjustment data setting

This projector stores " Color shading correction data" and "Gamma correction data" in the memory IC (IC801) on the main board. Those adjustment data have been setup according to the optical characteristics of the mounted LCD panels preciously in the factory. When replacing the main board, you need to read out the those setting data stored in the memory IC on the previous main board and write down them into the memory IC on the new main board by using the software [PROJECTOR SERVICE TOOL v4.20]. By the way, it enables the projector to reproduce the picture which has properly adjusted color shading correction, gamma correction. For further details, refer to the operation manual of the software [PROJECTOR SERVICE TOOL v4.20].

Note:

"Color shading correction data" and "Gamma correction data" cannot be read out or wrote in by the software [NVRead-Write]

The NVRedWrite v1.0.0.0, projector service tool v4.20 and serial no. setting tool v1.00 can be downloaded from the projector service web site.

Adjustments

Adjustments after parts replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced parts					
		LCD/ prism assy	Polarized Glass	Condenser lens (OUT)/ Relay lens (OUT)/ Integrator lens	Power board	Main board	Fans Wind Sensor
Optical adjustments	Optical axis adjustment			●			
	Contrast adjustment	●	●				
Electrical Adjustments	Fan voltage adjustment				●	●	●(Fan)
	Panel type check and setting	❍				●	
	Auto calibration adjustment [PC]					❍	
	Auto calibration adjustment [Component]					❍	
	Auto calibration adjustment [Video]					❍	
	Common center adjustment	●				●	
	Gamma shipment adjustment *	❍				●	
	White balance adjustment [PC]	❍				●	
	Color shading correction adjustment *	❍	❍			❍	
	Wind sensor calibration				●	●	●(S901)
	Lens shift centering setting					●	

* To setup or adjust those items, the Projector Service Tool v. 4.20 software is needed. Refer to the owner's manual for this software for the further details.

Optical Adjustments

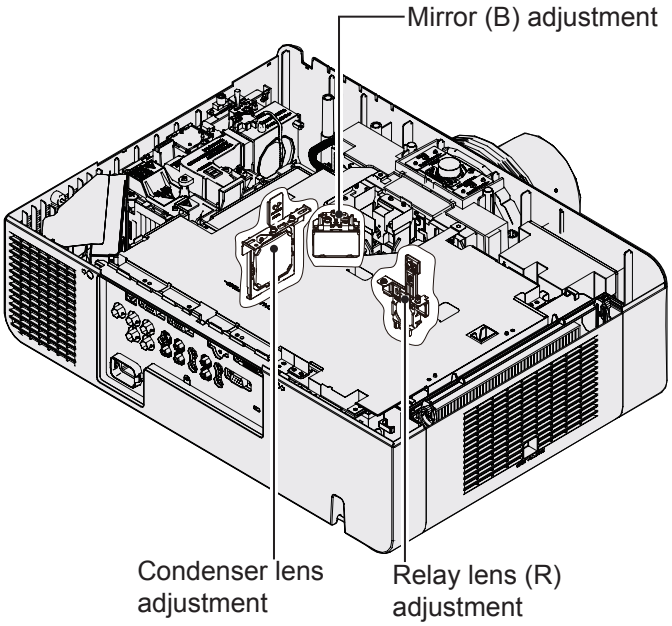
WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

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

Before adjustment

1 Each adjustment requires hex wrenches and slot screwdrivers.
2 Move the projection lens position to center by pressing the LENS button for more than 5 seconds.
3 When adjusting optical components adjustments, using Standard Zoom Lens is recommended.
4 When adjusting the optical axis adjustment and contrast adjustment, use the internal test pattern. To select the internal test pattern, see the item below.
 * Do not disconnect the sockets on the main board otherwise the power protection function will operate to shutdown the projector.
5 These adjustments should be taken in the darkest room to adjust precisely.

CAUTION: Do not short main board with the chassis. Protect main board with necessary isolation materials from shorting.



To select the internal test pattern

1 Press the MENU button.
2 Select the "Test pattern" from the "Setting" menu.
3 Press the ENTER button. The test pattern menu appears on the screen.
4 Select a pattern name and press ENTER button.
To cancel the test pattern, press any of the buttons.

Test pattern
Color
Graduation 1
Graduation 2
Graduation 3
Graduation 4
All white
All black
Cross

CAUTION:
When adjusting the optical components, do not insert any materials into the optical block for blocking the light. Or the optical block may be damaged by overheating or scratching the parts.

1. Optical axis adjustment

Select the internal test pattern signal “All white” from the projector’s menu “Menu -> Setting -> Test pattern”.

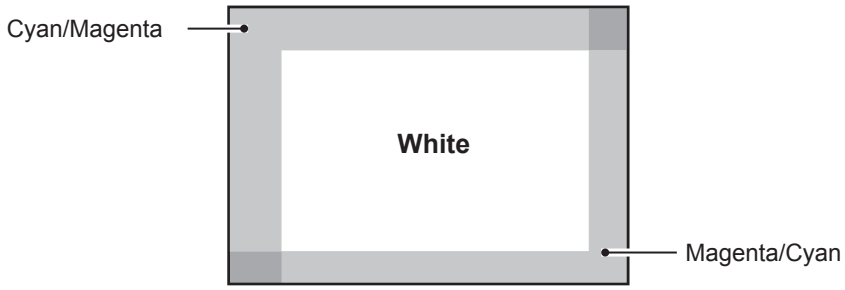
1-1. Condenser lens adjustment-1

1 Loosen 2 screws **A** and 1 screws **C**.

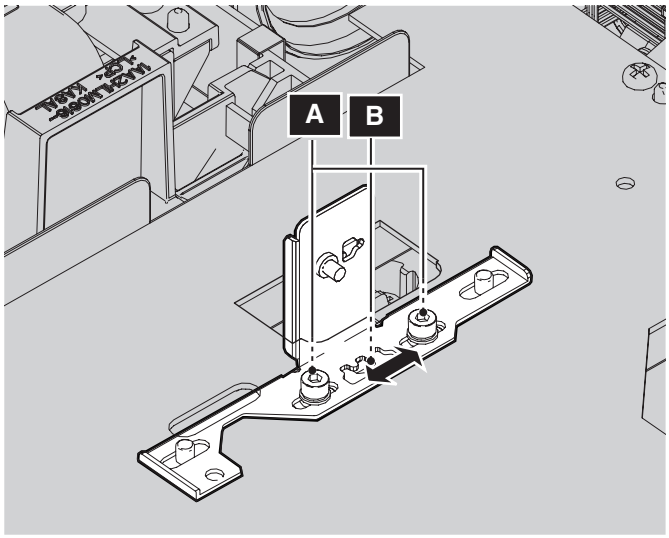
2 Move the condenser lens to display the color shading on the top/bottom and left/right of the screen.

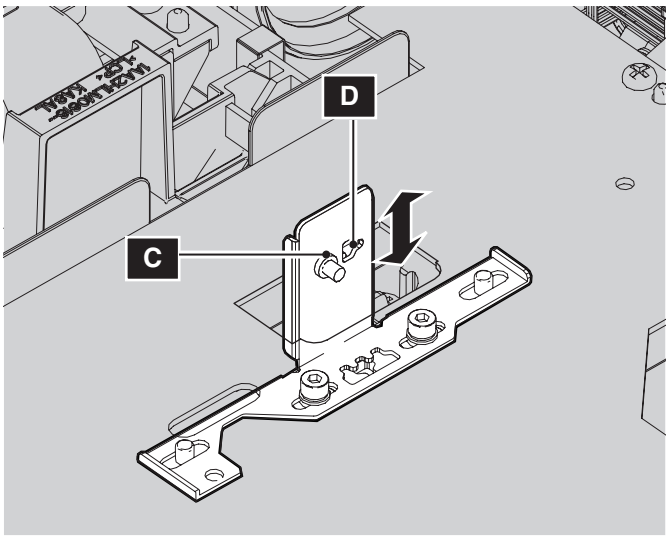
1) Insert a slot driver into the slot **B** and turn it to move the image horizontally as shown in **Fig.1-1**,

2) Insert a slot driver into the slot **D** and turn it to move the image vertically as shown in **Fig.1-2**,



(Target screen image)





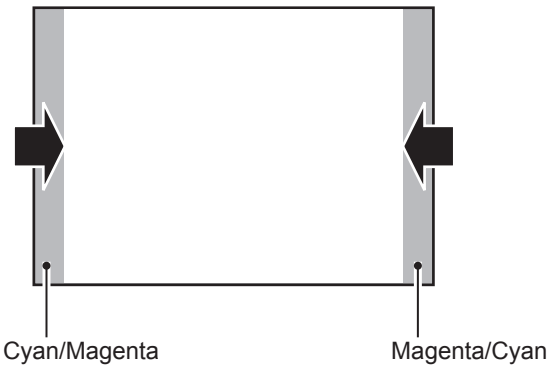


Fig.1-1

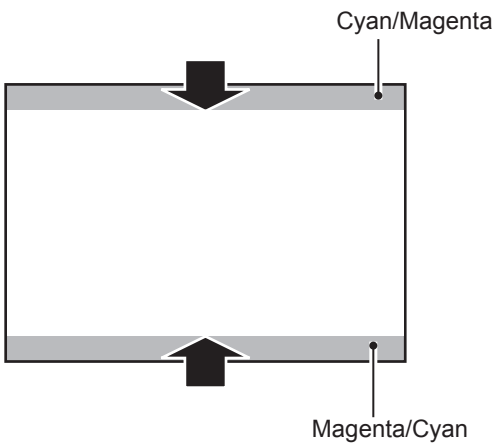


Fig.1-2

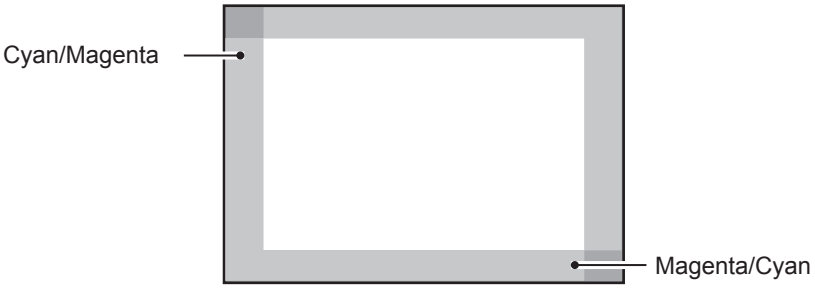
1-2. Mirror (B) adjustment

1 Loosen 1 screw **E** and 1 screws **G**.

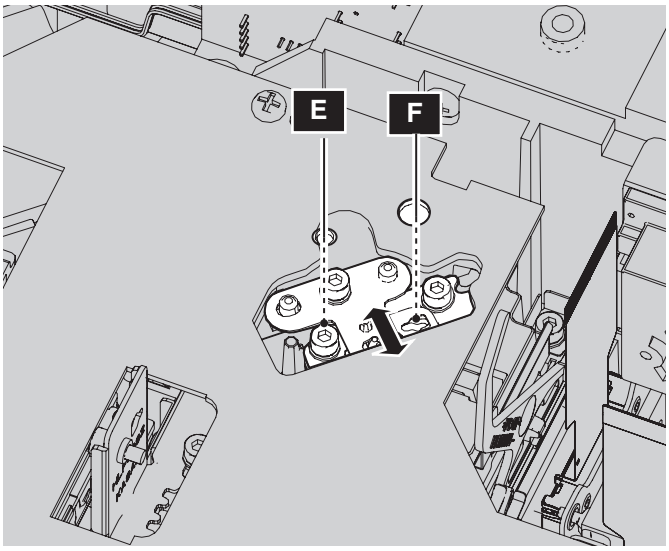
2 Move the Mirror-B to disappear the color band (Yellow/Magenta) on the top/bottom and left/right of the screen.

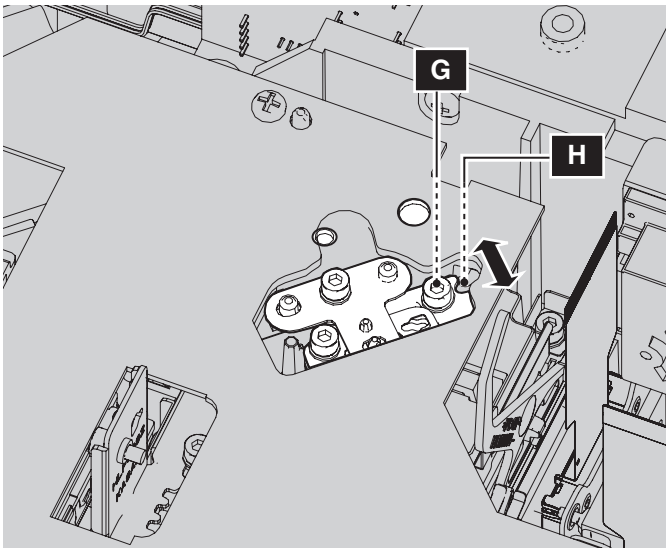
1) Insert a slot driver into the slot **F** and turn it to move the image vertically as shown in **Fig.1-4**.
2) Insert a slot driver into the slot **H** and turn it to move the image horizontally as shown in **Fig.1-3**,

3 Tighten screws **E** and **G** to fix the Mirror-B unit.



(Target screen image)





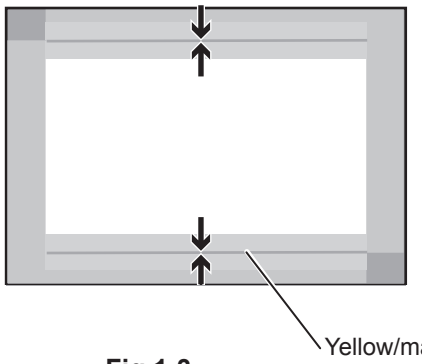


Fig.1-3

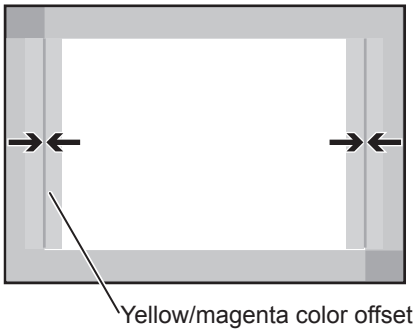


Fig.1-4

1-3. Relay lens (R) adjustment

1 Loosen 1 screw **J** and 1 screw **L**.
2 Move the Relay lens (R) so that the color shading appeared on the top/bottom and left/right of the screen becomes the same width.
1) Insert a slot driver into the slot **K** and turn it to move the image horizontally as shown in **Fig.1-5**,
2) Insert a slot driver into the slot **M** and turn it to move the image vertically as shown in **Fig.1-6**.
3 Tighten the screws **J** and **L** to fix the relay lens (R) assy.

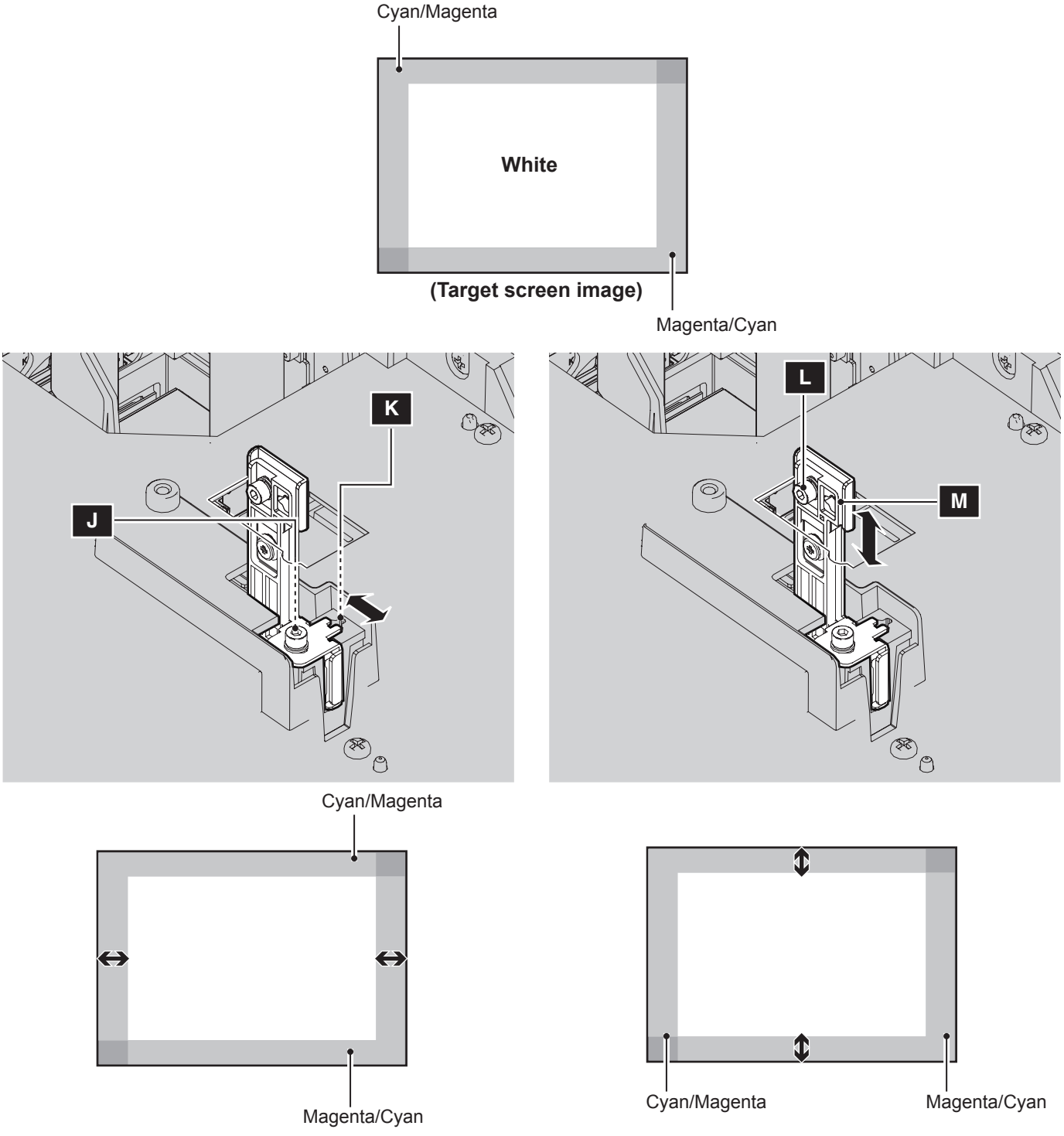


Fig.1-5

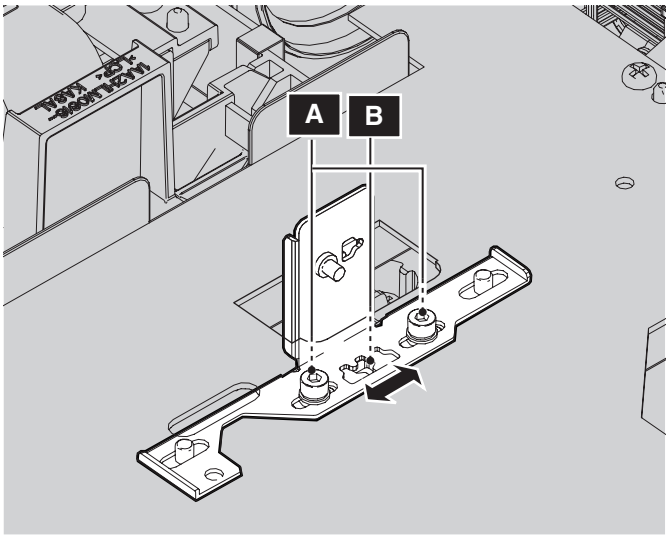
Fig.1-6

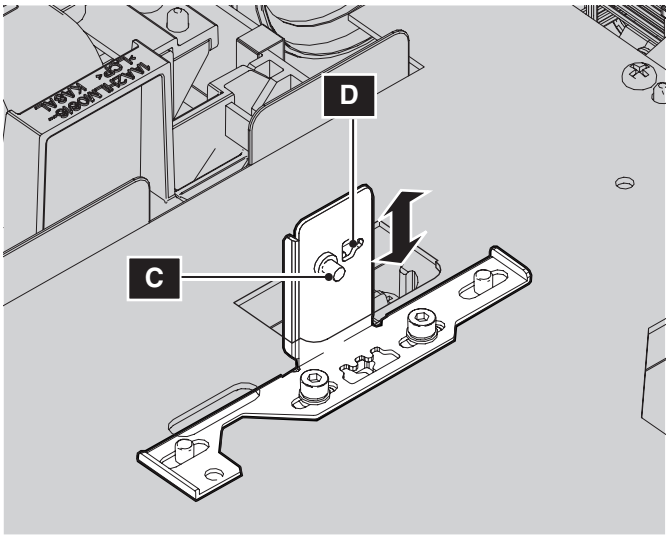
1-4. Condenser lens adjustment-2

1 Move the condenser lens to remove the color shading on the top/bottom or left/right of the screen.
 1) Insert a slot driver into the slot **B** and turn it to move the image horizontally as shown in **Fig.1-7**.
 2) Insert a slot driver into the slot **D** and turn it to move the image vertically as shown in **Fig.1-8**.

2 Tighten screws **A** and **C** to fix the Condenser lens.

(Target screen image)





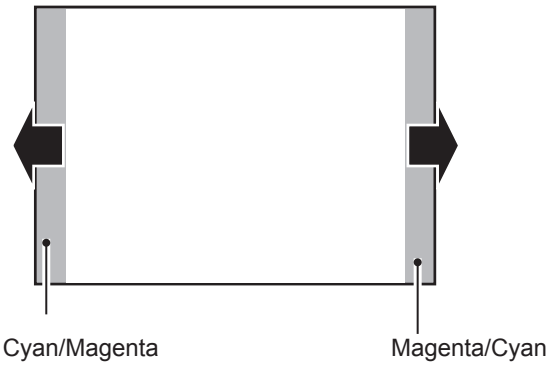


Fig.1-7

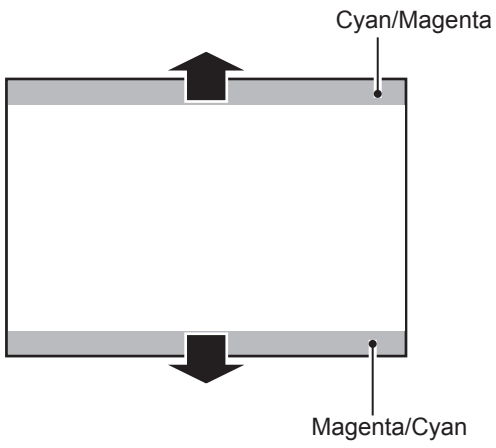
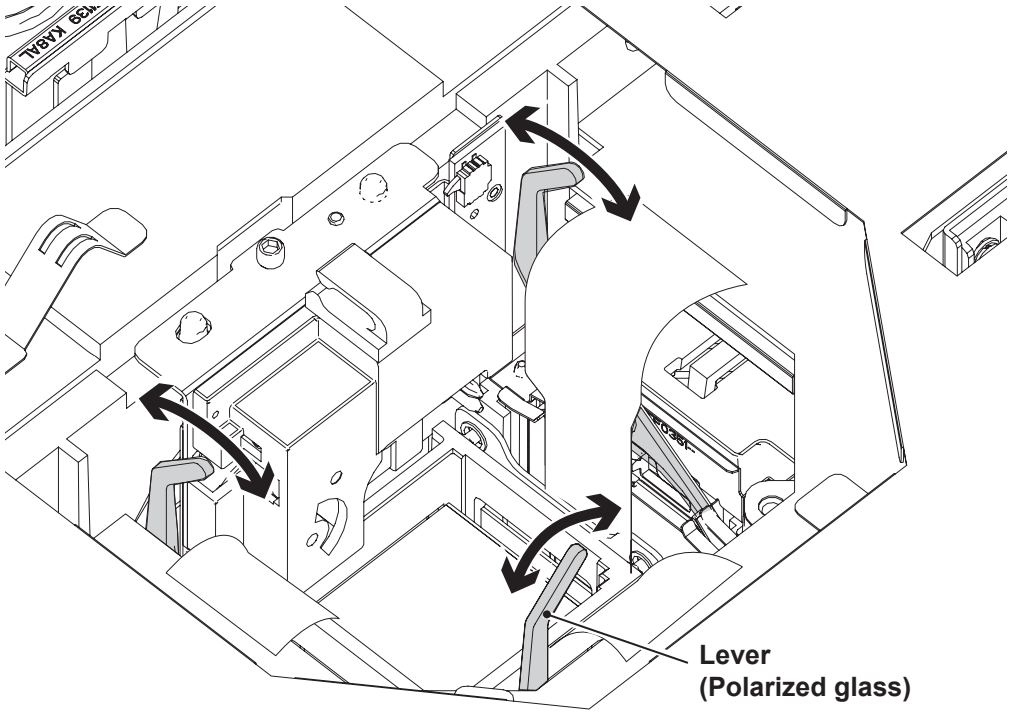


Fig.1-8

2. Contrast adjustment

1 Select the internal test pattern signal “All black” from the projector’s menu “Menu -> Setting -> Test pattern”.
2 Turn the lever of polarized glass to obtain the darkest brightness and proper black color uniformity on the screen.

* This adjustment should be taken in order of G-panel, R-panel and B-panel.
* This adjustment should be taken in the dark room to adjust precisely.



Electrical Adjustments

Service adjustment menu operation

To enter the service mode

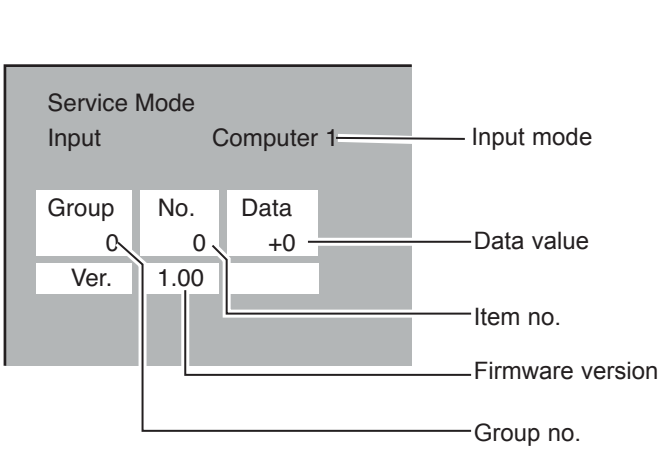
To enter the “Service mode”, press and hold the **MENU button** and **ENTER button** on the projector for more than 3 seconds or press and hold the **MENU button** on the remote control for more than 20 seconds. The service menu appears on the screen as follows.

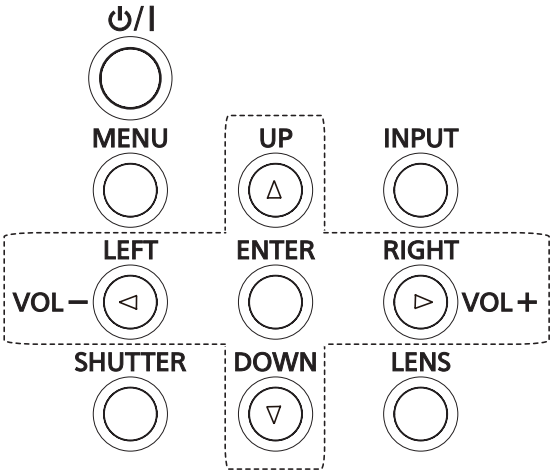
To adjust service data

Select the adjustment group no. by pressing the **MENU button** (increase) or **ENTER 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 ⏻/| **button**.





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 for more than 10 minutes to stabilize the operation.

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

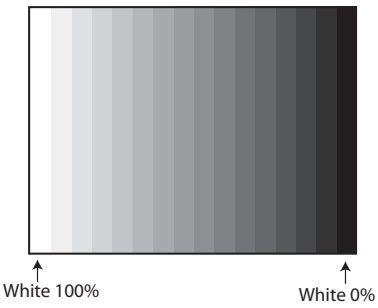
CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

[Adjustment Condition]

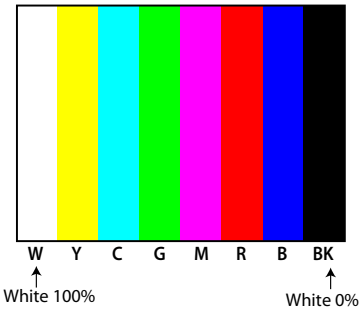
- Input signal
  - Computer signal.....0.7Vp-p/75Ω terminated (XGA)
  - Video signal .....1.0Vp-p/75Ω terminated (Composite video signal)
  - Component video signal .....1.0Vp-p/75Ω terminated (Component video signal (480i)

- Input signal pattern

16 steps gray scale pattern



8 color 100% full color bar



- Image mode .....Standard
- Lamp power .....Normal

Note:
* Please refer to "Service adjustment menu operation" for entering the service mode and adjusting the service data.

1. Fan voltage adjustment

Equipment Digital voltmeter

1. Enter the service mode.
2. Adjust the voltage on each test point by changing the data values of Group-No.

Group - No.	Fan	Test Points	Adjustment value
250 - 0	FAN 1	TPFN11	**4.5 +0.1 -0Vdc**
250 - 1	FAN 1	TPFN11	**13.8 -0.1Vdc**
250 - 2	FAN 2	TPFN6	**4.5 +0.1 -0Vdc**
250 - 3	FAN 2	TPFN6	**13.8 -0.1Vdc**
250 - 4	FAN 3	TPFN4	**4.5 +0.1 -0Vdc**
250 - 5	FAN 3	TPFN4	**13.8 -0.1Vdc**
250 - 6	FAN 4	TPFN2	**4.5 +0.1 -0Vdc**
250 - 7	FAN 4	TPFN2	**13.8 -0.1Vdc**
250 - 8	FAN 5	TPFN1	**4.5 +0.1 -0Vdc**
250 - 9	FAN 5	TPFN1	**13.8 -0.1Vdc**
250 - 10	FAN 6	TPFN3	**4.5 +0.1 -0Vdc**
250 - 11	FAN 6	TPFN3	**13.8 -0.1Vdc**
250 - 12	FAN 7	TPFN5	**4.5 +0.1 -0Vdc**
250 - 13	FAN 7	TPFN5	**13.8 -0.1Vdc**

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 assy removal" in the chapter "Optical Parts Disassembly".

1. Enter the service mode.
2. Panel Type Check
   Select Group "**290**", 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
   If the mounted LCD panel type and set Panel mode are differ, take the step below.

3. Panel Type Mode Setting
   Select Group "**290**", No. "**1**" and change the 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.

Adjustments item no. [3] and [5] are carried out at the spare parts shipment in the factory, therefore they are not required when the main board is replaced with new one.

3. Auto calibration adjustment [PC] (For PT-EX600)

Input mode	Input 1 (RGB(PC analog))
Input signal	XGA computer signal
Signal pattern	16-step gray scale

1. Enter the service mode.
2. Select Group "**260**", No. "**0**" and set the data value to "**1**".
   The projector begins auto-calibration and then "OK" will appear on the screen.

4. Auto calibration adjustment [Component] (For PT-EX600)

Input mode	Input 2 (Component)
Input signal	100% color bar signal (480i)
	100% color bar signal (480p)
	100% color bar signal (720p)
	100% color bar signal (1080i)

1. Enter the service mode
2. Select Group "**260**", No. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration com pleted, **"OK"** will appear on the screen.

5. Auto calibration adjustment [Video] (For PT-EX600)

Input mode	Input 3 (Video)
Input signal	100% color bar composite video signal

1. Enter the service mode.
2. To start the auto-calibration for composite-video adjustment, select Group "**260**", No. "**0**", and then change data value "**0**" to "**1**".
   After the auto-calibration completed, "OK" will appear on the screen.

3. Auto calibration adjustment [PC]
(For PT-EW630)

Input mode	Input 1 (RGB(PC analog))
Input signal	XGA computer signal
Signal pattern	16-step gray scale

1. Enter the service mode.
2. Select Group "**200**", No. "**70**" and set data value to "**0**". Select Group "**200**", No. "**72**" and set data value to "**0**".
3. Select Group "**260**", No. "**0**" and set data value "**0**" to "**1**".
   The projector begins auto-calibration for MAIN and then "OK" will appear on the screen.
4. Select Group "**200**", No. "**70**" and set data value to "**1**".
5. Select Group "**260**", No. "**0**" and set data value "**0**" to "**1**".
   The projector begins auto-calibration for SUB and then "OK" will appear on the screen.
6. Select Group "**200**", No. "**70**" and set data value to "**0**". Select Group "**200**", No. "**72**" and set data value to "**1**".

4. Auto calibration adjustment[Component]
(For PT-EW630)

Input mode	Input 2 (Component)
Input signal	100% color bar signal (480i)
	100% color bar signal (480p)
	100% color bar signal (720p)
	100% color bar signal (1080i)

1. Enter the service mode.
2. At first, input the 100% color bar signal (480i).
3. Select Group "**200**", No. "**72**" and set data value to "**0**". Select Group "**200**", No. "**71**" and set data value to "**1**".
4. Select Group "**260**", No. "**0**" and set data value "**0**" to "**1**".
   The projector begins auto-calibration and then "OK" will appear on the screen.
5. Select Group "**200**", No. "**71**" and set data value to "**0**".
6. Select Group "**260**", No. "**0**" and set data value "**0**" to "**1**".
   The projector begins auto-calibration and then "OK" will appear on the screen.
7. Change another input signal and take steps 3 - 6 again.
8. Select Group "**200**", No. "**71**" and set data value to "**1**". Select Group "**200**", No. "**72**" and set data value to "**1**".

5. Auto calibration adjustment [Video]
(For PT-EW630)

Input mode	Input 3 (Video)
Input signal	100% color bar composite video signal

1. Enter the service mode.
2. To start the auto-calibration for composite-video adjustment, select Group "**260**", No. "**0**", and then change data value "**0**" to "**1**".

   After the auto-calibration completed, "OK" will appear on the screen.

6. Common center adjustment

Input mode	Input 1 (RGB(PC analog))
Input signal	XGA computer signal
Signal patterns	50% R, G, B whole signals

1. Enter the service mode.
2. Select Group "**101**", No. "**1**" and then change data value from "**2**" to "**0**" to reduce the panel frequency.
3. Change data value to obtain **the minimum flicker** for each color on screen.

Group - No.	Adjustment
100 - 11	**for red flicker**
100 - 9	**for green flicker**
100 - 10	**for blue flicker**

4. Select Group "**101**", No. "**1**" and then change data value from "**0**" to "**2**".

7. Gamma shipment adjustment

Software PROJECTOR SERVICE TOOL v4.20

Use the software to obtain the proper gray scale. See the further information of the software instruction manual.

8. White balance adjustment [PC]

Input mode	Input 1 (RGB(PC analog))
Input signal	XGA computer signal
Signal patterns	16-step gray signals

1. Enter the service mode.
2. Select Group "**100**, No. "**5** (Red) or **4** (Blue), and change Data values respectively to make a proper white balance.

Group - No.	Adjustment
100 - 5	**Color balance Red**
100 - 4	**Color balance Blue**

9. Color shading correction adjustment (For PT-EX600)

Software PROJECTOR SERVICE TOOL v4.20
Signal pattern 12%, 25%, 50%, 75% whole gray

Use the software to correct the color shading of the screen. See the further information of the software instruction manual.
The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as above.

Corresponding to the pull-down menu of the gray level selector on the software.

Level 0	:12%
Level 384	:25%
Level 640	:50%
Level 1032	:75%

Relation of level (%) indication and signal pattern

0%	:Black
100%	:White

9. Color shading correction adjustment (For PT-EW630)

Software PROJECTOR SERVICE TOOL v4.20
Signal pattern 5%, 10%, 15%, 20%, 30%, 50%, 75%, 85% whole gray

Use the software to correct the color shading of the screen. See the further information of the software instruction manual.
The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as above.

Corresponding to the pull-down menu of the gray level selector on the software.

Level L1	:5%
Level L2	:10%
Level L3	:15%
Level L4	:20%
Level L5	:30%
Level L6	:50%
Level L7	:75%
Level L8	:85%

Relation of level (%) indication and signal pattern

0%	:Black
100%	:White

10. Wind sensor calibration

1. Enter the service mode.
2. Select group no. "**240**" and item no. "**2**". Confirm the Data value is "**1**".
   0: Wind sensor function Disable
   1: Wind sensor function Enable
3. Select group no. "**240**" and item no. "**0**".
4. To start the adjustment, change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

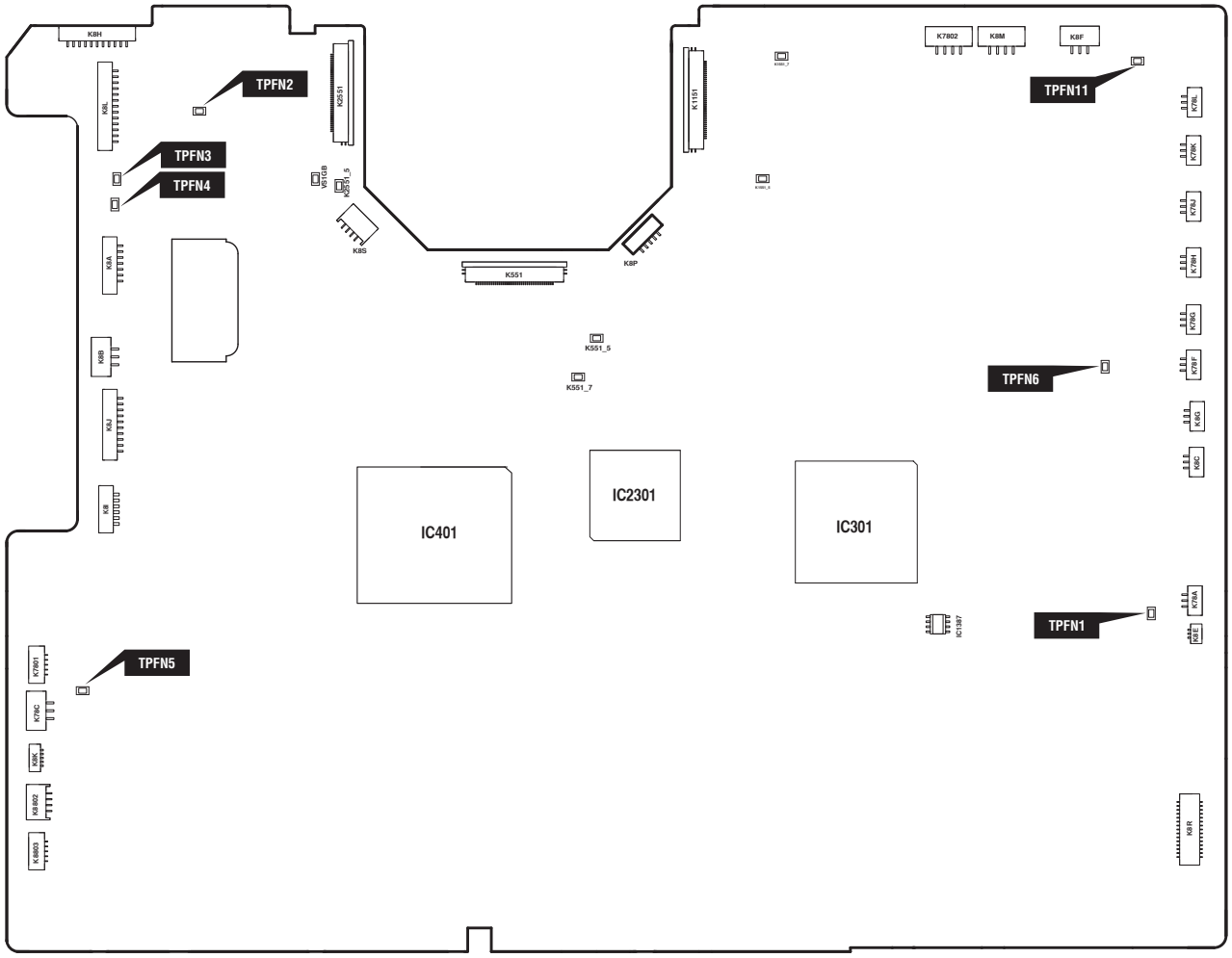
IMPORTANT
Before taking this adjustment, you need to replace the air filter with new one and make sure the cabinet top, filter cover and filter cartridge are securely installed.

11. Lens shift centering setting

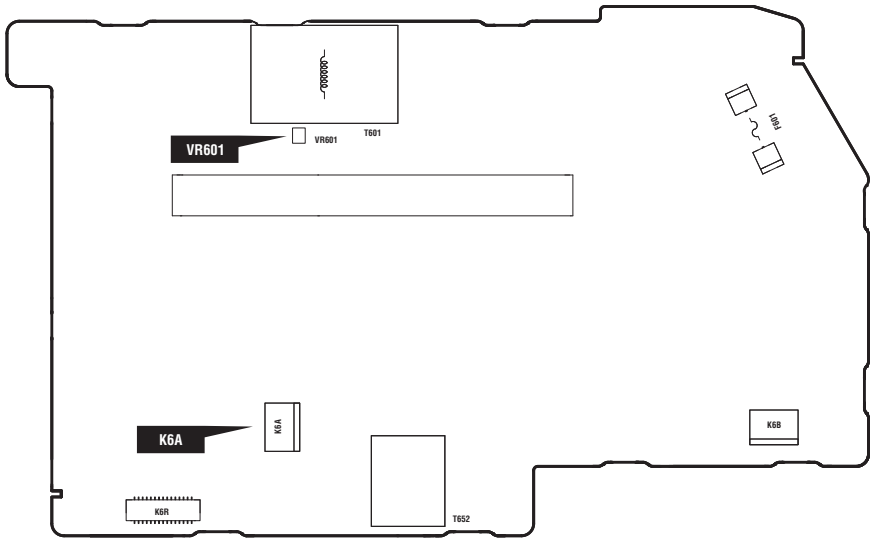
1. Set the lens to the center position (horizontal and vertical) by using the LENS SHIFT Up / Down. Left / Right buttons.
2. Enter the service mode, select Group No. "**200**" and Item No. "**15**" .
3. Change Data value from "**0**" to "**10**". The centering position of the lens shift is memorized.
4. To check the lens shift operation correctly, move the lens to your desired position with LENS buttons. Then press the LENS button for more than 5 seconds. The lens moves to the memorized center position automatically.

Test points and locations

MAIN BOARD



POWER BOARD



Service adjustment data

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	Range	Initial	Note
Group 0	**AD Converter (PW392)**				
3	ADC G-GAIN	YYCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	0 - 1023	(265)/200/210/ 210 /210/265	* Not effective PC
4	ADC R-GAIN	PC/YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	0 - 1023	(265)/205/210/ 210/210/265	* Not effective PC
5	ADC B-GAIN	PC/YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	0 - 1023	(265)/205/210/ 210/210/255	* Not effective PC
10	SOGTH	RGB/COMPONENT / SCART	0 - 15	(2)/4 / 4	
11	SOGHYSDIS	RGBCOMPONENT / SCART	0 - 1	(1)/1 / 0	
12	HS1TH	H Sync1 Threshold RGB/COMPONENT / SCART	0 - 15	(4)/4 / 4	
13	HS0TH	H Sync0 Threshold RGB/COMPONENT / SCART	0 - 15	(4)/4 / 4	
Group 10	**AD Converter (ISL51002/ISL98001)**				
3	ADC G-GAIN	PC/YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50)	0 - 1023	290/(170/185/ 200/200)	*Effective only PC
4	ADC R-GAIN	PC/YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50)	0 - 1023	290/(140/165/ 165/165)	*Effective only PC
5	ADC B-GAIN	PC/YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50)	0 - 1023	290/(140/165/ 165/165)	*Effective only PC
Group 20	**Video Decoder**				
0	Y Level	Composite 60Hz/ S-Video 60Hz/ Composite 50Hz / S-Video 50Hz- Y Level (ADC RGB Gain)	0 - 1023	175/175/185/185	
1	C Level	Composite 60Hz / S-Video 60Hz / Composite 50Hz / S-Video 50Hz - C Level (ADC Saturation)	0 - 1023	405/405/440/440	
10	XCXL Parameter	XCXL Level	0 - 4	2	
11	Sync Amp Low	Minimum sync amplitude threshold for HLOCK 1 to 0 transition	0 - 9999	0x0700	
12	Sync Amp High	Minimum sync amplitude threshold for HLOCK 0 to 1 transition	0 - 9999	0x1000	
13	Luma Setup Enable	7.5IRE Mode (NTSC only)	0 - 1	0	
14	Anti-Alias Filter	Anti-Alias Filter	0 - 7	4	
15	Anti-Alias Downsample	Anti-Alias Downsample	0 - 3	0	
16	Anti-Alias High Frequency	Anti-Alias High Frequency	0 - 3	3	
20	Comb 3D Cross-Luma Top/Bottom Amplitude	for PAL/SECAM only	0 - 3	3	
Group 30	**HDMI(SIL9127A/MN864771A)**				
0	Long cable mode(for DVI)	Channel1	0 - 1	0	
1	Long cable mode(for HDMI)	Channel2	0 - 1	0	
Group 40	**General**				
0	IP Mode	Set at IP OFF 0: Not used IP Block 1: Used IP Block and IP OFF	0 - 1	1	
1	3:2 PullDown Mode	bit0: Global Motion bit1: Video Motion	1 - 3	1	
2	Detect Film Mode Enable	0: 2:3pull down & 2:2pull down 1: 2:3pull down 2: 2:2pull down	0 - 2	0	
3	NR Enable for Analog YUV	0 : Noise Reduction detected with Y and UV motion	0 - 1	1	
4	NR Enable for Digital YUV	1 : Noise Reduction detected with Y motion Analog YUV : PC/Video/S-Video/Component Digital YUV : HDMI <NSYUVEN>	0 - 1	0	
Group 41	**Deinterlacer setting**	**Progressive Mode1, Film Parameter**			
0	Motion Adaptive Weight Value	<KDEINT>	0 - 255	30/30/30	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	0 - 5	4/4/4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0 - 255	0/0/0	

Group/ Item	Item Name	Function	Range	Initial	Note
Group 42	**Deinterlacer setting**	**Progressive Mode2 Parameter**			
0	Motion Adaptive Weight Value	<KDEINT>	0 - 255	0/0/0	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	0 - 5	2/2/2	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0 - 255	0/0/0	
Group 47	**Noise Reduction (time)**	**NR L1 Parameter**			
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	0 - 2	1	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	0 - 1023	12	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	0 - 1023	24	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	0 - 1023	40	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0 - 255	100	
Group 49	**Noise Reduction (time)**	**NR L2 Parameter**			
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	0 - 2	1	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	0 - 1023	12	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	0 - 1023	24	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	0 - 1023	40	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0 - 255	100	
Group 50	**2:2pull down setting**				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	1 - 5	4	
1	22Film Mode Threshold Low	<FILMTHRD22A>	0 - 1023	80	
2	22Film Mode Threshold High	<FILMTHRD22B>	0 - 1023	120	
3	Video Motion Window Start X	<VOFSTARX>	0 - 255	10	
4	Video Motion Window Stop X	<VOFSTOPX>	0 - 255	10	
5	Video Motion Window Start Y	<VOFSTARY>	0 - 255	10	
6	Video Motion Window Stop Y	<VOFSTOPY>	0 - 255	10	
Group 51	**2:3pull down setting**				
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	1 - 5	4	
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	1 - 5	4	
2	Video Motion Threshold Low	<VOFTHRDA>	0 - 1023	120	
3	Video Motion Threshold High	<VOFTHRDB>	0 - 1023	180	
4	Global Motion 23Film Thresh-old	<FILMTHRD23>	0 - 1023	100	
5	Global Motion Window Start X	<GMDSTARX>	0 - 255	10	
6	Global Motion Window Stop X	<GMDSTOPX>	0 - 255	10	
7	Global Motion Window Start Y	<GMDSTARY>	0 - 255	10	
8	Global Motion Window Stop Y	<GMDSTOPY>	0 - 255	10	
Group 55	**LTI / CTI**				
0	Video Enhancement Enable	VEHEN	0 - 1	1	
1	DLTI Gain	DLTIGAIN	0 - 15	3	
2	DLTI Frequency	DLTIFREQ	0 - 3	2	
3	Bypass Anti-Alias Filter	DTIBYPASSAAL	0 - 1	0	
4	Lower DCTI Frequency	LOWERDCTIFREQ	0 - 1	1	
5	DCTI Gain	DCTIGAIN	0 - 15	4	
6	DCTI Frequency	DCTIFREQ	0 - 3	0	
7	Color Shift Limit	COLORSHIFTLMT	0 - 3	3	
Group 60	**Sub Image**				

Group/ Item	Item Name	Function	Range	Initial	Note
0	Center Contrast	Group Composite / S-Video / Component / Digital / D-RGB-Video /AnalogRGB / RGB-Video / HDCP-PC /HDCP-AV /SCART/ PJ-Net Value = (Menu Value - Menu Center) x Alpha / 10 + Center (Effective Range) 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 (Dummy) WB R/G/B [Max] 1023 [Min] 0 BB R/G/B [Max] 1023 [Min] 0 Fixed Sharpness Up/Down [Max] 37 [Min] 0	0 - 1023	534/534/578/492/492/534 /534/492/492/534/492	
1	Center Brightness		0 - 1023	512/512/512/512/512/496 496/512/512/496/512	
2	Center Color		0 - 1023	512/512/512/512/512/512 /512/512/512/512/512	
3	Center Tint		0 - 180	90/90/90/90/90/90/ 90/90/90/90/90	
5	Fixed Sharpness(Down Scaling)		0-67	34/34/34/34/34/34/34/34/34/34/ 34	
6	Center Sharpness(No FPGA)		0-90	17/17/17/17/17/17/17/17/17/17	
7	Center WB Red		0 - 1023	512/512/512/512/512/512 /512/512/512/512/512	
8	Center WB Green		0 - 1023	512/512/512/512/512/512 /512/512/512/512/512	
9	Center WB Blue		0 - 1023	512/512/512/512/512/512 /512/512/512/512/512	
10	Center BB Red		0 - 1023	512/512/512/512/512/512 /512/512/512/512/512	
11	Center BB Green		0 - 1023	512/512/512/512/512/512 /512/512/512/512/512	
12	Center BB Blue		0 - 1023	512/512/512/512/512/512 /512/512/512/512/512	
13	Alpha Contrast		0 - 1000	60/60/60/60/60/60/ 60/60/60/60/60	
14	Alpha Brightness	Group Composite / S-Video / Component / Digital / D-RGB-Video /AnalogRGB / RGB-Video / HDCP-PC /HDCP-AV /SCART/ PJ-Net Value = (Menu Value - Menu Center) x Alpha / 10 + Center (Effective Range) 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 (Dummy) WB R/G/B [Max] 1023 [Min] 0 BB R/G/B [Max] 1023 [Min] 0 Fixed Sharpness Up/Down [Max] 37 [Min] 0	0 - 1000	90/90/90/90/90/90/ 90/90/90/90/90	
15	Alpha Color		0 - 1000	140/140/140/140/140/140 /140/140/140/140/140	
16	Alpha Tint		0 - 1000	10/10/10/10/10/10/ 10/10/10/10/10	
17	Alpha Sharpness		0 - 1000	10/10/10/10/10/10/ 10/10/10/10/10	
18	Alpha WB Red		0 - 1000	40/40/40/40/40/40/ 40/40/40/40/40	
19	Alpha WB Green		0 - 1000	40/40/40/40/40/40/ 40/40/40/40/40	
20	Alpha WB Blue		0 - 1000	40/40/40/40/40/40/ 40/40/40/40/40	
21	Alpha BB Red		0 - 1000	20/20/20/20/20/20/ 20/20/20/20/20	
22	Alpha BB Green		0 - 1000	20/20/20/20/20/20/ 20/20/20/20/20	
23	Alpha BB Blue		0 - 1000	20/20/20/20/20/20/ 20/20/20/20/20	

Group 91	**DLV-FPGA (For PT_EX600)**				
0	TSEL	test select	0 - 15	0	
1	TRM_VD	VD l image seting	0 - 4095	655	
2	SEL_VD	VD image select (0: Regeneration Signal, 1: Gamma VD, 2: PWM SIgnal, 3: L Fixed, 4: Disable, 5: Disable)	0 - 5	0	

Group 91	**DLV-FPGA (For PT_EW630)**				
0	TSEL	test select	0 - 15	0	
1	TRM_VD	VD l image seting	0 - 4095	650	
2	SEL_VD	VD image select (0: Regeneration Signal, 1: Gamma VD, 2: PWM SIgnal, 3: L Fixed, 4: Disable, 5: Disable)	0 - 5	0	

Group 100	**CXA7009R (For PT_EX600)**			
0	G SIG Center		0 - 63	47
1	B SIG Center		0 - 63	47
2	R SIG Center		0 - 63	47
3	G Bright Control		0 - 255	224
4	B Bright Control		0 - 255	224
5	R Bright Control		0 - 255	224
6	G Gain Control		0 - 255	0
7	B Gain Control		0 - 255	0
8	R Gain Control		0 - 255	0
9	G VCOM Control		0 - 255	92
10	B VCOM Control		0 - 255	92
11	R VCOM Control		0 - 255	92
12	G SID Control A		0 - 255	7
13	B SID Control A		0 - 255	7
14	R SID Control A		0 - 255	7
15	G SID Control B		0 - 255	149
16	B SID Control B		0 - 255	149

Group/ Item	Item Name	Function	Range	Initial	Note
17	R SID Control B		0 - 255	149	
18	G FRINV		0 - 1	1	
19	B FRINV		0 - 1	0	
20	R FRINV		0 - 1	0	
Group 100	**CXA7009R (For PT-EW630)**				
0	G SIG Center		0 - 63	47	
1	B SIG Center		0 - 63	47	
2	R SIG Center		0 - 63	47	
3	G Gain Control		0 - 255	224	
4	B Gain Control		0 - 255	121	
5	R Gain Control		0 - 255	224	
6	G Bright Control		0 - 255	0	
7	B Bright Control		0 - 255	0	
8	R Bright Control		0 - 255	0	
9	G VCOM Control		0 - 255	102	
10	B VCOM Control		0 - 255	102	
11	R VCOM Control		0 - 255	102	
12	G SID Control A		0 - 255	7	
13	B SID Control A		0 - 255	7	
14	R SID Control A		0 - 255	7	
15	G SID Control B		0 - 255	149	
16	B SID Control B		0 - 255	149	
17	R SID Control B		0 - 255	149	
18	G FRINV		0 - 1	1	
19	B FRINV		0 - 1	0	
20	R FRINV		0 - 1	0	
Group 101	**CXD3548_TG (For PT-EX600)**				
0	SCANM		0 - 3	2	
1	FRPM	only 1 can not be set	0 - 2	2	
2	SCAN_SEL		0 - 1	1	
3	HP		0 - 2047	12	
4	VP_G		0 - 255	6	
5	SHP_R		0 - 127	26	
6	SHP_G		0 - 127	26	
7	SHP_B		0 - 127	26	
8	FRP_HP		0 - 2047	64	
9	PRG_U		0 - 1023	64	
10	PRG_D		0 - 1023	106	
11	HST_R_RF		0 - 127	12	
12	HST_R_PC		0 - 127	9	
13	DCK1_R_WA		0 - 127	5	
14	DCK1_R_F		0 - 127	24	
15	DCK2_R_WA		0 - 127	5	
16	DCK2_R_F		0 - 127	24	
17	DCK3_R_WA		0 - 127	5	
18	DCK3_R_F		0 - 127	0	
19	DCK4_R_WA		0 - 127	5	
20	DCK4_R_F		0 - 127	0	
21	HST_G_PF		0 - 127	12	
22	HST_G_PC		0 - 127	9	
23	DCK1_G_WA		0 - 127	5	
24	DCK1_G_F		0 - 127	0	
25	DCK2_G_WA		0 - 127	5	
26	DCK2_G_F		0 - 127	24	
27	DCK3_G_WA		0 - 127	5	
28	DCK3_G_F		0 - 127	24	
29	DCK4_G_WA		0 - 127	5	
30	DCK4_G_F		0 - 127	0	
31	HST_B_PF		0 - 127	12	
32	HST_B_PC		0 - 127	9	
33	DCK1_B_WA		0 - 127	5	
34	DCK1_B_F		0 - 127	24	
35	DCK2_B_WA		0 - 127	5	
36	DCK2_B_F		0 - 127	24	
37	DCK3_B_WA		0 - 127	5	
38	DCK3_B_F		0 - 127	0	
39	DCK4_B_WA		0 - 127	5	
40	DCK4_B_F		0 - 127	0	

Group/ Item	Item Name	Function	Range	Initial	Note
41	PCG_U		0 - 1023	64	
42	PCG_D		0 - 1023	148	
43	ENB_U		0 - 1023	109	
44	ENB_D		0 - 1023	50	
45	CLR_U		0 - 1023	64	
46	CLR_D		0 - 1023	36	
47	VCKP		0 - 2047	64	
48	VCKPD		0 - 2047	1344	
49	VSTP		0 - 255	78	
50	DFT_ON		0 - 1	0	
51	HPC_R_DAT0		0 - 8191	0	
52	HPC_R_DAT1		0 - 8191	0	
53	HPC_G_DAT0		0 - 8191	0	
54	HPC_G_DAT1		0 - 8191	0	
55	HPC_B_DAT0		0 - 8191	0	
56	HPC_B_DAT1		0 - 8191	0	
57	SCAN_HP		0 - 2047	58	
Group 101	**CXD3548_TG (For PT-EW630)**				
0	SCANM		0 - 3	2	
1	FRPM	only 1 can not be set	0 - 2	2	
2	SCAN_SEL		0 - 1	1	
3	HP		0 - 2047	18	
4	VP_G		0 - 255	4	
5	SHP_R		0 - 127	30	
6	SHP_G		0 - 127	30	
7	SHP_B		0 - 127	30	
8	FRP_HP		0 - 2047	51	
9	PRG_U		0 - 1023	51	
10	PRG_D		0 - 1023	102	
11	HST_R_RF		0 - 127	12	
12	HST_R_PC		0 - 127	9	
13	DCK1_R_WA		0 - 127	5	
14	DCK1_R_F		0 - 127	24	
15	DCK2_R_WA		0 - 127	5	
16	DCK2_R_F		0 - 127	24	
17	DCK3_R_WA		0 - 127	5	
18	DCK3_R_F		0 - 127	0	
19	DCK4_R_WA		0 - 127	5	
20	DCK4_R_F		0 - 127	0	
21	HST_G_PF		0 - 127	12	
22	HST_G_PC		0 - 127	9	
23	DCK1_G_WA		0 - 127	5	
24	DCK1_G_F		0 - 127	24	
25	DCK2_G_WA		0 - 127	5	
26	DCK2_G_F		0 - 127	0	
27	DCK3_G_WA		0 - 127	5	
28	DCK3_G_F		0 - 127	0	
29	DCK4_G_WA		0 - 127	5	
30	DCK4_G_F		0 - 127	0	
31	HST_B_PF		0 - 127	12	
32	HST_B_PC		0 - 127	9	
33	DCK1_B_WA		0 - 127	5	
34	DCK1_B_F		0 - 127	24	
35	DCK2_B_WA		0 - 127	5	

Group/ Item	Item Name	Function	Range	Initial	Note
36	DCK2_B_F		0 - 127	24	
37	DCK3_B_WA		0 - 127	5	
38	DCK3_B_F		0 - 127	0	
39	DCK4_B_WA		0 - 127	5	
40	DCK4_B_F		0 - 127	0	
41	PCG_U		0 - 1023	51	
42	PCG_D		0 - 1023	149	
43	ENB_U		0 - 1023	103	
44	ENB_D		0 - 1023	38	
45	CLR_U		0 - 1023	47	
46	CLR_D		0 - 1023	21	
47	VCKP		0 - 2047	51	
48	VCKPD		0 - 2047	1680	
49	VSTP		0 - 255	116	
50	DFT_ON		0 - 1	0	
51	HPC_R_DAT0		0 - 8191	0	
52	HPC_R_DAT1		0 - 8191	0	
53	HPC_G_DAT0		0 - 8191	0	
54	HPC_G_DAT1		0 - 8191	0	
55	HPC_B_DAT0		0 - 8191	0	
56	HPC_B_DAT1		0 - 8191	0	
57	SCAN_HP		0 - 2047	52	
Group 102	**CXD3548_DSD_PRE (For PT-EX600)**				
0	USR_R_GAIN		0 - 1023	512	
1	USR_G_GAIN		0 - 1023	512	
2	USR_B_GAIN		0 - 1023	512	
3	USR_R_BRIGHT		0 - 8191	0	
4	USR_G_BRIGHT		0 - 8191	0	
5	USR_B_BRIGHT		0 - 8191	0	
6	FRM_DAT		0 - 255	0	
7	SEL_MODE		0 - 7	5	
8	RLR_DUM_PIX		0 - 127	4	
Group 102	**CXD3548_DSD_PRE (For PT-EW630)**				
0	USR_R_GAIN		0 - 1023	512	
1	USR_G_GAIN		0 - 1023	512	
2	USR_B_GAIN		0 - 1023	512	
3	USR_R_BRIGHT		0 - 8191	0	
4	USR_G_BRIGHT		0 - 8191	0	
5	USR_B_BRIGHT		0 - 8191	0	
6	FRM_DAT		0 - 255	192	
7	SEL_MODE		0 - 7	5	
8	RLR_DUM_PIX		0 - 127	4	
9	SH_ON		0 - 1	0	
10	SH_GAIN		0 - 255	127	
11	SH_OFST		0 - 255	0	
12	SH_CLIP		0 - 255	127	
Group 103	**CXD3548_GAM**				
0	GAM_ON		1	1	
1	GAM_R_GAIN		0 - 1023	512	
2	GAM_G_GAIN		0 -1023	512	
3	GAM_B_GAIN		0 - 1023	512	

Group/ Item	Item Name	Function	Range	Initial	Note
4	GAM_R_BRIGHT		0 - 8191	0	
5	GAM_G_BRIGHT		0 - 8191	0	
6	GAM_B_BRIGHT		0 - 8191	0	
Group 104	**CXD3548_VXT (For PT-EX600)**				
0	VXT_DETECT_ON		0 - 1	1	
1	VXT_GSEL		0 - 3	2	
2	VXT_RCALC		0 - 1	0	
3	VXT_GCALC		0 - 1	0	
4	VXT_BCALC		0 - 1	0	
5	VXT_ON		0 - 1	1	
6	VXT_RDATU1		0 - 255	8	
7	VXT_RDATU2		0 - 255	7	
8	VXT_RDATU3		0 - 255	1	
9	VXT_GDATU1		0 - 255	8	
10	VXT_GDATU2		0 - 255	7	
11	VXT_GDATU3		0 - 255	1	
12	VXT_BDATU1		0 - 255	8	
13	VXT_BDATU2		0 - 255	7	
14	VXT_BDATU3		0 - 255	1	
15	VXT_RDATL1		0 - 255	4	
16	VXT_RDATL2		0 - 255	3	
17	VXT_RDATL3		0 - 255	1	
18	VXT_GDATL1		0 - 255	4	
19	VXT_GDATL2		0 - 255	3	
20	VXT_GDATL3		0 - 255	1	
21	VXT_BDATL1		0 - 255	4	
22	VXT_BDATL2		0 - 255	3	
23	VXT_BDATL3		0 - 255	1	
24	VXT_TH_ON		0 - 15	15	
25	VXT_TH1		0 - 255	38	
26	VXT_TH2		0 - 255	81	
27	VXT_TH3		0 - 255	226	
28	VXT_TH4		0 - 255	240	
Group 104	**CXD3548_VXT (For PT-EW630)**				
0	VXT_DETECT_ON		0 - 1	1	
1	VXT_GSEL		0 - 3	1	
2	VXT_RCALC		0 - 1	0	
3	VXT_GCALC		0 - 1	0	
4	VXT_BCALC		0 - 1	0	
5	VXT_ON		0 - 1	1	
6	VXT_RDATU1		0 - 255	1	
7	VXT_RDATU2		0 - 255	30	
8	VXT_RDATU3		0 - 255	12	
9	VXT_GDATU1		0 - 255	1	
10	VXT_GDATU2		0 - 255	30	
11	VXT_GDATU3		0 - 255	12	
12	VXT_BDATU1		0 - 255	12	
13	VXT_BDATU2		0 - 255	46	
14	VXT_BDATU3		0 - 255	12	
15	VXT_RDATL1		0 - 255	1	
16	VXT_RDATL2		0 - 255	15	
17	VXT_RDATL3		0 - 255	6	
18	VXT_GDATL1		0 - 255	1	

Group/ Item	Item Name	Function	Range	Initial	Note
19	VXT_GDATL2		0 - 255	15	
20	VXT_GDATL3		0 - 255	6	
21	VXT_BDATL1		0 - 255	1	
22	VXT_BDATL2		0 - 255	15	
23	VXT_BDATL3		0 - 255	6	
24	VXT_TH_ON		0 - 15	14	
25	VXT_TH1		0 - 255	33	
26	VXT_TH2		0 - 255	163	
27	VXT_TH3		0 - 255	202	
28	VXT_TH4		0 - 255	255	
Group 105	**CXD3548_CSC (For PT-EX600)**				
0	CSC_XH		0 - 1	0	
1	CSC_ON		0 - 1	1	
2	CSC_R_GP1		0 - 511	317	
3	CSC_R_GP2		0 - 511	281	
4	CSC_R_GP3		0 - 511	232	
5	CSC_R_GP4		0 - 511	179	
6	CSC_R_GP5		0 - 511	0	
7	CSC_R_GP6		0 - 511	0	
8	CSC_R_GP7		0 - 511	0	
9	CSC_R_GP8		0 - 511	0	
10	CSC_G_GP1		0 - 511	322	
11	CSC_G_GP2		0 - 511	285	
12	CSC_G_GP3		0 - 511	241	
13	CSC_G_GP4		0 - 511	196	
14	CSC_G_GP5		0 - 511	0	
15	CSC_G_GP6		0 - 511	0	
16	CSC_G_GP7		0 - 511	0	
17	CSC_G_GP8		0 - 511	0	
18	CSC_B_GP1		0 - 511	319	
19	CSC_B_GP2		0 - 511	285	
20	CSC_B_GP3		0 - 511	235	
21	CSC_B_GP4		0 - 511	179	
22	CSC_B_GP5		0 - 511	0	
23	CSC_B_GP6		0 - 511	0	
24	CSC_B_GP7		0 - 511	0	
25	CSC_B_GP8		0 - 511	0	
Group 105	**CXD3548_CSC (For PT-EW630)**				
0	CSC_XH		0 - 1	0	
1	CSC_ON	0:Ghost Feed Back OFF 1:Ghost Feed Back On	0 - 1	1	
2	CSC_R_GP1		0 - 511	367	
3	CSC_R_GP2		0 - 511	322	
4	CSC_R_GP3		0 - 511	308	
5	CSC_R_GP4		0 - 511	296	
6	CSC_R_GP5		0 - 511	276	
7	CSC_R_GP6		0 - 511	237	
8	CSC_R_GP7		0 - 511	173	
9	CSC_R_GP8		0 - 511	134	
10	CSC_G_GP1		0 - 511	372	
11	CSC_G_GP2		0 - 511	333	
12	CSC_G_GP3		0 - 511	315	
13	CSC_G_GP4		0 - 511	303	

Group/ Item	Item Name	Function	Range	Initial	Note
14	CSC_G_GP5		0 - 511	285	
15	CSC_G_GP6		0 - 511	253	
16	CSC_G_GP7		0 - 511	204	
17	CSC_G_GP8		0 - 511	170	
18	CSC_B_GP1		0 - 511	376	
19	CSC_B_GP2		0 - 511	335	
20	CSC_B_GP3		0 - 511	317	
21	CSC_B_GP4		0 - 511	305	
22	CSC_B_GP5		0 - 511	286	
23	CSC_B_GP6		0 - 511	251	
24	CSC_B_GP7		0 - 511	197	
25	CSC_B_GP8		0 - 511	170	
Group 106	**CXD3548_SHAD (For PT-EX600)**				
0	SHAD_GSEL		0 - 3	2	
1	SHAD_R_CALC		0 - 1	1	
2	SHAD_G_CALC		0 - 1	1	
3	SHAD_B_CALC		0 - 1	1	
4	SHAD_ON		0 - 1	1	
5	SHAD_R_DAT1		0 - 255	44	
6	SHAD_R_DAT2		0 - 255	13	
7	SHAD_R_DAT3		0 - 255	0	
8	SHAD_G_DAT1		0 - 255	44	
9	SHAD_G_DAT2		0 - 255	13	
10	SHAD_G_DAT3		0 - 255	0	
11	SHAD_B_DAT1		0 - 255	44	
12	SHAD_B_DAT2		0 - 255	13	
13	SHAD_B_DAT3		0 - 255	0	
14	SHAD_COEF		0 - 4095	1365	
Group 106	**CXD3548_SHAD (For PT-EW630)**				
0	SHAD_GSEL		0 - 3	1	
1	SHAD_R_CALC		0 - 1	1	
2	SHAD_G_CALC		0 - 1	1	
3	SHAD_B_CALC		0 - 1	1	
4	SHAD_ON		0 - 1	1	
5	SHAD_R_DAT1		0 - 255	52	
6	SHAD_R_DAT2		0 - 255	12	
7	SHAD_R_DAT3		0 - 255	21	
8	SHAD_G_DAT1		0 - 255	52	
9	SHAD_G_DAT2		0 - 255	12	
10	SHAD_G_DAT3		0 - 255	21	
11	SHAD_B_DAT1		0 - 255	44	
12	SHAD_B_DAT2		0 - 255	50	
13	SHAD_B_DAT3		0 - 255	21	
14	SHAD_COEF		0 - 4095	1310	
Group 107	**CXD3548_VS**				
0	VS_GSEL		0 - 3	0	
1	VS_R_RGT		0 - 1	0	
2	VS_G_RGT		0 - 1	0	
3	VS_B_RGT		0 - 1	0	
4	VS_CYCLE		0 - 1	0	
5	VS_ON		0 - 1	0	
6	VS_GDAT1		0 - 255	0	
7	VS_DAT		0 - 255	0	
8	VS_GDAT3		0 - 255	0	
9	VS_GDAT2		0 - 255	0	
Group 108	**CXD3548_DSDPOST1**				
0	HXT_TH4_ON		0 - 1	0	
1	HXT_TH3_ON		0 - 1	0	
2	HXT_TH2_ON		0 - 1	0	

Group/ Item	Item Name	Function	Range	Initial	Note
3	HXT_TH1_ON		0 - 1	0	
4	HXT_ON		0 - 1	0	
5	HXT_RCALC		0 - 1	0	
6	HXT_GCALC		0 - 1	0	
7	HXT_BCALC		0 - 1	0	
8	HXT_GSEL		0 - 3	0	
9	HXT_RDAT1		0 - 255	0	
10	HXT_RDAT2		0 - 255	0	
11	HXT_RDAT3		0 - 255	0	
12	HXT_GDAT1		0 - 255	0	
13	HXT_GDAT2		0 - 255	0	
14	HXT_GDAT3		0 - 255	0	
15	HXT_BDAT1		0 - 255	0	
16	HXT_BDAT2		0 - 255	0	
17	HXT_BDAT3		0 - 255	0	
18	HXT_TH1		0 - 255	0	
19	HXT_TH2		0 - 255	0	
20	HXT_TH3		0 - 255	0	
21	HXT_TH4		0 - 255	0	
22	SEL_MODE2		0 - 7	5	
Group 109	**CXD3548_WEC1 (For PT-EW630)**				
0	WEC_ON		0 - 1	1	
Group 200	**Option (For PT-EX600)**				
0	Logo Display Prohibition	0:Menu 1:Forced	0 - 1	0	
1	RS232C Baudrate	0: 19200bps 1: 9600bps	0 - 1	0	
4	CABLE SW	Long Cable 0: Disable 1: Enable	0 - 1	0	
5	PW Debug Command Enable	0: Disable (Serial Command Enable) 1: Enable (PW Debug Mode)	0 - 1	0	
6	Device Refresh Disable	0: Enable 1: Disable	0 - 1	0	
8	PJ-NET Hung up check	0: Enable 1: Disable	0 - 1	0	
12	HDCP EDID Data Setting		0 - 4	0	
15	Lens Shift Position Default Setting	Reset when the value is set to 10	0 - 10	0	
20	Projector Time Reset		0 - 10	0	
21	Lamp Warning Time (NORMAL)		1 - 16	6	
22	Lamp Warning Time (ECO)		1 - 16	8	
24	Projector Time Reset Times		0 - 255	0	
50	Lamp Replacement Display	1:On 0:Off	0 - 1	1	
51	Filter Warning Display	1:On 0:Off	0 - 1	1	
53	Filter Counter Reset Times	Read only	0 - 255	0	
54	Factory Default Execute Times	Read only	0 - 255	0	
55	Motor Operation Stop	0: Enable 1: Disable	0 - 1	0	
56	Menu Position Change (X)		0 - 1024	0	
57	Menu Position CHange (Y)		0 - 1024	0	
58	Lamp Go Out	Lamp goes out	0 - 1	0	
63	Source Search Enable	0: Disable, 1: Enable	0 - 1	1	
64	Input Source Search Ship Enable	0: Disable, 1: Enable	0 - 1	1	
70	ADC Device Select for Analog PC	0 = ISL51002, 1 = PW392 AFE	0 - 1	0	
71	ADC Device Select for Component	0 = ISL51002, 1 = PW392 AFE	0 - 1	1	
72	Component/RGB Auto switch	0: Disable, 1: Enable if set 1, disable items 70 and 71	0 - 1	1	
95	Flicker Mode 1	0: Disable, 1: Enable	0 - 1	0	
96	Flicker Mode 2	Dimmer Level at Normal	0 - 15	8	
110	Monitor out at Cooling	0: Output at Cooling time, 1: Disable at Cooling	0 - 1	0	
111	Image Mute&Still Linkage Enable	0: Disable, 1: Enable	0 -1	1	
112	Image Mute&Still Monitor Out Linkage Enable	0: Disable, 1: Enable	0 -1	1	
130	Start Logo Counter	0: 30 sec. 1: 20 sec.	0 - 1	0	
140	Offset Addition Setting status	0: Not Excuting 1: Excuting	-	0	
141	Offset Addition Setting change	Shutter Down Temp. Raising	0 - 10	0	
142	Offset Value		-	10	
143	Offset Addition Setting Excuting times		0 - 255	0	
144	Offset Addition Setting Releasing times		0 - 255	0	
160	Iris Error Warning Display	0: Off, 1: On	0 - 1	1	

Group/ Item		Item Name	Function	Range	Initial	Note
Group 200		**Option (For PT-EW630)**				
	0	Logo Display Prohibition	0:Menu 1:Forced	0 - 1	0	
	1	RS232C Baudrate	0: 19200bps 1: 9600bps	0 - 1	0	
	4	CABLE SW	Long Cable 0: Disable 1: Enable	0 - 1	0	
	5	PW Debug Command Enable	0: Disable (Serial Command Enable) 1: Enable (PW Debug Mode)	0 - 1	0	
	6	Device Refresh Disable	0: Enable 1: Disable	0 - 1	0	
	8	PJ-NET Hung up check	0: Enable 1: Disable	0 - 1	0	
	12	HDCP EDID Data Setting		0 - 4	0	
	15	Lens Shift Position Default Setting	Reset when the value is set to 10	0 - 10	0	
	20	Projector Time Reset		0 - 10	0	
	21	Lamp Warning Time (NORMAL)		1 - 16	6	
	22	Lamp Warning Time (ECO)		1 - 16	8	
	24	Projector Time Reset Times		0 - 255	0	
	50	Lamp Replacement Display	1:On 0:Off	0 - 1	1	
	51	Filter Warning Display	1:On 0:Off	0 - 1	1	
	53	Filter Counter Reset Times	Read only	0 - 255	0	
	54	Factory Default Execute Times	Read only	0 - 255	0	
	55	Motor Operation Stop	0: Enable 1: Disable	0 - 1	0	
	56	Menu Position Change (X)		0 - 1024	0	
	57	Menu Position CHange (Y)		0 - 1024	0	
	58	Lamp Go Out	Lamp goes out	0 - 1	0	
	63	Source Search Enable	0: Disable, 1: Enable	0 - 1	1	
	64	Input Source Search Ship Enable	0: Disable, 1: Enable	0 - 1	1	
	70	ADC Device Select for Analog PC	0 = ISL51002, 1 = PW392 AFE	0 - 1	0	
	71	ADC Device Select for Component	0 = ISL51002, 1 = PW392 AFE	0 - 1	1	
	72	Component/RGB Auto switch	0: Disable, 1: Enable if set 1, disable items 70 and 71	0 - 1	1	
	95	Flicker Mode 1	0: Disable, 1: Enable	0 - 1	0	
	96	Flicker Mode 2	DImmer Level at Normal	0 - 15	8	
	110	Monitor out at Cooling	0: Output at Cooling time, 1: Disable at Cooling	0 - 1	0	
	111	Image Mute&Still Linkage Enable	0: Disable, 1: Enable	0 -1	1	
	112	Image Mute&Still Monitor Out Linkage Enable	0: Disable, 1: Enable	0 -1	1	
	130	Start Logo Counter	0: 30 sec. 1: 20 sec.	0 - 1	0	
	140	Offset Addition Setting status	0: Not Excuting 1: Excuting	-	0	
	141	Offset Addition Setting change	Shutter Down Temp. Raising	0 - 10	0	
	142	Offset Value		-	10	
	143	Offset Addition Setting Excuting times		0 - 255	0	
	144	Offset Addition Setting Releasing times		0 - 255	0	
	160	Iris Error Warning Display	0: Off, 1: On	0 - 1	1	
Group 201		**Option (Signal)**				
	0	FrameLock Option	Frame Lock Setting 0:Off at PC , 1: Off at AV, 2: All Off, 3: Normal, 4: Normal	0 - 4	4	
	1	Dither Enable	0: Disable 1: Enable	0 - 1	1	
	3	Field Sense Invert Enable	0: Disable, 1: Enable	0 - 1	0	
Group 205		**Spread Spectrum**				
	0	Enable	0: OFF, 1: ON	0 - 1	1	
	1	Spread factor	Default: 100	0 - 400	200	
	2	ModulationFrequency	Default: 300	1 - 500	150	
Group 210		**Lamp Control**				
	0	Dimmer SW	0:Auto 1:Manual	0 - 1	0	
	1	Manual Control	Lamp Power Manual Control (DIMMER_CTRL_LEVEL 38(Dark) -128(Bright))	38 - 128	38	
	17	DIMMER_AVERAGE_POINT	Y Average Point	1 - 16	16	
	18	DIMMER_AVERAGE_DATA	Y Average Data (Read only)	-	-	
	19	DIMMER_LEVEL_AUTO	Current Y Level (Read only)	-	-	
	20	DIMMER_LEVEL_NORMAL	Dim Level at Normal	38 - 128	128	
	21	DIMMER_LEVEL_ECO	Dim Level at Eco	38 - 128	102	
	23	VOLTAGE_LEVEL	Lamp Voltage (Read only)	-	-	
	40	DIMMER CTRL APL 0	API coordinate for dimming data 0	0 - 255	2	
	41	DIMMER CTRL APL 1	API coordinate for dimming data 1	0 - 255	10	
	42	DIMMER CTRL APL 2	API coordinate for dimming data 2	0 - 255	25	

Group/ Item	Item Name	Function	Range	Initial	Note
43	DIMMER CTRL APL 3	API coordinate for dimming data 3	0 - 255	60	
44	DIMMER CTRL APL 4	API coordinate for dimming data 4	0 - 255	80	
45	DIMMER CTRL APL 5	API coordinate for dimming data 5	0 - 255	135	
46	DIMMER CTRL APL 6	API coordinate for dimming data 6	0 - 255	200	
60	DIMMER CTRL LEVEL 0	LEVEL coordinate for dimming data 0 (Lamp mode:Auto / Lamp mode:Eco2)	38 - 128	38 / 38	
61	DIMMER CTRL LEVEL 1	LEVEL coordinate for dimming data 1 (Lamp mode:Auto / Lamp mode:Eco2)	38 - 128	70 / 38	
62	DIMMER CTRL LEVEL 2	LEVEL coordinate for dimming data 2 (Lamp mode:Auto / Lamp mode:Eco2)	38 - 128	85 / 44	
63	DIMMER CTRL LEVEL 3	LEVEL coordinate for dimming data 3 (Lamp mode:Auto / Lamp mode:Eco2)	38 - 128	98 / 71	
64	DIMMER CTRL LEVEL 4	LEVEL coordinate for dimming data 4 (Lamp mode:Auto / Lamp mode:Eco2)	38 - 128	104 / 82	
65	DIMMER CTRL LEVEL 5	LEVEL coordinate for dimming data 5 (Lamp mode:Auto / Lamp mode:Eco2)	38 - 128	118 / 98	
66	DIMMER CTRL LEVEL 6	LEVEL coordinate for dimming data 6 (Lamp mode: Auto / Lamp mode:Eco2)	38 - 128	128 / 102	
Group 211	**Lamp Iris**				
0	Mode	Iris Mode Setting 0: Setting by Menu according to APL 1: Manually setting (Menu setting disable) 2:Setting to OFF 3: Life Mode Test	0 - 3	0	
1	Error Detect Enable	Iris Error Detect Enable 0: Disable 1:Enable	0 - 1	1	
2	Open Position Offset	Open Position Offset adjust	-511 - 511	-12	
3	Speed adjust	Speed adjust	1 - 1023	4/1(AV/PC)	
4	Muaul Position Adjust	Manual Postion adjust for Iris OFF (Available when S211-0 is set to 0)	0 - 1023	0	
5	APL Threshold Min	APL Threshold Parameter (Min)	0 - 255	0/4(AV/PC)	
6	APL Threshold Max	APL Threshold Parameter (Max)	0 - 255	64/9(AV/PC)	
10	Close Limit Dimmer 0	Close Limit, Dimmer Level 0	0 - 1023	460/728(AV/PC)	
11	Close Limit Dimmer 1	Close Limit, Dimmer Level 1	0 - 1023	460/728(AV/PC)	
12	Close Limit Dimmer 2	Close Limit, Dimmer Level 2	0 - 1023	460/728(AV/PC)	
13	Close Limit Dimmer 3	Close Limit, Dimmer Level 3	0 - 1023	460/728(AV/PC)	
14	Close Limit Dimmer 4	Close Limit, Dimmer Level 4	0 - 1023	460/728(AV/PC)	
15	Close Limit Dimmer 5	Close Limit, Dimmer Level 5	0 - 1023	460/728(AV/PC)	
16	Close Limit Dimmer 6	Close Limit, Dimmer Level 6	0 - 1023	460/728(AV/PC)	
17	Close Limit Dimmer 7	Close Limit, Dimmer Level 7	0 - 1023	460/728(AV/PC)	
18	Close Limit Dimmer 8	Close Limit, Dimmer Level 8	0 - 1023	460/728(AV/PC)	
19	Close Limit Dimmer 9	Close Limit, Dimmer Level 9	0 - 1023	460/728(AV/PC)	
20	Close Limit Dimmer 10	Close Limit, Dimmer Level 10	0 - 1023	460/728(AV/PC)	
21	Close Limit Dimmer 11	Close Limit, Dimmer Level 11	0 - 1023	460/728(AV/PC)	
22	Close Limit Dimmer 12	Close Limit, Dimmer Level 12	0 - 1023	460/728(AV/PC)	
23	Close Limit Dimmer 13	Close Limit, Dimmer Level 13	0 - 1023	460/728(AV/PC)	
24	Close Limit Dimmer 14	Close Limit, Dimmer Level 14	0 - 1023	460/728(AV/PC)	
25	Close Limit Dimmer 15	Close Limit, Dimmer Level 15	0 - 1023	460/728(AV/PC)	
26	Open Limit	Open Limit, Dimmer Level 0-15	0 - 1023	0/0(AV/PC)	
30	Update Interval	Tim of update interval (Unit: ms)	0 - 1023	8/18(AV/PC)	
40	Multi Window Mode Enable	Iris OFF while 2 pictures 0: OFF, 1: setting according to Image Mode	0 - 1	1	
Group 213	**Image Care (For PT-EX600)**				
0	panel compensation	send gamma data 0:send data A 1: send data B 2:stop sending	0 - 2	0	
1	CCG Value	Color Correction Gain	-		
2	Color Tau Up	Color Tau Up adjust	1 - 8	7/7	
3	Color Tau Down	Color Tau Down adjust	1 - 32	14/14	
4	Dimmer Step	dimming steps	1 - 4	4/1	
10	panel compensation_R	CCG: Gain R 38 Table A / Table B	1 - 1023	488/512	
11	panel compensation_R	CCG: Gain R 53 Table A / Table B	1 - 1023	512/512	
12	panel compensation_R	CCG: Gain R 68 Table A / Table B	1 - 1023	512/512	
13	panel compensation_R	CCG: Gain R 83 Table A / Table B	1 - 1023	512/512	
14	panel compensation_R	CCG: Gain R 98 Table A / Table B	1 - 1023	512/512	
15	panel compensation_R	CCG: Gain R 113 Table A / Table B	1 - 1023	512/512	
16	panel compensation_R	CCG: Gain R 128 Table A / Table B	1 - 1023	512/512	
30	panel compensation_G	CCG: Gain G 38 Table A / Table B	1 - 1023	420/512	
31	panel compensation_G	CCG: Gain G 53 Table A / Table B	1 - 1023	466/512	
32	panel compensation_G	CCG: Gain G 68 Table A / Table B	1 - 1023	492/512	
33	panel compensation_G	CCG: Gain G 83 Table A / Table B	1 - 1023	506/512	
34	panel compensation_G	CCG: Gain G 98 Table A / Table B	1 - 1023	510/512	

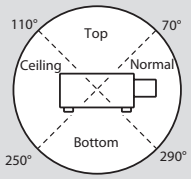
Group/ Item	Item Name	Function	Range	Initial	Note
35	panel compensation_G	CCG: Gain G 113 Table A / Table B	1 - 1023	512/512	
36	panel compensation_G	CCG: Gain G 128 Table A / Table B	1 - 1023	512/512	
50	panel compensation_B	CCG: Gain B 38 Table A / Table B	1 - 1023	512/512	
51	panel compensation_B	CCG: Gain B 53 Table A / Table B	1 - 1023	512/512	
52	panel compensation_B	CCG: Gain B 68 Table A / Table B	1 - 1023	512/512	
53	panel compensation_B	CCG: Gain B 83 Table A / Table B	1 - 1023	512/512	
54	panel compensation_B	CCG: Gain B 98 Table A / Table B	1 - 1023	512/512	
55	panel compensation_B	CCG: Gain B 113 Table A / Table B	1 - 1023	512/512	
56	panel compensation_B	CCG: Gain B 128 Table A / Table B	1 - 1023	512/512	
Group 213	**Image Care (For PT-EW630)**				
0	panel compensation	send gamma data 0:send data A 1: send data B 2:stop sending	0 - 2	0	
1	CCG Value	Color Correction Gain	-		
2	Color Tau Up	Color Tau Up adjust	1 - 8	7/7	
3	Color Tau Down	Color Tau Down adjust	1 - 32	14/14	
4	Dimmer Step	dimming steps	1 - 4	4/1	
10	panel compensation_R	CCG: Gain R 38 Table A / Table B	1 - 1023	482/512	
11	panel compensation_R	CCG: Gain R 53 Table A / Table B	1 - 1023	512/512	
12	panel compensation_R	CCG: Gain R 68 Table A / Table B	1 - 1023	512/512	
13	panel compensation_R	CCG: Gain R 83 Table A / Table B	1 - 1023	512/512	
14	panel compensation_R	CCG: Gain R 98 Table A / Table B	1 - 1023	512/512	
15	panel compensation_R	CCG: Gain R 113 Table A / Table B	1 - 1023	512/512	
16	panel compensation_R	CCG: Gain R 128 Table A / Table B	1 - 1023	512/512	
30	panel compensation_G	CCG: Gain G 38 Table A / Table B	1 - 1023	416/512	
31	panel compensation_G	CCG: Gain G 53 Table A / Table B	1 - 1023	474/512	
32	panel compensation_G	CCG: Gain G 68 Table A / Table B	1 - 1023	498/512	
33	panel compensation_G	CCG: Gain G 83 Table A / Table B	1 - 1023	504/512	
34	panel compensation_G	CCG: Gain G 98 Table A / Table B	1 - 1023	507/512	
35	panel compensation_G	CCG: Gain G 113 Table A / Table B	1 - 1023	511/512	
36	panel compensation_G	CCG: Gain G 128 Table A / Table B	1 - 1023	512/512	
50	panel compensation_B	CCG: Gain B 38 Table A / Table B	1 - 1023	512/512	
51	panel compensation_B	CCG: Gain B 53 Table A / Table B	1 - 1023	512/512	
52	panel compensation_B	CCG: Gain B 68 Table A / Table B	1 - 1023	512/512	
53	panel compensation_B	CCG: Gain B 83 Table A / Table B	1 - 1023	512/512	
54	panel compensation_B	CCG: Gain B 98 Table A / Table B	1 - 1023	512/512	
55	panel compensation_B	CCG: Gain B 113 Table A / Table B	1 - 1023	512/512	
56	panel compensation_B	CCG: Gain B 128 Table A / Table B	1 - 1023	512/512	
Group 220	**Projector Error Log**				
0	Warning_Log_1	Latest Error log	0 - 32767	0	
:	:	:	:	:	
49	Warning_Log_50	50th Error log	0 - 32767	0	
50	Warning_Log Reset	Log is cleared when the value is set to 10.	0 - 10	0	
Group 235	**Shutter**				
0	PRE_MOTION	Shutter Warm - up Operation (0: Yes, 1: No)	0 - 1	Initial: 1 / Shipping: 0	
1	CMP_TRM	Chattering Detecting Term	0 - 32767	7000	
2	OUT_DLY_TRM	Output Term	0 - 32767	15000	
3	CMP_CHK_CNT	Count of Information Sync	0 - 15	0	
4	OPEN_DLY	Open Output Delay	0 - 63	0	
5	CLOSE_DLY	Close Output Delay	0 - 63	0	
6	Position Check Time	Position Check Time	1 - 255	50	
8	Enable Close Cmd	Shutter Close Command 0: Disable, 1: Enable	0 - 1	1	
9	Speed Control	Shutter Speed	0 - 255	0	
10	Shutter Management Upper Time		180- 999	480	

Group/ Item	Item Name	Function	Range	Initial	Note
Group 240	**Flow Calibration**				
0	Flow Calibration Exe	Flow Sensor Offset Calibration Start calibration when the value is set to 1.	0 - 1	0	* Wind sensor calibration.
1	Flow Calibration Error Log	Log of Calibration Error (Read only) 255: Not Calibration 0: No Error 10: 1st Calibration Not Stable Airflow 11: 1st Calibration Out of Range 20: 2nd Not Stable Airflow 21: 2nd Out of Range 100: 10th Calibration Not Stable Airflow 101: 10th Calibration Out of Range	-	255	
2	Clog Check Enable	Filter Clogged Detection by Flow Sensor (0: Disable, 1: Enable)	0 - 1	Initial: 0 / Shipping: 1	
3	Air Inlet Check Enable	Air inlet Error Detection by Wind Sensor (0: Disable, 1: Enable)	0 - 1	Initial: 0 / Shipping: 1	
5	Clog Auto Cooling Enable	Auto Cooling at Clog (0: Disable, 1: Enable)	0 - 1	1	
8	Filter Counter Remaining Enable	Filter Counter Remaining (0: Disable, 1: Enable)	0 - 1	1	
13	Filter Standard Limit	Filter Normal Time (×100)	0 - 255	120	
14	Filter Max Limit	Filter Limit Time (×100)	0 - 255	150	
Group 241	**Flow Ideal Data**	**(Value will be set after calibration)**			
0	Flow Ideal Data 1	Flow Sensor Theory Value No.1 Corresponding to Fan Volt No.1	0 - 1023	206	
1	Flow Ideal Data 2	Flow Sensor Theory Value No.2 Corresponding to Fan Volt No.2	0 - 1023	215	
2	Flow Ideal Data 3	Flow Sensor Theory Value No.3 Corresponding to Fan Volt No.3	0 - 1023	228	
3	Flow Ideal Data 4	Flow Sensor Theory Value No.4 Corresponding to Fan Volt No.4	0 - 1023	251	
4	Flow Ideal Data 5	Flow Sensor Theory Value No.5 Corresponding to Fan Volt No.5	0 - 1023	263	
5	Flow Ideal Data 6	Flow Sensor Theory Value No.6 Corresponding to Fan Volt No.6	0 - 1023	276	
6	Flow Ideal Data 7	Flow Sensor Theory Value No.7 Corresponding to Fan Volt No.7	0 - 1023	288	
7	Flow Ideal Data 8	Flow Sensor Theory Value No.8 Corresponding to Fan Volt No.8	0 - 1023	297	
Group 242	**Flow Calib. Fan Volt**	**(Not Memorized)**			
0	Flow Calib Fan Volt 1	Flow Sensor Calibration Fan Voltage No.1 [Duty]	0 - 255	42	
1	Flow Calib Fan Volt 2	Flow Sensor Calibration Fan Voltage No.2[Duty]	0 - 255	50	
2	Flow Calib Fan Volt 3	Flow Sensor Calibration Fan Voltage No.3[Duty]	0 - 255	60	
3	Flow Calib Fan Volt 4	Flow Sensor Calibration Fan Voltage No.4[Duty]	0 - 255	75	
4	Flow Calib Fan Volt 5	Flow Sensor Calibration Fan Voltage No.5[Duty]	0 - 255	90	
5	Flow Calib Fan Volt 6	Flow Sensor Calibration Fan Voltage No.6[Duty]	0 - 255	105	
6	Flow Calib Fan Volt 7	Flow Sensor Calibration Fan Voltage No.7 [Duty]	0 - 255	120	
7	Flow Calib Fan Volt 8	Flow Sensor Calibration Fan Voltage No.8[Duty]	0 - 255	138	
Group 243	**Flow Calib Effective Difference**	**(Not Memorized)**			
0	Flow Calib Effective Diff 1	Flow Sensor Calibration Range Diff No.1 [ADC]	0 - 1023	300	
1	Flow Calib Effective Diff 2	Flow Sensor Calibration Range Diff No.2 [ADC]	0 - 1023	300	
2	Flow Calib Effective Diff 3	Flow Sensor Calibration Range Diff No.3 [ADC]	0 - 1023	300	
3	Flow Calib Effective Diff 4	Flow Sensor Calibration Range Diff No.4 [ADC]	0 - 1023	300	
4	Flow Calib Effective Diff 5	Flow Sensor Calibration Range Diff No.5 [ADC]	0 - 1023	300	
5	Flow Calib Effective Diff 6	Flow Sensor Calibration Range Diff No.6 [ADC]	0 - 1023	300	

Group/ Item	Item Name	Function	Range	Initial	Note
6	Flow Calib Effective Diff 7	Flow Sensor Calibration Range Diff No.7 [ADC]	0 - 1023	300	
7	Flow Calib Effective Diff 8	Flow Sensor Calibration Range Diff No.8 [ADC]	0 - 1023	300	
Group 244	**Flow Clog Threshold**	**(Not Memorized)**			
0	Flow Clog Threshold 1	Flow Sensor Clogged Threshold No.1[ADC]	0 - 1023	111	
1	Flow Clog Threshold 2	Flow Sensor Clogged Threshold No.2[ADC]	0 - 1023	135	
2	Flow Clog Threshold 3	Flow Sensor Clogged Threshold No.3[ADC]	0 - 1023	159	
3	Flow Clog Threshold 4	Flow Sensor Clogged Threshold No.4[ADC]	0 - 1023	183	
4	Flow Clog Threshold 5	Flow Sensor Clogged Threshold No.5[ADC]	0 - 1023	211	
5	Flow Clog Threshold 6	Flow Sensor Clogged Threshold No.6[ADC]	0 - 1023	235	
6	Flow Clog Threshold 7	Flow Sensor Clogged Threshold No.7[ADC]	0 - 1023	251	
7	Flow Clog Threshold 8	Flow Sensor Clogged Threshold No.8[ADC]	0 - 1023	274	
10	Flow Inlet Err Threshold1	Flow Sensor Inlet Err Threshold No.1[ADC]	0 - 1023	159	
11	Flow Inlet Err Threshold2	Flow Sensor Inlet Err Threshold No.2[ADC]	0 - 1023	201	
12	Flow Inlet Err Threshold3	Flow Sensor Inlet Err Threshold No.3[ADC]	0 - 1023	251	
13	Flow Inlet Err Threshold4	Flow Sensor Inlet Err Threshold No.4[ADC]	0 - 1023	303	
14	Flow Inlet Err Threshold5	Flow Sensor Inlet Err Threshold No.5[ADC]	0 - 1023	363	
15	Flow Inlet Err Threshold6	Flow Sensor Inlet Err Threshold No.6[ADC]	0 - 1023	412	
16	Flow Inlet Err Threshold7	Flow Sensor Inlet Err Threshold No.7[ADC]	0 - 1023	447	
17	Flow Inlet Err Threshold8	Flow Sensor Inlet Err Threshold No.8[ADC]	0 - 1023	466	
Group 246	**Flow Clog Monitor**	**(Read only)**			
0	Real Flow Data	Real Flow Data [ADC] (Read only)	0 - 1023	-	
1	Ideal Flow Data	Theory Flow Data (Read only)	0 - 1023	-	
2	Flow Difference Data	Flow Difference Data [ADC] (Read only)	-1023 - 1023	-	
3	Clog Detect Flow Difference Data	Difference Data to judge the Filter Clogged [ADC] (Read only)	0 - 1023	-	
4	Warn Detect Flow Difference Data	Difference Data to judge the Filter Clogged Warning [ADC] (Read only)	0 - 1023	-	
5	Press Add Data	Add Data by Air Pressure (Read only)	0 - 1023	-	
6	Filter Scroll Timer	Timer for Filter Scroll [hour] (Read only)	0 - 32767	-	
7	Air Inlet Err Difference Data	Difference Data to judge the Inlet Error [ADC] (Read only)	0 - 1023	-	
Group 250	**Fan Voltage Adjustment**				*** Fan voltage adj.**
0	Fan 1 Min Adjust (DAC)	DAC Output for Fan Voltage adj. Adjust Tolerance between DAC and Fan Volt. *Lamp Mode: Eco	0-255	84	
1	Fan 1 Max Adjust (DAC)		0-255	237	
2	Fan 2 Min Adjust (DAC)		0-255	83	
3	Fan 2 Max Adjust (DAC)		0-255	240	
4	Fan 3 Min Adjust (DAC)		0-255	40	
5	Fan 3 Max Adjust (DAC)		0-255	244	
6	Fan 4 Min Adjust (DAC)		0-255	40	
7	Fan 4 Max Adjust (DAC)		0-255	230	
8	Fan 5 Min Adjust (DAC)		0-255	41	
9	Fan 5 Max Adjust (DAC)		0-255	232	
10	Fan 6 Min Adjust (DAC)		0-255	43	
11	Fan 6 Max Adjust (DAC)		0-255	233	
12	Fan 7 Min Adjust (DAC)		0-255	39	
13	Fan 7 Max Adjust (DAC)		0-255	229	
Group 252	**Fan Option**				
0	Fan Max Switch	0: Normal operation 1: Fixed Max (13.5V)	0-1	0	
1	Safety Switch	Safety Application use	0-6	0	
2	Fan Manual Switch	Fan Manual SW (0: Auto 1: Manual)	0-1	0	
3	Fan1 Manual Voltage	Manual Adjustment Mode (0.1V) *Effective only when Manual SW is 1.	0-145	100	
4	Fan2 Manual Voltage		0-145	100	
5	Fan3 Manual Voltage		0-145	100	
6	Fan4 Manual Voltage		0-145	100	
7	Fan5 Manual Voltage		0-145	100	
8	Fan6 Manual Voltage		0-145	100	
9	Fan7 Manual Voltage		0-145	100	
10	Angle Data A	Angle Data A (Read only)	-	-	
11	Angle Data B	Angle Data B (Read only)	-	-	
12	Press Data	Air Pressure Data (Read only)	-	-	

Group/ Item	Item Name	Function	Range	Initial	Note
13	Slant Switch	Slant Setting(0:Normal1:L1(Front)2:L2(Ceiling) 3:L3(Top)4:L4(Bottom)	0-4	0	

Group 253	Fan Temp Error Setting	(Memorized)		Normal	Ceiling	Top	Bot-tom
5	Temp A Warning (Normal)	Temp A (Room) to judge the Temp Error at Normal	30-100	45	44	46	45
6	Temp B Warning (Normal)	Temp B (Lamp) to judge the Temp Error at Normal	30-100	69	69	71	69
7	Temp C Warning (Normal)	Temp C (Panel) to judge the Temp Error at Normal	30-100	66	66	68	66
8	Temp B-A Warning (Normal)	Temp B - A (Filter Clogged) to judge the Temp Error at Normal	0-100	100	100	100	100
9	Temp C-A Warning (Normal)	Temp C - A (Filter Clogged) to judge the Temp Error at Normal	0-100	100	100	100	100
10	Temp A Warning (Eco)	Temp A (Room) to judge the Temp Error at Eco	30-100	45	44	45	45
11	Temp B Warning (Eco)	Temp B (Lamp) to judge the Temp Error at Eco	30-100	75	75	75	75
12	Temp C Warning (Eco)	Temp C (Panel) to judge the Temp Error at Eco	30-100	64	64	65	64
13	Temp B-A Warning (Eco)	Temp B - A (Filter Clogged) to judge the Temp Error at Eco	0-100	100	100	100	100
14	Temp C-A Warning (Eco)	Temp C - A (Filter Clogged) to judge the Temp Error at Eco	0-100	100	100	100	100
15	Temp A Warning Offset (Temp)	Temp Warning Offset (Temp)	0-100	10			
16	Temp B Warning Offset (Temp)		0-100	11			
17	Temp C Warning Offset (Temp)		0-100	13			
18	Temp B-A Warning Offset (Temp)		0-100	11			
19	Temp C-A Warning Offset (Temp)		0-100	13			
20	Temp A Warning Offset (Time)	Time Warning Offset (Time)	0-40	30			
21	Temp B Warning Offset (Time)		0-40	25			
22	Temp C Warning Offset (Time)		0-40	30			
23	Temp B-A Warning Offset (Time)		0-40	15			
24	Temp C-A Warning Offset (Time)		0-40	15			



Group 254	Fan Control Range Setting (Temp/Spinning)			Normal	Ceiling	Top	Bot-tom
16	Normal Fan Control Min Temp	Temp Sensor Control Start/End Temp at Normal	20-100	25	26	25	26
17	Normal Fan Control Max Temp		20-100	37	37	36	36
18	Normal Fan1 Min	Fan Spinning Set at Normal (Min/Max) (0.1V)	0000-9990	70	70	70	70
19	Normal Fan1 Max		0000-9990	138	138	138	138
20	Normal Fan2 Min		0000-9990	60	60	60	60
21	Normal Fan2 Max		0000-9990	138	138	138	138
22	Normal Fan3 Min		0000-9990	55	75	100	55
23	Normal Fan3 Max		0000-9990	55	80	105	55
24	Normal Fan4 Min		0000-9990	60	60	60	60
25	Normal Fan4 Max		0000-9990	138	138	138	138
26	Normal Fan5 Min		0000-9990	70	70	70	70
27	Normal Fan5 Max		0000-9990	100	100	100	100
28	Normal Fan6 Min		0000-9990	75	55	55	100
29	Normal Fan6 Max		0000-9990	80	55	55	105
30	Normal Fan7 Min		0000-9990	56	56	65	56
31	Normal Fan7 Max		0000-9990	98	98	98	98
32	Eco Fan Control Min Temp	Temp Sensor Control Start/End Temp at Eco	20-100	25	26	26	26
33	Eco Fan Control Max Temp		20-100	37	37	35	35

Group/ Item	Item Name	Function	Range	Initial				Note
34	Eco Fan1 Min	Fan Spinning Set at Eco (Min/Max) (0.1V)	0000-9990	48	48	48	48	
35	Eco Fan1 Max		0000-9990	120	120	120	120	
36	Eco Fan2 Min		0000-9990	42	42	42	42	
37	Eco Fan2 Max		0000-9990	120	120	120	120	
38	Eco Fan3 Min		0000-9990	45	55	75	45	
39	Eco Fan3 Max		0000-9990	45	60	80	45	
40	Eco Fan4 Min		0000-9990	45	45	45	45	
41	Eco Fan4 Max		0000-9990	120	120	120	120	
42	Eco Fan5 Min		0000-9990	55	55	55	55	
43	Eco Fan5 Max		0000-9990	80	80	80	80	
44	Eco Fan6 Min		0000-9990	55	45	45	75	
45	Eco Fan6 Max		0000-9990	60	45	45	80	
46	Eco Fan7 Min		0000-9990	50	55	55	50	
47	Eco Fan7 Max	Fan Spinning Set at Eco (Min/Max) (0.1V)	0000-9990	98	98	98	98	
48	Mid1 Fan3 Min		0000-9990	53	70	94	53	
49	Mid1 Fan3 Max		0000-9990	53	75	94	53	
50	Mid1 Fan6 Min	Dimming Normal Eco fan voltage Set at (Min/ Max) (0.1V)	0000-9990	70	53	53	94	
51	Mid1 Fan6 Max		0000-9990	75	53	53	99	
52	Mid2 Fan3 Min		0000-9990	50	65	88	50	
53	Mid2 Fan3 Max		0000-9990	50	70	93	50	
54	Mid2 Fan6 Min		0000-9990	65	50	50	88	
55	Mid2 Fan6 Max		0000-9990	70	50	50	93	
56	Mid3 Fan3 Min	Dimming Normal Eco fan voltage Set at (Min/ Max) (0.1V)	0000-9990	48	60	81	48	
57	Mid3 Fan3 Max		0000-9990	48	65	86	48	
58	Mid3 Fan6 Min		0000-9990	60	48	48	81	
59	Mid3 Fan6 Max		0000-9990	65	48	48	86	
Group 255	**Fan Start/Cooling Setting**							
0	Fan1 Initial Volt	Fan Start Voltage (0.1V)	0-145	75				
1	Fan2 Initial Volt		0-145	75				
2	Fan3 Initial Volt		0-145	75				
3	Fan4 Initial Volt		0-145	75				
4	Fan5 Initial Volt		0-145	65				
5	Fan6 Initial Volt		0-145	75				
6	Fan7 Initial Volt		0-145	55				
8	Cooling Time	Coolong Time Setting (x30 sec.) 1: 30 3: 90 15: 450	1-15	3				
10	Temp Error Cooling Time	Cooling Time Setting When the Temp Error occurs (x30 sec.) 1: 30 3: 90 15: 450	1-15	3				
11	OnStart Cooling Start Threshold		0-100	38				
12	After shutdown cooling	Cooling Operation after Shut Down (0: No, 1: Yes)	0-1	1				
Group 256	**Fan Lamp Voltage Down Setting**							
0	Lamp Voltage	Current Lamp Voltage (1V) (Read only)	0-255	---				
1	Lamp Vol Threshold	Threshold Voltage (1V)	30-90	30				
2	Fan1 Speed Gain	Fan Speed Ad Gain (0.1V)	0-1500	0				
3	Fan2 Speed Gain		0-1500	10				
4	Fan3 Speed Gain		0-1500	10				
5	Fan4 Speed Gain		0-1500	10				
Group 257	**Fan Setting at Dimmer**							
0	Fan3•6 Dimmer Average Check Period	Dimmer Average Check Period (sec.) (0:0,1:1,2:2,3:3,4:4,5:5,6:10,7:30,8:60,9:120)	0-9	1				
4	Fan1•2•4•5•7 Dimmer Average Check Period	Dimmer Average Check Period (sec.) (0:0,1:1,2:2,3:3,4:4,5:5,6:10,7:30,8:60,9:120)	0-9	7				
5	Mid1 Dimmer Ctrl Level	Dimming level of Mid1 set the fan voltage	0-128	122				
6	Mid2 Dimmer Ctrl Level	Dimming level of Mid2 set the fan voltage	0-128	116				
7	Mid3 Dimmer Ctrl Level	Dimming level of Mid3 set the fan voltage	0-128	109				
Group 258	**Fan IRIS Setting**							
0	Fan Vol. Offset Iris Threshold	Fan voltage rise IRIS position (unit: step)	0 - 1023	553				
1	Fan Vol. Offset Speed		0 - 30	4				

Group/ Item	Item Name	Function	Range	Initial	Note
2	Normal Fan3 Offset	Fan Vol Offset when Lamp Mode at Normal (Unit: x0.1V)	0 - 255	0	
3	Normal Fan6 Offset		0 - 255	0	
4	Normal Fan7 Offset		0 - 255	5	
5	Eco Fan3 Offset	Fan Vol Offset when Lamp Mode at Eco (Unit: x0.1V)	0 - 255	0	
6	Eco Fan6 Offset		0 - 255	0	
7	Eco Fan7 Offset		0 - 255	5	
Group 259	**Fan Air Pressure Setting**				
23	Highland1 Normal Fan Ctrl Min Temp	Highland1 Normal starting control Temperature	0-100	21	
24	Highland1 Normal Fan Ctrl Max Temp	Highland1 Normal ending control Temperature	0-100	31	
25	Highland1 Normal Add Range (Lamp In)	Highland1 Normal add value of fan voltage (lamp inlet fan)	0-100	10	
26	Highland1 Normal Add Range (No Lamp In)	Highland1 Normal add value of fan voltage (except the above fan)	0-100	20	
27	Highland1 Normal Temp A Warning	Highland1 Normal abnormal temperature determining A (room temperature)	0-100	36	
28	Highland1 Normal Temp B Warning	Highland1 Normal abnormal temperature determining B (lamp)	0-100	65	
29	Highland1 Normal Temp C Warning	Highland1 Normal abnormal temperature determining C (panel)	0-100	61	
30	Highland1 Eco Fan Ctrl Min Temp	Highland1 Eco starting control Temperature	0-100	21	
31	Highland1 Eco Fan Ctrl Max Temp	Highland1 Eco ending control Temperature	0-100	31	
32	Highland1 Eco Add Range(Lamp In)	Highland1 Eco add value of fan voltage (lamp inlet fan)	0-100	5	
33	Highland1 Eco Add Range(No Lamp In)	Highland1 Eco add value of fan voltage (except the above fan)	0-100	20	
34	Highland1 Eco Temp A Warning	Highland1 Eco abnormal temperature determining A (room temperature)	0-100	36	
35	Highland1 Eco Temp B Warning	Highland1 Eco abnormal temperature determining B (lamp)	0-100	70	
36	Highland1 Eco Temp C Warning	Highland1 Eco abnormal temperature determining C (panel)	0-100	66	
37	Highland2 Normal Fan Ctrl Min Temp	Highland2 Normal starting control Temperature	0-100	21	
38	Highland2 Normal Fan Ctrl Max Temp	Highland2 Normal ending control Temperature	0 - 100	31	
39	Highland2 Normal Add Range (Lamp In)	Highland2 Normal add value of fan voltage (lamp inlet fan)	0-100	20	
40	Highland2 Normal AddRange (No Lamp In)	Highland2 Normal add value of fan voltage (except the above fan)	0-100	40	
41	Highland2 Normal Temp A Warning	Highland2 Normal abnormal temperature determining A (room temperature)	0-100	37	
42	Highland2 Normal Temp B Warning	Highland2 Normal abnormal temperature determining B (lamp)	0-100	68	
43	Highland2 Normal Temp C Warning	Highland2 Normal abnormal temperature determining C (panel)	0-100	64	
44	Highland2 Eco Fan Ctrl Min Temp	Highland2 Normal starting control Temperature	0-100	21	
45	Highland2 Eco Fan Ctrl Max Temp	Highland2 Normal ending control Temperature	0 - 100	31	
46	Highland2 Eco Add Range (Lamp In)	Highland2 Normal add value of fan voltage (lamp inlet fan)	0-100	15	
47	Highland2 Eco AddRange (No Lamp In)	Highland2 Normal add value of fan voltage (except the above fan)	0-100	40	
48	Highland2 Eco Temp A Warning	Highland2 Normal abnormal temperature determining A (room temperature)	0-100	37	
49	Highland2 Eco Temp B Warning	Highland2 Normal abnormal temperature determining B (lamp)	0-100	71	
50	Highland2 Eco Temp C Warning	Highland2 Normal abnormal temperature determining C (panel)	0-100	67	
Group 260	**Auto Calibration (Common)**				
0	Execute Calibration	Execute Calibration when the Value is changed. (For PC White 100%)	0 - 1	0	
1	Loop Count	Max Times of Calibration	1 - 30	8	
2	Auto Status	Calibration Log (Read only) 0: Calibration End Correctly 1: On Adjusting 9: Calibration Error	0 / 1 / 9	0	
3	Auto Wait	Waiting time	1 - 20	3	
4	CHECK - Tolerance	Tolerance of Offset	1 - 255	4	
5	Time out wait	Wait Time until Time out [sec.]	1 - 255	20	
Group 261	**Auto Calibration (RGB)**	**PW392-AFE MDL <10bits>**			
0	OFFSET AREA H START	Black Level Acq. Area H Start	0 - 1000	975	
1	OFFSET AREA V START	Black Level Acq. Area V Start	0 - 1000	500	

Group/ Item	Item Name	Function	Range	Initial	Note
2	GAIN AREA H START	White Level Acq. Area H Start	0 - 1000	25	
3	GAIN AREA V START	White Level Acq. Area V Start	0 - 1000	500	
4	Image AREA H WIDTH	Black/White Level Area Width	0 - 4095	13	
5	Image AREA V HEIGHT	Black/White Level Area Height	0 - 4095	9	
6	OFFSET Target	Black Level Adj target	0 - 1023	20	
7	OFFSET Tolerance	Black Level Adj telerance	1 - 1023	1	
8	GAIN Target	White Level Adj target	0 - 1023	955	
9	GAIN Tolerance	White Level Adj telerance	1 - 1023	1	
10	Image Level Tolerance	Acq. Image Level Adj Tolerance	1 - 255	2	
Group 262	**Auto Calibration (CVBS/ SVIDEO)**	**PW392-AFE MDL <10bits>**			
0	Y Image Area Start X	Y Image Area H Start	0 - 1000	20	
1	Y Image Area Start Y	Y Image Area V Start	0 - 1000	200	
6	Image Area H WIDTH	Image Level Acq. Width	0 - 4095	8	
7	Image Area V HEIGHT	Image Level Acq. Height	0 - 4095	9	
8	Y Target Level	Y Level Adj target	0 - 1023	875	
11	Gain Tolerance	Level Adj Tolerance	1 - 255	1	
12	Image Level Tolerance	Acq. Image Level Adj Tolerance	1 - 255	2	
Group 264	**Auto Calibration (YCbCr)**	**PW392-AFE MDL <10bits>**			
0	Y-OFFSET AREA H START	Y - Offset Acq Area H Start	0 - 1000	925	
1	Y-OFFSET AREA V START	Y - Offset Acq Area V Start	0 - 1000	500	
2	CB - OFFSET AREA H START	CB - Offset Acq. Area H Start	0 - 1000	925	
3	CB - OFFSET AREA V START	CB - Offset Acq. Area V Start	0 - 1000	500	
4	CR - OFFSET AREA H START	CR - Offset Acq. Area H Start	0 - 1000	925	
5	CR - OFFSET AREA V START	CR - Offset Acq. Area V Start	0 - 1000	500	
6	Y - GAIN AREA H START		0 - 1000	50	
7	Y - GAIN AREA V START		0 - 1000	500	
8	CB - GAIN AREA H START		0 - 1000	800	
9	CB - GAIN AREA V START		0 - 1000	500	
10	CR - GAIN AREA H START		0 - 1000	700	
11	CR - GAIN AREA V START		0 - 1000	500	
12	Image AREA H WIDTH	YCBCR Level Acq. Width	0 - 4095	13	
13	Image AREA V HEIGHT	YCBCR Level Acq. Height	0 - 4095	9	
14	Y - OFFSET TARGET		0 - 1023	4	
15	CB OFFSET TARGET		0 - 1023	512	
16	CR OFFSET TARGET		0 - 1023	512	
17	Y - GAIN TARGET		0 - 1023	810	
18	CB - GAIN TARGET		0 - 1023	894	
19	CR - GAIN TARGET		0 - 1023	894	
20	OFFSET Tolerance	OFFSET Adj Tolerance	1 - 255	1	
21	GAIN Tolerance	GAIN Adj Tolerance	1 - 255	1	
22	Image Level Tolerance	Acq. Image Level Adj Tolerance	1 - 255	2	
Group 275	**DLV Illuminance sensor**				
0	Illuminance measure value (ADC)	Illuminance value [ADC] (display only)	0 - 1023	-	
1	Illuminance value (Lx)	Illuminance value [Lx] (display only)	0 - 1023	-	
2	DLV-Level	DLV-Level value (display only)	0 - 3	-	
3	Value L1 (bed position)	Level1->0 switch reference value (illuminance value [ADC]))	0 - 1023	115	
4	Value L2 (bed position)	Level0->1 switch reference value (illuminance value [ADC]))	0 - 1023	214	
5	Value L3 (bed position)	Level2->1 switch reference value (illuminance value [ADC]))	0 - 1023	276	
6	Value L4 (bed position)	Level1->2 switch reference value (illuminance value [ADC]))	0 - 1023	372	
7	Value L5 (bed position)	Level3->2 switch reference value (illuminance value [ADC])	0 - 1023	512	
8	Value L6 (bed position)	Level2->3 switch reference value (illuminance value [ADC]))	0 - 1023	601	
9	Value L1 (ceiling)	Level1->0 switch reference value (illuminance value [ADC]))	0 - 1023	26	
10	Value L2 (ceiling)	Level0->1 switch reference value (illuminance value [ADC]))	0 - 1023	37	
11	Value L3 (ceiling)	Level2->1 switch reference value (illuminance value [ADC]))	0 - 1023	51	
12	Value L4 (ceiling)	Level1->2 switch reference value (illuminance value [ADC]))	0 - 1023	71	
13	Value L5 (ceiling)	Level3->2 switch reference value (illuminance value [ADC]))	0 - 1023	116	
14	Value L6 (ceiling)	Level2->3 switch reference value (illuminance value [ADC]))	0 - 1023	155	

Group/ Item	Item Name	Function	Range	Initial	Note
15	DLV ON Level	DLV ON, DLV Level	0-3	3	
Group 276	**DLV image quality correct**				
0	Axis 6 color emphasis (FPGA)	DLV Auto/On Axis 6 color emphasis 1: Yes 0: No	0-1	1	
1	Sub Gamma correct (FPGA)	DLV Auto/On Gamma 1: Yes 0: No	0-1	1	
2	Sharpness correct (PW)	DLV Auto/On Sharpness 1: Yes 0: No	0-1	1	
Group 280	**AutoPC Adjsut**				
0	AutoPCAdjustEnable	Auto PC Operation with the un-supported signal in. 0: Enable 1: Disable	0 - 1	0	
1	Frequency Step	TotalDot Search Step	0 - 3	1	
2	Frequency Threshold	TotalDot Match	0 - 10	5	
3	Fine Phase	Phase after Total Dot Adj. 0: Fine Phase Execute 1: Fine Phase Not Execute	0 - 1	1	
4	BLKDET	Black Level Detect Area	0 - 7	1	
5	PHASEMSK	Phase Detect Filter 0: All Bits Enable, 1: Lower 1 bit Disable, 2: Lower 2 bit Disable, 3: Lower 3 bits Disable	0 - 3	0	
Group 290	**Panel Type**				
0	Gamma L/R-View	Current setting check 0: L-type 20: R-type	0 - 20	0	
1	Gamma L/R-Change	Type setting Type is L if the value is set to 0. Type is R if the value is set to 20.	0 - 20	10	
Group 300	**Closed Caption**				
2	Multi Window Caption	Close caption switch for PIP function 0: OFF, 1: ON	0-1	1	
Group 430	**Name setting**				
0	Model name setting display	0: no name 1:PT-EX600 PT-EW630 2:PT-EX600U PT-EW630U 3:PT-EX600E PT-EW630E 4:PT-EX600EJ PT-EW630EJ 7:PT-SLX70C PT-SLW73C	-	0	
1	Model name setting	0→10 Above 10 no name	0-10	0	
Group 431	**Model name setting [PT-EX600 / PT-EW630]**				
0	Brand setting display (Read only)	Refer to S430-0	-	0	
1	Brand setting	0→10 Above 10 [PT-EX600 / PT-EW630]	0-10	0	
Group 432	**Model name setting [PT-EX600U / PT-EW630U]**				
0	Brand setting display (Read only)	Refer to S430-0	-	0	
1	Brand setting	0→10 Above 10 [PT-EX600U / PT-EW630U]	0-10	0	
Group 433	**Model name setting [PT-EX600E / PT-EW630E]**				
0	Brand setting display (Read only)	Refer to S430-0	-	0	
1	Brand setting	0→10 Above 10 [PT-EX600E / PT-EW630E]	0-10	0	
Group 434	**Model name setting [PT-EX600EJ / PT-EW630EJ]**				
0	Brand setting display (Read only)	Refer to S430-0	-	0	
1	Brand setting	0→10 Above 10 [PT-EX600EJ / PT-EW630EJ]	0-10	0	
Group 437	**Model name setting [PT-SLX70C / PT-SLW73C]**				
0	Brand setting display (Read only)	Refer to S430-0	-	0	
1	Brand setting	0→10 Above 10 [PT-SLX70C / PT-SLW73C]	0-10	0	

Group/ Item	Item Name	Function	Range	Initial	Note
Group 500	**Composite (NTSC)**	**Composite / S-Video**			
1	Disp Dots		0 - 4095	674	
2	H Back Porch		0 - 4095	24	
3	V Back Porch		0 - 4095	18	
4	Disp Line		0 - 4095	454	
Group 501	**Composite (PAL)**	**Composite / S-Video**			
1	Disp Dots		0 - 4095	662	
2	H Back Porch		0 - 4095	32	
3	V Back Porch		0 - 4095	18	
4	Disp Line		0 - 4095	542	
Group 502	**Composite (SECAM)**	**Composite / S-Video**			
1	Disp Dots		0 - 4095	662	
2	H Back Porch		0 - 4095	32	
3	V Back Porch		0 - 4095	18	
4	Disp Line		0 - 4095	542	
Group 510	**SCART(480i)**				
0	Total Dots		0 - 4095	858	
1	Disp Dots		0 - 4095	672	
2	H Back Porch		0 - 4095	142	
3	V Back Porch		0 - 4095	42	
4	Disp Line		0 - 4095	458	
5	Clamp		0 - 4095	59	
6	Clamp Width		0 - 4095	20	
Group 511	**SCART (575i)**				
0	Total Dots		0 - 4095	864	
1	Disp Dots		0 - 4095	656	
2	H Back Porch		0 - 4095	148	
3	V Back Porch		0 - 4095	56	
4	Disp Line		0 - 4095	544	
5	Clamp		0 - 4095	68	
6	Clamp Width		0 - 4095	20	
Group 520	**YCbCr (480i)**				
0	Total Dots		0 - 4095	858	
1	Disp Dots		0 - 4095	672	
2	H Back Porch		0 - 4095	145	
3	V Back Porch		0 - 4095	44	
4	Disp Line		0 - 4095	456	
5	Clamp		0 - 4095	92	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	145	
23	(SUB)V Back Porch		0 - 4095	44	
25	(SUB)Clamp		0 - 4095	10	
26	(SUB)Clamp Width		0 - 4095	31	
Group 521	**YCbCr (575i)**				
0	Total Dots		0 - 4095	864	
1	Disp Dots		0 - 4095	658	
2	H Back Porch		0 - 4095	162	
3	V Back Porch		0 - 4095	58	
4	Disp Line		0 - 4095	542	
5	Clamp		0 - 4095	98	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	162	
23	(SUB)V Back Porch		0 - 4095	58	
25	(SUB)Clamp		0 - 4095	10	
26	(SUB)Clamp Width		0 - 4095	31	
Group 522	**YCbCr (480P)**				
0	Total Dots		0 - 4095	1716	
1	Disp Dots		0 - 4095	1368	
2	H Back Porch		0 - 4095	280	
3	V Back Porch		0 - 4095	46	

Group/ Item	Item Name	Function	Range	Initial	Note
4	Disp Line		0 - 4095	458	
5	Clamp		0 - 4095	188	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	280	
23	(SUB)V Back Porch		0 - 4095	46	
25	(SUB)Clamp		0 - 4095	10	
26	(SUB)Clamp Width		0 - 4095	31	
Group 523	**YCbCr (575P)**				
0	Total Dots		0 - 4095	1728	
1	Disp Dots		0 - 4095	1360	
2	H Back Porch		0 - 4095	298	
3	V Back Porch		0 - 4095	58	
4	Disp Line		0 - 4095	544	
5	Clamp		0 - 4095	198	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	298	
23	(SUB)V Back Porch		0 - 4095	58	
25	(SUB)Clamp		0 - 4095	10	
26	(SUB)Clamp Width		0 - 4095	31	
Group 524	**YCbCr (720P - 60)**				
0	Total Dots		0 - 4095	1650	
1	Disp Dots		0 - 4095	1248	
2	H Back Porch		0 - 4095	316	
3	V Back Porch		0 - 4095	34	
4	Disp Line		0 - 4095	700	
5	Clamp		0 - 4095	187	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	316	
23	(SUB)V Back Porch		0 - 4095	34	
25	(SUB)Clamp		0 - 4095	110	
26	(SUB)Clamp Width		0 - 4095	31	
Group 525	**YCbCr (720P - 50)**				
0	Total Dots		0 - 4095	1980	
1	Disp Dots		0 - 4095	1248	
2	H Back Porch		0 - 4095	316	
3	V Back Porch		0 - 4095	34	
4	Disp Line		0 - 4095	700	
5	Clamp		0 - 4095	183	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	316	
23	(SUB)V Back Porch		0 - 4095	34	
25	(SUB)Clamp		0 - 4095	110	
26	(SUB)Clamp Width		0 - 4095	31	
Group 526	**YCbCr (1080i - 60)**				
0	Total Dots		0 - 4095	2200	
1	Disp Dots		0 - 4095	1874	
2	H Back Porch		0 - 4095	258	
3	V Back Porch		0 - 4095	50	
4	Disp Line		0 - 4095	1050	
5	Clamp		0 - 4095	168	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	258	
23	(SUB)V Back Porch		0 - 4095	50	
25	(SUB)Clamp		0 - 4095	80	
26	(SUB)Clamp Width		0 - 4095	31	
Group 527	**YCbCr (1080i - 50)**				
0	Total Dots		0 - 4095	2640	
1	Disp Dots		0 - 4095	1872	
2	H Back Porch		0 - 4095	258	
3	V Back Porch		0 - 4095	50	
4	Disp Line		0 - 4095	1052	
5	Clamp		0 - 4095	168	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	258	
23	(SUB)V Back Porch		0 - 4095	50	

Group/ Item	Item Name	Function	Range	Initial	Note
25	(SUB)Clamp		0 - 4095	80	
26	(SUB)Clamp Width		0 - 4095	31	
Group 528	**YCbCr (1035i)**				
0	Total Dots		0 - 4095	2200	
1	Disp Dots		0 - 4095	1874	
2	H Back Porch		0 - 4095	258	
3	V Back Porch		0 - 4095	90	
4	Disp Line		0 - 4095	1006	
5	Clamp		0 - 4095	168	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	258	
23	(SUB)V Back Porch		0 - 4095	90	
25	(SUB)Clamp		0 - 4095	80	
26	(SUB)Clamp Width		0 - 4095	31	
Group 529	**YCbCr (1080P-60)**				
0	Total Dots		0 - 4095	1100	
1	Disp Dots		0 - 4095	936	
2	H Back Porch		0 - 4095	127	
3	V Back Porch		0 - 4095	52	
4	Disp Line		0 - 4095	1052	
Group 530	**YCbCr (1080P-50)**				
0	Total Dots		0 - 4095	1320	
1	Disp Dots		0 - 4095	934	
2	H Back Porch		0 - 4095	128	
3	V Back Porch		0 - 4095	52	
4	Disp Line		0 - 4095	1052	
Group 531	**YCbCr (1080P-30)**				
0	Total Dots		0 - 4095	2200	
1	Disp Dots		0 - 4095	1868	
2	H Back Porch		0 - 4095	260	
3	V Back Porch		0 - 4095	46	
4	Disp Line		0 - 4095	1066	
Group 532	**YCbCr (1080P-25)**				
0	Total Dots		0 - 4095	2640	
1	Disp Dots		0 - 4095	1872	
2	H Back Porch		0 - 4095	258	
3	V Back Porch		0 - 4095	48	
4	Disp Line		0 - 4095	1064	
Group 533	**YCbCr (1080P-24)**				
0	Total Dots		0 - 4095	2750	
1	Disp Dots		0 - 4095	1874	
2	H Back Porch		0 - 4095	256	
3	V Back Porch		0 - 4095	52	
4	Disp Line		0 - 4095	1052	
Group 534	**YCbCr (1080PSF-30)**				
0	Total Dots		0 - 4095	2200	
1	Disp Dots		0 - 4095	1875	
2	H Back Porch		0 - 4095	249	
3	V Back Porch		0 - 4095	90	
4	Disp Line		0 - 4095	1013	
Group 535	**YCbCr (1080PSF-25)**				
0	Total Dots		0 - 4095	2640	
1	Disp Dots		0 - 4095	1875	
2	H Back Porch		0 - 4095	249	
3	V Back Porch		0 - 4095	90	
4	Disp Line		0 - 4095	1013	
Group 536	**YCbCr (1080PSF - 24)**				

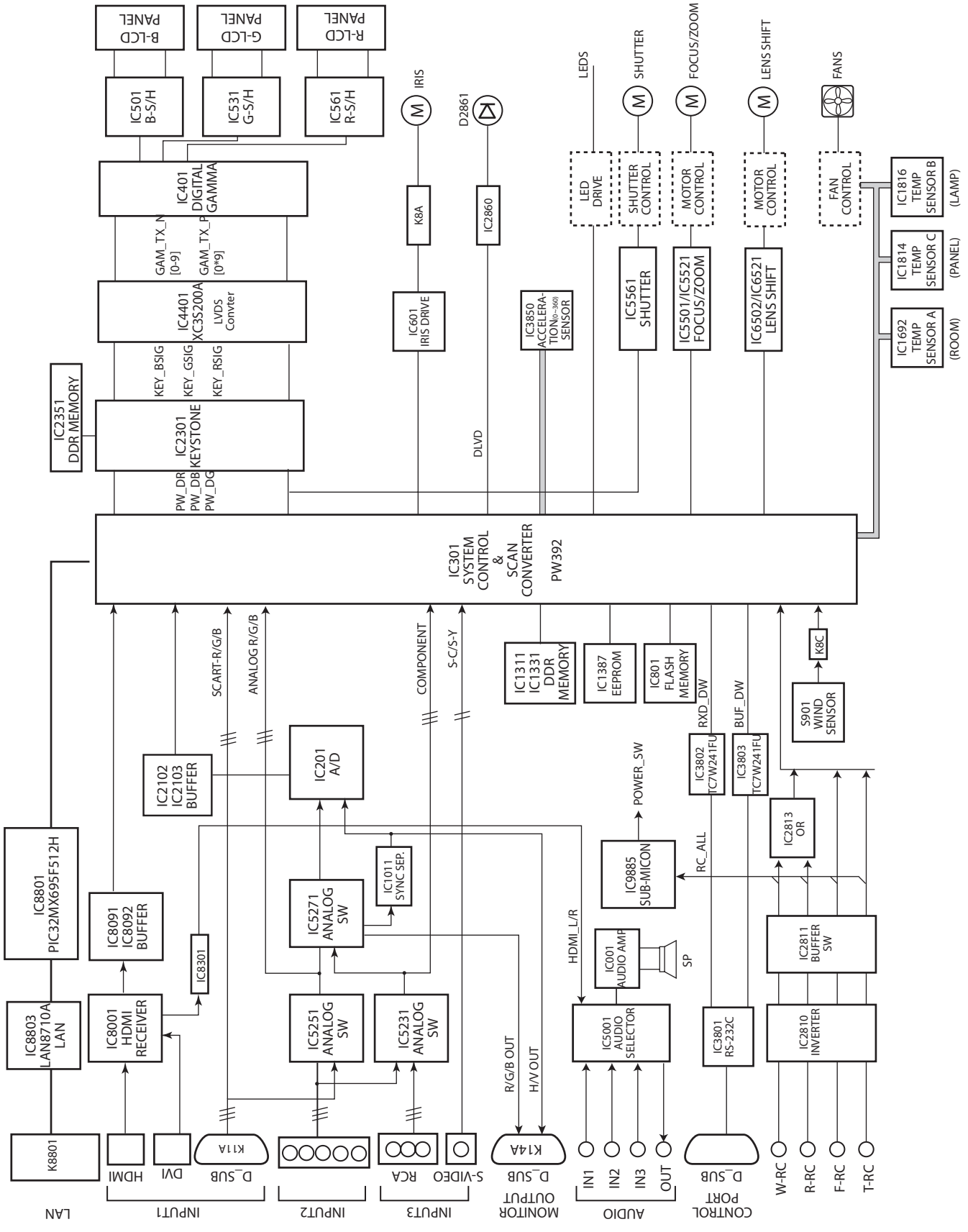
Electrical Adjustments

Group/ Item	Item Name	Function	Range	Initial	Note
0	Total Dots		0 - 4095	2750	
1	Disp Dots		0 - 4095	1878	
2	H Back Porch		0 - 4095	254	
3	V Back Porch		0 - 4095	50	
4	Disp Line		0 - 4095	1052	
Group 540	**RGB Video (480i)**				
0	Total Dots		0 - 4095	1716	
1	Disp Dots		0 - 4095	1424	
2	H Back Porch		0 - 4095	248	
3	V Back Porch		0 - 4095	38	
4	Disp Line		0 - 4095	486	
5	Clamp		0 - 4095	80	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	250	
23	(SUB)V Back Porch		0 - 4095	40	
25	(SUB)Clamp		0 - 4095	150	
26	(SUB)Clamp Width		0 - 4095	31	
Group 541	**RGB Video (575i)**				
0	Total Dots		0 - 4095	1728	
1	Disp Dots		0 - 4095	1408	
2	H Back Porch		0 - 4095	276	
3	V Back Porch		0 - 4095	44	
4	Disp Line		0 - 4095	576	
5	Clamp		0 - 4095	80	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	280	
23	(SUB)V Back Porch		0 - 4095	44	
25	(SUB)Clamp		0 - 4095	160	
26	(SUB)Clamp Width		0 - 4095	31	
Group 542	**RGB Video (480P)**			**(EX600/EW630)**	
0	Total Dots		0 - 4095	1716	
1	Disp Dots		0 - 4095	1424	
2	H Back Porch		0 - 4095	246/236	
3	V Back Porch		0 - 4095	41	
4	Disp Line		0 - 4095	484	
5	Clamp		0 - 4095	70	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	242/238	
23	(SUB)V Back Porch		0 - 4095	42	
25	(SUB)Clamp		0 - 4095	170	
26	(SUB)Clamp Width		0 - 4095	31	
Group 543	**RGB Video (575P)**			**(EX600/EW630)**	
0	Total Dots		0 - 4095	1728	
1	Disp Dots		0 - 4095	1412	
2	H Back Porch		0 - 4095	268/266	
3	V Back Porch		0 - 4095	49	
4	Disp Line		0 - 4095	576	
5	Clamp		0 - 4095	70	
6	Clamp Width		0 - 4095	20	
22	(SUB)H Back Porch		0 - 4095	272/268	
23	(SUB)V Back Porch		0 - 4095	48	
25	(SUB)Clamp		0 - 4095	170	
26	(SUB)Clamp Width		0 - 4095	31	
Group 544	**RGB Video (720P - 60)**			**(EX600/EW630)**	
0	Total Dots		0 - 4095	1650	
1	Disp Dots		0 - 4095	1280	
2	H Back Porch		0 - 4095	286/281	
3	V Back Porch		0 - 4095	25	
4	Disp Line		0 - 4095	720	
5	Clamp		0 - 4095	110	
6	Clamp Width		0 - 4095	31	
22	(SUB)H Back Porch		0 - 4095	295/290	
23	(SUB)V Back Porch		0 - 4095	26	
25	(SUB)Clamp		0 - 4095	150	
26	(SUB)Clamp Width		0 - 4095	31	

Group/ Item	Item Name	Function	Range	Initial	Note
Group 545	**RGB Video (720P - 50)**			**(EX600/EW630)**	
0	Total Dots		0 - 4095	1980	
1	Disp Dots		0 - 4095	1280	
2	H Back Porch		0 - 4095	284/281	
3	V Back Porch		0 - 4095	25	
4	Disp Line		0 - 4095	720	
5	Clamp		0 - 4095	110	
6	Clamp Width		0 - 4095	31	
22	(SUB)H Back Porch		0 - 4095	292/288	
23	(SUB)V Back Porch		0 - 4095	26	
25	(SUB)Clamp		0 - 4095	150	
26	(SUB)Clamp Width		0 - 4095	31	
Group 546	**RGB Video (1080i - 60)**			**(EX600/EW630)**	
0	Total Dots		0 - 4095	2200	
1	Disp Dots		0 - 4095	1900	
2	H Back Porch		0 - 4095	222/218	
3	V Back Porch		0 - 4095	40	
4	Disp Line		0 - 4095	1080	
5	Clamp		0 - 4095	80	
6	Clamp Width		0 - 4095	31	
22	(SUB)H Back Porch		0 - 4095	229/223	
23	(SUB)V Back Porch		0 - 4095	40	
25	(SUB)Clamp		0 - 4095	150	
26	(SUB)Clamp Width		0 - 4095	31	
Group 547	**RGB Video (1080i - 50)**			**(EX600/EW630)**	
0	Total Dots		0 - 4095	2640	
1	Disp Dots		0 - 4095	1920	
2	H Back Porch		0 - 4095	220/213	
3	V Back Porch		0 - 4095	40	
4	Disp Line		0 - 4095	1080	
5	Clamp		0 - 4095	80	
6	Clamp Width		0 - 4095	31	
22	(SUB)H Back Porch		0 - 4095	227/223	
23	(SUB)V Back Porch		0 - 4095	42	
25	(SUB)Clamp		0 - 4095	150	
26	(SUB)Clamp Width		0 - 4095	31	
Group 548	**RGB Video (1035i)**			**(EX600/EW630)**	
0	Total Dots		0 - 4095	2200	
1	Disp Dots		0 - 4095	1920	
2	H Back Porch		0 - 4095	228/218	
3	V Back Porch		0 - 4095	78	
4	Disp Line		0 - 4095	1035	
5	Clamp		0 - 4095	80	
6	Clamp Width		0 - 4095	31	
22	(SUB)H Back Porch		0 - 4095	229/222	
23	(SUB)V Back Porch		0 - 4095	80	
25	(SUB)Clamp		0 - 4095	150	
26	(SUB)Clamp Width		0 - 4095	31	
Group 551	**RGB Video (1080P - 30)**			**(EX600/EW630)**	
0	Total Dots		0 - 4095	2200	
1	Disp Dots		0 - 4095	1920	
2	H Back Porch		0 - 4095	221/218	
3	V Back Porch		0 - 4095	41	
4	Disp Line		0 - 4095	1080	
5	Clamp		0 - 4095	80	
6	Clamp Width		0 - 4095	31	
22	(SUB)H Back Porch		0 - 4095	114/112	
23	(SUB)V Back Porch		0 - 4095	42	
25	(SUB)Clamp		0 - 4095	80	
26	(SUB)Clamp Width		0 - 4095	31	
Group 552	**RGB Video (1080P - 25)**			**(EX600/EW630)**	
0	Total Dots		0 - 4095	2640	

Group/ Item	Item Name	Function	Range	Initial	Note
1	Disp Dots		0 - 4095	1920	
2	H Back Porch		0 - 4095	222/218	
3	V Back Porch		0 - 4095	41	
4	Disp Line		0 - 4095	1080	
5	Clamp		0 - 4095	80	
6	Clamp Width		0 - 4095	31	
22	(SUB)H Back Porch		0 - 4095	114/112	
23	(SUB)V Back Porch		0 - 4095	42	
25	(SUB)Clamp		0 - 4095	80	
26	(SUB)Clamp Width		0 - 4095	31	
Group 553	**RGB Video (1080P - 24)**			**(EX600/EW630)**	
0	Total Dots	(Read only)	0 - 4095	2750	
1	Disp Dots		0 - 4095	1920	
2	H Back Porch		0 - 4095	222/219	
3	V Back Porch		0 - 4095	41	
4	Disp Line		0 - 4095	1080	
5	Clamp		0 - 4095	80	
6	Clamp Width		0 - 4095	31	
22	(SUB)H Back Porch		0 - 4095	114/112	
23	(SUB)V Back Porch		0 - 4095	42	
25	(SUB)Clamp		0 - 4095	80	
26	(SUB)Clamp Width		0 - 4095	31	
Group 555	**RGB Video (1080PSF - 30)**			**(EX600/EW630)**	
0	Total Dots	(Read only)	0 - 4095	2200	
1	Disp Dots		0 - 4095	1920	
2	H Back Porch		0 - 4095	229/217	
3	V Back Porch		0 - 4095	40	
4	Disp Line		0 - 4095	1080	
5	Clamp		0 - 4095	80	
6	Clamp Width		0 - 4095	31	
22	(SUB)H Back Porch		0 - 4095	227/222	
23	(SUB)V Back Porch		0 - 4095	42	
25	(SUB)Clamp		0 - 4095	150	
26	(SUB)Clamp Width		0 - 4095	31	
Group 556	**RGB Video (1080PSF - 25)**			**(EX600/EW630)**	
0	Total Dots	(Read only)	0 - 4095	2640	
1	Disp Dots		0 - 4095	1920	
2	H Back Porch		0 - 4095	228/216	
3	V Back Porch		0 - 4095	40	
4	Disp Line		0 - 4095	1080	
5	Clamp		0 - 4095	80	
6	Clamp Width		0 - 4095	31	
22	(SUB)H Back Porch		0 - 4095	230/222	
23	(SUB)V Back Porch		0 - 4095	42	
25	(SUB)Clamp		0 - 4095	150	
26	(SUB)Clamp Width		0 - 4095	31	
Group 557	**RGB Video (1080PSF - 24)**			**(EX600/EW630)**	
0	Total Dots	(Read only)	0 - 4095	2750	
1	Disp Dots		0 - 4095	1920	
2	H Back Porch		0 - 4095	222/216	
3	V Back Porch		0 - 4095	40	
4	Disp Line		0 - 4095	1080	
5	Clamp		0 - 255	64	
6	Clamp Width		0 - 255	31	
22	(SUB)H Back Porch		0 - 4095	230/212	
23	(SUB)V Back Porch		0 - 4095	36	
25	(SUB)Clamp		0 - 4095	150	
26	(SUB)Clamp Width		0 - 4095	31	

Chassis overview



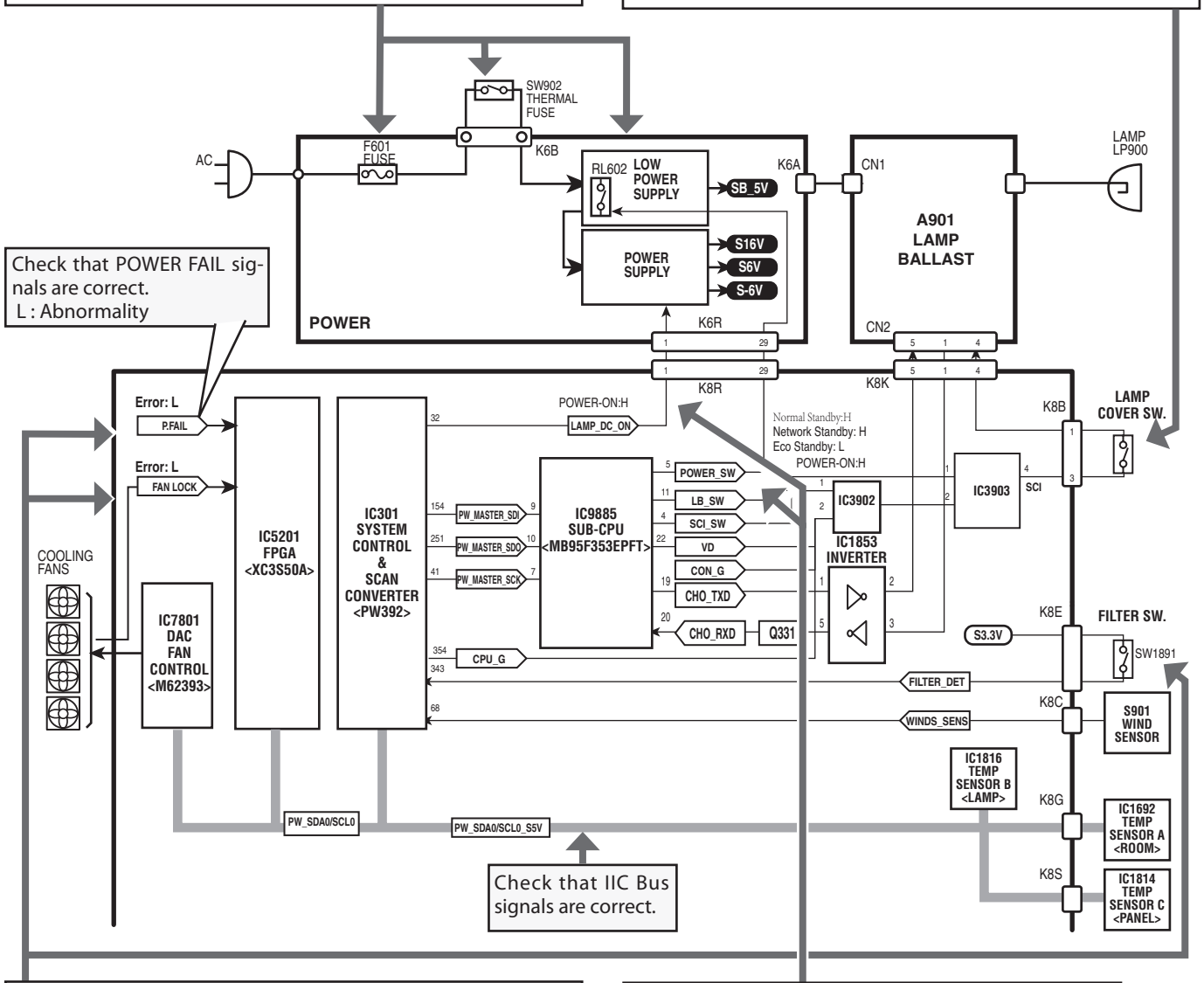
No power

The ON(G)/STANDBY(R) and LAMP indicators do not light

If the ON(G)/STANDBY(R) and LAMP indicators are not lighting, check the Fuse (F601) and Thermal fuse (SW902) in the primary circuit and SB_5V of standby power supply circuit.
- Fuse opens when the primary circuit has a error.
- Thermal fuse opens when surrounding temperature of lamp reaches around 113ºC.

The LAMP indicator lights red

If the LB_SW signal is not supplied to the Lamp Ballast, the projector cannot be turned on. Check the follows;
- Check the lamp cover and the lamp cover switch .
  lamp cover switch--open: Abnormality
- Check the signals LB_SW, CHO_TXD, CHO_RXD output from IC9885.

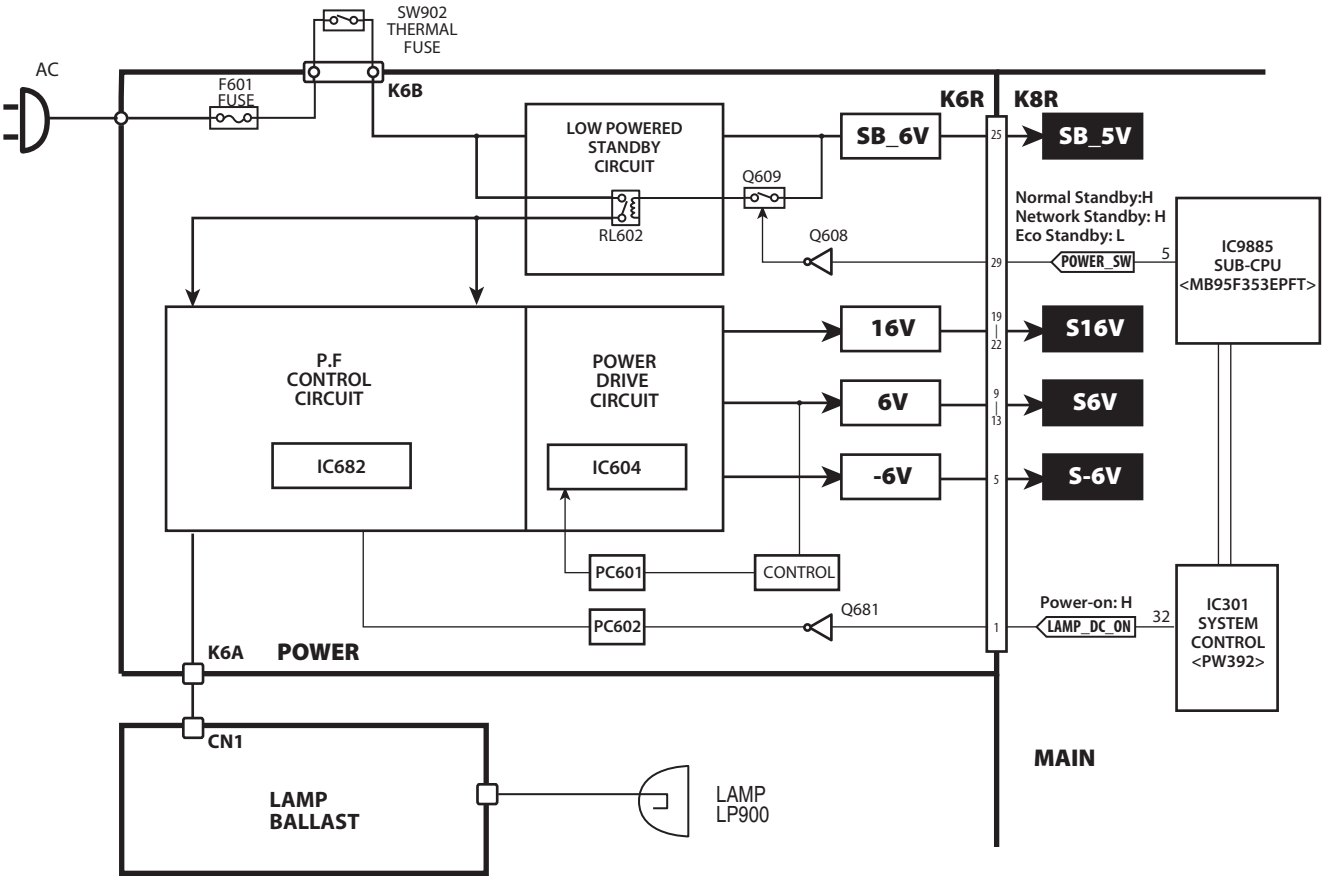


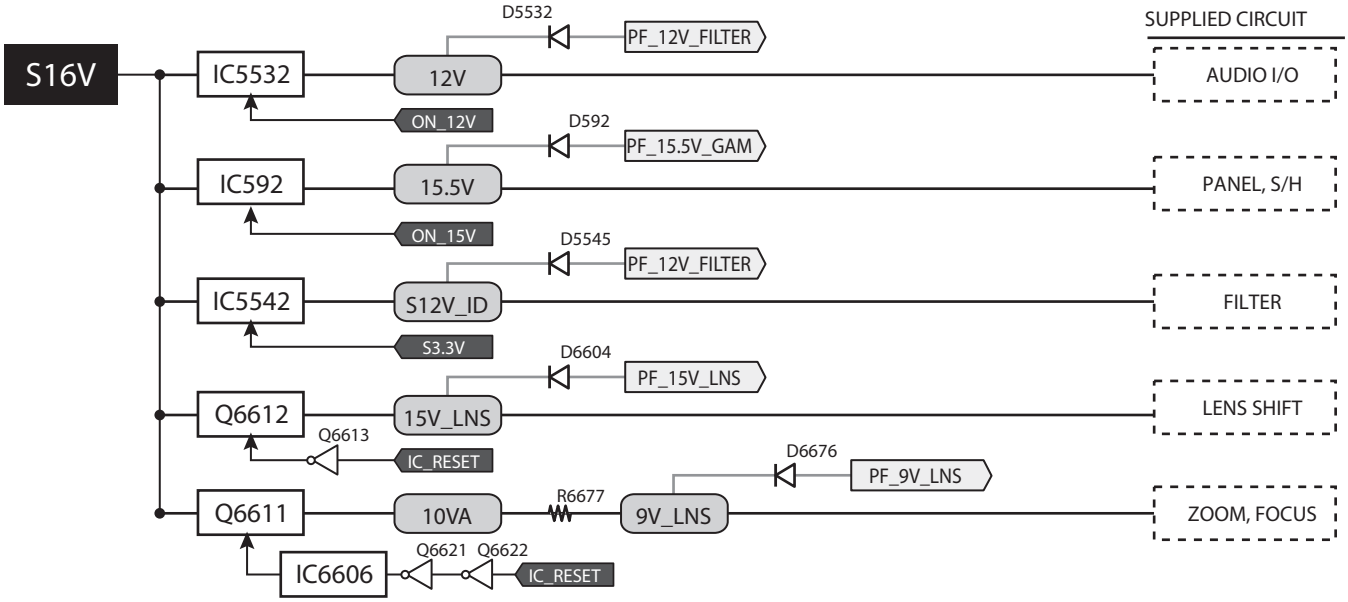
LAMP indicator lights and other indicators blink

If the LAMP indicator is lighting and other indicators are blinking, the projector detects an abnormal inside the projector. Check following points;
- Check the secondary power supply. Error on the low power voltage
- Check the fan operation. Error on the fan.
- Check the filter cartridge detecting switch (SW1891).
  SW1891 open: Error
- Check the signal FILTER_DET supplied to IC301.
  FILTER_DET Low: Error

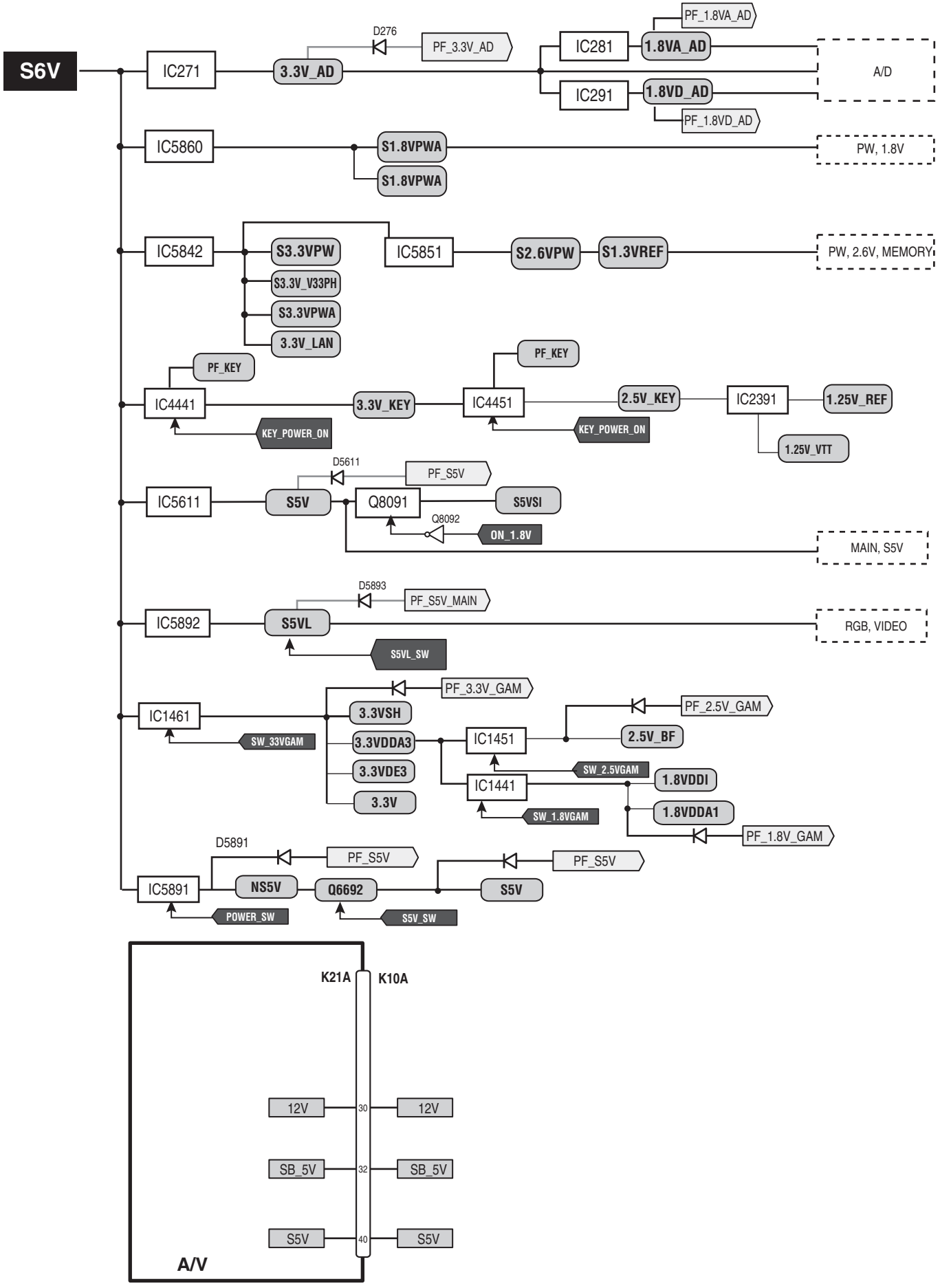
Check that the Power on/off signals are correct.
- POWER_SW H: Network Standby / L: Eco Standby/H: Normal standby
- LAMP_DC_ON H: Power-on

No power (power supply)

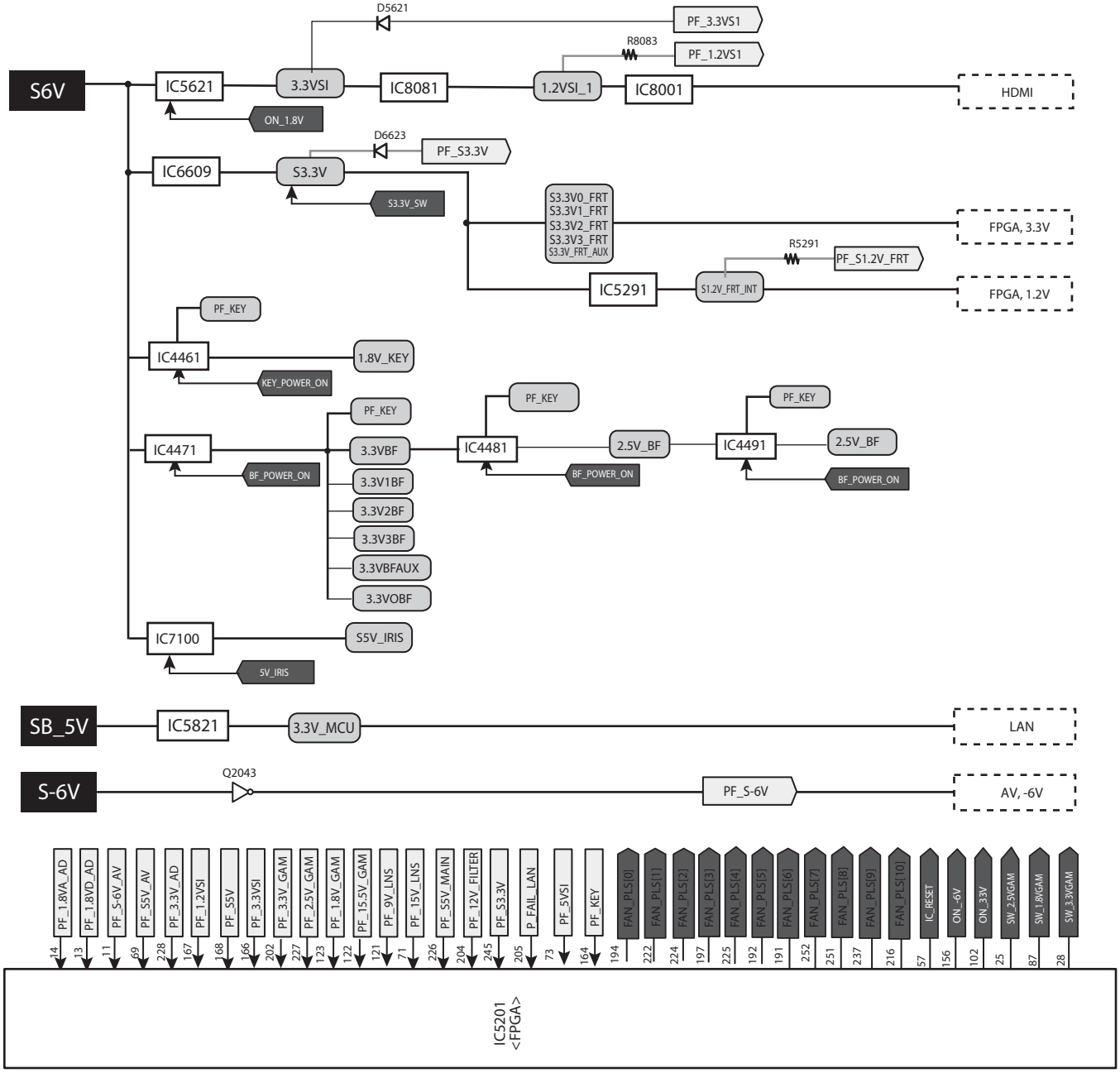




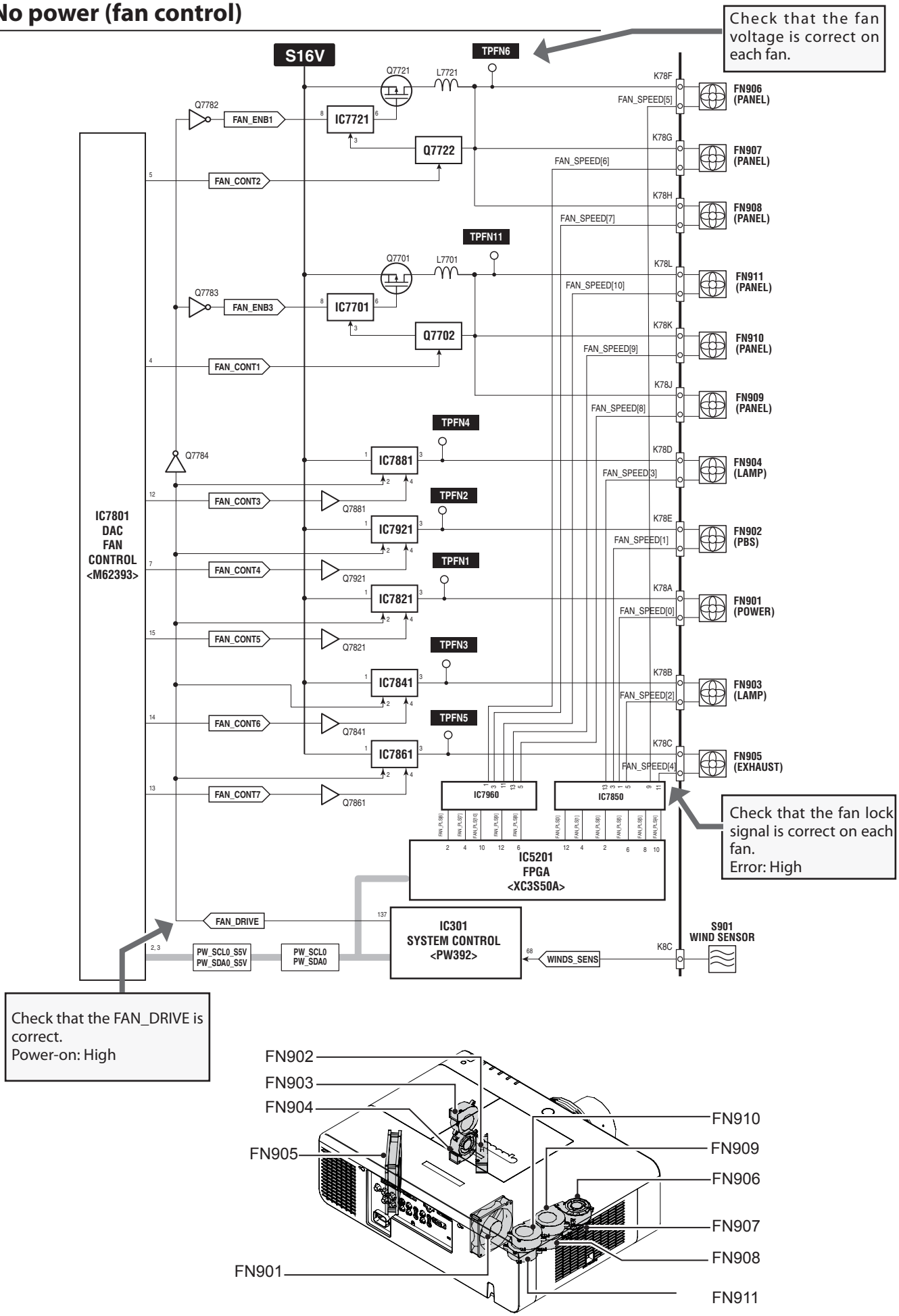
No power (power supply)



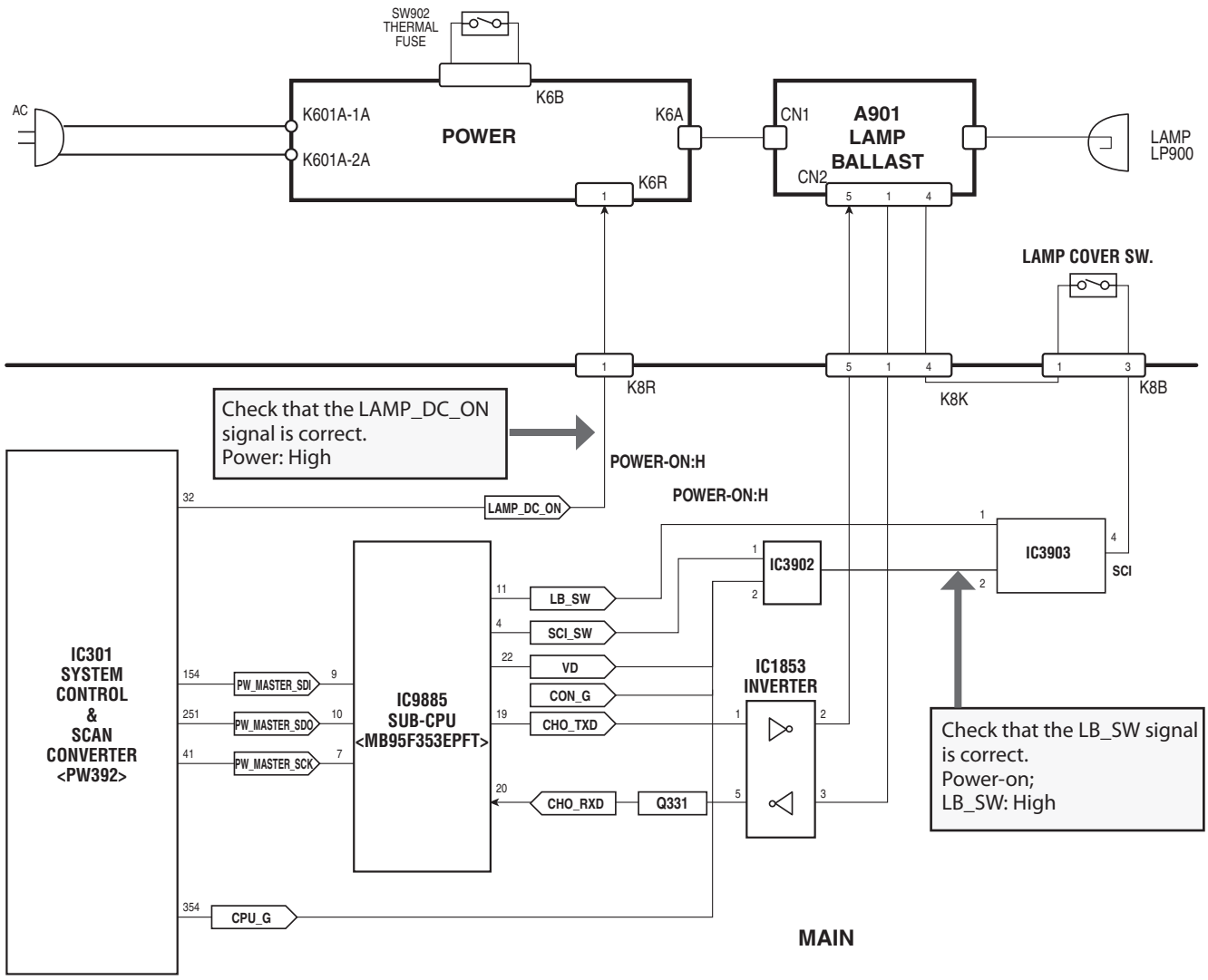
No power (power supply)



No power (fan control)



No power (lamp control)



Temperature abnormality

Temperature monitor operation
The temperature monitor system is provided to prevents damage of optical components inside a projector from overheat. Two protection systems are provided. Each system operation as follows :

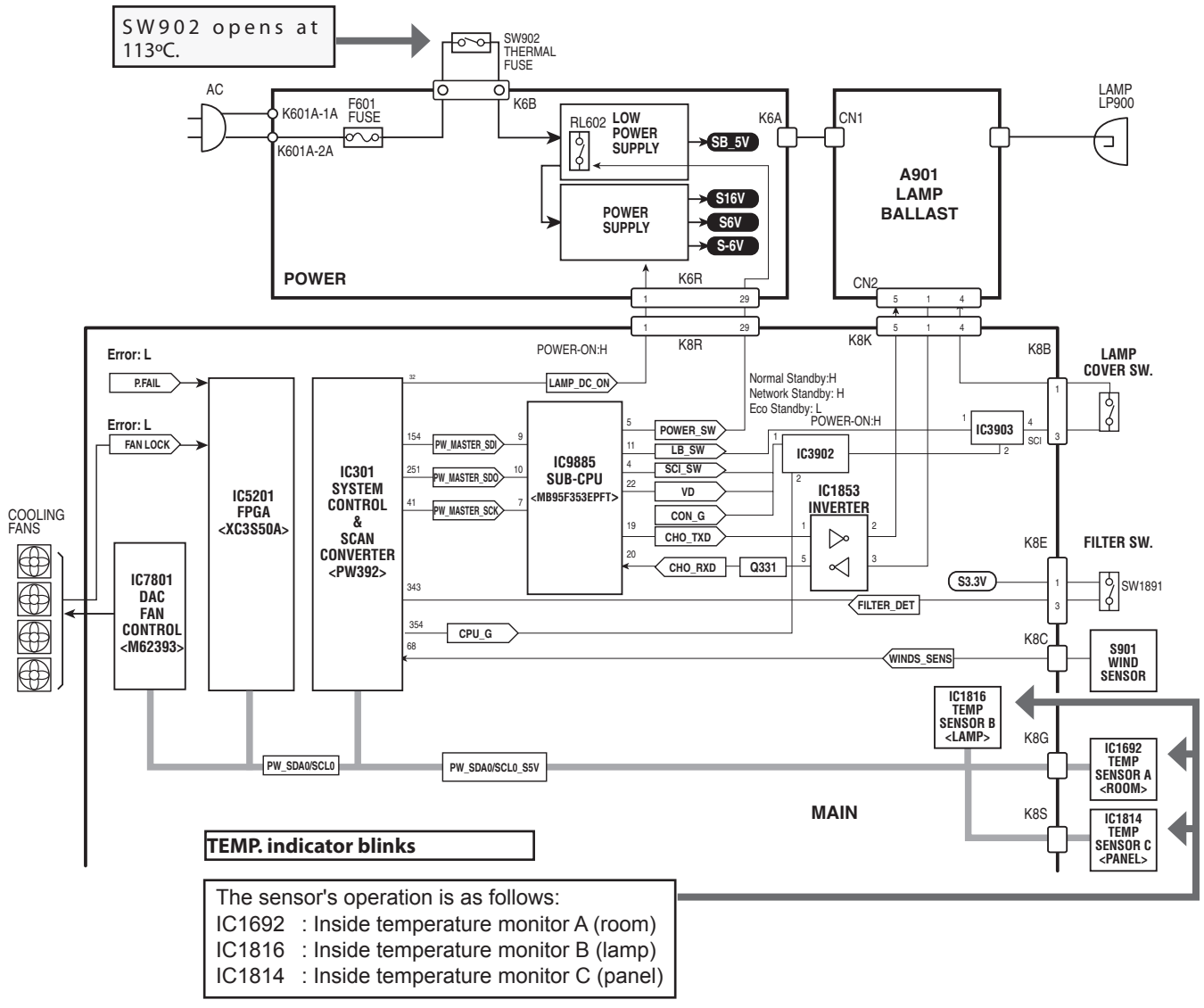
The temperature monitor -1:

● **To control the air-flow of the cooling fans.**
The CPU checks the temperature and atmospheric pressure inside a projector. It checks a temperature using temperature sensors IC1692, IC1814, IC1816 . The CPU judges data from sensors and controls the air flow of the cooling fans so the temperature inside the projector is maintained to normal temperature.

● **To shut down the projector urgently.**
The CPU checks surrounding temperature of LCD panel (IC1814), Lamp (IC1816) and intake air (IC1692). If each part temperature reaches abnormal temperature, the CPU will turn off the projector, and will blink TEMP. indicator. Cooling fans operate until temperature returns to normal. Indicator will stop blink, if temperature returns to normal.

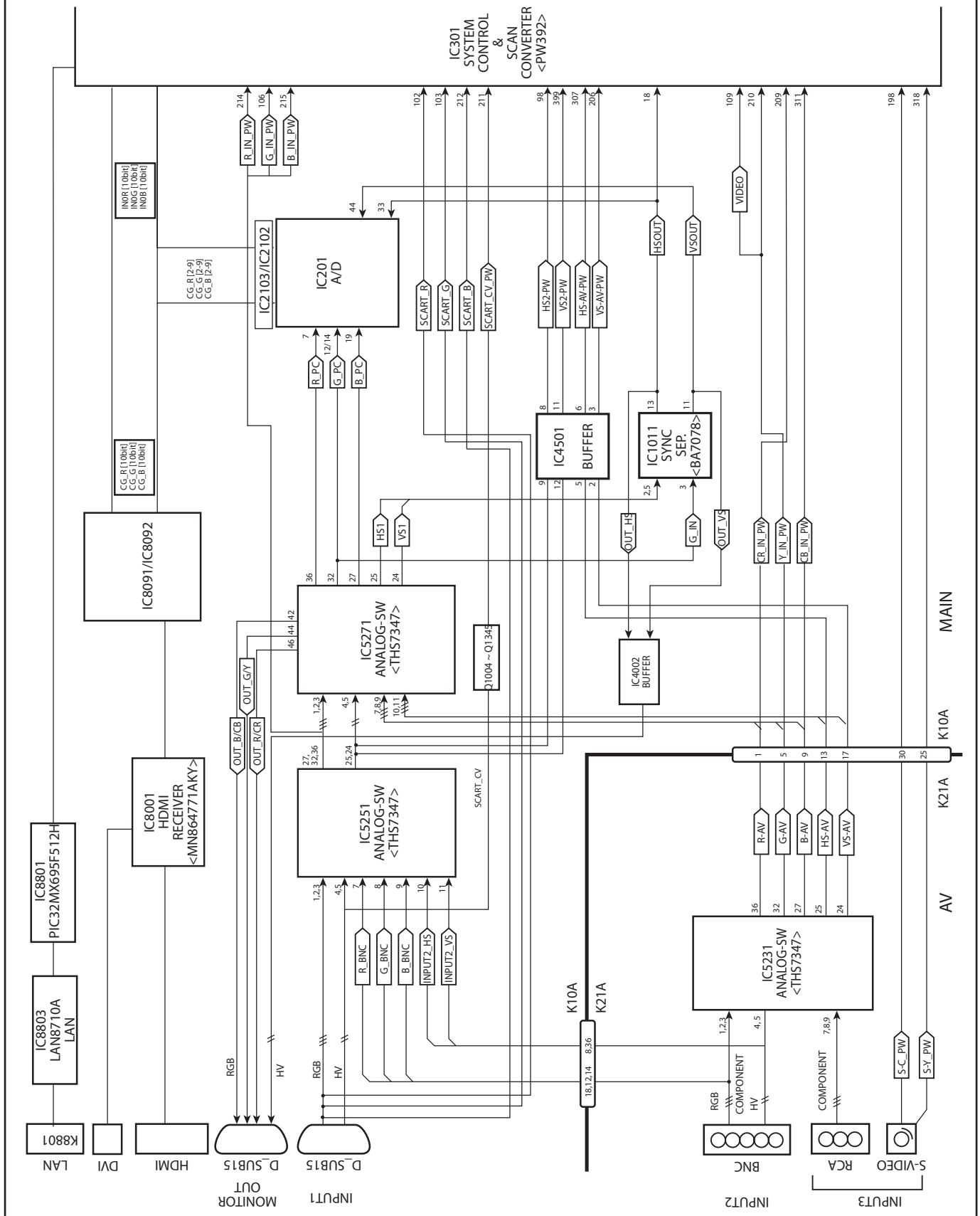
The temperature monitor -2 :

● **Temperature check of lamp :**
Thermal protector (SW902) is placed near the lamp. Thermal protector will operate, if the surrounding temperature reaches 113ºC. When the thermal protector becomes open, it cuts off the AC line to shut down the projector immediately.

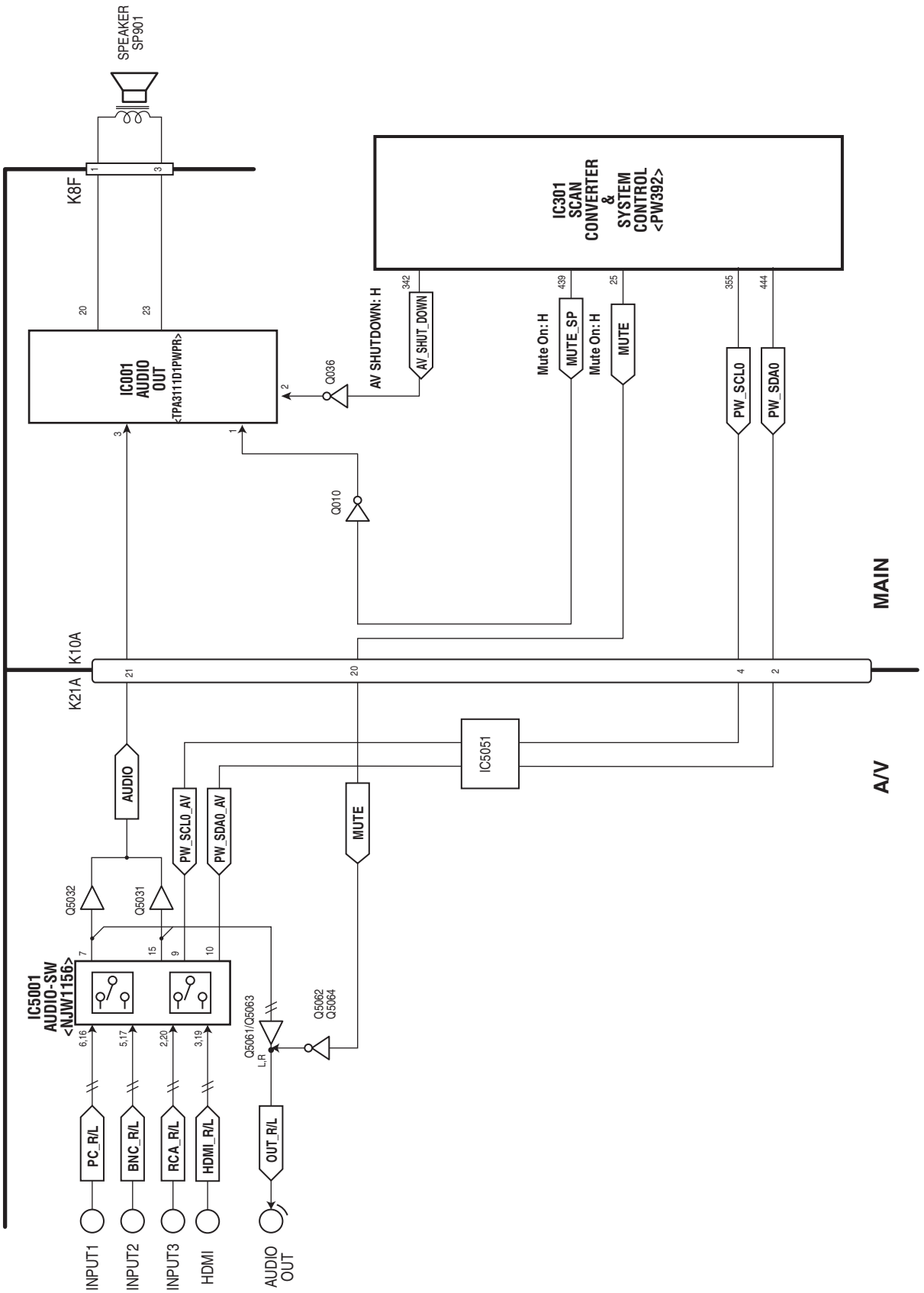


The sensor's operation is as follows:
IC1692 : Inside temperature monitor A (room)
IC1816 : Inside temperature monitor B (lamp)
IC1814 : Inside temperature monitor C (panel)

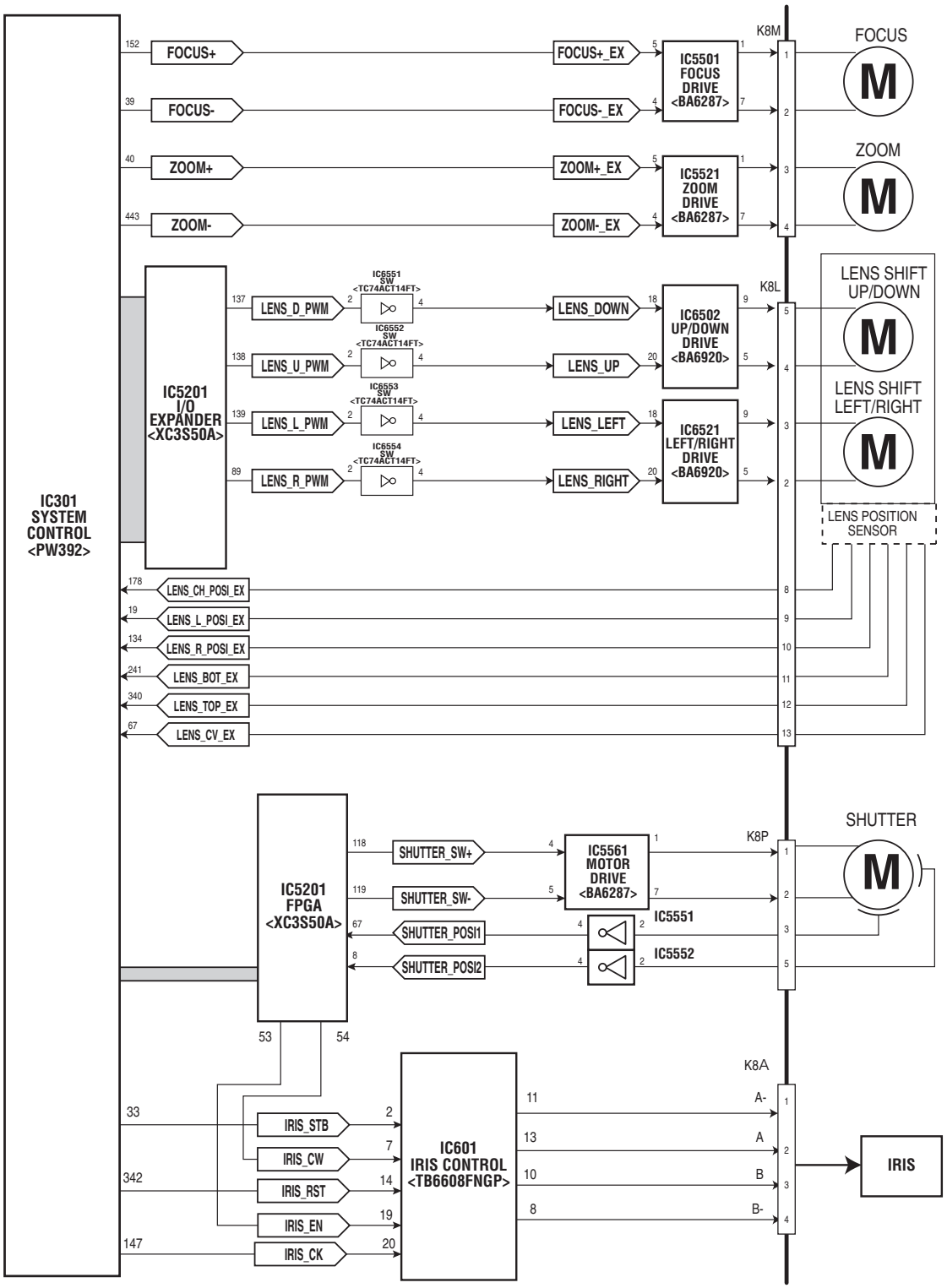
No picture


IC301
SYSTEM
CONTROL
&
SCAN
CONVERTER
<PW392>
IC201
A/D
IC2103/IC2102
IC8091/IC8092
IC8001
HDMI
RECEIVER
<MN864771AKY>
IC8801
PIC32MX695F512H
IC8803
LAN8710A
LAN
IC4501
BUFFER
IC1011
SYNC
SEP.
<BA7078>
IC4002
BUFFER
IC5271
ANALOG-SW
<THS7347>
IC5251
ANALOG-SW
<THS7347>
IC5231
ANALOG-SW
<THS7347>
D1004 ~ Q1345
R_IN_PW
G_IN_PW
B_IN_PW
INOR [10bit]
INOG [10bit]
INOB [10bit]
CG_R [10bit]
CG_G [10bit]
CG_B [10bit]
CG_R [2-9]
CG_G [2-9]
CG_B [2-9]
R_PC
G_PC
B_PC
SCART_R
SCART_G
SCART_B
SCART_CV_PW
HS2-PW
VS2-PW
HS-AV-PW
VS-AV-PW
HSOUT
VSOUT
VIDEO
HS1
VS1
OUT_HS
OUT_VS
G_IN
CR_IN_PW
Y_IN_PW
CB_IN_PW
OUT_G/Y
OUT_B/CB
OUT_R/CR
SCART_CV
R_BNC
G_BNC
B_BNC
INPUT2_HS
INPUT2_VS
R-AV
G-AV
B-AV
HS-AV
VS-AV
S-C_PW
S-Y_PW
MAIN
AV
K10A
K21A
RGB
HV
COMPONENT
K8801
LAN
DVI
HDMI
D_SUB15
MONITOR OUT
D_SUB15
INPUT1
BNC
INPUT2
RCA
S-VIDEO
INPUT3

No sound


SPEAKER
SP901
K8F
IC301
SCAN
CONVERTER
&
SYSTEM
CONTROL
<PW392>
IC001
AUDIO
OUT
<TPA3111D1PWPR>
Q036
AV SHUTDOWN: H
AV_SHUT_DOWN
Mute On: H
MUTE_SP
Mute On: H
MUTE
PW_SCL0
PW_SDA0
Q010
MAIN
K10A
K21A
A/V
IC5051
AUDIO
PW_SCL0_AV
PW_SDA0_AV
MUTE
Q5032
Q5031
IC5001
AUDIO-SW
<NJW1156>
Q5062
Q5064
Q5061/Q5063
L,R
PC_R/L
BNC_R/L
RCA_R/L
HDMI_R/L
OUT_R/L
INPUT1
INPUT2
INPUT3
HDMI
AUDIO
OUT

Motor control problems



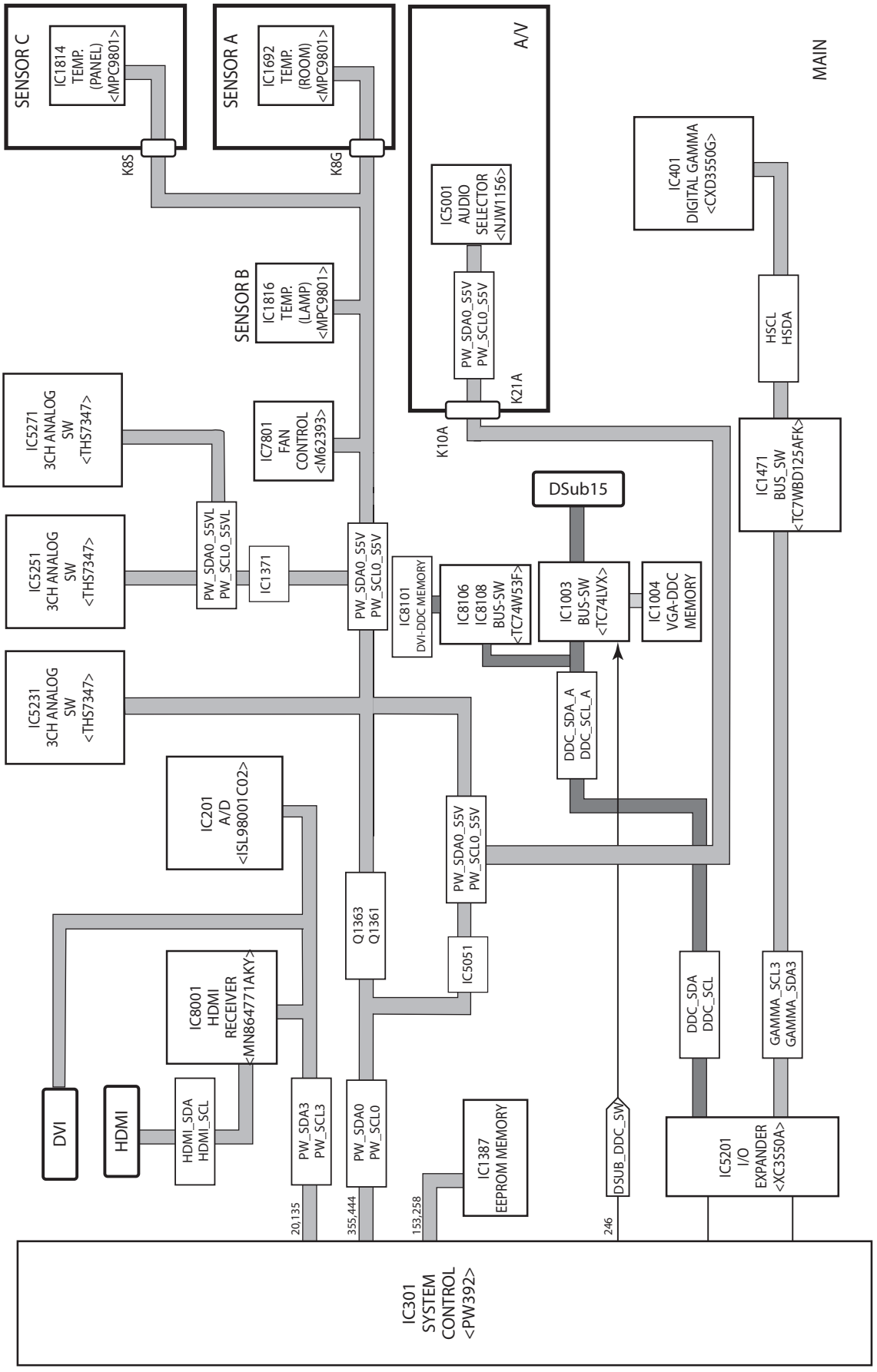
	STOP	UP	DOWN
LENS_D_PWM	L	H	H
LENS_U_PWM	ANY	H	L

	STOP	+	-
FOCUS -	H	H	L
FOCUS +	H	L	H

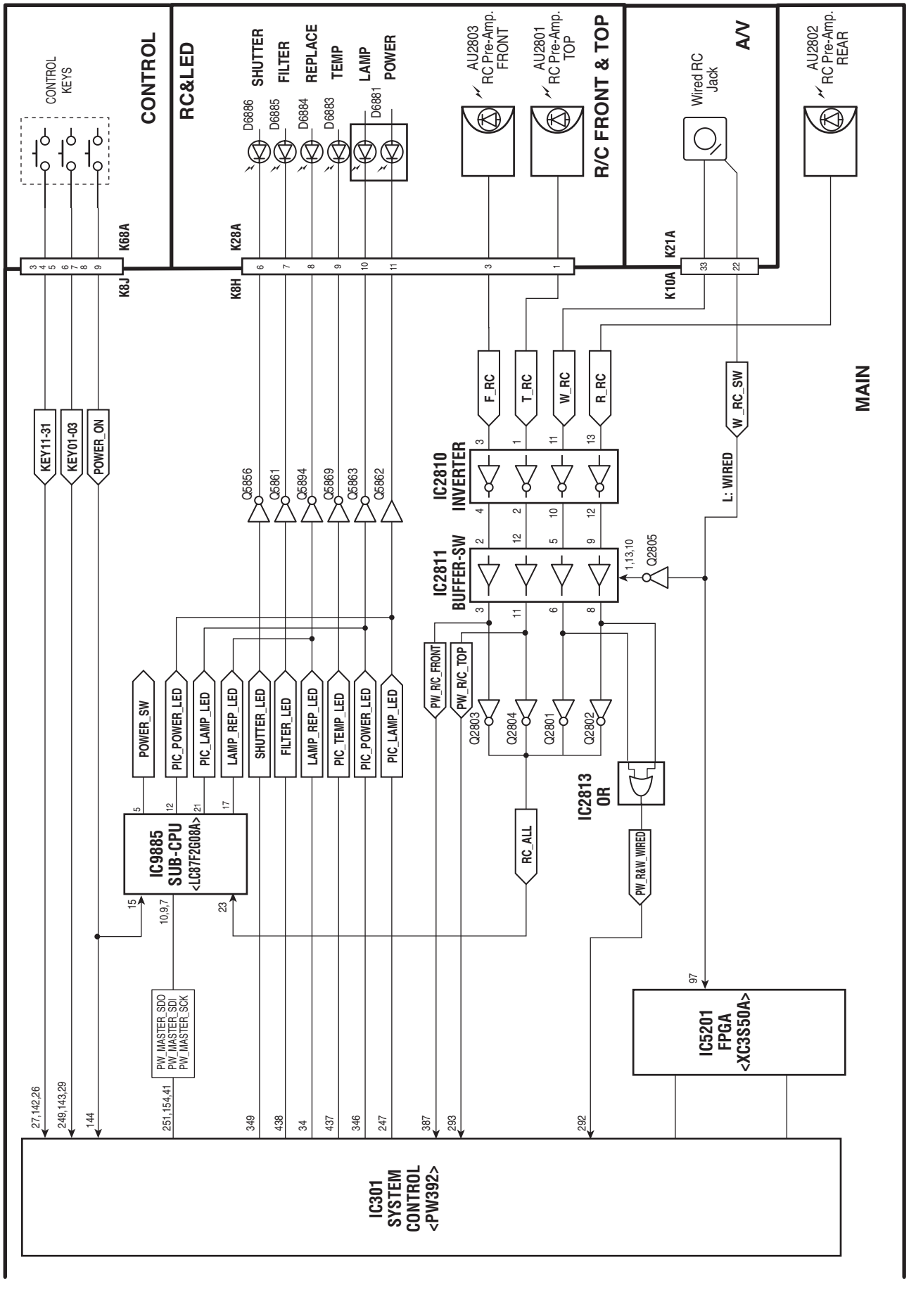
	STOP	RIGHT	LEFT
LENS_L_PWM	L	H	H
LENS_R_PWM	ANY	H	L

	STOP	+	-
ZOOM -	H	H	L
ZOOM +	H	L	H

Bus control


SENSOR C
IC1814
TEMP.
(PANEL)
<MPC9801>
K8S
SENSOR A
IC1692
TEMP.
(ROOM)
<MPC9801>
K8G
A/V
MAIN
IC5001
AUDIO
SELECTOR
<NJW1156>
PW_SDA0_S5V
PW_SCL0_S5V
K21A
K10A
IC401
DIGITAL GAMMA
<CXD3550G>
HSCL
HSDA
SENSOR B
IC1816
TEMP.
(LAMP)
<MPC9801>
IC5271
3CH ANALOG
SW
<THS7347>
IC7801
FAN
CONTROL
<M62393>
DSub15
IC1471
BUS_SW
<TC7WBD125AFK>
IC5251
3CH ANALOG
SW
<THS7347>
PW_SDA0_S5VL
PW_SCL0_S5VL
IC1371
PW_SDA0_S5V
PW_SCL0_S5V
IC8101
DVI-DDC MEMORY
IC8106
IC8108
BUS-SW
<TC74W53F>
IC1003
BUS-SW
<TC74LVX>
IC1004
VGA-DDC
MEMORY
IC5231
3CH ANALOG
SW
<THS7347>
DDC_SDA_A
DDC_SCL_A
IC201
A/D
<ISL98001C02>
PW_SDA0_S5V
PW_SCL0_S5V
Q1363
Q1361
IC5051
IC8001
HDMI
RECEIVER
<MN864771AKY>
DVI
HDMI
HDMI_SDA
HDMI_SCL
PW_SDA3
PW_SCL3
PW_SDA0
PW_SCL0
IC1387
EEPROM MEMORY
DDC_SDA
DDC_SCL
GAMMA_SCL3
GAMMA_SDA3
DSUB_DDC_SW
IC5201
I/O
EXPANDER
<XC3S50A>
20,135
355,444
153,258
246
IC301
SYSTEM
CONTROL
<PW392>

LED drive & RC control



Indicators and projector condition

Each indicator on the projector indicates the operating status of the projector. If you find the un-expected operation during usage, check the projector's operation with the tables below. The indicators also let you know the maintenance sign. To use the projector in the best performance for a long period of time, take an adequate maintenance according to the indicator status.

ON(G)/STANDBY(R) indicator

Indicator status		Status
No illumination or flashing		The power cord is unplugged.
RED	Lit	The power cord is plugged.
		The projector is in stand-by mode, after the cooling is completed.
ORANGE	Flashing	The projector cannot be turned on until the normal power-off processing for fan cooling is completing and the <ON(G)/STANDBY(R) >indicator stops blinking.
		The temperature inside the projector is abnormally high. And the <TEMP>indicator also blinks in orange. The projector cannot be turned on until cooling is completing and the <ON(G)/STANDBY(R)/ > indicator stops blinking.
GREEN	Lit	Projecting.
	Flashing	The projector is in the power management mode.

LAMP indicator

Indicator	Lighting in orange
Status	The projection lamp reaches its end of life.
Check	Is there a lamp replacement icon appears on the screen?
Remedy	Replace the lamp unit.

TEMP indicator

Indicator	Blinks in red.	Blinks in red.
Status	The projector detects an abnormal condition and cannot be turned on.	The temperature inside the projector is abnormally high. The projector cannot be turned on. And the <ON(G)/STANDBY(R)> indicator also blinks in red.
Check	Unplug the AC power cord and plug it again to tuwrn on the projector.	- Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if the air vents of the projector are not blocked. - Has the projector been installed near an Air-Conditioning/ Heating Duct or Vent? - Is the filter clean?
Remedy	If the projector is turned off again, the projector may have the internal error. It needs to check up or servicing.	- Provide good installing condition to your projector. - Move the installation of the projector away from the duct or vent. - Replace filter unit.

Note:
- If <TEMP> indicator persists to light or blink after taking these measurements, the projector may have the internal error. Do not leave the projector on. It may cause an electric shock or a fire hazard.
- 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, the projector may be defective. Do not leave the projector on. It may cause an electric shock or a fire hazard.

If an indicator turns on

If a problem occurs within the projector, it will be notified with the temperature indicator <TEMP>, the filter indicator <FILTER>, the shutter indicator <SHUTTER>*, and the lamp indicator <LAMP>.
Check the status of the indicators and take the following action.

CAUTION

✧ Before you take a remedial measure, Turning off the projector.
✧ If multiple indicators light or blink, verify the status of the projector by looking at each indicator.

Note

✧ Confirm the status of the power indicated on the <ON(G)/STANDBY(R)> indicator.

■ When operating correctly

The status of the indicator is displayed with the following symbols.
▲: Off, ✧: On, ★: Flashing, ■: Off or On or Flashing

Indicators					Status of the projector
<ON(G)/ STANDBY(R)> Green/Red/ Orange	<TEMP> Red	<FILTER> Orange	<SHUTTER> Blue	<LAMP> Orange	
▲/▲/▲	▲	▲	▲	▲	The power plug has been removed from the outlet.
▲/✧/▲	■*1	■*1	■*1	■*1	The projector is in the standby mode. Turns on when pressing the <POWER ON> button on the remote control or the < ⏻/❙ > button on the side control.
✧/▲/▲	■*1	■*1	■*1	■*1	The projector is operating normally.
▲/▲/★*2	■*1	■*1	■*1	■*1	The lamp is cooling down. The projector does not turn on when pressing the <POWER ON> button on the remote control or the < ⏻/❙ > button on the side control until the standby indicator <ON(G)/ STANDBY(R)> changes to red.
★*2/▲/▲	■*1	■*1	■*1	■*1	The projector is in the power management mode. The lamp will turn on when controlling the projector, allowing the user to start operating it.
▲/▲/★*2	■*1	■*1	■*1	■*1	Power management mode is [On] and the lamp is cooling down.
✧/▲/▲	■*1	■*1	✧	■*1	The shutter function has been turned on. Press any button on the remote control or the side control to cancel the function.
▲/✧/▲	■*1	■*1	★*2	■*1	The projector is in the shutter management mode. The lamp will turn on when controlling the projector, allowing the user to start operating it.
▲/▲/★*2	■*1	■*1	★*2	■*1	Shutter management mode is [On] and the lamp is cooling down.

*1: The indicator will change according to different conditions, regardless of the status of other indicators.
*2: The indicator will flash in approximately 1-second intervals.

■ When there is a problem with internal temperature

The status of the indicator is displayed with the following symbols.
▲: Off, ✧: On, ★: Flashing, ■: Off or On or Flashing

Indicators					Status of the projector
<ON(G)/ STANDBY(R)> Green/Red/ Orange	<TEMP> Red	<FILTER> Orange	<SHUTTER> Blue	<LAMP> Orange	
✧/▲/▲	★*1	■*2	■*2	■*2	If the temperature within the projector becomes too high, the temperature indicator <TEMP> will start to flash slowly.
▲/▲/★*3	★*4	■*2	■*2	■*2	If the temperature within the projector becomes even higher, the temperature indicator <TEMP> will flash faster, the power indicator <ON(G)/ STANDBY(R)> will turn off, and the projector will turn off automatically. The projector will not turn back on even when pressing the <POWER ON> button on the remote control or the < ⏻/❙ > button on the side control. When the projector returns to the normal operating temperature, the standby indicator <ON(G)/STANDBY(R)> will change to on. The projector will turn back on when pressing the <POWER ON> button on the remote control or the < ⏻/❙ > button on the side control. (The temperature indicator <TEMP> will remain flashing.) Check the air filter.
▲/✧/▲	★*4	■*1	■*1	■*1	The projector has cooled inside, and returned to operating temperature. Pressing the <POWER ON> button on the remote control or the < ⏻/❙ > button on the side control will make the temperature indicator <TEMP> stop flashing and operate the projector. Check the air filter.

*1: The indicator will flash in approximately 2-second intervals.
*2: The indicator will change according to different conditions, regardless of the status of other indicators.
*3: The indicator will flash in approximately 1-second intervals.
*4: The indicator will flash in approximately 0.5-second intervals.

■ When there is a problem with internal power

The status of the indicator is displayed with the following symbols.
▲: Off, ✧: On, ★: Flashing, ■: Off or On or Flashing

Indicators					Status of the projector
<ON(G)/ STANDBY(R)> Green/Red/ Orange	<TEMP> Red	<FILTER> Orange	<SHUTTER> Blue	<LAMP> Orange	
▲/▲/★*1	★*1	★*1	★*1	★*1	A problem has been detected within the projector. The projector will not turn back on even when pressing the <POWER ON> button on the remote control or the < ⏻/| > button on the side control. Remove the power plug from the outlet, and plug it back in again. If the power turns off, or the indicator turns on or flashes again, remove the power plug from the outlet and contact your dealer to request an inspection and repair. Do not leave the projector plugged in with the indicator on or flashing. Doing so may cause a fire or electric shock.

*1: The indicator will flash in approximately 0.5-second intervals.

■ When there is a problem with the air filter

The status of the indicator is displayed with the following symbols.
▲: Off, ✧: On, ★: Flashing, ■: Off or On or Flashing

Indicators					Status of the projector
<ON(G)/ STANDBY(R)> Green/Red/ Orange	<TEMP> Red	<FILTER> Orange	<SHUTTER> Blue	<LAMP> Orange	
✧/ ■*1/ ■*1	■*1	✧	■*1	■*1	The indicator notifies you when the time set with [Filter counter timer] has been reached. Replace the air filter unit. (Filter replacement icon will be shown at the top right of the screen simultaneously.*2) Alternatively, the indicator notifies you when [Filter counter remaining] becomes 0%. Replace the air filter unit.
▲/✧/▲	★*2	★*2	★*2	★*2	When the air filter unit isn't installed, the projector is forced shutdown. Install the air filter unit.

*1: The indicator will change according to different conditions, regardless of the status of other indicators.
*2: The indicator will flash in approximately 0.5-second intervals.
*3: When [Display] is set to [On], the freeze function or shutter function will not be displayed on the screen during operation.

■ When there is a problem with the lamp

The status of the indicator is displayed with the following symbols.
▲: Off, ✧: On, ★: Flashing, ■: Off or On or Flashing

Indicators					Status of the projector
<ON(G)/ STANDBY(R)> Green/Red/ Orange	<TEMP> Red	<FILTER> Orange	<SHUTTER> Blue	<LAMP> Orange	
▲/▲/★*2	■*1	■*1	■*1	★*2	The lamp does not turn on and the lamp is cooling down.
▲/✧/▲	■*1	■*1	■*1	★*2	The lamp does not turn on and the lamp has been cooled enough after cooling down.
■*1/■*1/■*1	■*1	■*1	■*1	✧	The recommended time to replace the lamp has been reached. The lamp replacement icon will be displayed at the top right of the screen to notify the user of replacement. Replace the lamp unit as soon as possible. Replacing the lamp will cause the lamp indicator <LAMP> to turn off.

*1: The indicator will change according to different conditions, regardless of the status of other indicators.
*2: The indicator will flash in approximately 1-second intervals.

■ When there is a problem with the shutter

The status of the indicator is displayed with the following symbols.
▲: Off, ✧: On, ★: Flashing, ■: Off or On or Flashing

Indicators					Status of the projector
<ON(G)/ STANDBY(R)> Green/Red/ Orange	<TEMP> Red	<FILTER> Orange	<SHUTTER> Blue	<LAMP> Orange	
▲/▲/★*3	■*1	■*1	★*2	■*1	The shutter can not be use and the Shutter is cooling down.
▲/✧/▲	■*1	■*1	★*2	■*1	The shutter can not be use and the shutter has been cooled enough after cooling down.
■*1/■*1/■*1	■*1	■*1	★*2	■*1	The shutter can not be shut.

*1: The indicator will change according to different conditions, regardless of the status of other indicators.
*2: The indicator will flash in approximately 0.5-second intervals.
*3: The indicator will flash in approximately 1-second intervals.

Power failure detection system

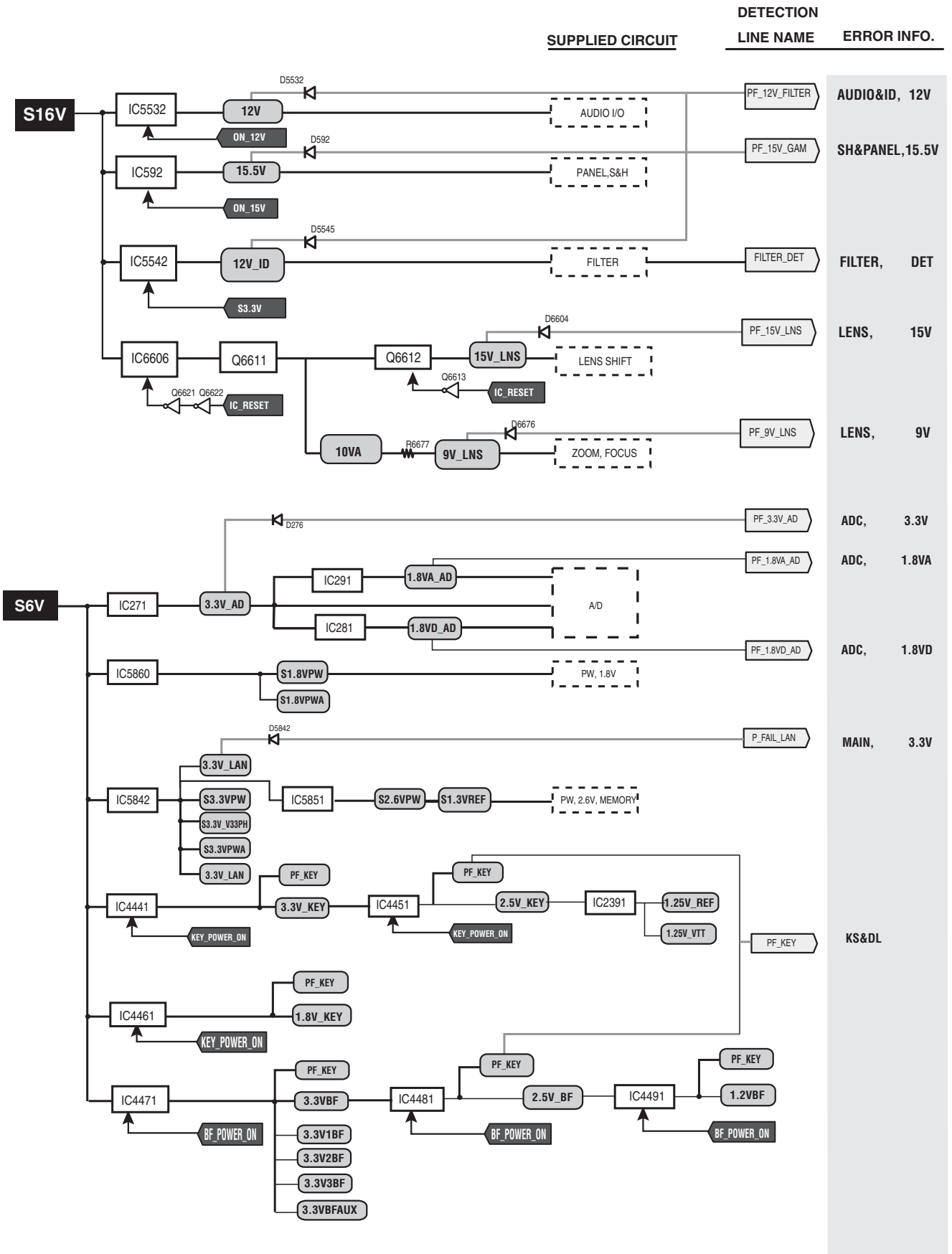
Detection of power failure

Projector provides a protection circuit to prevent the secondary failure when the power failure, fans failure or temperature failure occurs on the projector. The power failure detection lines "PF_3.3V_AD", "PF_3.3V_GAM", etc. are connected to the main power supplies. When the failure occurs, IC301<SYSTEM CONTROL> receives an error information through IC5201<FPGA>, and then outputs the signal "LAMP_DC_ON" from pin 32. The signal "LAMP_DC_ON" is supplied to power supply circuit to control the power supply operation.

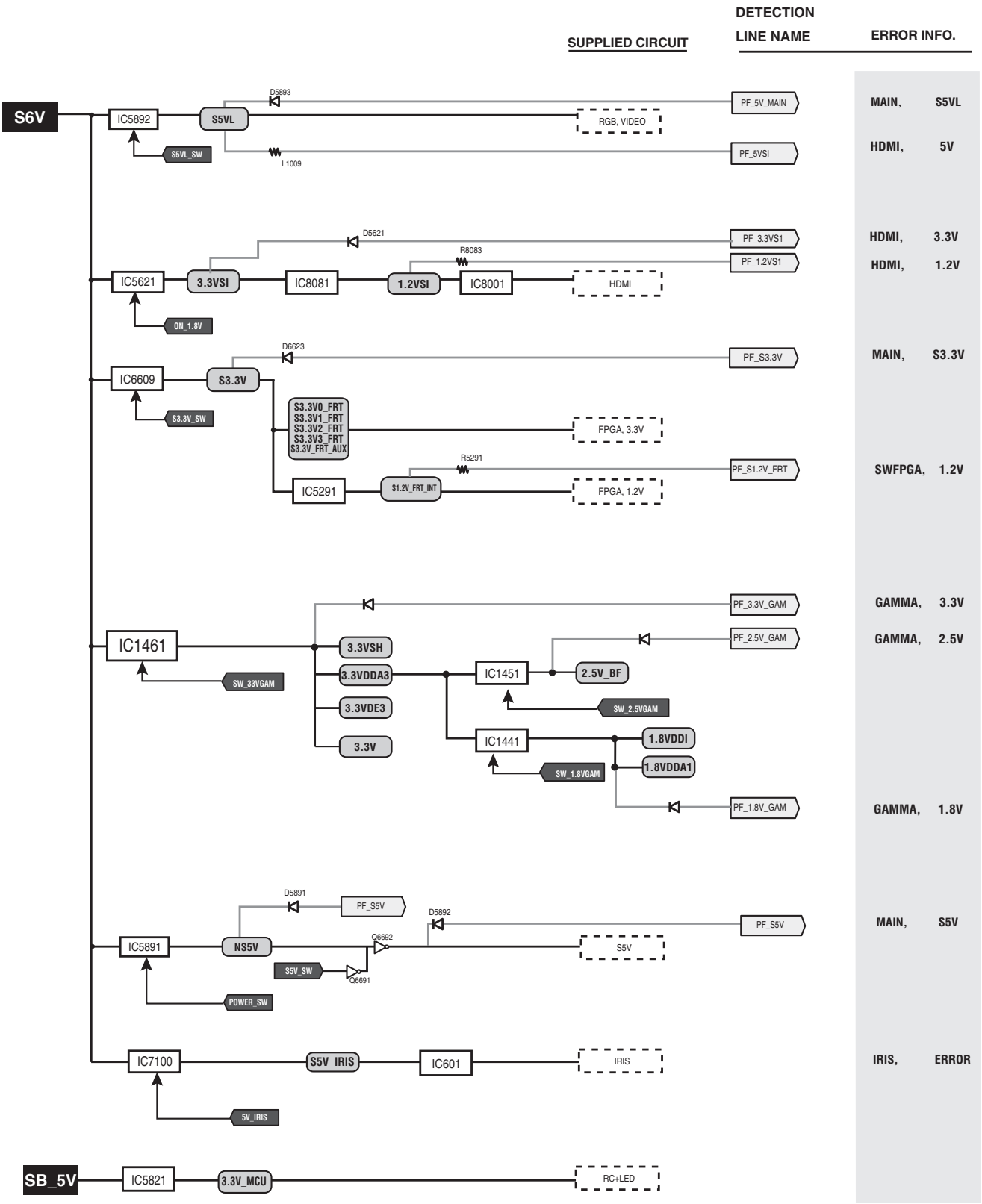
Error information table

IC	Pin	Signal Name	Connection Lines	Error Information	Failure Area
IC5201 XC3S50A	164	PF_KEY	3.3V_KEY , 2.5V_KEY, 1.8V_KEY ™ 3.3VBF, 2.5V_BF, 1.2VBF	KS&DL	KEYSTONE(IC2301) DAY LIGHT VIEW(IC4401)
	202	PF_3.3V_GAM	3.3V_GAM	GAMMA, 3.3V	3.3V Gamma on Main
	227	PF_2.5V_GAM	2.5V_GAM	GAMMA, 2.5V	2.5V Gamma on Main
	123	PF_1.8V_GAM	1.8V_GAM	GAMMA, 1.8V	1.8V Gamma on Main
	122	PF_15V_GAM	15.5V_GAM	SH&PANEL, 15.5V	15V Gamma on Main
	73	PF_5VSI	5VSI	HDMI, 5V	5V HDMI on Main
	166	PF_3.3VSI	3.3VSI	HDMI, 3.3V	3.3V HDMI&BUFFER on Main
	167	PF_1.2VS1	1.2VS1-1	HDMI, 1.2V	1.2V HDMI on Main
	220	PF_3.3V_AD	3.3V_AD	ADC, 3.3V	ADC(ISL51002)&BUFFER
	13	PF_1.8VD_AD	1.8VD_A/D	ADC, 1.8VD	ADC(ISL51002)
	14	PF_1.8VA_AD	1.8VA_A/D	ADC, 1.8VA	ADC(ISL51002)
	11	PF_S-6V_AV	S-6V	AV, S-6V	S-6V on Main/AV
	121	PF_9V_LNS	9V_LNS	LENS, 9V	9V Lens Drive
	71	PF_15V_LNS	15V_LNS	LENS, 15V	15V Lens Drive
	245	PF_S3.3V	S3.3V	MAIN, S3.3V	S3.3V on Main
	168	PF_S5V	S5V	MAIN, S5V	S5V ADC on Main
	226	PF_S5V_MAIN	S5VL	MAIN, S5VL	5V on Main
	204	PF_12V_FILTER	12V_ID, 12V	AUDIO&ID 12V	AUDIO SW, LAMP ID Drive
	104	FAN_PLS[0]	FN901 Power & Fan Lock	FN901,	FN901 Power & Fan Lock
	222	FAN_PLS[1]	FN902 Power & Fan Lock	FN902,	FN902 Power & Fan Lock
	224	FAN_PLS[2]	FN903 Power & Fan Lock	FN903,	FN903 Power & Fan Lock
	107	FAN_PLS[3]	FN904 Power & Fan Lock	FN904,	FN904 Power & Fan Lock
	225	FAN_PLS[4]	FN905 Power & Fan Lock	FN905,	FN905 Power & Fan Lock
	192/ 191/ 252	FAN_PLS[5/6/7]	FN906, FN907, FN908 Power & Fan Lock	FN906,907,908	FN906, FN907, FN908 Power & Fan Lock
	251/ 237/ 216	FAN_PLS[8/9/10]	FN909, FN910, FN911 Power & Fan Lock	FN909,910,911	FN909, FN910, FN911 Power & Fan Lock
IC301 PW392	69	PF_1.2V_FRT	S1.2V_FRT_INT	SWFPGA, 1.2V	FPGA 1.2V
	343	FILTER_DET	Filter Cartridge Detection	FILTER, DET	Filter Cartridge Detection
IC5201	--	FPGASW CONFIG	FPGA Config	SWFPGA, ERROR	SWFPGA Config Error
	67, 8	SHUTTER_POSI1 SHUTTER_POSI2	Shutter Operation	SHUTTER, ERROR	Shutter Operation Error
	--	IRIS EEROR	Iris Operation	IRIS, ERROR	Iris Operation Error

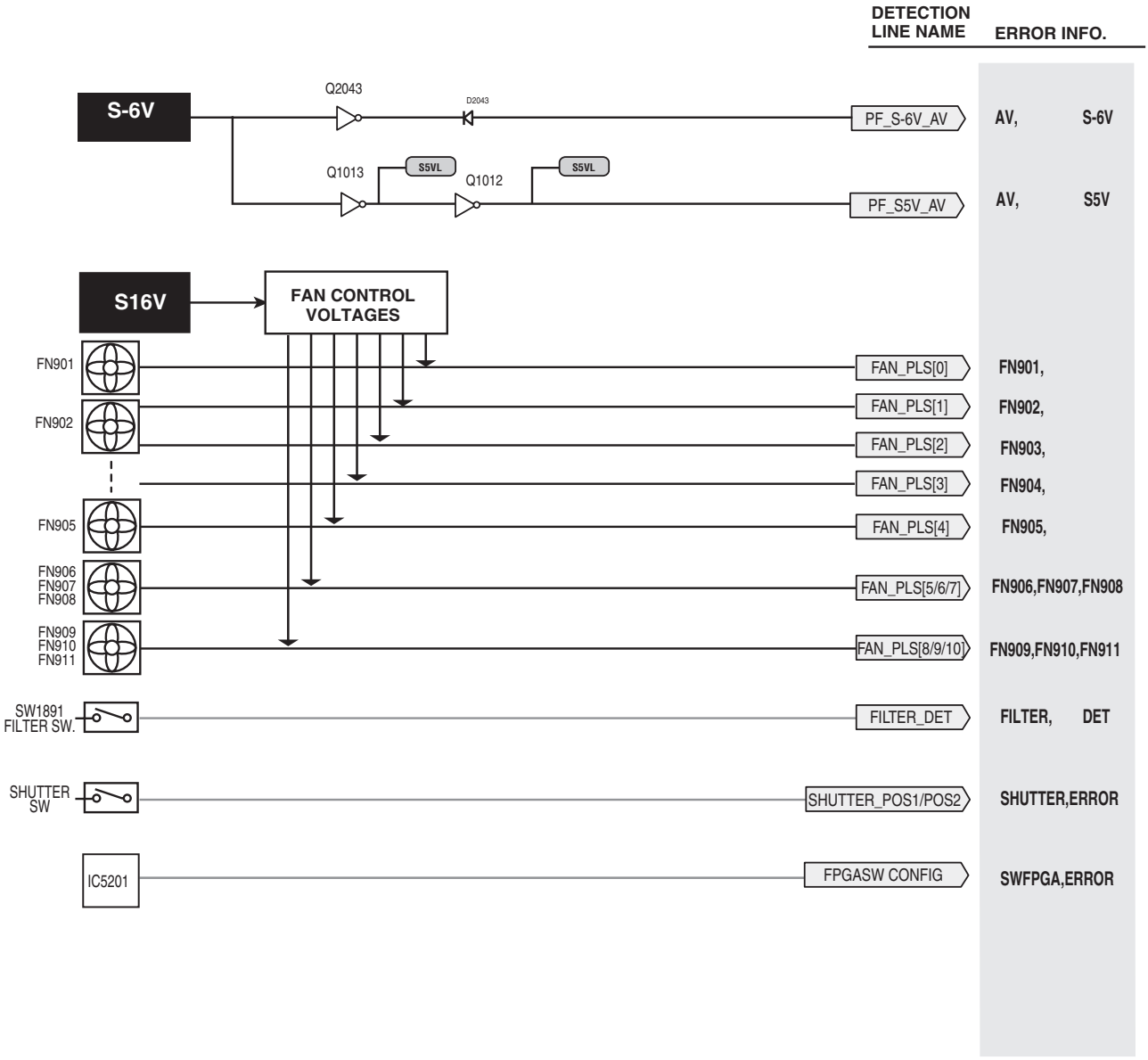
Power failure detection tree



Power failure detection tree



Sensor & detection switches



Error Log

This projector provides the error history log function. To check the logs, you need to enter the service mode and select Group No. "220" and item No. "0" to "49". The error code is displayed on the data column. The description of the error code is listed on the table below.

* How to enter the service mode and select the group, item and data value, see "Service Adjustment Menu Operation".

Group No.	Item No.	Data (Error Code)
220	0	✻ <- Latest Error
	1	✻
	2	✻
	3	✻
	:	:
	:	:
	49	✻

Error	Error code	Error infomation (See power failure detection system)	Error code	Error infomation (See power failure detection system)
Normal	0	-		
Power failure	1000	KS&DL,	1014	MAIN, S3.3V
	1001	GAMMA, 3.3V	1015	MAIN, S5V
	1002	GAMMA, 2.5V	1016	MAIN, S5VL
	1003	GAMMA, 1.8V	1017	AUDIO&ID, 12V
	1004	SH&PANEL, 15.5V	1018	SWFPGA, 1.2V
	1005	HDMI, 5V	1019	FN901,
	1006	HDMI, 3.3V	1020	FN902,
	1007	HDMI, 1.2V	1021	FN903,
	1008	ADC, 3.3V	1022	FN904,
	1009	ADC, 1.8VD	1023	FN905,
	1010	ADC, 1.8VA	1024	FN906,907,908,
	1011	AV, S-6V	1025	FN909,910,911,
	1012	LENS, 9V	1026	FILTER, DET
	1013	LENS, 15V		
Temperature Error	2000	Sensor A detects abnormal temperature. (IC1692-ROOM)		
	2001	Sensor A fails measurement. (IC1692)		
	2100	Sensor B detects abnormal temperature. (IC1816-LAMP)		
	2101	Sensor B fails measurement. (IC1816)		
	2102	Sensors B-A temperature error.		
	2200	Sensor C detects abnormal temperature. (IC1814-PANEL)		
	2201	Sensor C fails measurement. (IC1814)		
	2202	Sensors C-A temperature error.		
Lamp Error	3000	Lamp1 fails on		
	3001	Lamp1 goes out		
	3002	Communication error on lamp1		
System Error	4000	SWFPGA, ERROR		
Shutter Error	5000	SHUTTER,ERROR		
Filter Error	6000	Air filter unit		
IRIS Error	7000	IRIS, ERROR		

How to reset the Error Log

1. Enter the Service Mode, and select Group No. "220" and Item No. "50".
2 The history log will be reset when the data value is set to "10". The value automatically returns to "0".

* How to enter the service mode and select the group, item and data value, see "Service Adjustment Menu Operation".

Diagnosis of power failure with RS-232C port

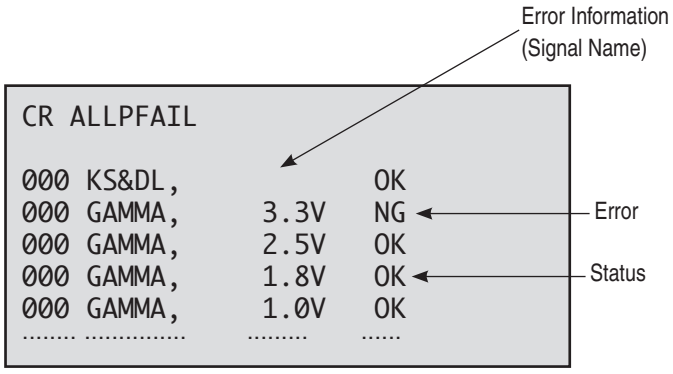
This projector provides a function to get the error information of the projector by using the RS-232C serial port for the power failure diagnosis.
The further error information of the power failure and fan failure can be found out by using this function.

Diagnosis procedure

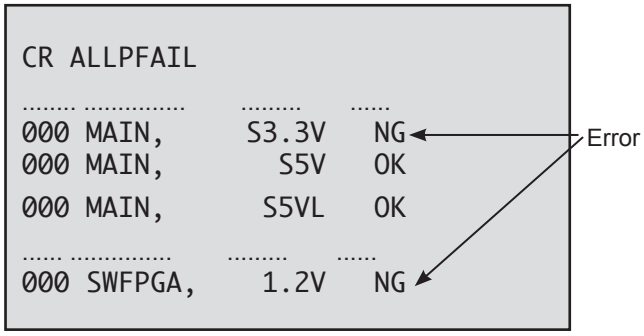
1 Connect a RS-232C serial cross cable to CONTROL PORT on the projector and serial port on the PC.
2 Launch a communication software "Hyper terminal" provided with PC and setup the communication condition as follows;

Baud rate	: 9600 / 19200 bps
Parity check	: none
Stop bit	: 1
Flow control	: none
Data bit	: 8

3 Turn on the projector. Check that the LED shows a power failure. (All the LEDs are blinking)
4 Type a diagnosis command of the power failure “CR ALLPFAIL” and press a "ENTER" key within 1 second on the command window of the software.
The error information will be listed on the window as the right.
Check the status column. If “NG” is listed, the power failure occurs on its signal line (Power Line Name). In case of the right table, this error information means that the power failure occurs on the 3.3V power supply on the GAMMA (Digital Gamma) circuit on the main board (GAMMA, 3.3V). Check if the parts connected to 3.3V power supply line on the Gamma circuit are defective.



Also the error information may be listed multiple as the below;
In the above case, 2 kinds of causes are considered. One is the power failure occurs on the multiple places at the same time, other is a power failure affects multiple power supply lines even if the failure occurs on the single place.
In the first case, Check if the parts connected to the multiple power supply lines are defective. In the later case, determine a failure point referring to the power supply flow chart on previous page. Basically, if the power failure occurs on the upper side of power supply, the power failure is also detected on lower side of power supply frequently. If the failure occurs on the lower side of power supply, it is lightly affected to the upper side of the power supply. In the above case, because the failure occurs on the S3.3V power supply on the main board (MAIN, S3.3V), the failure is also detected on the 1.2V power supply on the main board (SWFPGA, 1.2V).

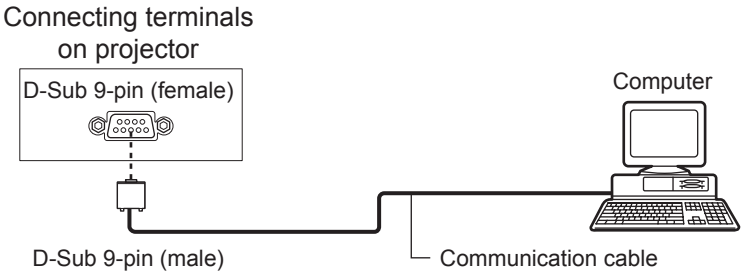


* See "Power Failure Detection System" for further description of the Error Information.

Serial control interface

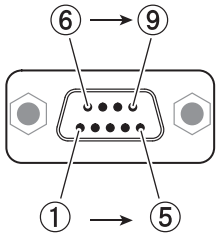
The serial connector which is on the connector panel of the projector conforms to the RS-232C interface specification, so that the projector can be controlled by a personal computer which is connected to this connector.

■ Connection



■ Pin assignments and signal names

D-Sub 9-pin (female) Outside view



Pin No.	Signal name	Contents
①	—	NC
②	TXD	Transmitted data
③	RXD	Received data
④	—	NC
⑤	GND	Earth
⑥	—	NC
⑦	CTS	Connected internally
⑧	RTS	
⑨	—	NC

■ Communication conditions

Signal level	RS-232C-compliant
Sync. method	Asynchronous
Baud rate	19 200 bps
Parity	None

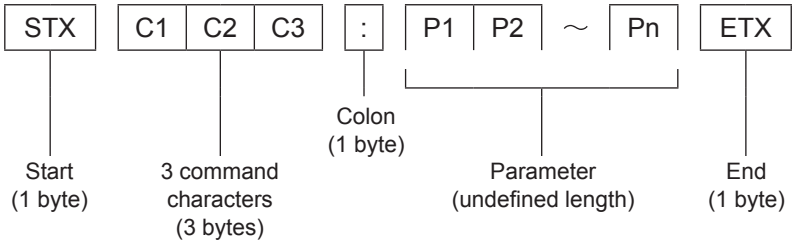
Character length	8 bits
Stop bit	1 bit
X parameter	None
S parameter	None

Note

• When [AMX D. D.] function is set to [On] under the [Network] menu, the Baud rate will change to 9 600 bps automatically.

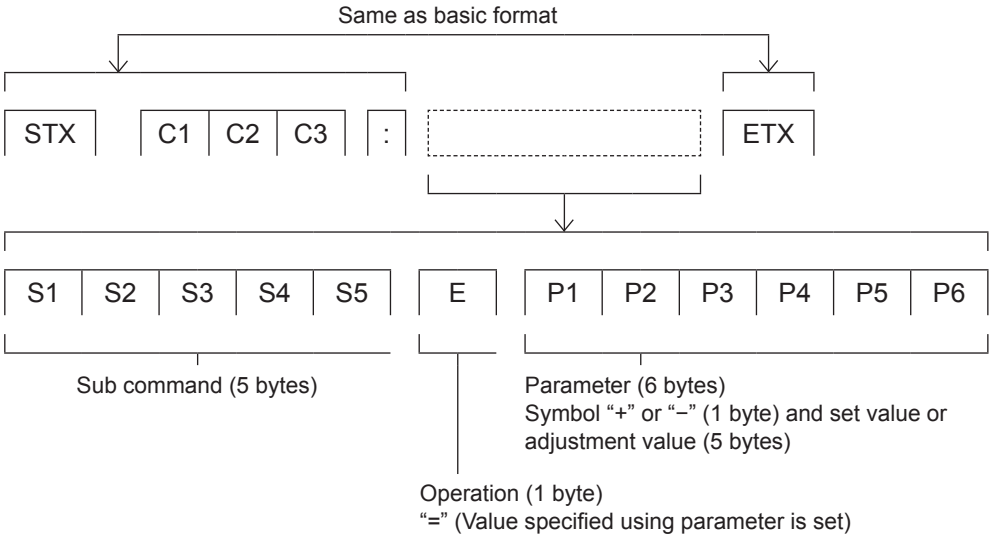
■ Basic format

＊ Transmission from the computer begins with STX, then the command, parameter, and ETX are sent in this order. Add parameters according to the details of control.



＊ When sending commands without parameters, a colon (:) is not necessary.

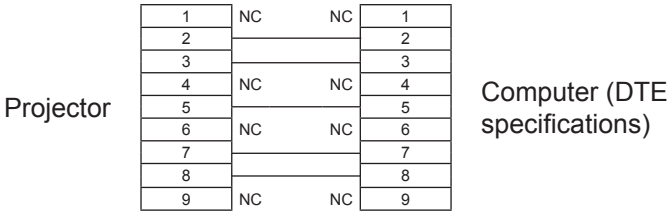
■ Basic format (with sub command)



＊ When transmitting a command which does not need a parameter, the operation (E) and parameter are not necessary.

■ Cable specifications

[When connected to a computer]



■ Control commands

When controlling the projector from a computer, the following commands are available:

[Projector control command]

Command	Control contents	Remarks
PON	Power [ON]	
POF	Power [OFF]	
IIS	INPUT selection	(Parameter) PC1 = PC1 PC2 = PC2 RG1 = RGB1 RG2 = RGB2 CP1 = INPUT 2 :Y, Pb/Cb, Pr/Cr CP2 = INPUT 3 :Y, Pb/Cb, Pr/Cr VD1 = INPUT 2 VIDEO VD2 = INPUT 3 VIDEO SVD = S-VIDEO DVI = DVI HD1 = HDMI SCT = Scart
OSH	AV mute function	Turning off the projection and sound temporarily. Sending the command switches ON/OFF. Do not switch ON/OFF in a short period of time.
OFZ	Freeze	Sending the command switches ON/OFF.
AUU	Volume up	
AUD	Volume down	
DZU	D. ZOOM up	
DZD	D. ZOOM down	
QPW	Power query	000 = Standby 001 = Power on
Q$S	Lamp condition query	(Call back) 0 = Stand-by 1 = Lamp ON control active 2 = Lamp ON 3 = Lamp OFF control active

Control Port Functions

System Control I/O Port Functions (PW392, IC301)

PIN	PORT	SIGNAL	FUNCTION	I/O	NOTE
	A18	HSOUT	Horiz. Sync Signal Input	I	
	A19	LENS_L_POSI_EX	Lens Shift Position L Detection Input	I	
	A20	PW_SDA3	IIC Bus SDA3	I/O	
	A27	KEY11	Key Control Input 11	I	
	A28	KEY31	Key Control Input 31	I	
	A29	KEY03	Key Control Input 03	I	
	B18	IN0HS	Horiz. Sync Signal Input	I	
	B19	LENS_R_POSI_EX	Lens Shift Position R Detection Input	I	
	B20	PW_SCL3	IIC Bus SCL3	O	
	B22	FAN_DRIVE	Fan Drive Signal Output	O	H: On
	B23	TRM2	Terminal Switch 2 Output	O	H: On
	B25	KS_CRSTN	PW610 Reset Signal Output	O	H: Reset
	B27	KEY21	Key Control Input 21	I	
	B28	KEY02	Key Control Input 02	I	
	B29	POWER_ON	Key Control Input Power On	I	L: Power On
	C18	IN0VS	Vert. Sync Signal Input	I	
	C19	LENS_BOT_EX	Lens Shift Position Input Bottom	I	
	C23	TRM1	Terminal Switch 1 Output	O	H: On
	C24	DSUB_DDC_SW	DDC Switch Control (DSUB)	O	H: Normal
	C25	SW_1.8VGAM	SW_1.8VGAM Switch Output	O	H: On
	C26	RST_S&H_SH	S/H Reset Output	O	H: On
	C27	KEY01	Key Control Input 01	I	
	C28	ON_15V	ON_15V Drive Signal	O	H: On
	C30	LAMP_DC_ON	LAMP_DC_ON Drive Output	O	H: On
	D19	LENS_TOP_EX	Lens Shift Position Input Top	I	
	D21	AV_SHUT_DOWN	Sound Mute Output	O	H: Mute
	D22	FILTER_DET	Filter Detect Input	I	L: Detected
	D24	OUT_DET_EXT	Audio Output Jack Detection	I	
	D25	SW_2.5VGAM	SW_2.5VGAM Drive Signal Output	O	H: On
	D26	SW_1.8V_KS	SW_1.8V Drive Signal Output(KS)	O	H: On
	D27	SW_2.5V_KS	SW_2.5V Drive Signal Output(KS)	O	H: On
	D28	PW_MASTER_SD0		O	
	D29	SW_3.3V_KS	SW_3.3V Drive Signal Output(KS)	O	H: On
	E25	SW_3.3VGAM	SW_3.3VGAM Drive Signal Output	O	H: On
	E26	FILTER_LED	Filter LED Drive Output	O	H: On
	E27	SHUTTER_LED	Shutter LED Drive Output	O	H: On
	E28	LAMP_LED	LAMP LED Drive Output	O	H: On
	E29	TEMP_LED	WARNING LED Drive Output	O	H: On
	E30	LAMP_REP_LED	LAMP REPLACE LED Drive Output	O	H: On
	F26	MUTE_SP	Sound Mute Drive output	O	H: Mute-On
	F27	XRST	Reset for TE7783	O	L: Reset
	F28	XSTDBYEN	TE7783 Standby Mode Disable/Enable	O	H: Standby Disable
	F29	POWER_LED	Power LED Drive Output	O	H: On
	F30	POWER_SW_LAN	Power Switch for LAN	O	H: On
	G26	KS_THRWEN	3 Wire Select KS	O	L: Enable
	G27	PW_SDATA_OUT	3 Wire Data	O	
	G28	RST_GAM_PW	Gamma IC Reset	O	H: Reset
	H30	OUT_SW	Monitor Output Switch Drive	O	H: Out
	J1	VIDEO	Video Signal Input	I	
	K1	S-C_PW	S-C Signal Input	I	
	K3	S-Y_PW	S-Y SIgnal Input	I	
	K26	ZOOM-	Zoom- Drive Output	O	
	K27	LAMP_PWM	Lamp Control Output	O	
	K29	FOCUS+	Focus+ Drive Output	O	
	K30	FOCUS-	Focus- Drive Output	O	
	L26	PW_SDA0	IIC Bus SDA0	I/O	
	L27	PW_SCL0	IIC Bus SCL0	O	
	L30	ZOOM+	Zoom+ Drive Output	O	
	M1	G_IN_PW	Green Signal Input	I	
	M2	B_IN_PW	Blue Signal Input	I	
	M26	RXD_MCI	RXD for Network	I	
	M27	TXD_MCI	TXD for Network	O	
	N1	SCART_B	Blue Signal Scart Input	I	
	N2	R_IN_PW	Red Signal Input	I	
	P1	SCART_CV_PW	Composite Video Input Scart	I	
	P2	SCART_G	Green Signal Scart Input	I	
	R3	SCART_R	Red Signal Scart Input	I	
	T2	SCART_G	Green Signal Scart Input (Sync On G)	I	
	U1	Y_IN_PW	Y Signal Input (Component)	I	
	U2	Y_IN_PW	Y Signal Input (Component)	I	

Control Port Functions

PIN	PORT	SIGNAL	FUNCTION	I/O	NOTE
	U3	CB_IN_PW	CB Signal Input	I	
	V2	CR_IN_PW	CR Signal Input	I	
	Y1	HS2_PW	Horiz. Sync Signal Input 2	I	
	AB3	ON_5V	ON_5V Drive Signal Output	O	
	AB4	VS2_PW	Vert. Sync Signal Input 2	I	
	AG10	FILTER_COUNT	Filter Scroll Count Input	I	
	AG11	PW_R/C_FRONT	RC Input Front	I	
	AG12	EX_PW_UART	UART RXD	I	
	AG18	PW_DHS	Horiz. Sync Signal Output	O	
	AH10	PW_R/C_TOP	RC Input Top	I	
	AH11	PW_R&W_WIRED	RC Input Rear and Wired	I	
	AH12	PW_EX_UART	UART_TXD	O	
	AH18	PW_DVS	Vert. Sync Signal Output	O	
	AH22	PRESS_SENS	Pressure Sensor Input	I	
	AJ22	LENS_CH_POSI_EX	Lens Shift H Center Position Detect	I	
	AK21	WINDS_SENS	Wind Sensor Input	I	
	AK22	LENS_CV_EX	Lens Shift V Center Position Detect	I	

FPGA (XC3S50A, IC5201)

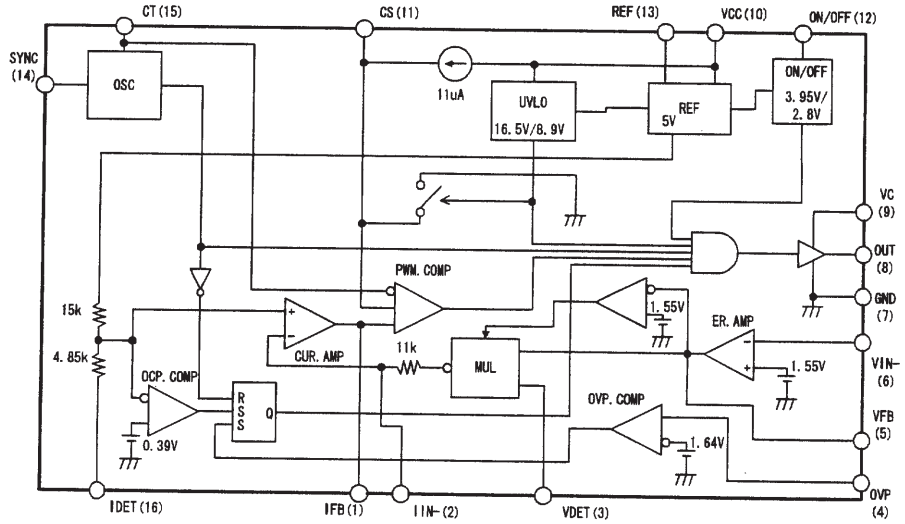
PIN	PORT	SIGNAL	FUNCTION	I/O	NOTE
	A3	PW_SCL0	IIC Bus SCL0	I	
	B3	PW_SDA0	IIC Bus SDA0	I/O	
	B8	CG_HSYNC	Horiz. Sync Signal Input	I	
	C1	PF_S3.3V	Power Failure Detection Input S3.3V	I	
	C2	PF_3.3V_AD	Power Failure Detection Input 3.3V AD	I	
	C4	SW_PF3.3V	PF_3.3V Switch	O	
	C8	CG_VSYNC	Vert. Sync Signal Input	I	
	C15	SHUTTER_SW+	Shutter Switch Drive +	O	
	D3	PF_3.3V_KS	Power Failure Detection Input 3.3V KS	I	
	D4	PF_2.5V_KS	Power Failure Detection Input 2.5V KS	I	
	D15	SHUTTER_SW-	Shutter Switch Drive -	O	
	D16	VSOUT	Vert. Sync Signal Input	I	
	E1	PF_1.8V_KS	Power Failure Detection Input 1.8V KS	I	
	E14	SHUTTER_POSI1	Shutter Position Detect	I	
	F1	PF_1.2VS1	Power Failure Detection Input 1.2VS1	I	
	F4	PF_3.3VS1	Power Failure Detection Input 3.3VS1	I	
	F11	PF_FN906	Power Failure Detection and Fan Lock Input FN906	I	
	F12	PF_FN903	Power Failure Detection and Fan Lock Input FN903	I	
	F13	SHUTTER_POSI2	Shutter Position Detect	I	
	G1	PF_5VS1	Power Failure Detection Input 5VS1	I	
	G11	PF_FN905	Power Failure Detection and Fan Lock Input FN905	I	
	H3	PF_3.3V_GAM	Power Failure Detection Input 3.3V GAM	I	
	J3	PF_2.5V_GAM	Power Failure Detection Input 2.5V GAM	I	
	J7	PF_1.8V_GAM	Power Failure Detection Input 1.8V GAM	I	
	J12	IN0VS	Vert. Sync Signal Output	O	
	J13	IN0HS	Horiz. Sync Signal Output	O	
	K3	PF_15V_GAM	Power Failure Detection Input 15V GAM	I	
	K5	PF_5V_PJ	Power Failure Detection Input 5V PJ	I	
	K6	PF_9V_LNS	Power Failure Detection Input 9V LNS	I	
	L5	PF_15V_LNS	Power Failure Detection Input 15V LNS	I	
	L6	PF_6V_MAIN	Power Failure Detection Input 6V MAIN	I	
	L7	PF_1.8VA_AD	Power Failure Detection Input 1.8VA_A/D	I	
	L8	PF_12V_FILTER	Power Failure Detection Input 12V FILTER	I	
	L9	PF_S5V_AV	Power Failure Detection Input S5V AV	I	
	L10	PF_S-6V_AV	Power Failure Detection Input S-6V AV	I	
	M7	PF_FN904	Power Failure Detection and Fan Lock Input FN904	I	
	M8	PF_FN902	Power Failure Detection and Fan Lock Input FN902	I	
	N3	PF_FN901	Power Failure Detection and Fan Lock Input FN901	I	
	N5	PF_FN909	Power Failure Detection and Fan Lock Input FN909	I	

IIC Bus D/A Converter (M62393FP Fan Control, IC7801)

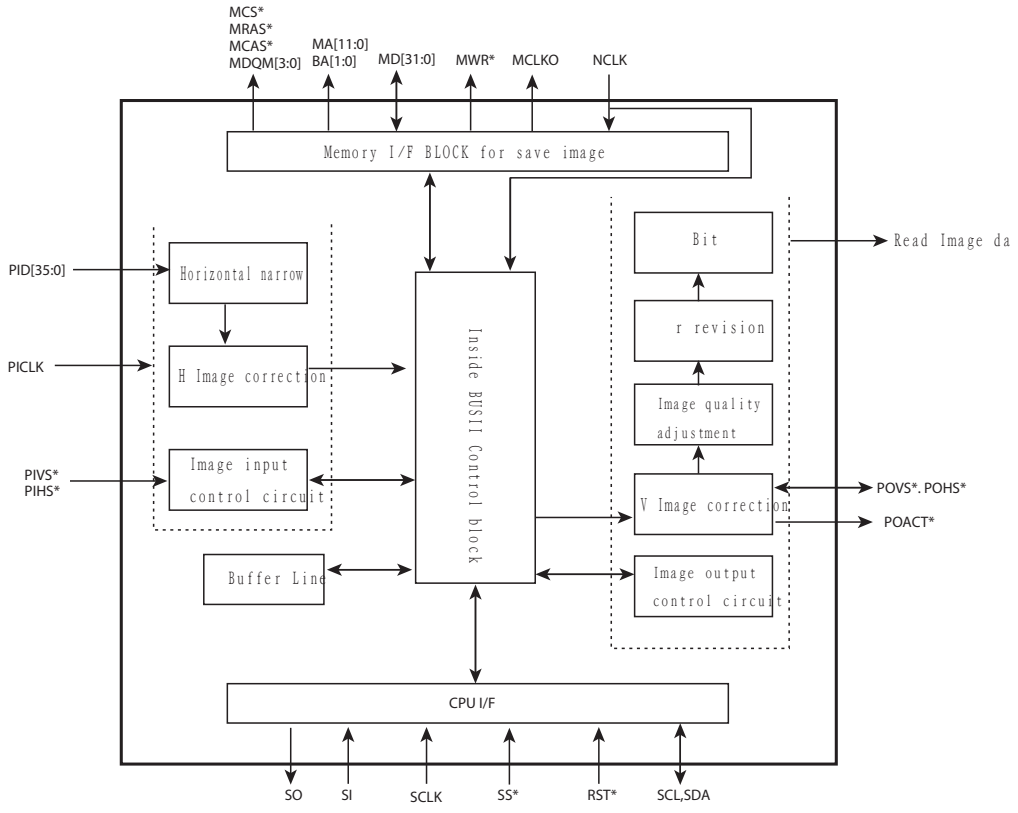
Pin No.	Function Name	Function	Pol.	Action	
				Stand-by	Power On
1	Reset Input		I	→	
2	PW_SCL0_S5V	IIC BUS SCL	I	→	
3	PW_SDA0_S5V	IIC BUS SDA	I/O	→	
4	FAN_CONT1	FAN_FN909, FN910, FN911 Control Voltage (Panel Cooling)	AO	→	0:FAN Max - 255:FAN Min
5	FAN_CONT2	FAN_FN906, FN907, FN908 Control Voltage (Panel Cooling)	AO	→	0:FAN Max - 255:FAN Min
7	FAN_CONT4	FAN_FN902 Control Voltage (PBS Cooling)	AO	→	0:FAN Max - 255:FAN Min
8	GND		-	→	
9	DAC Upper Ref. Voltage(CH5-CH8)		-	→	
10	GND		-	→	
11	DAC Upper Ref. Voltage (CH1-CH4)		-	→	
12	FAN_CONT3	FAN_FN904 Control Voltage (Lamp Cooling)	AO	→	0:FAN Max - 255:FAN Min
13	FAN_CONT7	FAN_FN905 Control Voltage (Exhaust)	AO	→	0:FAN Max - 255:FAN Min
14	FAN_CONT6	FAN_FN903 Control Voltage (Lamp Cooling)	AO	→	0:FAN Max - 255:FAN Min
15	FAN_CONT5	FAN_FN901 Control Voltage (Power Cooling)	AO	→	0:FAN Max - 255:FAN Min
16	Power for Output Buffer (4.5V - 5.5V)		-	→	
17	Power Supply +5V±10%		-	→	
18	Slave Address Setting Pin2 (Vdd)		I	→	H
19	Slave Address Setting Pin1 (Vdd)		I	→	H
20	Slave Address Setting Pin0 (Vdd)		I	→	H

IC Block Diagrams

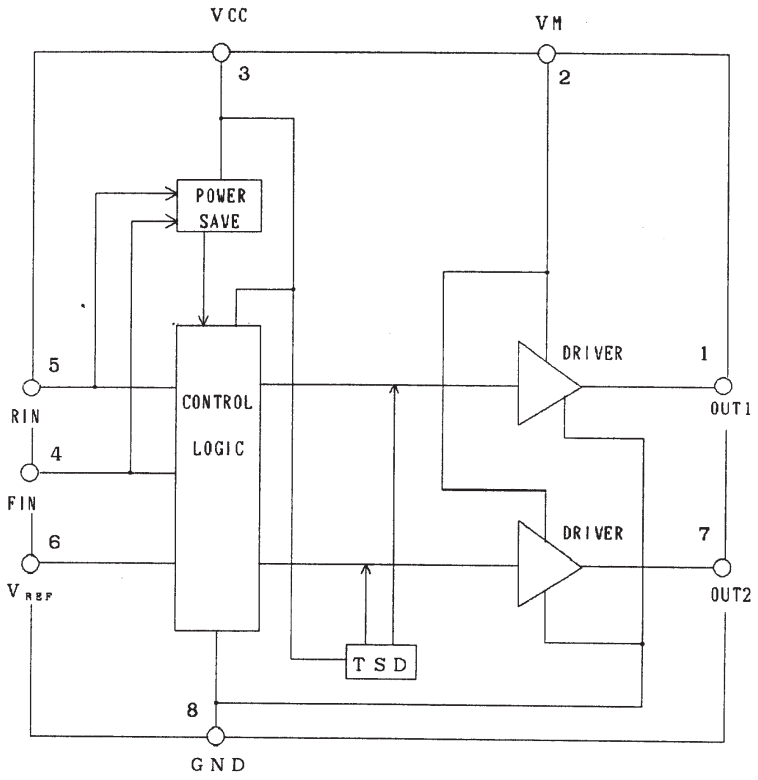
● FA5502M <P.F. control, IC682>



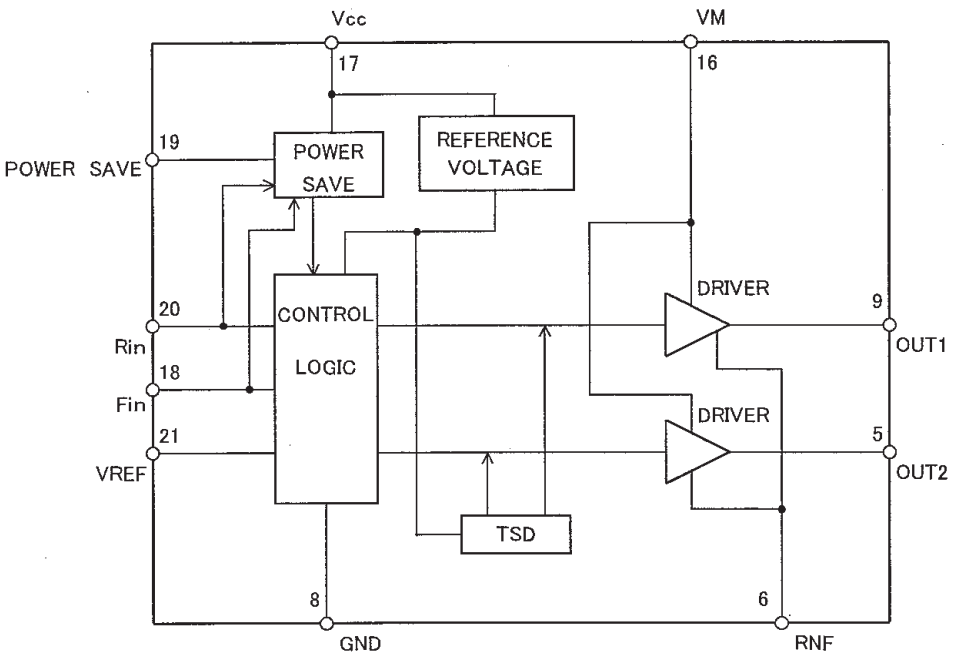
● IP00C783 <Keystone, IC2301>



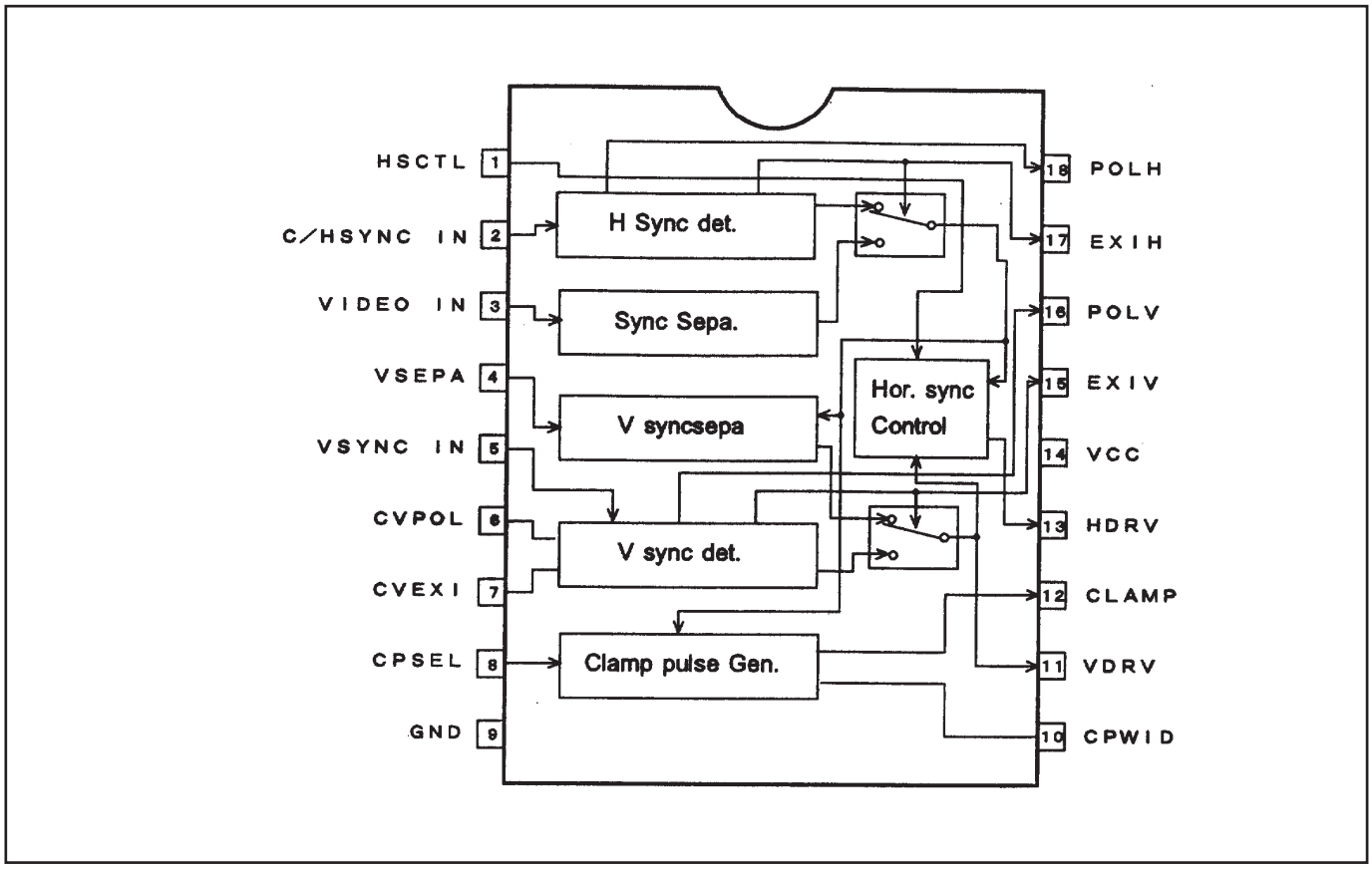
● BA6287 <Motor drive Focus,Zoom,Shutter IC5501,IC5521,IC5561>



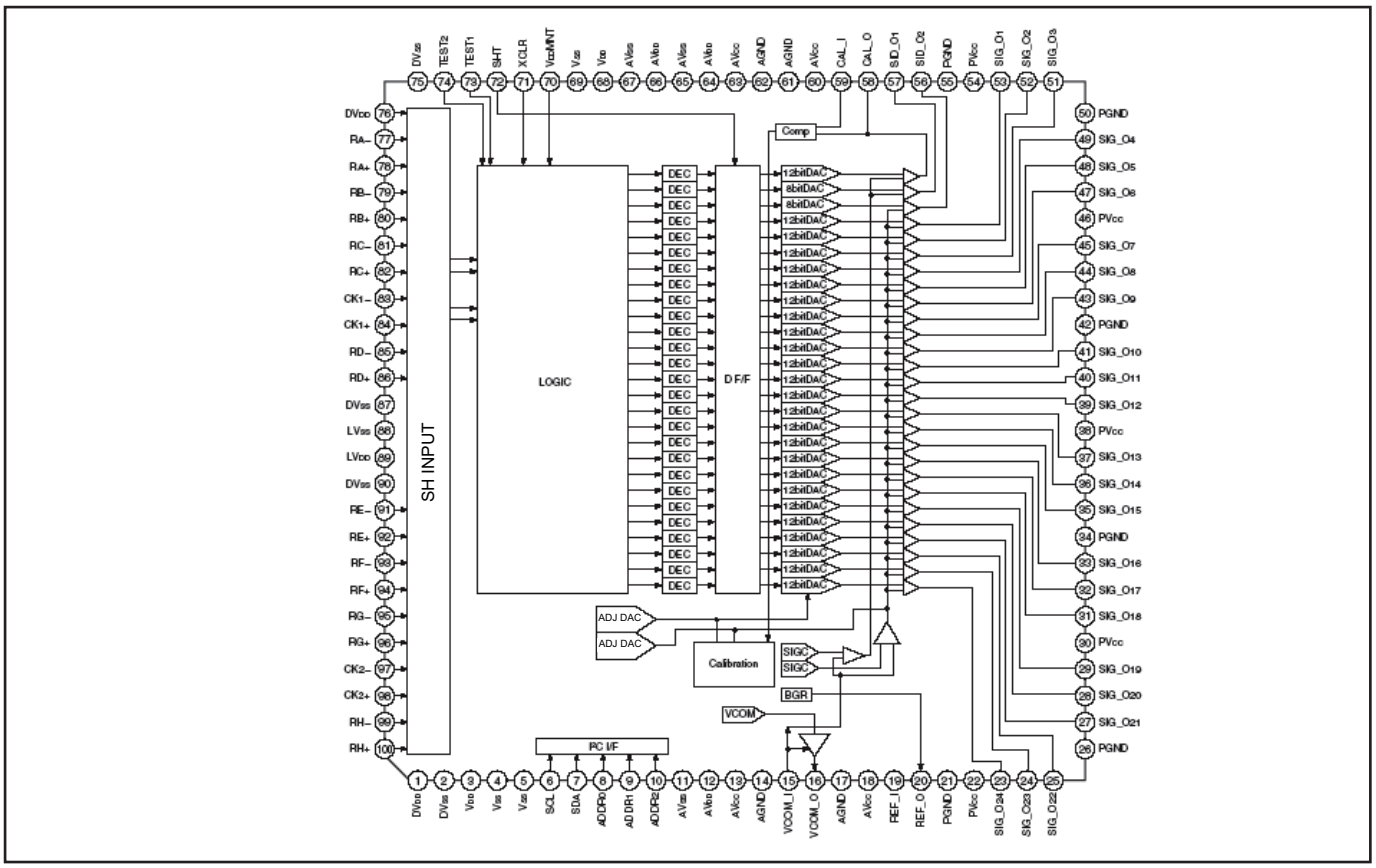
● BA6920<Motor drive lens shift Up/Down,Left/Right, IC6502,IC6521>



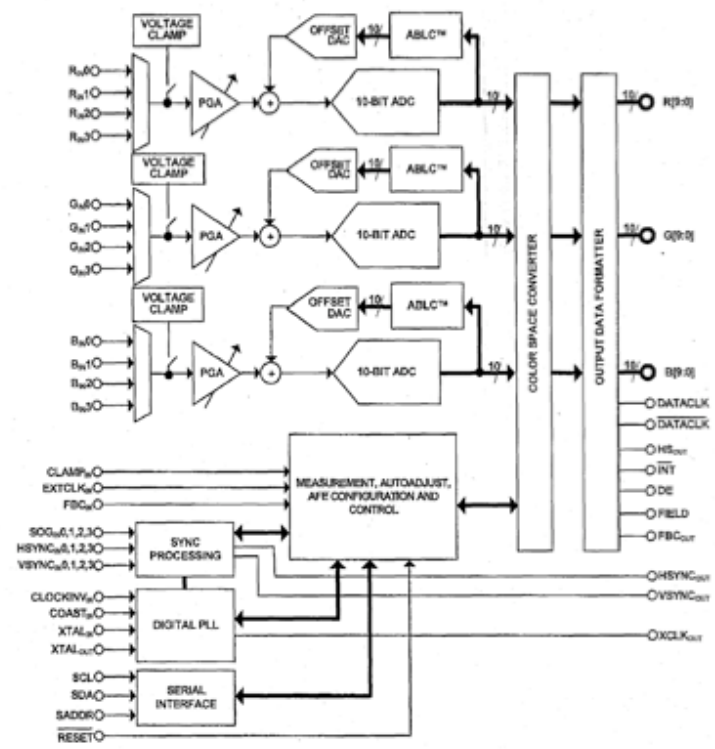
● BA7078 <Sync separator, IC1011>



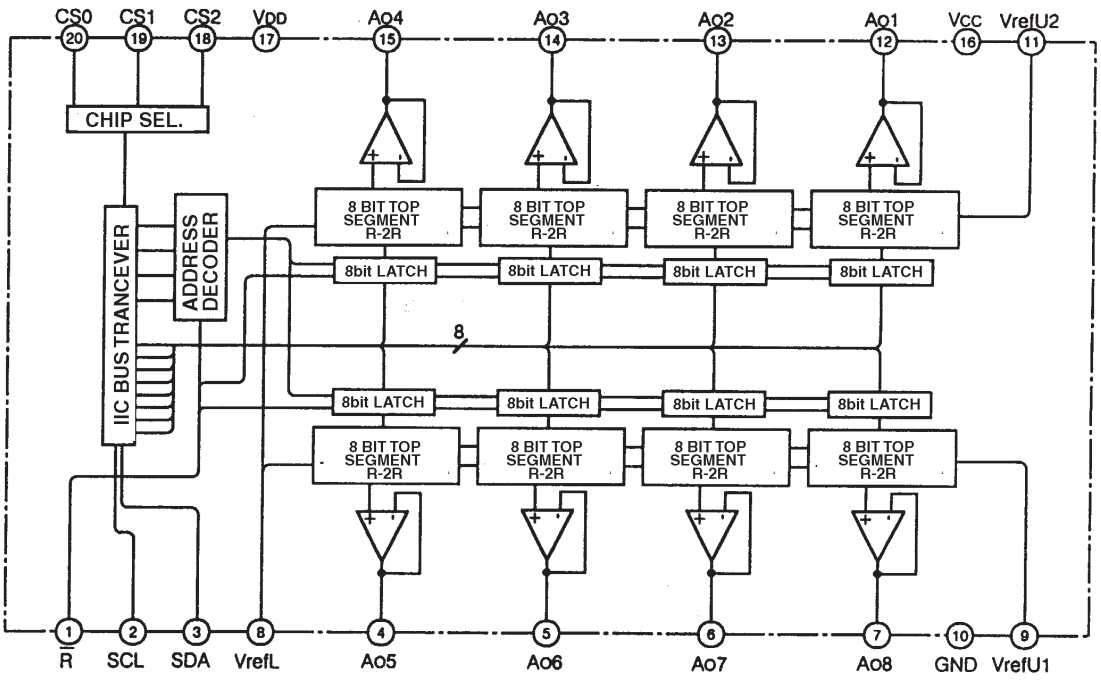
● CXA7010<S&H,IC1501,IC501,IC2501>



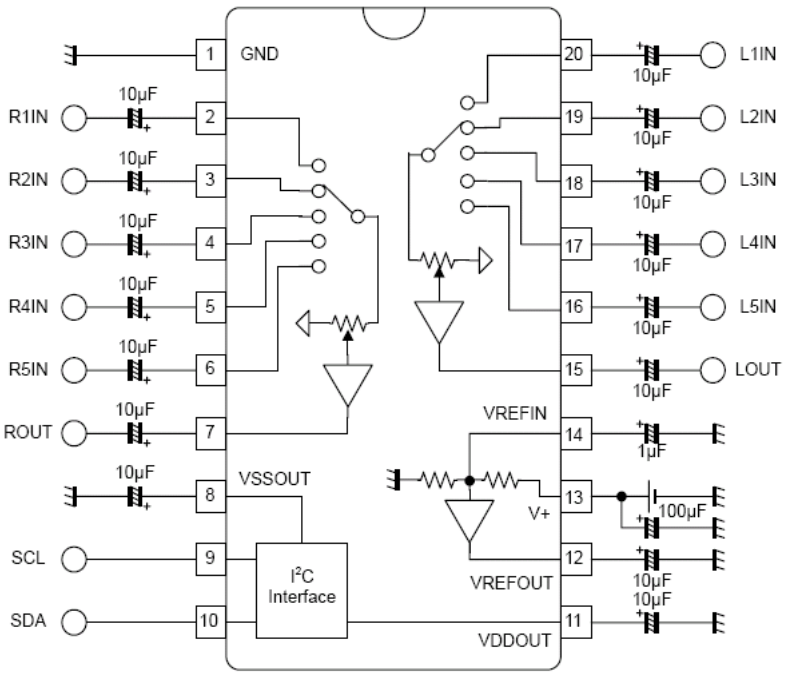
● ISL51002 <A/D converter, IC201>



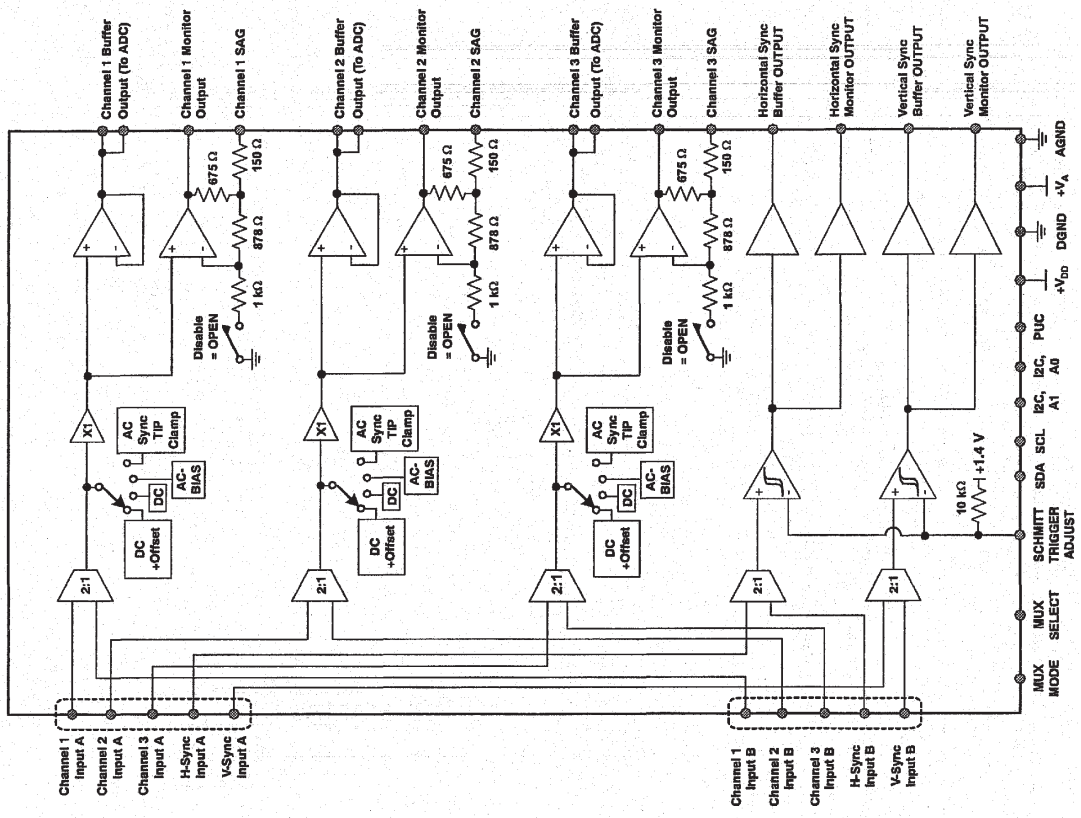
● M62393 <DAC, IC7801>



● NJW1156 <Audio Selector, IC5001>



● THS7347<3-CH Analog SW, IC5231,IC5251, IC5271>



● PW392 <Scaler, IC301>

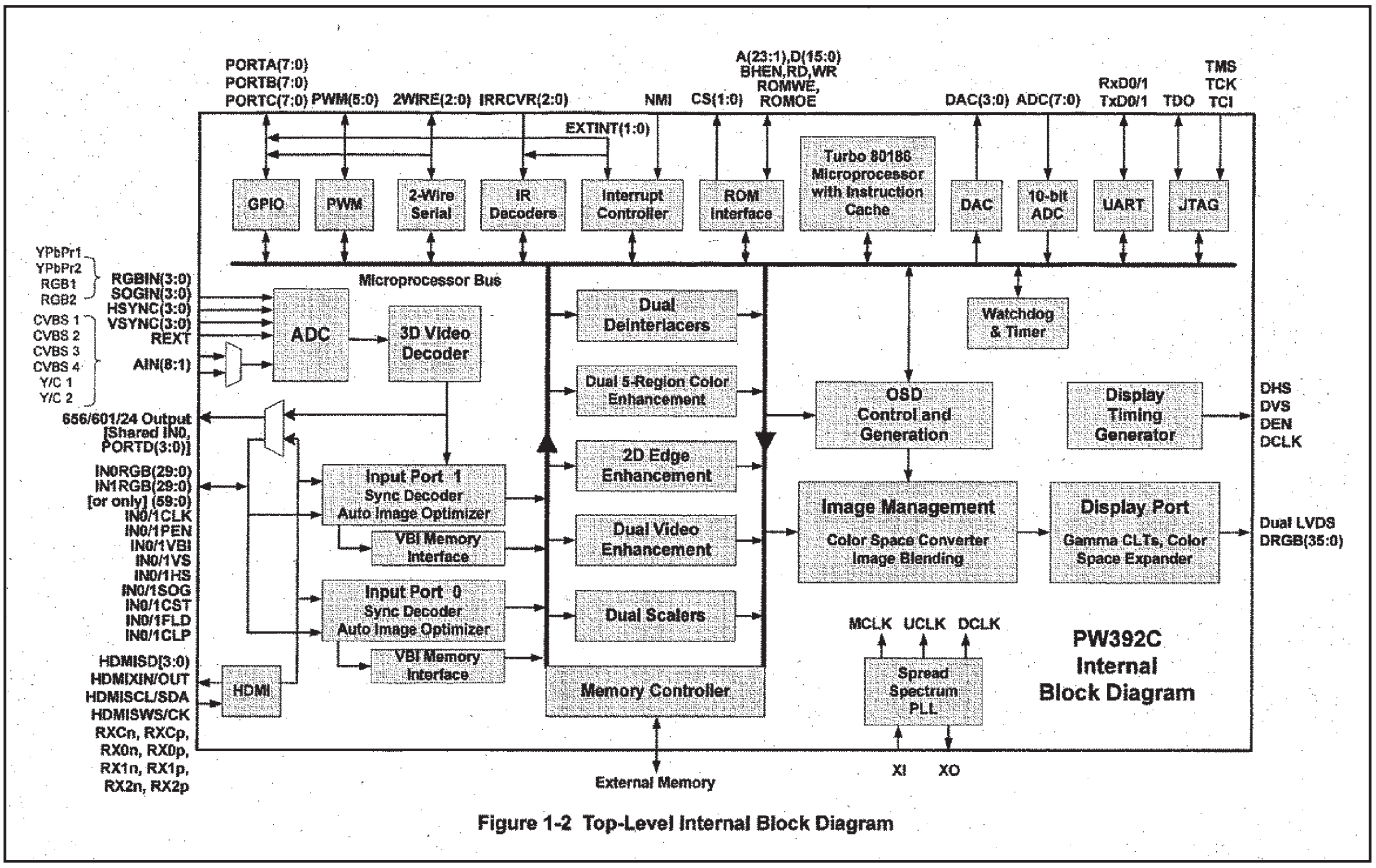
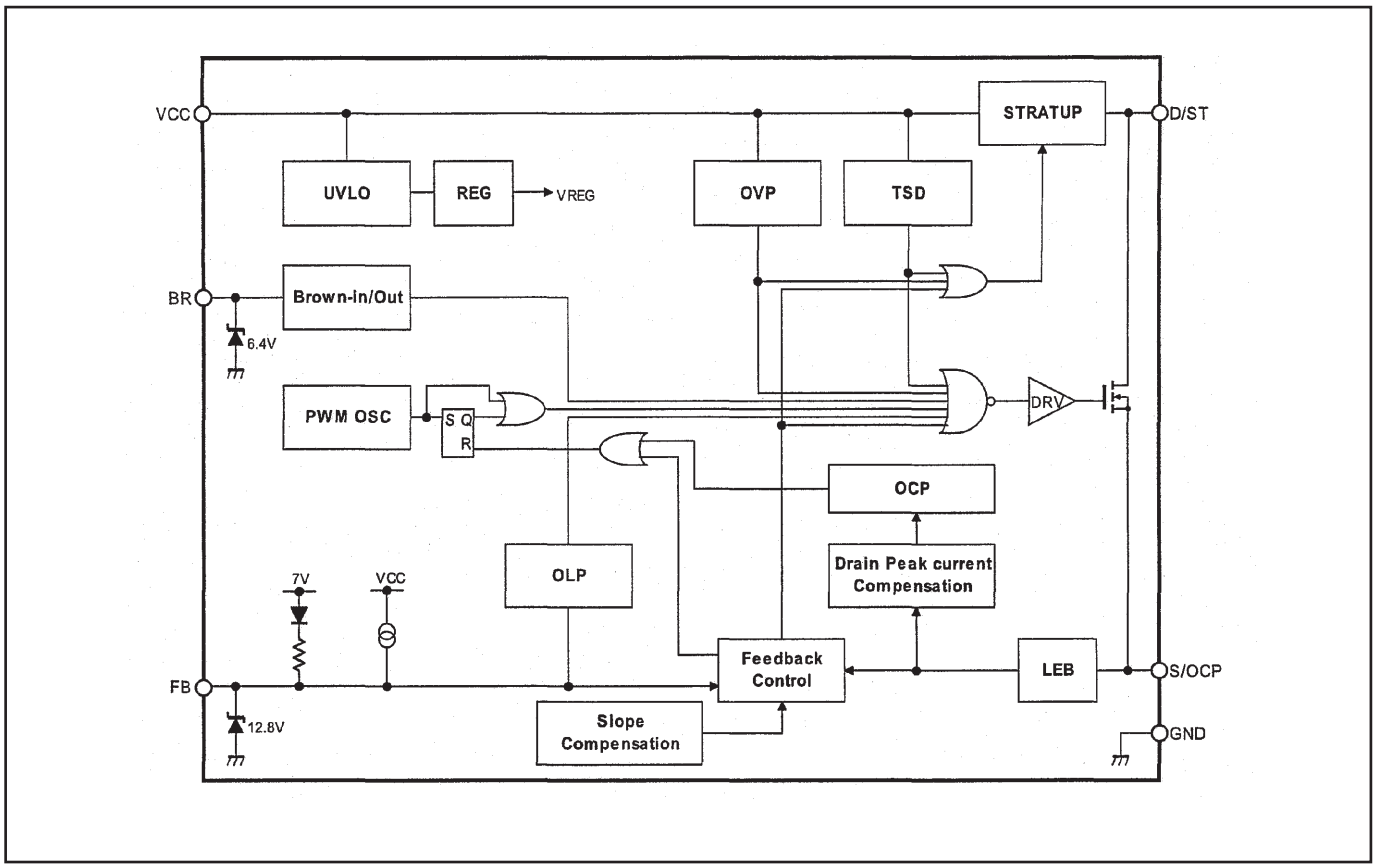
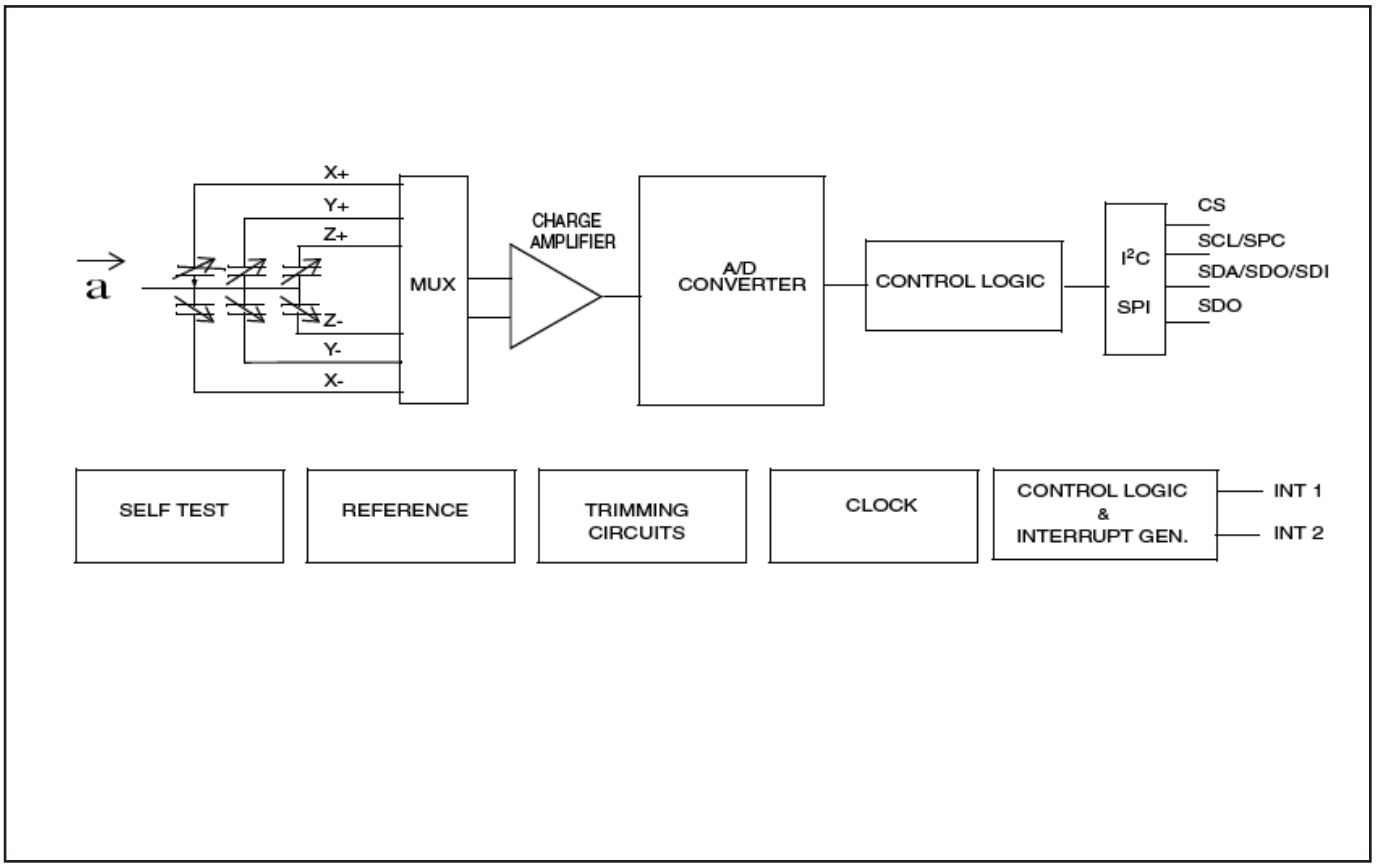


Figure 1-2 Top-Level Internal Block Diagram

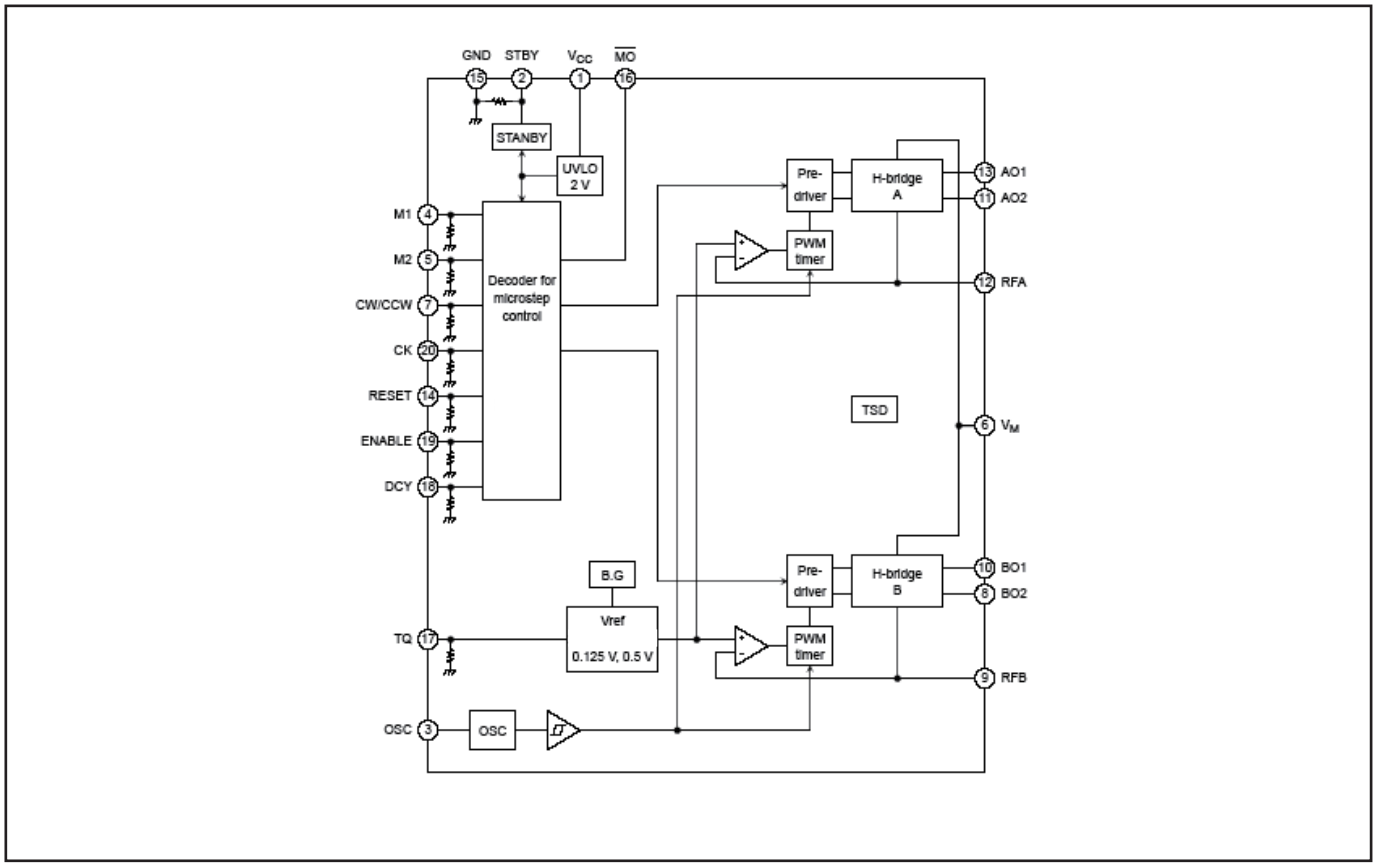
● STR-A6079 <Power switching, IC603>



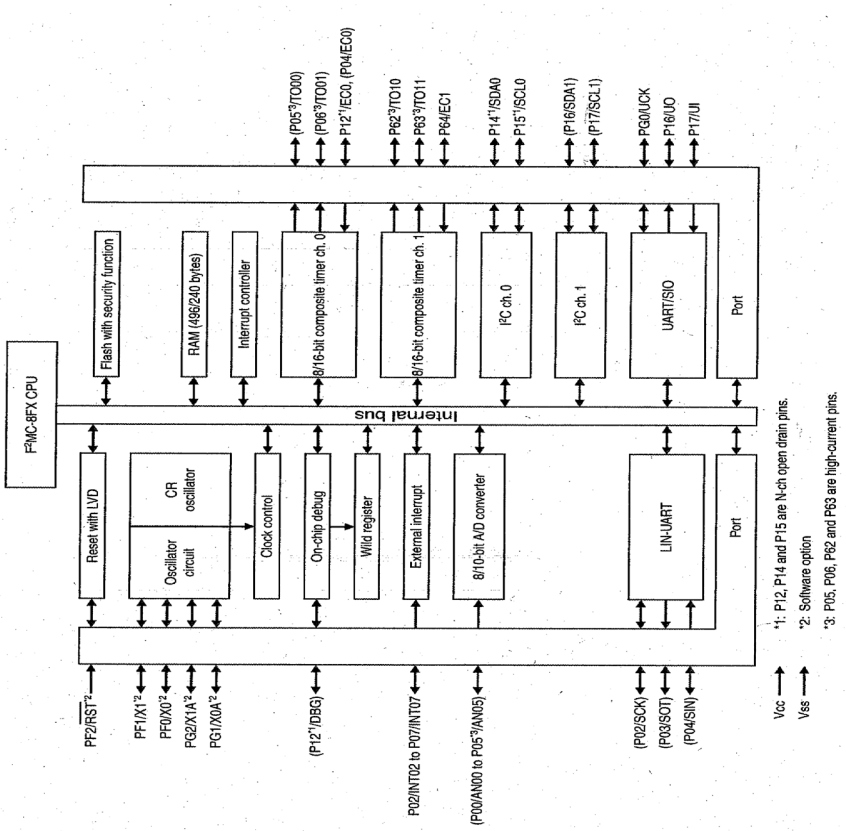
● LIS331<360⁰ G-Sensor, IC3850>



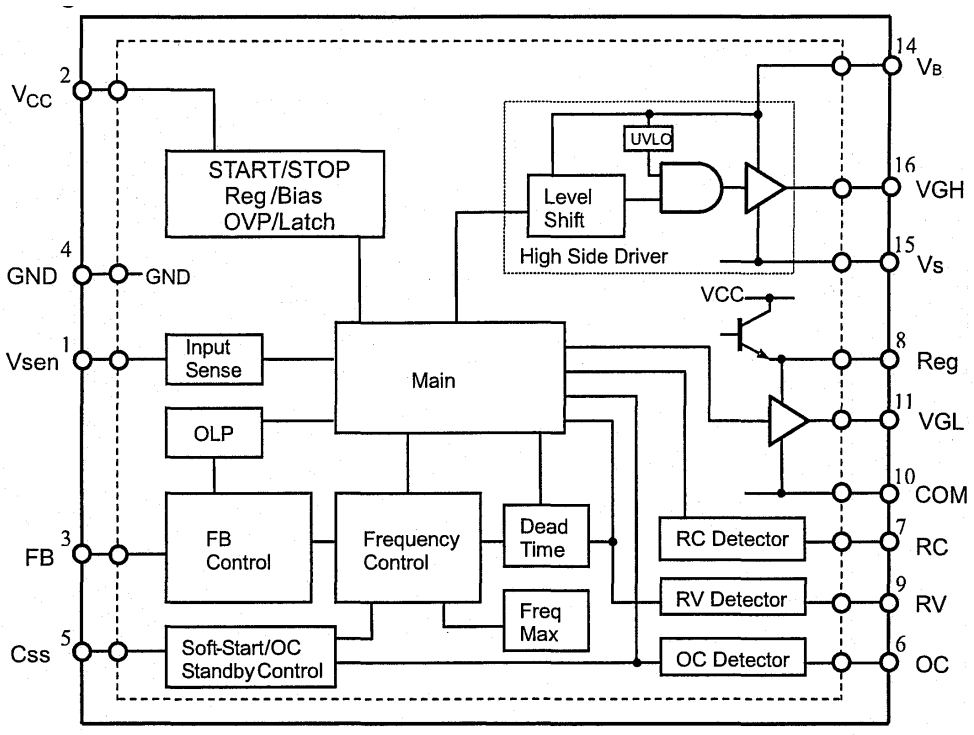
● TB6608<IRIS Driver, IC601>



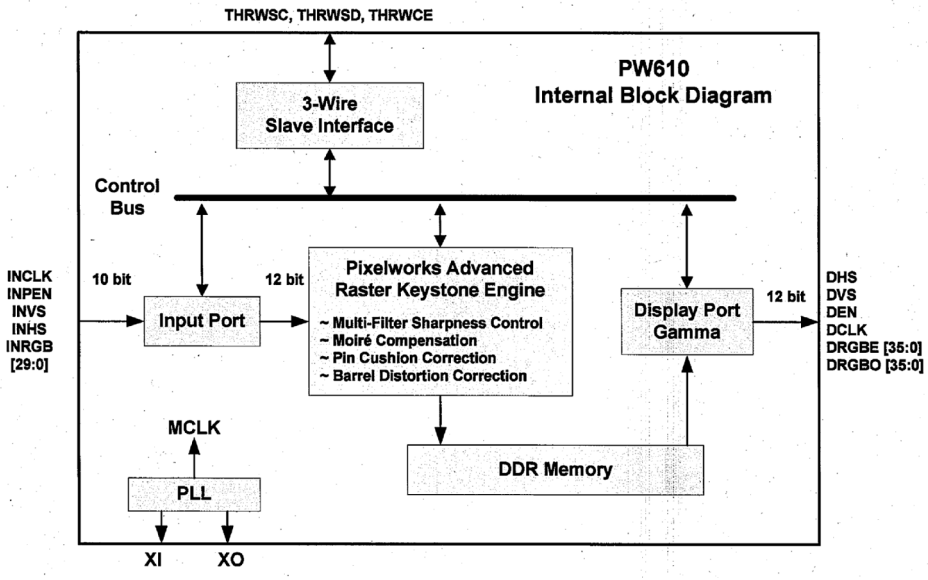
● MB95F353EPFT <Sub CPU, IC9885>



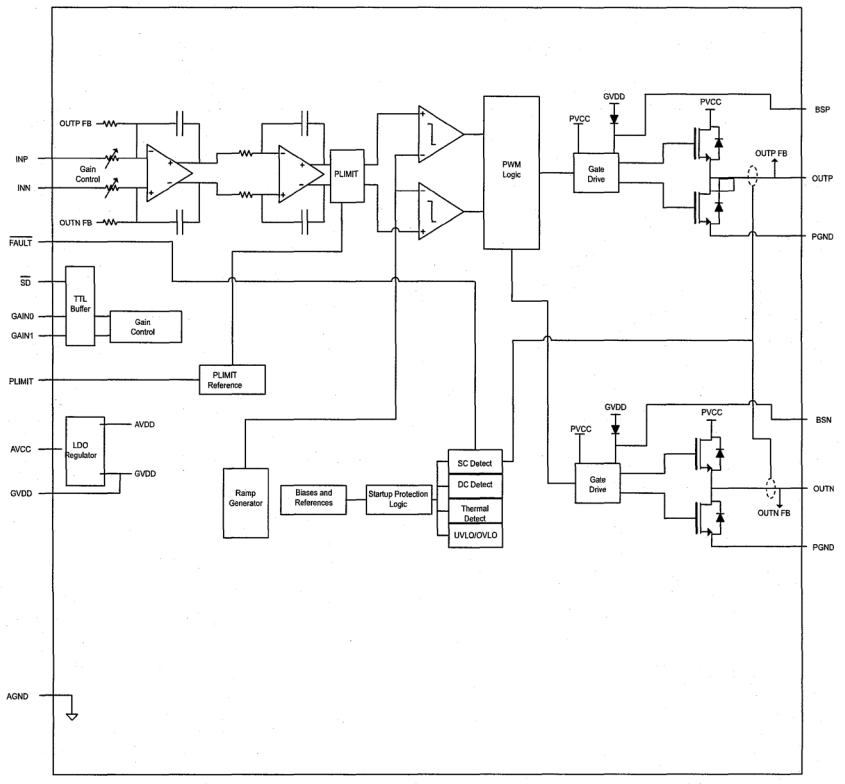
● SSC9512S <Power switching, IC604>



● IP00C783 <Keystone, IC2301>



● TPA3111D<Audio Output, IC001>



Exploded Views
Parts List

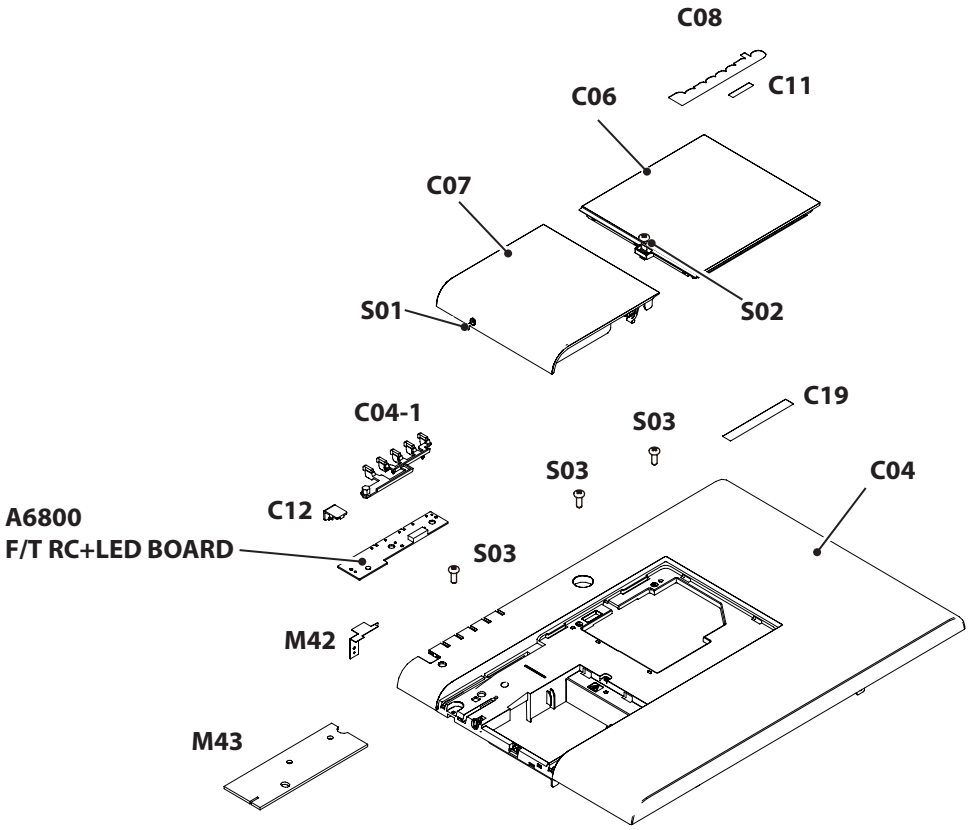
Models **PT-EX600U** **PT-EX600E**
PT-EX600UL **PT-EX600EL**
PT-EW630U **PT-EW630E**
PT-EW630UL **PT-EW630UL**

Important Safety Notice
Components identificated by the International symbol ⚠ have special characteristics important for safety.
When replacing any of these components, use only the manufacturer's specified parts.

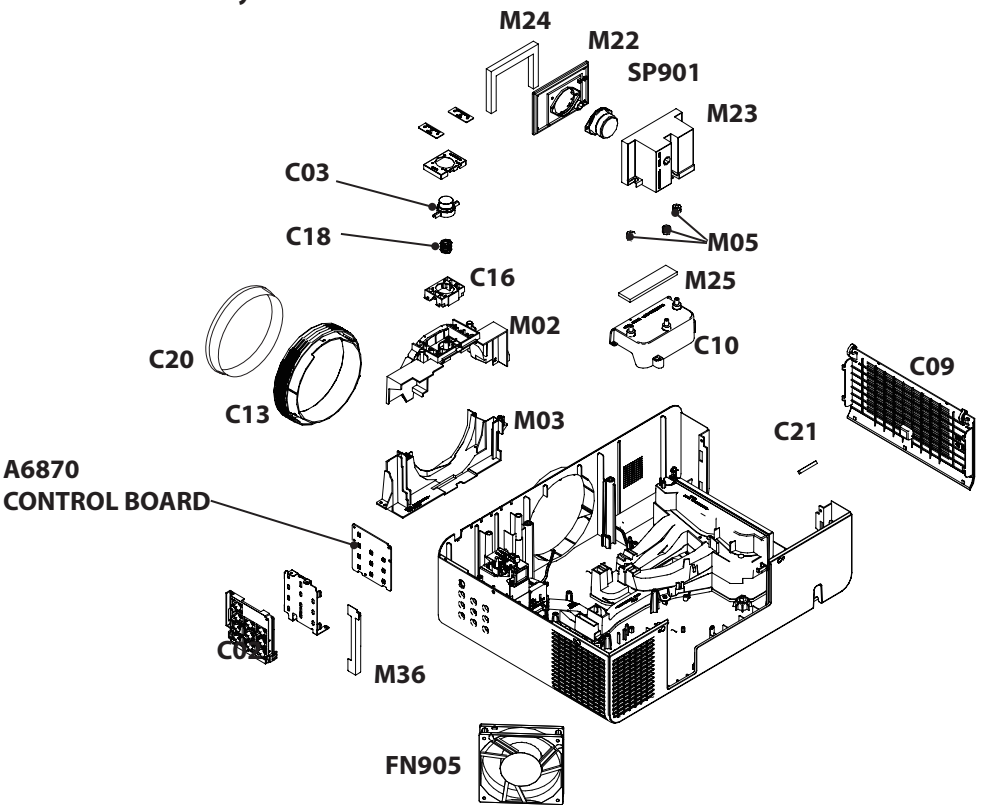
Before ordering the service parts, comfirm the parts number with the Ref. No in the parts list and the exploded view.

Exploded Views

Cabinet top assembly

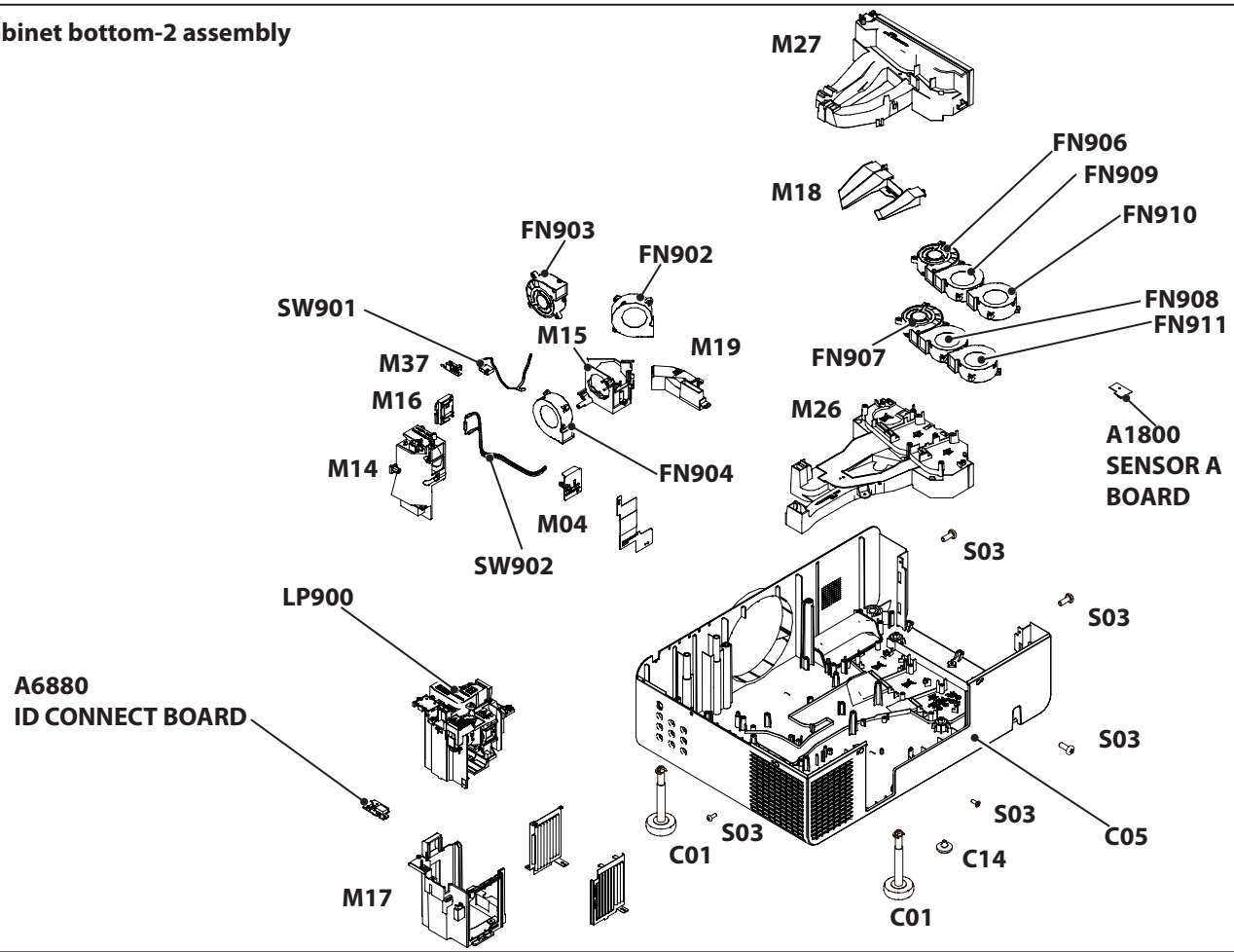


Cabinet bottom-1 assembly

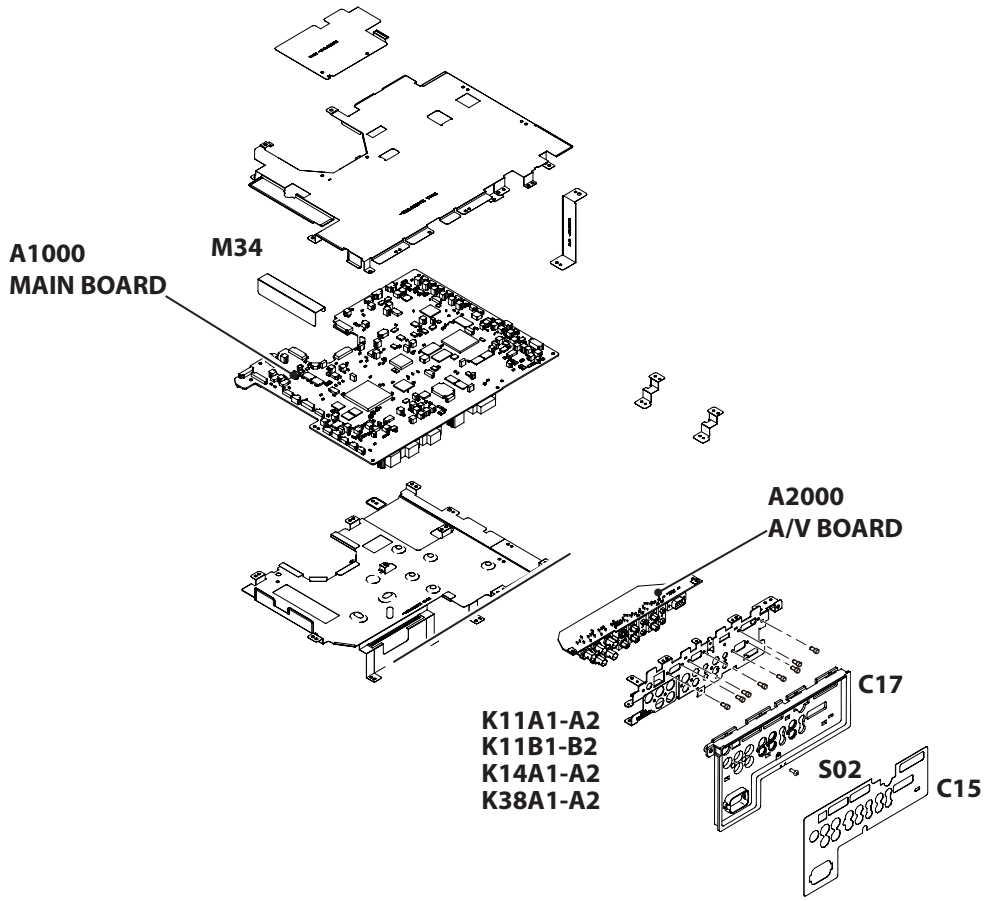


Exploded Views

Cabinet bottom-2 assembly

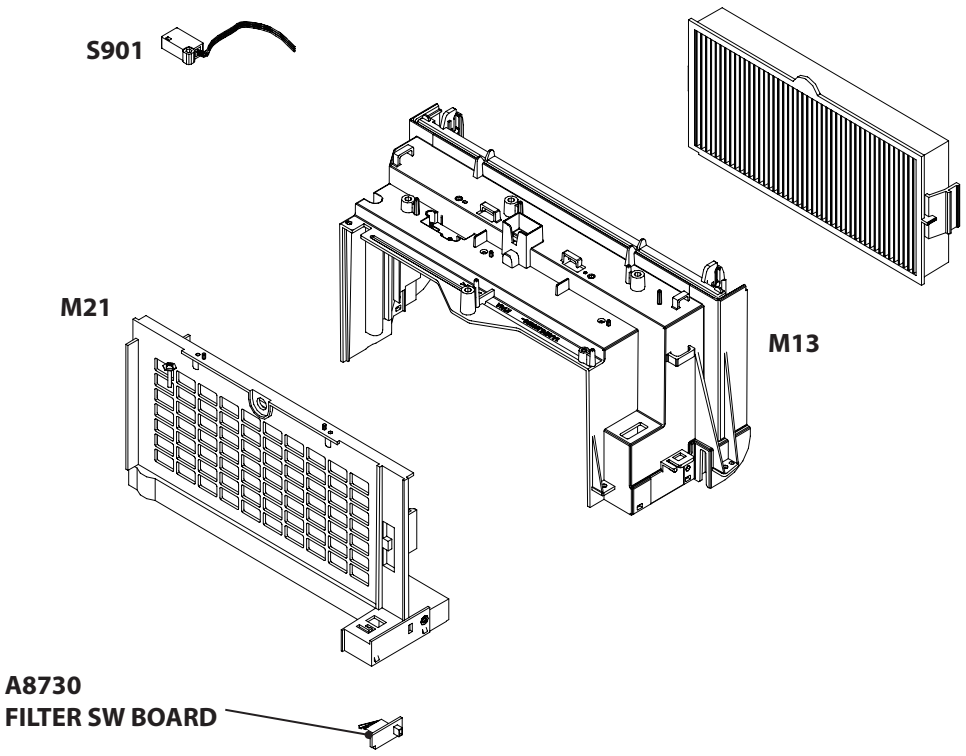


Main and A/V assembly

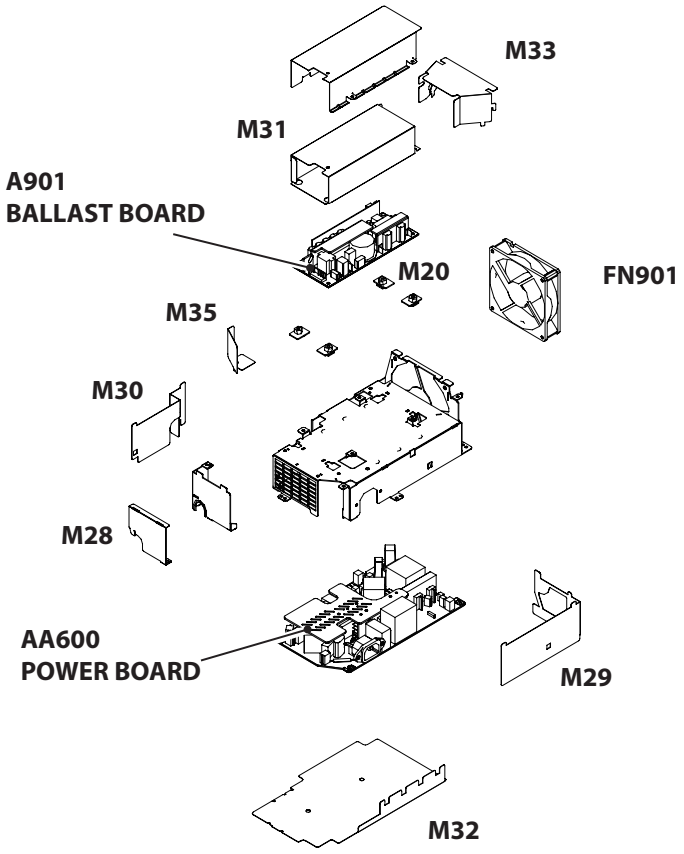


Exploded Views

Filter box assembly

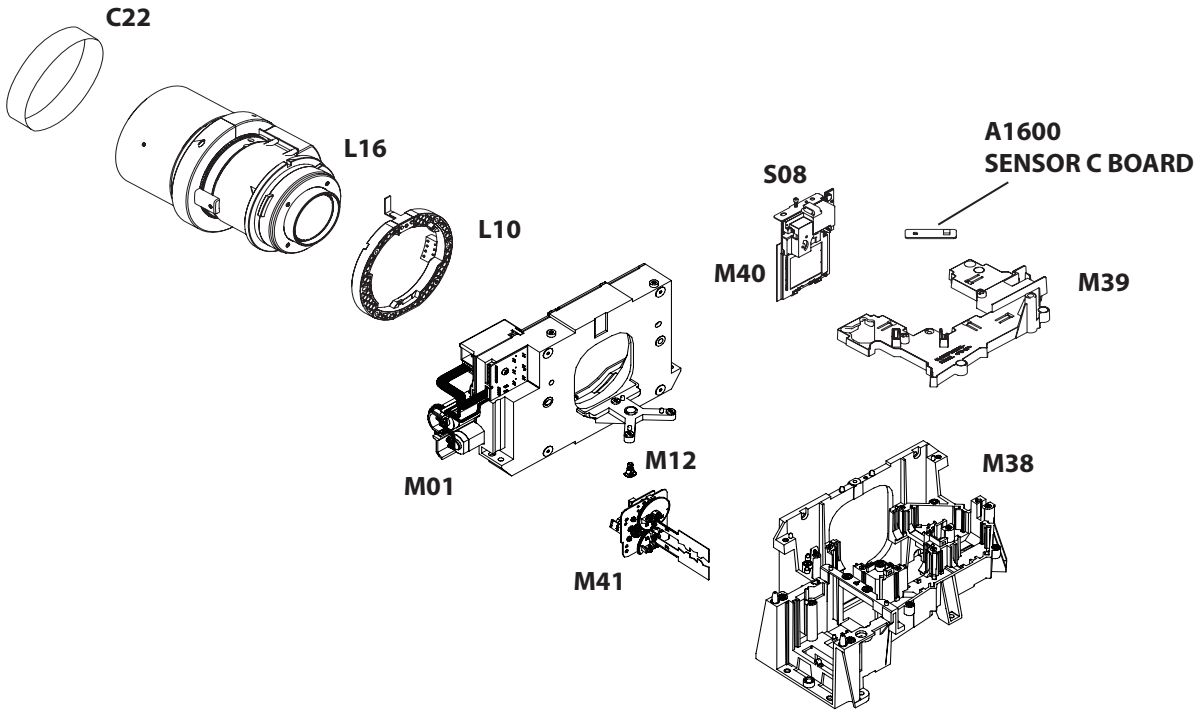


power box assembly

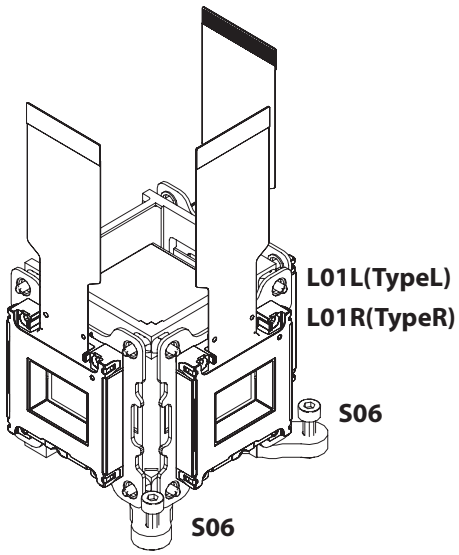


Exploded Views

Projection lens, Optical unit and IRIS assy

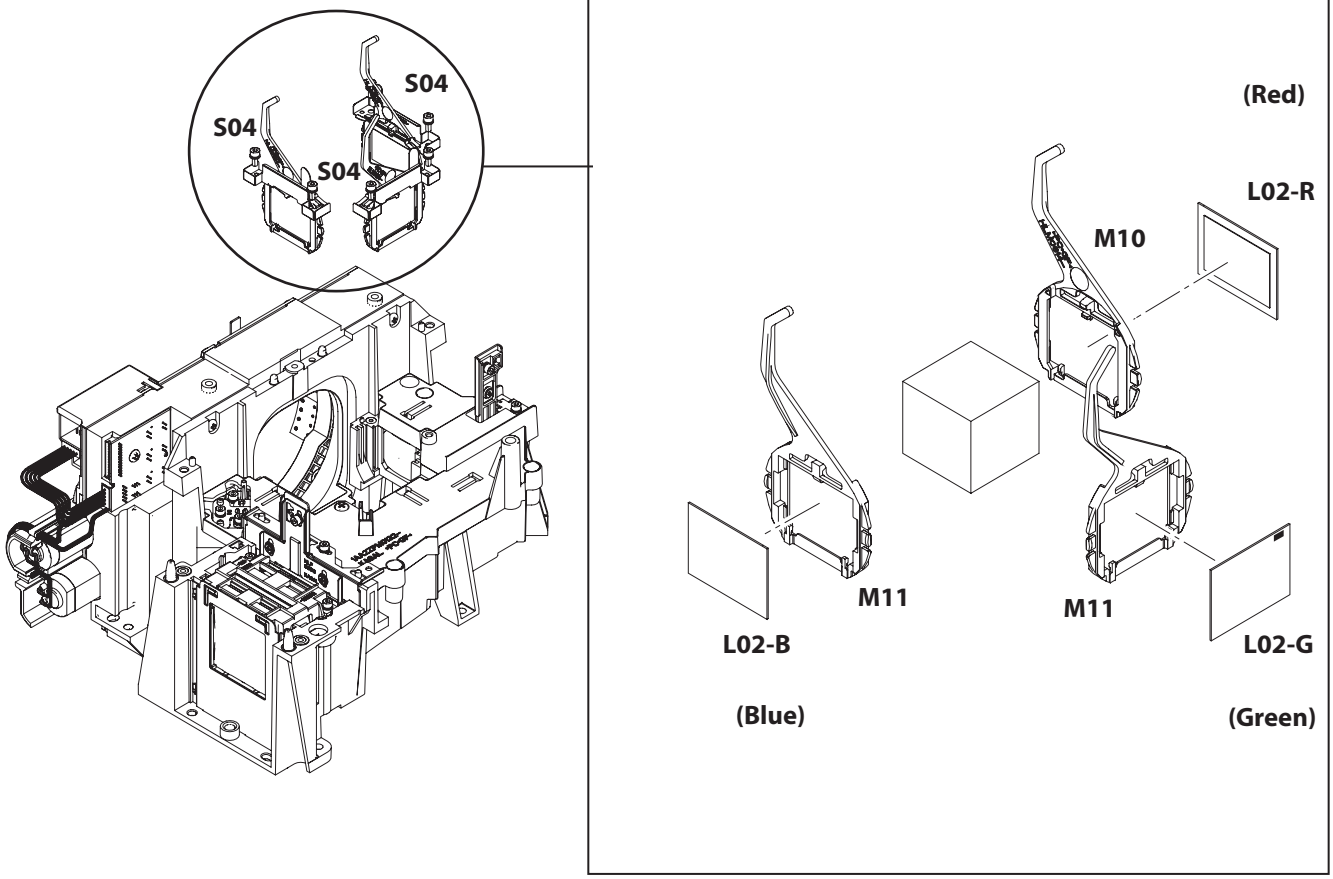


LCD Panel/Prism assembly

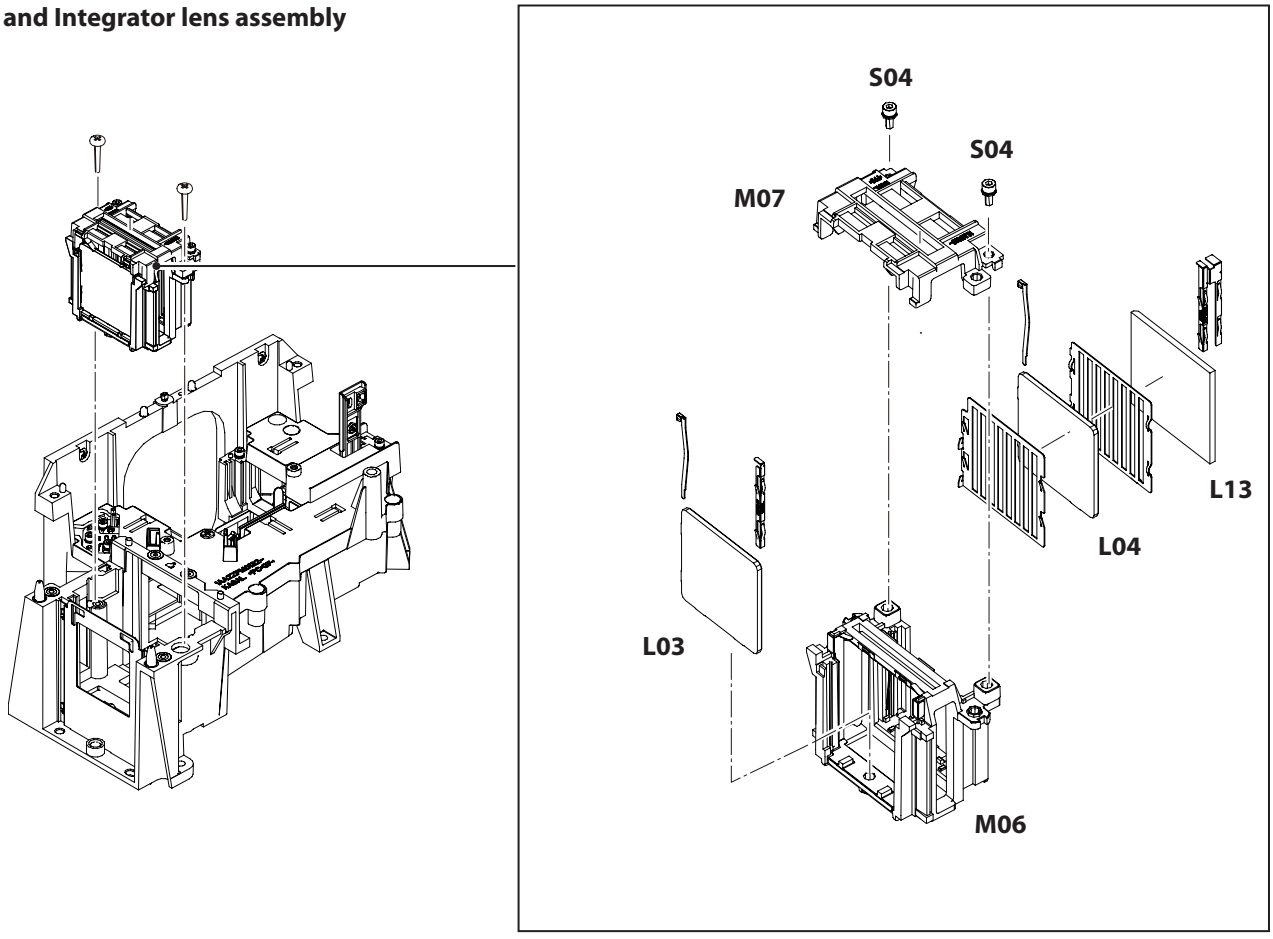


Exploded Views

Polarized glasses (in) assembly

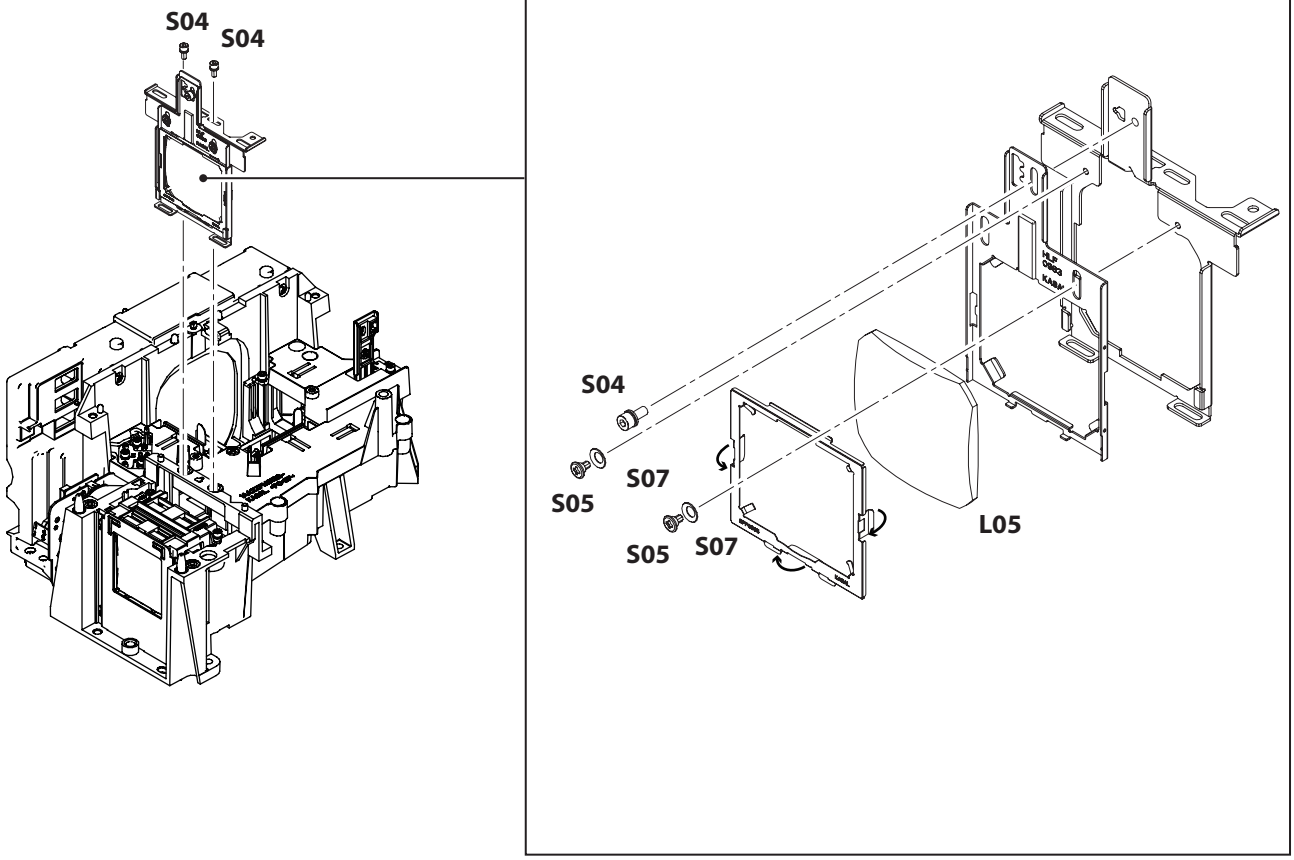


PBS and Integrator lens assembly

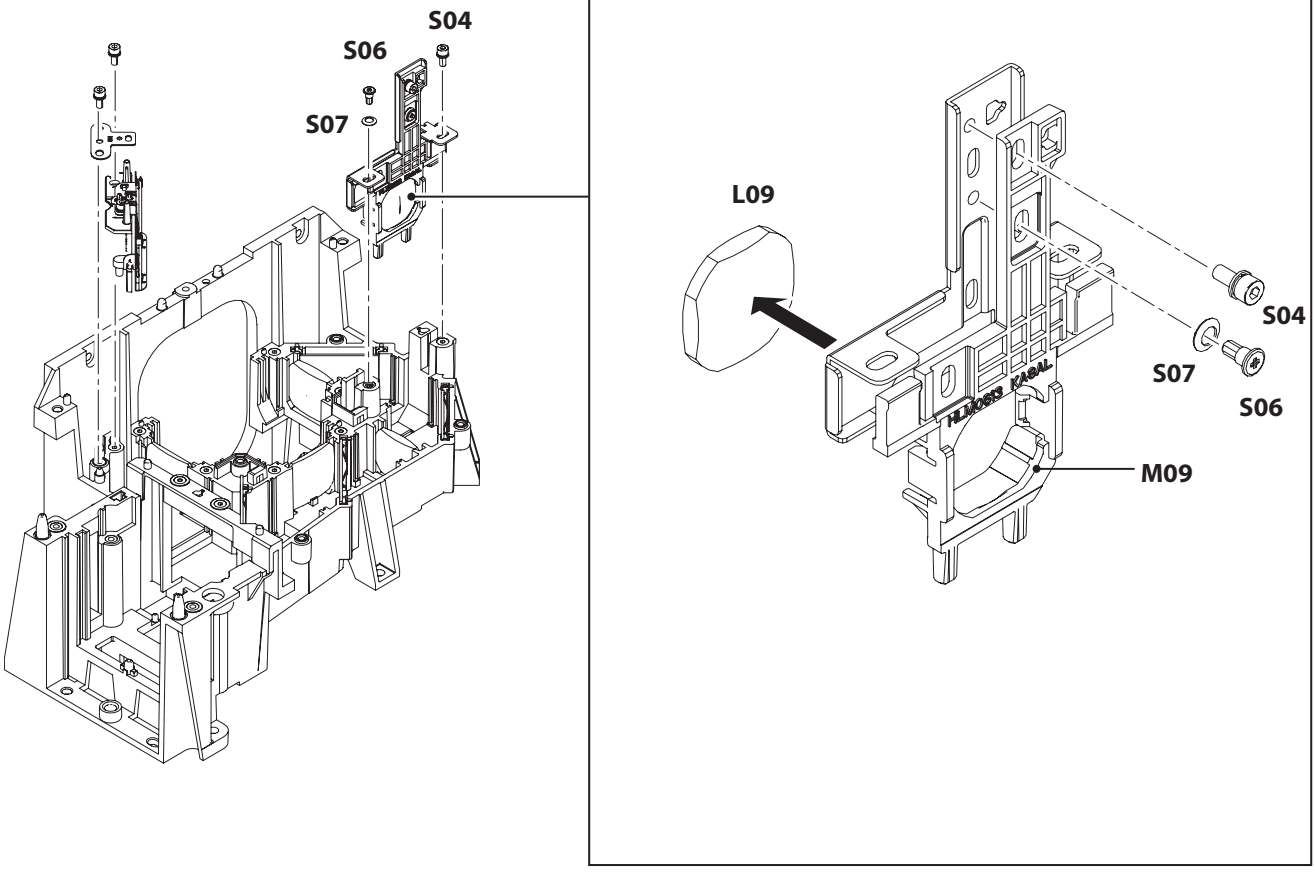


Exploded Views

Condenser lens assembly

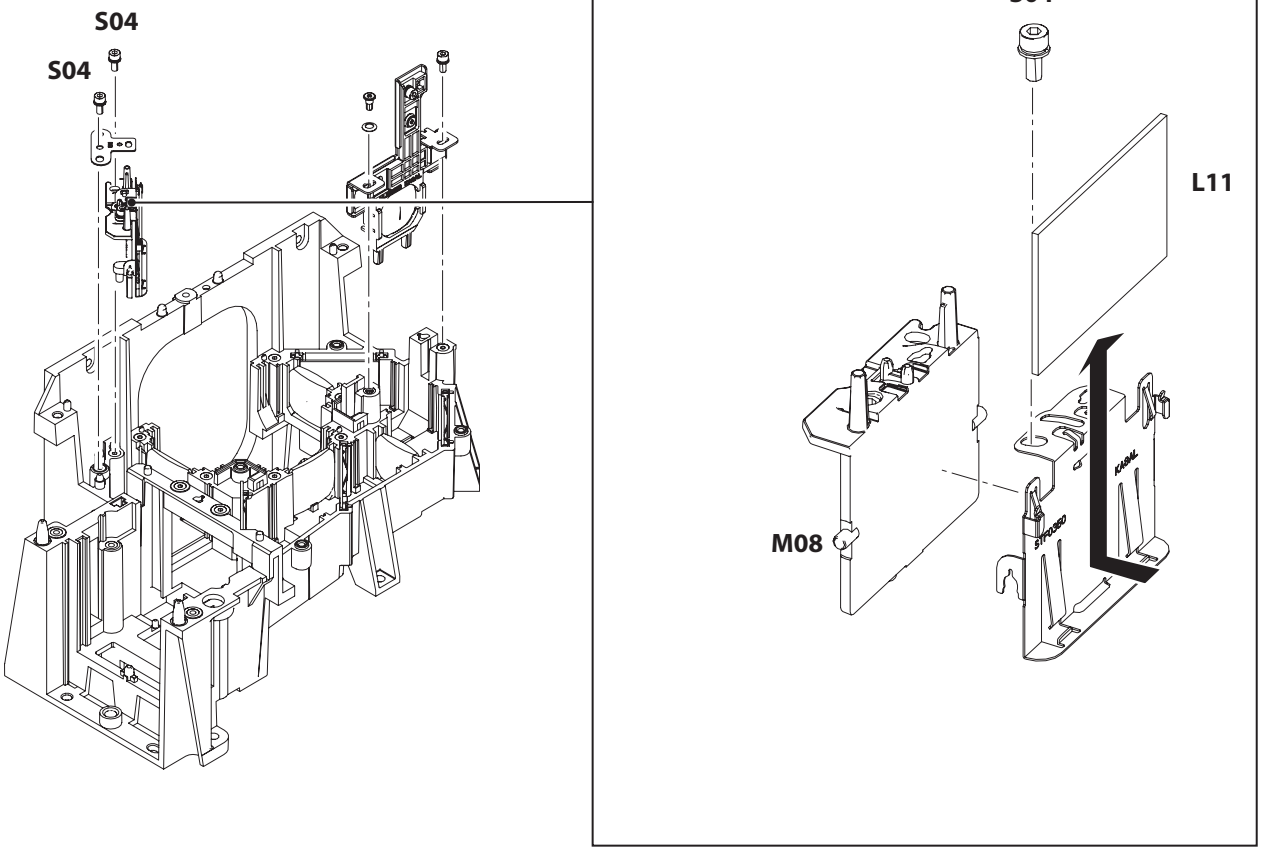


Relay lens (In) assembly

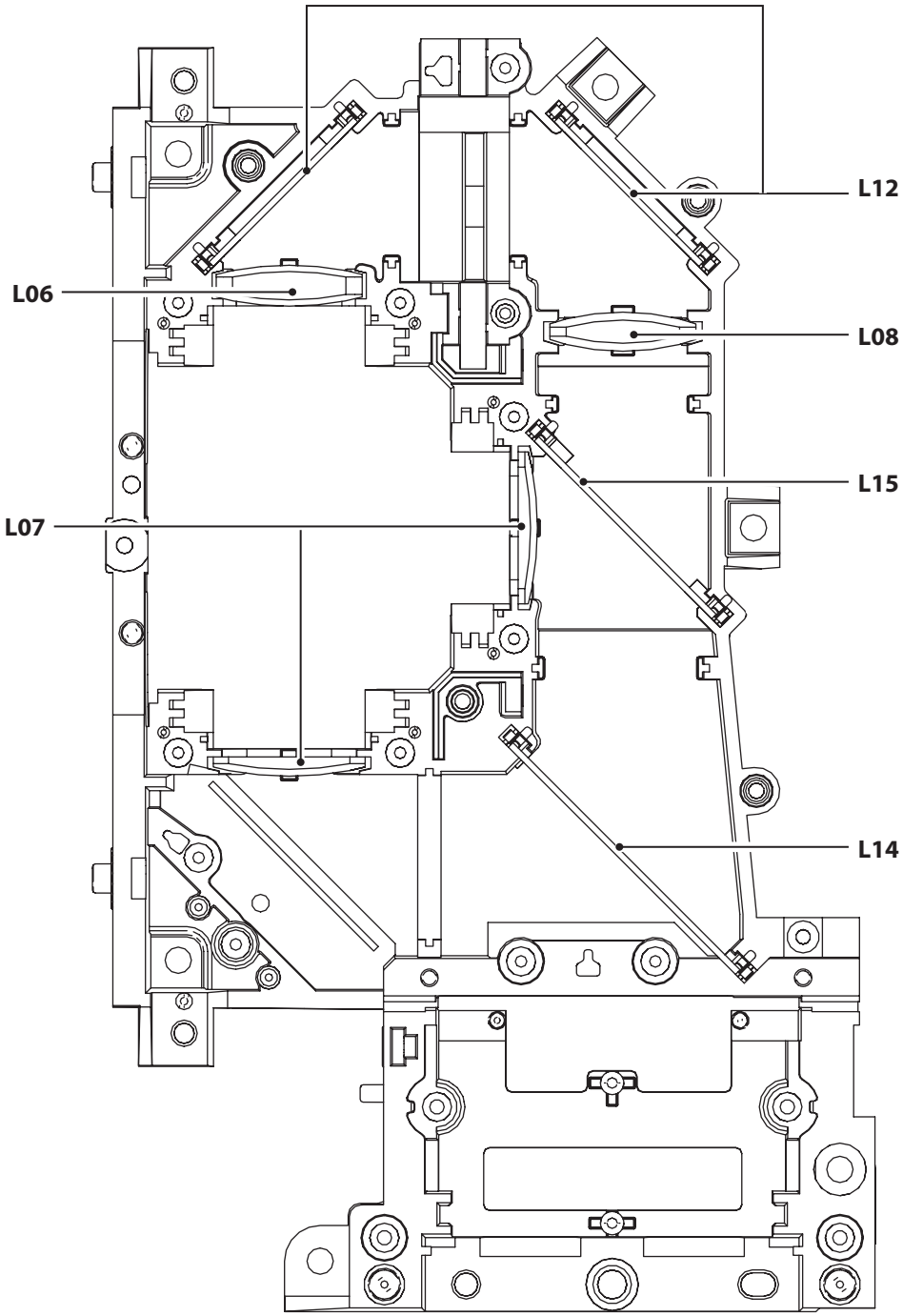


Exploded Views

Mirror (B) assembly

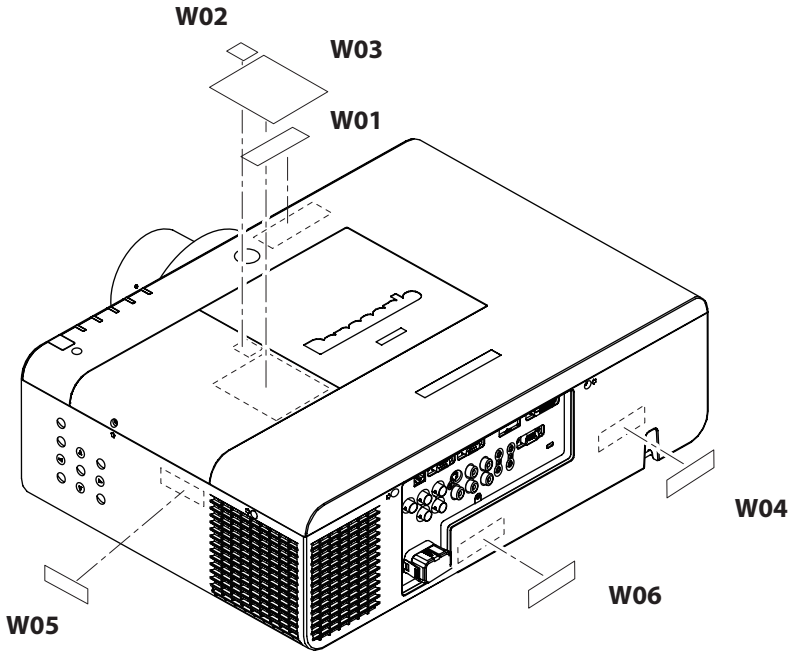


● In the optical unit

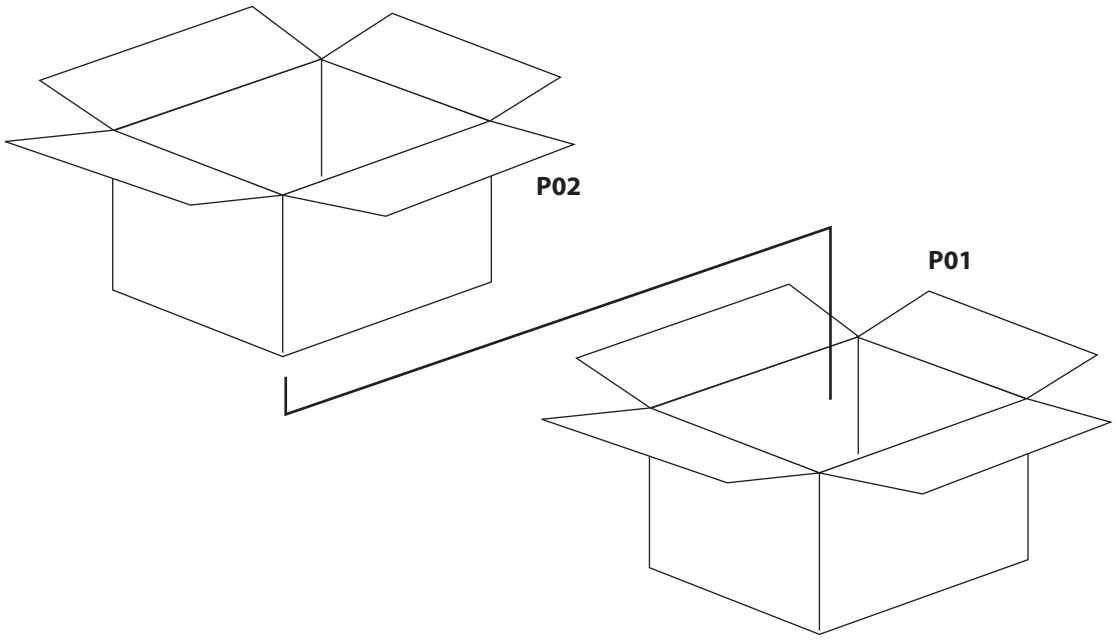


CAUTION:
Part must be placed in specified direction when replacing the optical parts. Please see “Optical Parts Disassembly” for further instructions.

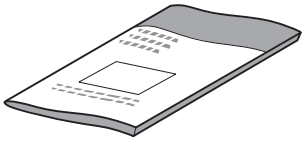
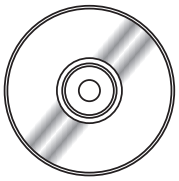
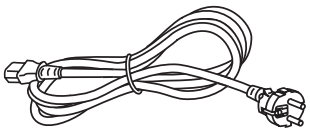
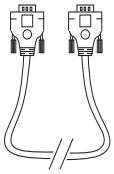
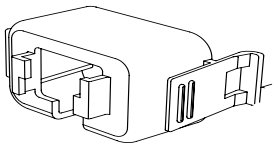
Labels



Packing



● Accessories (see accessories parts list)

REMOTE CONTROL	MANUALs	CD-ROMs
		
Power cord(x1)	Lens antitheft screw	RGB signal CABLE
		
AC power cord holder		
		

Mechanical Parts List

Ref.	Part No.	Description	Note
PACKING MATERIALS			
	6103479286	SPACER LNS PACKING-KA8AL	EX600U/E/EJ, EW630U/E/EJ
P01	6103599984	CARTON CASE-KP4A	EX600U
	6103599991	CARTON CASE-LP4A	EX600E/EJ
	6103600062	CARTON CASE-KS4AL	EX600UL
	6103600024	CARTON CASE-LP4AL	EX600EL/ELJ
	6103600048	CARTON CASE-KS4A	EW630U
	6103600055	CARTON CASE-LS4A	EW630E/EJ
	6103600000	CARTON CASE-KP4AL	EW630UL
	6103600086	CARTON CASE-LS4AL	EW630EL/ELJ
P02	6103614892	CARTON CASE OUT-KP4A	EX600EJ
	6103614908	CARTON CASE OUT-KP4AL	EX600ELJ
	6103614915	CARTON CASE OUT-KS4A	EW630EJ
	6103614922	CARTON CASE OUT-KS4AL	EW630ELJ
	6103469249	POLY BAG	
	6103615547	CASE ACCESSORY-KV4A	
	6103600468	CUSHION FRONT-KV4A	
	6103600475	CUSHION BACK-KV4A	
LABEL			
⚠ W01	6103601120	LBL,CAUTION LNS 5-KW4AC	
⚠ W02	6103612089	LABEL CAUTION UV-KV4A	
⚠ W03	6103612010	LBL,LMP P330W HI C-GL C5-KV4A	
⚠ W04	6103612058	LABEL,CAUTION HOT 5-KV4A	
⚠ W05	6103609676	LABEL,CAUTION FCC-KV4A	
⚠ W06	6103601014	LABEL CAUTION EARTH 3-KW4AC	EX600E/EJ, EX600EL/ELJ, EW630E/EJ, EW630EL/ELJ
ACCESSORIES			
⚠	6103580425	COMPL, VGA CABLE-KC2JC	
⚠	6103597751	COMPL, AC CORD-KV4A	U
⚠	6103597768	COMPL, AC CORD-LV4A	E/EJ
⚠	6103597775	COMPL, AC CORD-LP4A	E/EJ
	6103597690	CD-ROM,OWNERS MANUAL-KV4A	
	6451052124	HOOK,16-7031Z10017	
	6550054173	SETUP INST-KV4A	
⚠	6451055545	REMOCON,MXED	EX600
⚠	6451055569	REMOCON,MXEF	EW630
	4112195500	BOLT HEX-SCT 3X11	
MECHANICAL PARTS			
CABINET PARTS			
C01	6103592350	ASSY STAND LEG-KW4CC	
C02	6103597942	BUTTON CTRL-KV4A	
C03	6103597959	BUTTON LNS REL-KV4A	
⚠ C04	6103610146	CABINET TOP SRV-KV4A	
C04-1	6103598079	DEC LED-KV4A	
⚠ C05	6103610139	CABINET BTM SRV-KV4A	
⚠ C06	6103615493	COVER PRM SRV-KV4A	
⚠ C07	6103598000	COVER LMP-KV4A	
C08	6103615998	DEC SHEET BRAND W=125-KV4A	
⚠ C09	6103597980	COVER FLT-KV4A	
⚠ C10	6103598017	COVER HANDLE-KV4A	
C11	6103600482	DEC SHEET MODEL-KP4A	EX600
C11	6103600499	DEC SHEET MODEL-KS4A	EW630
C12	6103598093	DEC RC-KV4A	
C13	6103614519	DEC RING LNS-KV4A	
C14	6103468495	DEC LEG-KA8AL	
C15	6103599267	DEC AV SHEET-KV4A	
C16	6103468327	HLD BUTTON LNS-KA8AL	
⚠ C17	6103597935	PANEL AV-KV4A	
C18	6103468549	SPRING BUTTON LNS-KA8AL	
C19	6103600574	DEC SHEET RESOLUTION-KP4A	EX600
C19	6103600581	DEC SHEET RESOLUTION-KS4A	EW630
C20	6103468303	COVER WITHOUT LNS-KA8AL	
C21	6103490199	MOUNT LOCK-KJ8YC	
C22	6103543376	CAP LENS(B)-KA8AL	EX600U/E/EJ, EW630U/E/EJ
CHASSIS PARTS			
M01	6103615479	COMPL MTG LNS SRV-KV4A	
M02	6103598024	COVER LNS TOP-KV4A	
M03	6103615486	COVER LNS BTM SRV-KV4A	
M04	6103598048	COVER SN-KV4A	
M05	6103519845	DAMPER,BUSH-KG8AC	
⚠ M06	6103546759	HOLD INT BTM(B)-KH2AL	
⚠ M07	6103463070	HOLDER INT PBS TOP-KA8AL	
M08	6103468334	HOLDER MIRROR B-KA8AL	
M09	6103468365	HOLDER LNS RELAY-KA8AL	
M10	6103468396	HOLDER POL IN	
M11	6103468419	HOLDER POL IN F	
M12	6103470832	HOLDER PRISM BTM_KA8AL	
M13	6103615455	HOLDER FLT UNIT SRV-KV4A	
M14	6103598246	HOLDER LMP FN T-KV4A	
M15	6103598253	HOLDER LMP FN B-KV4A	
M16	6103598260	HOLDER SN-KV4A	
⚠ M17	6103598277	HOUSE LMP-KV4A	
M18	6103468662	MTG DUCT PNL C-KA8AL	
M19	6103536002	MTG DUCT PBS(A)-KH2AL	
M20	6103611884	MTG BALLAST PWB-KA4AC	
M21	6103615462	MTG FLT UNIT SRV-KV4A	
M22	6103598314	MTG SPK FR-KV4A	
M23	6103598321	MTG SPK BACK-KV4A	
M24	6103608440	SPONGE01 SPK-KV4A	
M25	6103608457	SPONGE02 SPK-KV4A	
M26	6103615431	MTG DUCT PNL B SRV-KV4A	
M27	6103615448	MTG DUCT PNL T SRV-KV4A	
M28	6103484495	SPC_HLD MAIN PWB-KA8AL	
⚠ M29	6103598376	SPC SHEET HLD POW A-KV4A	
⚠ M30	6103598383	SPC SHEET HLD POW B-KV4A	
⚠ M31	6103598390	SPC SHEET LMP POW-KV4A	
⚠ M32	6103598406	SPC SHEET POW BTM-KV4A	
M33	6103598413	SPC SHEET POW FN-KV4A	
⚠ M34	6103607184	SPC PCB-KV4A	
M35	6103608938	SPC SHEET BALLAST POW-KV4A	
⚠ M36	6103610085	SPC LMP HOUSE OUT-KV4A	
M37	6103484525	SHD LMP SW-KA8AL	
⚠ M38	6103524207	BASE OPT BTM-KH2AL	
M39	6103468631	OPT BASE TOP-KA8AL	
M40	6103468914	COMPL MTG SHUT-KA8AL	
M41	6103582580	ACTIVE IRIS_KH2AL	
⚠ M42	6103612164	SPACER SHT LED PWB-KV4A	
M43	6103608754	SPONGE DEC LED BTM-KV4A	
SCREWS			
S01	4120796409	SPECIAL SCREW	
S02	4120796201	SPECIAL SCREW	
S03	4110319304	SCR BIN 3X8	
S04	4120778108	SPECIAL SCREW-2.5X6	
S05	3120703509	SPECIAL SCREW V	
S06	4120794504	SPECIAL SCREW FINE 2.5X6	
S07	4111925504	SCR PAN+SW+W 3X10	
S08	4120793408	SPECIAL SCREW V	
OPTICAL PARTS			
L01L*	6103610252	ASSY,PNL/PRISM L-KP4A	EX600
L01R*	6103610269	ASSY,PNL/PRISM R-KP4A	EX600
L01L*	6103610092	ASSY,PNL/PRISM L-KS4A	EW630

Mechanical Parts List

Ref.	Part No.	Description	Note
L01R*	6103610108	ASSY,PNL/PRISM R-KS4A	EW630
L02-1R	6451016034	POLARIZED GLASS(IN/R)	
L02-1G	6451016041	POLARIZED GLASS(IN/G)	
L02-1B	6451016058	POLARIZED GLASS(IN/B)	EX600
L02-1B	6451030672	POLARIZED GLASS(IN/B)	EW630
L03	6451044983	LENS,INTEGRATOR(IN)	EX600
L03	6451049896	LENS,INTEGRATOR(IN)	EW630
L04	6451044990	LENS,INTEGRATOR(OUT)	EX600
L04	6451049919	LENS,INTEGRATOR(OUT)	EW630
L05	6451011596	LENS,CONDENSER(OUT)	
L06	6451011602	LENS,CONDENSER(R)	
L07	6451011619	LENS,CONDENSER(G)	
L08	6451025630	LENS,RELAY(IN)	
L09	6451011633	LENS,RELAY(OUT)	
L10	6451016553	LENS,PROJECTION-MOUNT	
L11	6451018113	MIRROR(B)	
L12	9450887896	MIRROR(R)	
L13	6451018106	PRISM(PBS)	
L14	6451016027	DICHROIC MIRROR (B)	
L15	6451018137	DICHROIC MIRROR (G)	
L16	T0Z10B10500	ASSY,LENS,PROJECTION	EX600U/E/EJ, EW630U/E/EJ

* There are 2 type of LCD Panel/Prism Assy. Check which type of LCD Panel/Prism Assy is used. How to check the type, see the item "Optical Parts Disassembly".

Ref.	Part No.	Description	Note

Electrical Parts List

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

● **Read Description in the parts list**

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

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

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

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

Material:

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

RESISTOR CARBON 4.7K J A 1/4W

Rated Wattage

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

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

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

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

Material:

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

Ref.	Part No.	Description	Note
ASSEMBLED BOARDS			
⚠ **A2000**	**6550052803**	**ASSY,PWB,A/V KS4A**	
⚠ **A3600**	**6550052810**	**ASSY,PWB,F/T RC+LED KS4A**	
⚠ **A6800**	**6550052827**	**ASSY,PWB,CONTROL KS4A**	
⚠ **A6870**	**6550052834**	**ASSY,PWB,ID CONNECT KS4A**	
⚠ **A1000**	**6550054258**	**ASSY,PWB,MAIN KP4A**	**EX600**
⚠ **A1000**	**6550052735**	**ASSY,PWB,MAIN KS4A**	**EW630**
⚠ **A1600**	**6550052742**	**ASSY,PWB,SENSOR C KS4A**	
⚠ **A1800**	**6550052759**	**ASSY,PWB,SENSOR A KS4A**	
⚠ **A8730**	**6550052766**	**ASSY,PWB,FILTER SW KS4A**	
⚠ **AA600**	**6550052841**	**ASSY,PWB,POWER KS4A**	
OUT OF CIRCUIT BOARDS			
⚠ A901	6451055316	UNIT,BALLAST	
⚠ A901A	6520037649	CABLE,BALLAST	
⚠ FN901	6103615530	MOTOR FN COMP SRV-KV4A	
⚠ FN902	6451055736	MOTOR,BLW DC ***W	
⚠ FN903	6451055620	MOTOR,BLW DC ***W	
⚠ FN904	6451055699	MOTOR,BLW DC ***W	
⚠ FN905	6451055682	MOTOR,FAN DC 2.52W	
⚠ FN906	6451055729	MOTOR,BLW DC ***W	
⚠ FN907	6451055729	MOTOR,BLW DC ***W	
⚠ FN908	6451055712	MOTOR,BLW DC ***W	
⚠ FN909	6451055637	MOTOR,BLW DC ***W	
⚠ FN910	6451055637	MOTOR,BLW DC ***W	
⚠ FN911	6451055637	MOTOR,BLW DC ***W	
K11A1	3120730406	SPECIAL SCREW	
K11A2	3120730406	SPECIAL SCREW	
K11B1	3120730406	SPECIAL SCREW	
K11B2	3120730406	SPECIAL SCREW	
K14A1	3120730406	SPECIAL SCREW	
K14A2	3120730406	SPECIAL SCREW	
K38A1	3120730406	SPECIAL SCREW	
K38A2	3120730406	SPECIAL SCREW	
L901	9520019431	CORE,CLAMP	
L902	6450636905	CORE,CLAMP	
L903	9450234959	CORE,CLAMP	
L904	9450033835	CORE,FERRITE	
L905	9450234959	CORE,CLAMP	
L906	9450033835	CORE,FERRITE	
S901	6451034106	UNIT,WIND VELOCITY SENSOR	
SP901	6520037656	SPEAKER,8	
⚠ Z6B&SW902			
	6520037519	ASSY,WIRE	
⚠ Z8B&SW901			
	6520037632	ASSY,WIRE	
A2000 ASSY,PWB,A/V KS4A			
C1035	3033827814	CERAMIC 2.2U K 10V	
C1036	3033827814	CERAMIC 2.2U K 10V	
C1037	3033827814	CERAMIC 2.2U K 10V	
C1051	3033827814	CERAMIC 2.2U K 10V	
C1056	3033827814	CERAMIC 2.2U K 10V	
C1057	3033827814	CERAMIC 2.2U K 10V	
C1060	3033583215	CERAMIC 10U K 6.3V	
C2824	3033670410	CERAMIC 0.1U K 50V	
C3001	3033670410	CERAMIC 0.1U K 50V	
C3002	3033583215	CERAMIC 10U K 6.3V	
C3003	3033670410	CERAMIC 0.1U K 50V	
C3004	3033670410	CERAMIC 0.1U K 50V	
C3801	4034551012	CERAMIC 1U K 10V	
C3802	4034551012	CERAMIC 1U K 10V	
C3803	4034551012	CERAMIC 1U K 10V	
C3804	4034551012	CERAMIC 1U K 10V	
C3805	3034093426	CERAMIC 0.1U K 16V	
C3806	4034551012	CERAMIC 1U K 10V	
C3810	3034093426	CERAMIC 0.1U K 16V	
C3811	3031573614	CERAMIC 100P J 50V	
C3812	3031573614	CERAMIC 100P J 50V	
C3815	3033583215	CERAMIC 10U K 6.3V	
C3821	3033583215	CERAMIC 10U K 6.3V	
C3831	3034093426	CERAMIC 0.1U K 16V	
C3832	3034093426	CERAMIC 0.1U K 16V	
C5001	3033969613	CERAMIC 1U K 25V	
C5002	3033969613	CERAMIC 1U K 25V	
C5003	3033969613	CERAMIC 1U K 25V	
C5004	3033969613	CERAMIC 1U K 25V	
C5006	3033969613	CERAMIC 1U K 25V	
C5007	3033969613	CERAMIC 1U K 25V	
C5009	3033969613	CERAMIC 1U K 25V	
C5011	3033945815	CERAMIC 4.7U K 16V	
C5012	3033945815	CERAMIC 4.7U K 16V	
C5013	3033945815	CERAMIC 4.7U K 16V	
C5014	3033969613	CERAMIC 1U K 25V	
C5022	3033969613	CERAMIC 1U K 25V	
C5024	4034551616	CERAMIC 10U K 16V	
C5051	3034093426	CERAMIC 0.1U K 16V	
C5061	4034551616	CERAMIC 10U K 16V	
C5069	4034551616	CERAMIC 10U K 16V	
C5261	4034587219	ELECT 100U M 6.3V	
C5262	4034587219	ELECT 100U M 6.3V	
C5263	3034093426	CERAMIC 0.1U K 16V	
C5264	3032761317	CERAMIC 1000P K 50V	
C5265	4034551012	CERAMIC 1U K 10V	
C5266	4034551012	CERAMIC 1U K 10V	
C5267	3034093426	CERAMIC 0.1U K 16V	
C5268	3034538610	CERAMIC 0.1U K 16V	
D2821	3072542914	ZENER DIODE 02DZ6.8Y(TPH3	
D2822	3072542914	ZENER DIODE 02DZ6.8Y(TPH3	
D2823	3072542914	ZENER DIODE 02DZ6.8Y(TPH3	
D5061	3071490810	DIODE 1SS355-TE-17	
D5062	3071490810	DIODE 1SS355-TE-17	
IC3801	4096992815	IC MAX232ECPWR	
IC3805	3104794004	IC TC7WBD125AFK	
IC3806	3104794004	IC TC7WBD125AFK	
IC5001	4096835716	IC NJW1156AV	
IC5051	3104794004	IC TC7WBD125AFK	
IC5231	4106526600	IC THS7347IPHPR	
K20C	6450992209	SOCKET,BNC 1P	
K20D	6450992216	SOCKET,BNC 4P	
K30A	6520030480	JACK,RCA-2	
K30B	9520017932	TERMINAL, BOARD	
K30C	6520030473	JACK,RCA-2	
K30D	9450762742	JACK,PHON D3.6	
K30E	9450762742	JACK,PHON D3.6	
K38A	6520037441	SOCKET,D-SUB 9P	
L2001	9450867577	FILTER,EMI 400MHZ	
L2002	9450867577	FILTER,EMI 400MHZ	
L2003	9450867577	FILTER,EMI 400MHZ	
L2004	9450867560	FILTER,EMI 200MHZ	
L2006	9450867560	FILTER,EMI 200MHZ	
L2821	9450867454	FILTER,EMI 50MHZ	
L2822	9450867454	FILTER,EMI 50MHZ	
L3001	9450867577	FILTER,EMI 400MHZ	
L3002	9450867577	FILTER,EMI 400MHZ	
L3003	9450867577	FILTER,EMI 400MHZ	
L3004	9450867461	FILTER,EMI 100MHZ	
L3006	9450867461	FILTER,EMI 100MHZ	
L3801	9450867454	FILTER,EMI 50MHZ	
L3802	9450867454	FILTER,EMI 50MHZ	
L3811	9450867454	FILTER,EMI 50MHZ	
L3812	9450867454	FILTER,EMI 50MHZ	
L3813	9450867454	FILTER,EMI 50MHZ	
L3814	9450867454	FILTER,EMI 50MHZ	

Electrical Parts List

Ref.	Part No.	Description	Note
L3815	9450867454	FILTER,EMI 50MHZ	
L3816	9450867454	FILTER,EMI 50MHZ	
L3817	9450867454	FILTER,EMI 50MHZ	
L3818	9450867454	FILTER,EMI 50MHZ	
L5251	9450411978	INDUCTOR,330 OHM	
L5252	9450411978	INDUCTOR,330 OHM	
L8166	9450865368	IMPEDANCE,220 OHM P	
Q2001	4060217804	TR 2SC4617	
Q2002	4060217804	TR 2SC4617	
Q2003	4060217804	TR 2SC4617	
Q2004	3050144512	TR 2SC2412K T146 R	
Q3001	3050158727	TR 2SC2812-L6-TB	
Q3002	3050144512	TR 2SC2412K T146 R	
Q3801	3052174913	TR RN1111 TE85L	
Q5031	4060217804	TR 2SC4617	
Q5032	4060217804	TR 2SC4617	
Q5061	4060217804	TR 2SC4617	
Q5062	4060217804	TR 2SC4617	
Q5063	4060217804	TR 2SC4617	
Q5064	4060217804	TR 2SC4617	
R1055	3012258813	MT-GLAZE 39 JA 1/16W	
R1057	3012258813	MT-GLAZE 39 JA 1/16W	
R1058	3012258813	MT-GLAZE 39 JA 1/16W	
R1059	3012258813	MT-GLAZE 39 JA 1/16W	
R1062	3012258813	MT-GLAZE 39 JA 1/16W	
R1931	3012258813	MT-GLAZE 39 JA 1/16W	
R1933	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1934	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1935	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1941	3012249019	MT-GLAZE 10K JA 1/16W	
R2001	3012604115	MT-GLAZE 75 JA 1/3W	
R2003	3012604115	MT-GLAZE 75 JA 1/3W	
R2005	3012604115	MT-GLAZE 75 JA 1/3W	
R2007	3011505918	MT-GLAZE 10K JA 1/10W	
R2008	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R2010	3012604016	MT-GLAZE 68 JA 1/3W	
R2011	3012604016	MT-GLAZE 68 JA 1/3W	
R2012	3011505918	MT-GLAZE 10K JA 1/10W	
R2013	3011623711	MT-GLAZE 4.7K JA 1/10W	
R2014	3011623711	MT-GLAZE 4.7K JA 1/10W	
R2015	3011623711	MT-GLAZE 4.7K JA 1/10W	
R2019	3012556513	MT-GLAZE 100 JA 1/10W	
R2020	3012556513	MT-GLAZE 100 JA 1/10W	
R2035	3011505819	MT-GLAZE 100K JA 1/10W	
R2036	3011505819	MT-GLAZE 100K JA 1/10W	
R2824	3012556513	MT-GLAZE 100 JA 1/10W	
R2826	3011505918	MT-GLAZE 10K JA 1/10W	
R2827	3012556513	MT-GLAZE 100 JA 1/10W	
R2828	3012556513	MT-GLAZE 100 JA 1/10W	
R2829	3011624015	MT-GLAZE 560 JA 1/10W	
R3001	3012604115	MT-GLAZE 75 JA 1/3W	
R3003	3012604115	MT-GLAZE 75 JA 1/3W	
R3005	3012604115	MT-GLAZE 75 JA 1/3W	
R3007	3012604115	MT-GLAZE 75 JA 1/3W	
R3009	3012604115	MT-GLAZE 75 JA 1/3W	
R3011	3011622219	MT-GLAZE 10 JA 1/10W	
R3012	3011622219	MT-GLAZE 10 JA 1/10W	
R3017	3011506212	MT-GLAZE 1K JA 1/10W	
R3018	3012566314	MT-GLAZE 47K JA 1/10W	
R3019	3012565317	MT-GLAZE 56K JA 1/10W	
R3020	3011506212	MT-GLAZE 1K JA 1/10W	
R3021	3012566314	MT-GLAZE 47K JA 1/10W	
R3022	3012565317	MT-GLAZE 56K JA 1/10W	
R3801	3012258110	MT-GLAZE 10 JA 1/16W	
R3802	3012250213	MT-GLAZE 3.3K JA 1/16W	
R3803	3012258110	MT-GLAZE 10 JA 1/16W	
R3804	3012258110	MT-GLAZE 10 JA 1/16W	
R3805	3012251210	MT-GLAZE 4.7K JA 1/16W	
R3806	3012943016	MT-GLAZE 10K FA 1/16W	
R3807	3011505819	MT-GLAZE 100K JA 1/10W	
R3808	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R3809	3012251210	MT-GLAZE 4.7K JA 1/16W	
R3810	3012251913	MT-GLAZE 68 JA 1/16W	
R3813	3012250213	MT-GLAZE 3.3K JA 1/16W	
R3814	3012251210	MT-GLAZE 4.7K JA 1/16W	
R3815	3012258110	MT-GLAZE 10 JA 1/16W	
R3817	3012556513	MT-GLAZE 100 JA 1/10W	
R3818	3012566314	MT-GLAZE 47K JA 1/10W	
R3819	3012566314	MT-GLAZE 47K JA 1/10W	
R3820	3012566314	MT-GLAZE 47K JA 1/10W	
R3821	3012566314	MT-GLAZE 47K JA 1/10W	
R3822	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R3823	3012566314	MT-GLAZE 47K JA 1/10W	
R3824	3012566314	MT-GLAZE 47K JA 1/10W	
R3825	3012250213	MT-GLAZE 3.3K JA 1/16W	
R3826	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R3827	3011505819	MT-GLAZE 100K JA 1/10W	
R3831	3012251913	MT-GLAZE 68 JA 1/16W	
R3832	3012251913	MT-GLAZE 68 JA 1/16W	
R3833	3012249019	MT-GLAZE 10K JA 1/16W	
R3835	3012556513	MT-GLAZE 100 JA 1/10W	
R3838	3012249019	MT-GLAZE 10K JA 1/16W	
R5001	3010375017	MT-GLAZE 0.000 ZA 1/10W	
R5002	3012258110	MT-GLAZE 10 JA 1/16W	
R5003	3012258110	MT-GLAZE 10 JA 1/16W	
R5007	3012248913	MT-GLAZE 100K JA 1/16W	
R5008	3012248913	MT-GLAZE 100K JA 1/16W	
R5031	3012248814	MT-GLAZE 100 JA 1/16W	
R5032	3012248814	MT-GLAZE 100 JA 1/16W	
R5033	3012250213	MT-GLAZE 3.3K JA 1/16W	
R5034	3012249316	MT-GLAZE 1K JA 1/16W	
R5036	3012250213	MT-GLAZE 3.3K JA 1/16W	
R5037	3012249316	MT-GLAZE 1K JA 1/16W	
R5052	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5053	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5055	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5056	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5057	3012251210	MT-GLAZE 4.7K JA 1/16W	
R5058	3012251210	MT-GLAZE 4.7K JA 1/16W	
R5059	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5061	3012249316	MT-GLAZE 1K JA 1/16W	
R5062	3012250213	MT-GLAZE 3.3K JA 1/16W	
R5063	3012249316	MT-GLAZE 1K JA 1/16W	
R5064	3012249316	MT-GLAZE 1K JA 1/16W	
R5066	3012250213	MT-GLAZE 3.3K JA 1/16W	
R5067	3012249316	MT-GLAZE 1K JA 1/16W	
R5069	3012258011	MT-GLAZE 330 JA 1/16W	
R5201	3012258110	MT-GLAZE 10 JA 1/16W	
R5202	3012258110	MT-GLAZE 10 JA 1/16W	
R5204	3012248814	MT-GLAZE 100 JA 1/16W	
R5209	3012248814	MT-GLAZE 100 JA 1/16W	
R5256	3012249019	MT-GLAZE 10K JA 1/16W	
SC2001	9450763503	SURGE-ABSORBER	
SC2002	9450763503	SURGE-ABSORBER	
SC2003	9450763503	SURGE-ABSORBER	
SC2004	9450763503	SURGE-ABSORBER	
SC2006	9450763503	SURGE-ABSORBER	
SC3001	9450763503	SURGE-ABSORBER	
SC3002	9450763503	SURGE-ABSORBER	
SC3003	9450763503	SURGE-ABSORBER	
SC3004	9450763503	SURGE-ABSORBER	
SC3006	9450763503	SURGE-ABSORBER	
SC3801	9450763503	SURGE-ABSORBER	
SC3802	9450763503	SURGE-ABSORBER	
SC3813	9450763503	SURGE-ABSORBER	
SC3814	9450763503	SURGE-ABSORBER	
SC3815	9450763503	SURGE-ABSORBER	
SC3816	9450763503	SURGE-ABSORBER	
SC3817	9450763503	SURGE-ABSORBER	
SC3818	9450763503	SURGE-ABSORBER	
SC3819	9450763503	SURGE-ABSORBER	
SC3821	9450763503	SURGE-ABSORBER	

Ref.	Part No.	Description	Note
A3600		**ASSY,PWB,F/T RC+LED KS4A**	
AU2801	6451049766	UNIT,REMOCON RECEIVER	
AU2801A	6103490656	HOLDER RC-KA8AL	
AU2803	6451054593	UNIT,REMOCON RECEIVER	
C2851	3033588319	CERAMIC 1U K 10V	
C2852	3031576615	CERAMIC 470P K 50V	
C2853	3034507012	CERAMIC 47U K 10V	
C2854	3033588319	CERAMIC 1U K 10V	
C2855	3031576615	CERAMIC 470P K 50V	
C2856	3034507012	CERAMIC 47U K 10V	
C2861	4034551012	CERAMIC 1U K 10V	
C2862	3033583215	CERAMIC 10U K 6.3V	
C2863	3033670410	CERAMIC 0.1U K 50V	
C6891	3033670410	CERAMIC 0.1U K 50V	
D2861	4097155417	IC S10604	
D6881	3072224810	LED SML-521MUW T86	
D6883	3072037816	LED SML-210LT T86 M	
D6884	4080685508	LED KPT-2012YC	
D6885	3072037717	LED SML-210DT T86 L	
D6886	4072597515	LED SMLE12BC7TT86	
D6892	3072217119	ZENER DIODE UDZS-TE-1712B	
IC2860	3092469710	IC LA6358NM-TE-L-E	
R2851	3012565614	MT-GLAZE 47 JA 1/10W	
R2852	3012556513	MT-GLAZE 100 JA 1/10W	
R2853	3012565614	MT-GLAZE 47 JA 1/10W	
R2854	3012556513	MT-GLAZE 100 JA 1/10W	
R2861	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2862	3012249613	MT-GLAZE 2.7K JA 1/16W	
R2864	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2865	3012250213	MT-GLAZE 3.3K JA 1/16W	
R2866	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2867	3012252118	MT-GLAZE 12K JA 1/16W	
R2868	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2869	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6891	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R6892	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R6893	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R6894	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R6895	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R6896	3011506014	MT-GLAZE 0.000 ZA 1/10W	
A6800		**ASSY,PWB,CONTROL KS4A**	
C6878	3034093426	CERAMIC 0.1U K 16V	
D6871	3072225916	ZENER DIODE UDZS3.6B-TE-17	
D6872	3071490810	DIODE 1SS355-TE-17	
D6873	3072225916	ZENER DIODE UDZS3.6B-TE-17	
D6874	3071490810	DIODE 1SS355-TE-17	
D6875	3072225916	ZENER DIODE UDZS3.6B-TE-17	
D6876	3071490810	DIODE 1SS355-TE-17	
D6877	3072225916	ZENER DIODE UDZS3.6B-TE-17	
D6878	3072225916	ZENER DIODE UDZS3.6B-TE-17	
D6879	3072225916	ZENER DIODE UDZS3.6B-TE-17	
D6880	3072225916	ZENER DIODE UDZS3.6B-TE-17	
D6895	3072217119	ZENER DIODE UDZS-TE-1712B	
R6871	3012251814	MT-GLAZE 47 JA 1/16W	
R6872	3012251814	MT-GLAZE 47 JA 1/16W	
R6873	3012251814	MT-GLAZE 47 JA 1/16W	
R6874	3012251814	MT-GLAZE 47 JA 1/16W	
R6875	3012251814	MT-GLAZE 47 JA 1/16W	
R6876	3012251814	MT-GLAZE 47 JA 1/16W	
R6878	3012261516	MT-GLAZE 0.000 ZA 1/16W	
SW6871	9450262792	SWITCH,PUSH 1P-1TX1	
SW6872	9450262792	SWITCH,PUSH 1P-1TX1	
SW6873	9450262792	SWITCH,PUSH 1P-1TX1	
SW6874	9450262792	SWITCH,PUSH 1P-1TX1	
SW6875	9450262792	SWITCH,PUSH 1P-1TX1	
SW6876	9450262792	SWITCH,PUSH 1P-1TX1	
SW6877	9450262792	SWITCH,PUSH 1P-1TX1	
SW6878	9450262792	SWITCH,PUSH 1P-1TX1	
SW6879	9450262792	SWITCH,PUSH 1P-1TX1	
SW6880	9450262792	SWITCH,PUSH 1P-1TX1	
A6870		**ASSY,PWB,ID CONNECT KS4A**	
L8731	9450866037	IMPEDANCE,330 OHM P	
L8732	9450866037	IMPEDANCE,330 OHM P	
L8733	9450866037	IMPEDANCE,330 OHM P	
L8734	9450866037	IMPEDANCE,330 OHM P	
L8737	9450866037	IMPEDANCE,330 OHM P	
R8738	3012261516	MT-GLAZE 0.000 ZA 1/16W	
A1000		**ASSY,PWB,MAIN KP4A EX600**	
A1000		**ASSY,PWB,MAIN KS4A EW630**	
AU2802	6451049575	UNIT,REMOCON RECEIVER	
C001	4034670911	CERAMIC 0.1U K 25V	
C002	4034549217	CERAMIC 0.47U K 25V	
C005	4034549217	CERAMIC 0.47U K 25V	
C006	4034670911	CERAMIC 0.1U K 25V	
C007	3033969613	CERAMIC 1U K 25V	
C008	3033969613	CERAMIC 1U K 25V	
C009	3033969613	CERAMIC 1U K 25V	
C010	3033827814	CERAMIC 2.2U K 10V	
C011	3033969613	CERAMIC 1U K 25V	
C018	3033969613	CERAMIC 1U K 25V	
C019	3033969613	CERAMIC 1U K 25V	
C020	3033763112	ELECT 100U M 25V	
C021	3033763112	ELECT 100U M 25V	
C030	4034551012	CERAMIC 1U K 10V	
C1001	4034670911	CERAMIC 0.1U K 25V	
C1002	4034670911	CERAMIC 0.1U K 25V	
C1004	3034093426	CERAMIC 0.1U K 16V	
C1006	3033984111	ELECT 47U M 16V	
C101	3034093426	CERAMIC 0.1U K 16V	
C1019	3033827814	CERAMIC 2.2U K 10V	
C102	4034587615	ELECT 100U M 16V	
C1021	3034093426	CERAMIC 0.1U K 16V	
C1022	4034551012	CERAMIC 1U K 10V	
C1023	3033984111	ELECT 47U M 16V	
C1028	3034093426	CERAMIC 0.1U K 16V	
C103	4034584812	ELECT 220U M 16V	
C1031	3033827814	CERAMIC 2.2U K 10V	
C1032	3033827814	CERAMIC 2.2U K 10V	
C1033	3033827814	CERAMIC 2.2U K 10V	
C1038	3033827814	CERAMIC 2.2U K 10V	
C1039	3033827814	CERAMIC 2.2U K 10V	
C1040	3033827814	CERAMIC 2.2U K 10V	
C1041	3033827814	CERAMIC 2.2U K 10V	
C1042	4034551012	CERAMIC 1U K 10V	
C1043	3033363510	CERAMIC 0.47U K 16V	
C1044	3033827814	CERAMIC 2.2U K 10V	
C1045	4034670911	CERAMIC 0.1U K 25V	
C1046	4034551012	CERAMIC 1U K 10V	
C1047	4034670911	CERAMIC 0.1U K 25V	
C1048	3031573614	CERAMIC 100P J 50V	
C1049	3033827814	CERAMIC 2.2U K 10V	
C105	3034093426	CERAMIC 0.1U K 16V	
C1050	3033827814	CERAMIC 2.2U K 10V	
C1052	3033827814	CERAMIC 2.2U K 10V	
C1053	3033827814	CERAMIC 2.2U K 10V	
C1054	3033727510	CERAMIC 2.2U K 6.3V	
C1075	3033827814	CERAMIC 2.2U K 10V	
C1077	3033827814	CERAMIC 2.2U K 10V	
C1079	3033827814	CERAMIC 2.2U K 10V	
C108	3033583215	CERAMIC 10U K 6.3V	

Electrical Parts List

Ref.	Part No.	Description	Note
C111	3033583215	CERAMIC 10U K 6.3V	
C1301	3033984111	ELECT 47U M 16V	
C1302	3034093426	CERAMIC 0.1U K 16V	
C1304	3034419810	CERAMIC 0.01U K 50V	
C1306	3032761317	CERAMIC 1000P K 50V	
C1311	3034093426	CERAMIC 0.1U K 16V	
C1312	3034093426	CERAMIC 0.1U K 16V	
C1313	3034093426	CERAMIC 0.1U K 16V	
C1314	3034093426	CERAMIC 0.1U K 16V	
C1316	3034093426	CERAMIC 0.1U K 16V	
C1317	3034093426	CERAMIC 0.1U K 16V	
C1318	3034093426	CERAMIC 0.1U K 16V	
C1319	3034093426	CERAMIC 0.1U K 16V	
C1321	3033583215	CERAMIC 10U K 6.3V	
C1322	3034093426	CERAMIC 0.1U K 16V	
C1323	3034093426	CERAMIC 0.1U K 16V	
C1324	3034093426	CERAMIC 0.1U K 16V	
C1326	3034093426	CERAMIC 0.1U K 16V	
C1327	3034093426	CERAMIC 0.1U K 16V	
C1328	3034093426	CERAMIC 0.1U K 16V	
C1331	3034093426	CERAMIC 0.1U K 16V	
C1332	3034093426	CERAMIC 0.1U K 16V	
C1333	3034093426	CERAMIC 0.1U K 16V	
C1334	3034093426	CERAMIC 0.1U K 16V	
C1336	3034093426	CERAMIC 0.1U K 16V	
C1337	3034093426	CERAMIC 0.1U K 16V	
C1338	3034093426	CERAMIC 0.1U K 16V	
C1339	3034093426	CERAMIC 0.1U K 16V	
C1341	3034093426	CERAMIC 0.1U K 16V	
C1342	3034093426	CERAMIC 0.1U K 16V	
C1343	3034093426	CERAMIC 0.1U K 16V	
C1344	3034093426	CERAMIC 0.1U K 16V	
C1351	3032761911	CERAMIC 22P J 50V	
C1352	3033092519	CERAMIC 27P J 50V	
C1353	3032762819	CERAMIC 18P J 50V	
C1354	3032762819	CERAMIC 18P J 50V	
C1355	3034093426	CERAMIC 0.1U K 16V	
C1356	4034551012	CERAMIC 1U K 10V	
C1357	3033200419	CERAMIC 68P J 50V	
C1358	3033200419	CERAMIC 68P J 50V	
C1359	4034670911	CERAMIC 0.1U K 25V	
C1371	3034093426	CERAMIC 0.1U K 16V	
C1372	3034093426	CERAMIC 0.1U K 16V	
C1387	3034093426	CERAMIC 0.1U K 16V	
C1412	4034551012	CERAMIC 1U K 10V	
C1413	4034551012	CERAMIC 1U K 10V	
C1414	4034551012	CERAMIC 1U K 10V	
C1440	4034551012	CERAMIC 1U K 10V	
C1441	3033583215	CERAMIC 10U K 6.3V	
C1442	4034551012	CERAMIC 1U K 10V	
C1443	3033583215	CERAMIC 10U K 6.3V	
C1452	4034551012	CERAMIC 1U K 10V	
C1453	3033583215	CERAMIC 10U K 6.3V	
C1454	3034419810	CERAMIC 0.01U K 50V	
C1461	4034551616	CERAMIC 10U K 16V	
C1462	4034551616	CERAMIC 10U K 16V	
C1463	3034538214	CERAMIC 10P J 50V	
C1464	3034093426	CERAMIC 0.1U K 16V	
C1466	4034551012	CERAMIC 1U K 10V	
C1467	3032795114	CERAMIC 3300P K 50V	
C1468	3034093426	CERAMIC 0.1U K 16V	
C1469	3034093426	CERAMIC 0.1U K 16V	
C1471	3033925015	CERAMIC 22U M 6.3V	
C1472	3034093426	CERAMIC 0.1U K 16V	
C1474	3034093426	CERAMIC 0.1U K 16V	
C1476	3034093426	CERAMIC 0.1U K 16V	
C1477	3033949318	ELECT 220U M 6.3V	
C1478	3033925015	CERAMIC 22U M 6.3V	
C1813	3034093426	CERAMIC 0.1U K 16V	
C1851	3034093426	CERAMIC 0.1U K 16V	
C1853	3034093426	CERAMIC 0.1U K 16V	
C1859	3034540910	CERAMIC 100P J 50V	
C1860	3034540910	CERAMIC 100P J 50V	
C1861	3034540910	CERAMIC 100P J 50V	
C1862	3034540910	CERAMIC 100P J 50V	
C1863	3034093426	CERAMIC 0.1U K 16V	
C1864	3034540910	CERAMIC 100P J 50V	
C1865	3034540910	CERAMIC 100P J 50V	
C201	3032761911	CERAMIC 22P J 50V	
C202	3032762819	CERAMIC 18P J 50V	
C2042	4034670911	CERAMIC 0.1U K 25V	
C205	4034670911	CERAMIC 0.1U K 25V	
C206	3033583215	CERAMIC 10U K 6.3V	
C207	4034670911	CERAMIC 0.1U K 25V	
C208	3034093426	CERAMIC 0.1U K 16V	
C2101	3034279315	ELECT 100U M 6.3V	
C2102	3032761317	CERAMIC 1000P K 50V	
C2103	3034093426	CERAMIC 0.1U K 16V	
C2104	3034093426	CERAMIC 0.1U K 16V	
C2105	3034093426	CERAMIC 0.1U K 16V	
C2106	3032761317	CERAMIC 1000P K 50V	
C2107	3034093426	CERAMIC 0.1U K 16V	
C2108	3034093426	CERAMIC 0.1U K 16V	
C2109	3034093426	CERAMIC 0.1U K 16V	
C211	3034093426	CERAMIC 0.1U K 16V	
C213	3034419810	CERAMIC 0.01U K 50V	
C214	3034419810	CERAMIC 0.01U K 50V	
C217	3034093426	CERAMIC 0.1U K 16V	
C219	3034093426	CERAMIC 0.1U K 16V	
C221	3034093426	CERAMIC 0.1U K 16V	
C222	3034093426	CERAMIC 0.1U K 16V	
C226	3033583215	CERAMIC 10U K 6.3V	
C227	3034093426	CERAMIC 0.1U K 16V	
C228	3034093426	CERAMIC 0.1U K 16V	
C229	3034093426	CERAMIC 0.1U K 16V	
C2301	3034093426	CERAMIC 0.1U K 16V	
C2302	3034093426	CERAMIC 0.1U K 16V	
C2303	3034093426	CERAMIC 0.1U K 16V	
C2304	3034093426	CERAMIC 0.1U K 16V	
C2306	3034093426	CERAMIC 0.1U K 16V	
C2307	3034093426	CERAMIC 0.1U K 16V	
C2308	3034093426	CERAMIC 0.1U K 16V	
C2309	3034093426	CERAMIC 0.1U K 16V	
C231	3034093426	CERAMIC 0.1U K 16V	
C2311	3034093426	CERAMIC 0.1U K 16V	
C2312	3034093426	CERAMIC 0.1U K 16V	
C2313	3034093426	CERAMIC 0.1U K 16V	
C2314	3034093426	CERAMIC 0.1U K 16V	
C2316	3034093426	CERAMIC 0.1U K 16V	
C2317	3034093426	CERAMIC 0.1U K 16V	
C2318	3034093426	CERAMIC 0.1U K 16V	
C2319	3034093426	CERAMIC 0.1U K 16V	
C232	3034419810	CERAMIC 0.01U K 50V	
C2321	3034093426	CERAMIC 0.1U K 16V	
C2322	3034093426	CERAMIC 0.1U K 16V	
C2323	3034093426	CERAMIC 0.1U K 16V	
C2324	3034093426	CERAMIC 0.1U K 16V	
C2326	3034093426	CERAMIC 0.1U K 16V	
C2327	3034093426	CERAMIC 0.1U K 16V	
C2328	3034093426	CERAMIC 0.1U K 16V	
C2329	3034093426	CERAMIC 0.1U K 16V	
C233	3034093426	CERAMIC 0.1U K 16V	
C2331	3034093426	CERAMIC 0.1U K 16V	
C2332	3034093426	CERAMIC 0.1U K 16V	
C2333	3034093426	CERAMIC 0.1U K 16V	
C2334	3034093426	CERAMIC 0.1U K 16V	
C2336	3034093426	CERAMIC 0.1U K 16V	
C2337	3034093426	CERAMIC 0.1U K 16V	
C2338	3034093426	CERAMIC 0.1U K 16V	
C2339	3034093426	CERAMIC 0.1U K 16V	
C2341	3034093426	CERAMIC 0.1U K 16V	
C2342	3034093426	CERAMIC 0.1U K 16V	

Electrical Parts List

Ref.	Part No.	Description	Note
C2343	3034093426	CERAMIC 0.1U K 16V	
C2344	3034093426	CERAMIC 0.1U K 16V	
C2346	3034093426	CERAMIC 0.1U K 16V	
C2347	3034093426	CERAMIC 0.1U K 16V	
C2348	3034093426	CERAMIC 0.1U K 16V	
C2349	3034093426	CERAMIC 0.1U K 16V	
C2351	3034093426	CERAMIC 0.1U K 16V	
C2352	3034093426	CERAMIC 0.1U K 16V	
C2353	3034093426	CERAMIC 0.1U K 16V	
C2354	3034093426	CERAMIC 0.1U K 16V	
C2356	3034093426	CERAMIC 0.1U K 16V	
C2357	3034093426	CERAMIC 0.1U K 16V	
C2358	3034093426	CERAMIC 0.1U K 16V	
C2359	3034093426	CERAMIC 0.1U K 16V	
C236	3033583215	CERAMIC 10U K 6.3V	
C2360	3034093426	CERAMIC 0.1U K 16V	
C2361	3034093426	CERAMIC 0.1U K 16V	
C2362	3034093426	CERAMIC 0.1U K 16V	
C2363	3034093426	CERAMIC 0.1U K 16V	
C2364	3034093426	CERAMIC 0.1U K 16V	
C2365	3033925015	CERAMIC 22U M 6.3V	
C2366	3034093426	CERAMIC 0.1U K 16V	
C2367	3034093426	CERAMIC 0.1U K 16V	
C2368	3034093426	CERAMIC 0.1U K 16V	
C2369	3034093426	CERAMIC 0.1U K 16V	
C237	3034093426	CERAMIC 0.1U K 16V	
C2371	3034093426	CERAMIC 0.1U K 16V	
C2372	3034093426	CERAMIC 0.1U K 16V	
C2373	3034093426	CERAMIC 0.1U K 16V	
C2374	3034093426	CERAMIC 0.1U K 16V	
C2375	4034551012	CERAMIC 1U K 10V	
C2376	3034093426	CERAMIC 0.1U K 16V	
C2377	3034093426	CERAMIC 0.1U K 16V	
C2378	3034093426	CERAMIC 0.1U K 16V	
C2379	3034093426	CERAMIC 0.1U K 16V	
C238	3034093426	CERAMIC 0.1U K 16V	
C2380	3034093426	CERAMIC 0.1U K 16V	
C2381	3034093426	CERAMIC 0.1U K 16V	
C2382	3034093426	CERAMIC 0.1U K 16V	
C2383	3034093426	CERAMIC 0.1U K 16V	
C2384	3034093426	CERAMIC 0.1U K 16V	
C2385	3034093426	CERAMIC 0.1U K 16V	
C2386	3034093426	CERAMIC 0.1U K 16V	
C2387	3034093426	CERAMIC 0.1U K 16V	
C2388	3034093426	CERAMIC 0.1U K 16V	
C2389	3034093426	CERAMIC 0.1U K 16V	
C239	3034093426	CERAMIC 0.1U K 16V	
C2390	3033925015	CERAMIC 22U M 6.3V	
C2391	3034093426	CERAMIC 0.1U K 16V	
C2392	3034093426	CERAMIC 0.1U K 16V	
C2393	3034093426	CERAMIC 0.1U K 16V	
C2394	3034093426	CERAMIC 0.1U K 16V	
C2395	3034093426	CERAMIC 0.1U K 16V	
C2396	3034093426	CERAMIC 0.1U K 16V	
C241	3034093426	CERAMIC 0.1U K 16V	
C242	3034093426	CERAMIC 0.1U K 16V	
C2501	3033976611	ELECT 10U M 25V	
C2502	4034670911	CERAMIC 0.1U K 25V	
C251	3034093426	CERAMIC 0.1U K 16V	
C252	3034093426	CERAMIC 0.1U K 16V	
C2521	4034670911	CERAMIC 0.1U K 25V	
C2531	3033976611	ELECT 10U M 25V	
C2532	4034670911	CERAMIC 0.1U K 25V	
C254	3034093426	CERAMIC 0.1U K 16V	
C2556	3033969613	CERAMIC 1U K 25V	
C2557	3033969613	CERAMIC 1U K 25V	
C2558	3033969613	CERAMIC 1U K 25V	
C2559	3033984111	ELECT 47U M 16V	
C256	3034093426	CERAMIC 0.1U K 16V	
C2561	3033976611	ELECT 10U M 25V	
C2562	4034670911	CERAMIC 0.1U K 25V	
C257	3034093426	CERAMIC 0.1U K 16V	
C2581	4034670911	CERAMIC 0.1U K 25V	
C2582	3033763112	ELECT 100U M 25V	
C2583	4034670911	CERAMIC 0.1U K 25V	
C2584	3033763112	ELECT 100U M 25V	
C2586	4034670911	CERAMIC 0.1U K 25V	
C2587	3033969613	CERAMIC 1U K 25V	
C2588	3033969613	CERAMIC 1U K 25V	
C2589	3033969613	CERAMIC 1U K 25V	
C259	3034093426	CERAMIC 0.1U K 16V	
C2591	3033984111	ELECT 47U M 16V	
C2593	3033969613	CERAMIC 1U K 25V	
C2594	4034670911	CERAMIC 0.1U K 25V	
C2596	3033969613	CERAMIC 1U K 25V	
C2597	3033969613	CERAMIC 1U K 25V	
C2598	3033984111	ELECT 47U M 16V	
C261	3034093426	CERAMIC 0.1U K 16V	
C2610	3034539617	CERAMIC 33P J 50V	
C2611	3034539617	CERAMIC 33P J 50V	
C2612	3034539617	CERAMIC 33P J 50V	
C2613	3034539617	CERAMIC 33P J 50V	
C2614	3034539617	CERAMIC 33P J 50V	
C2615	3034539617	CERAMIC 33P J 50V	
C2616	3034539617	CERAMIC 33P J 50V	
C2617	3034539617	CERAMIC 33P J 50V	
C2618	3034539617	CERAMIC 33P J 50V	
C2619	3034539617	CERAMIC 33P J 50V	
C262	3034093426	CERAMIC 0.1U K 16V	
C2620	3034539617	CERAMIC 33P J 50V	
C2621	3034539617	CERAMIC 33P J 50V	
C2622	3034539617	CERAMIC 33P J 50V	
C2623	3034539617	CERAMIC 33P J 50V	
C2624	3034539617	CERAMIC 33P J 50V	
C2625	3034539617	CERAMIC 33P J 50V	
C2626	3034540910	CERAMIC 100P J 50V	
C2627	3034540910	CERAMIC 100P J 50V	
C2628	3034540910	CERAMIC 100P J 50V	
C2629	3034539617	CERAMIC 33P J 50V	
C2630	3034539617	CERAMIC 33P J 50V	
C264	3034419810	CERAMIC 0.01U K 50V	
C266	3034093426	CERAMIC 0.1U K 16V	
C267	3034093426	CERAMIC 0.1U K 16V	
C269	3034093426	CERAMIC 0.1U K 16V	
C271	4034551012	CERAMIC 1U K 10V	
C272	3034093426	CERAMIC 0.1U K 16V	
C273	3033583215	CERAMIC 10U K 6.3V	
C2801	3034093426	CERAMIC 0.1U K 16V	
C2802	3034093426	CERAMIC 0.1U K 16V	
C2804	3034093426	CERAMIC 0.1U K 16V	
C281	3033835215	CERAMIC 4.7U K 6.3V	
C282	3034093426	CERAMIC 0.1U K 16V	
C2821	4034551012	CERAMIC 1U K 10V	
C2822	3033984111	ELECT 47U M 16V	
C2823	3031574215	CERAMIC 220P J 50V	
C283	3033583215	CERAMIC 10U K 6.3V	
C291	3033835215	CERAMIC 4.7U K 6.3V	
C292	3034093426	CERAMIC 0.1U K 16V	
C293	3033583215	CERAMIC 10U K 6.3V	
C301	3034093426	CERAMIC 0.1U K 16V	
C302	3034093426	CERAMIC 0.1U K 16V	
C303	4034551012	CERAMIC 1U K 10V	
C304	3034093426	CERAMIC 0.1U K 16V	
C305	4034551012	CERAMIC 1U K 10V	
C306	3034093426	CERAMIC 0.1U K 16V	
C307	4034551012	CERAMIC 1U K 10V	
C308	3034093426	CERAMIC 0.1U K 16V	
C309	3034093426	CERAMIC 0.1U K 16V	
C310	3034093426	CERAMIC 0.1U K 16V	
C311	3034093426	CERAMIC 0.1U K 16V	
C312	3034093426	CERAMIC 0.1U K 16V	
C313	3034093426	CERAMIC 0.1U K 16V	

Electrical Parts List

Ref.	Part No.	Description	Note
C318	3034093426	CERAMIC 0.1U K 16V	
C321	3034093426	CERAMIC 0.1U K 16V	
C322	3034093426	CERAMIC 0.1U K 16V	
C323	3034093426	CERAMIC 0.1U K 16V	
C325	4034551012	CERAMIC 1U K 10V	
C327	4034551012	CERAMIC 1U K 10V	
C328	4034551012	CERAMIC 1U K 10V	
C331	3034093426	CERAMIC 0.1U K 16V	
C332	3034093426	CERAMIC 0.1U K 16V	
C333	3034093426	CERAMIC 0.1U K 16V	
C334	3034093426	CERAMIC 0.1U K 16V	
C336	3034093426	CERAMIC 0.1U K 16V	
C337	3034093426	CERAMIC 0.1U K 16V	
C338	3034093426	CERAMIC 0.1U K 16V	
C339	3034093426	CERAMIC 0.1U K 16V	
C341	3034093426	CERAMIC 0.1U K 16V	
C342	3034093426	CERAMIC 0.1U K 16V	
C343	4034551012	CERAMIC 1U K 10V	
C344	4034551012	CERAMIC 1U K 10V	
C346	3034093426	CERAMIC 0.1U K 16V	
C347	3034093426	CERAMIC 0.1U K 16V	
C348	3034093426	CERAMIC 0.1U K 16V	
C349	3034093426	CERAMIC 0.1U K 16V	
C351	3034093426	CERAMIC 0.1U K 16V	
C352	3034093426	CERAMIC 0.1U K 16V	
C353	3034093426	CERAMIC 0.1U K 16V	
C354	3034093426	CERAMIC 0.1U K 16V	
C356	3034093426	CERAMIC 0.1U K 16V	
C357	3034093426	CERAMIC 0.1U K 16V	
C358	3034093426	CERAMIC 0.1U K 16V	
C3580	3034013810	ELECT 10U M 25V	
C359	3034093426	CERAMIC 0.1U K 16V	
C361	3034093426	CERAMIC 0.1U K 16V	
C362	4034551012	CERAMIC 1U K 10V	
C363	3034093426	CERAMIC 0.1U K 16V	
C364	4034551012	CERAMIC 1U K 10V	
C366	3034093426	CERAMIC 0.1U K 16V	
C367	4034551012	CERAMIC 1U K 10V	
C368	3034093426	CERAMIC 0.1U K 16V	
C369	4034551012	CERAMIC 1U K 10V	
C371	3034093426	CERAMIC 0.1U K 16V	
C372	3034093426	CERAMIC 0.1U K 16V	
C373	4034551012	CERAMIC 1U K 10V	
C374	3034093426	CERAMIC 0.1U K 16V	
C375	3034093426	CERAMIC 0.1U K 16V	
C376	3034093426	CERAMIC 0.1U K 16V	
C377	3034093426	CERAMIC 0.1U K 16V	
C378	3034093426	CERAMIC 0.1U K 16V	
C379	3034093426	CERAMIC 0.1U K 16V	
C380	3034093426	CERAMIC 0.1U K 16V	
C3807	3034093426	CERAMIC 0.1U K 16V	
C3808	3034093426	CERAMIC 0.1U K 16V	
C3809	3034093426	CERAMIC 0.1U K 16V	
C381	4034551012	CERAMIC 1U K 10V	
C382	3034093426	CERAMIC 0.1U K 16V	
C383	3034093426	CERAMIC 0.1U K 16V	
C384	3034093426	CERAMIC 0.1U K 16V	
C385	3034093426	CERAMIC 0.1U K 16V	
C3851	3034093426	CERAMIC 0.1U K 16V	
C386	4034551012	CERAMIC 1U K 10V	
C387	3034093426	CERAMIC 0.1U K 16V	
C388	3034093426	CERAMIC 0.1U K 16V	
C389	3034093426	CERAMIC 0.1U K 16V	
C3902	3034093426	CERAMIC 0.1U K 16V	
C3903	3034093426	CERAMIC 0.1U K 16V	
C391	3034093426	CERAMIC 0.1U K 16V	
C392	3034093426	CERAMIC 0.1U K 16V	
C393	3034093426	CERAMIC 0.1U K 16V	
C394	3034331112	CERAMIC 1U K 10V	
C395	3034093426	CERAMIC 0.1U K 16V	
C396	3034093426	CERAMIC 0.1U K 16V	
C397	3034093426	CERAMIC 0.1U K 16V	
C398	3034093426	CERAMIC 0.1U K 16V	
C399	3034093426	CERAMIC 0.1U K 16V	
C4011	4034670911	CERAMIC 0.1U K 25V	
C4012	4034670911	CERAMIC 0.1U K 25V	
C404	4034551012	CERAMIC 1U K 10V	
C406	4034551012	CERAMIC 1U K 10V	
C407	4034551012	CERAMIC 1U K 10V	
C408	4034551012	CERAMIC 1U K 10V	
C409	4034551012	CERAMIC 1U K 10V	
C411	4034551012	CERAMIC 1U K 10V	
C412	4034551012	CERAMIC 1U K 10V	
C413	4034587219	ELECT 100U M 6.3V	
C414	4034551012	CERAMIC 1U K 10V	
C416	4034551012	CERAMIC 1U K 10V	
C417	4034551012	CERAMIC 1U K 10V	
C418	4034551012	CERAMIC 1U K 10V	
C419	4034551012	CERAMIC 1U K 10V	
C421	3033976611	ELECT 10U M 25V	
C422	4034551012	CERAMIC 1U K 10V	
C423	4034551012	CERAMIC 1U K 10V	
C424	4034551012	CERAMIC 1U K 10V	
C426	4034551012	CERAMIC 1U K 10V	
C427	4034551012	CERAMIC 1U K 10V	
C428	3033976611	ELECT 10U M 25V	
C429	4034551012	CERAMIC 1U K 10V	
C431	3033976611	ELECT 10U M 25V	
C432	4034551012	CERAMIC 1U K 10V	
C433	4034551012	CERAMIC 1U K 10V	
C434	4034551012	CERAMIC 1U K 10V	
C436	4034551012	CERAMIC 1U K 10V	
C437	3033976611	ELECT 10U M 25V	
C438	4034551012	CERAMIC 1U K 10V	
C439	4034551012	CERAMIC 1U K 10V	
C4401	3034093426	CERAMIC 0.1U K 16V	
C4402	3034093426	CERAMIC 0.1U K 16V	
C4408	3034093426	CERAMIC 0.1U K 16V	
C4409	3034093426	CERAMIC 0.1U K 16V	
C441	4034551012	CERAMIC 1U K 10V	
C4413	3034093426	CERAMIC 0.1U K 16V	
C4414	3034093426	CERAMIC 0.1U K 16V	
C4417	3034093426	CERAMIC 0.1U K 16V	
C4418	3034093426	CERAMIC 0.1U K 16V	
C4419	3034093426	CERAMIC 0.1U K 16V	
C442	4034551012	CERAMIC 1U K 10V	
C4424	3034093426	CERAMIC 0.1U K 16V	
C4425	3034204812	CERAMIC 10U K 10V	
C4427	3034093426	CERAMIC 0.1U K 16V	
C4429	3034093426	CERAMIC 0.1U K 16V	
C443	4034551012	CERAMIC 1U K 10V	
C4431	3034093426	CERAMIC 0.1U K 16V	
C4432	3034093426	CERAMIC 0.1U K 16V	
C4433	3034093426	CERAMIC 0.1U K 16V	
C4434	3034093426	CERAMIC 0.1U K 16V	
C4436	3034093426	CERAMIC 0.1U K 16V	
C4437	3034093426	CERAMIC 0.1U K 16V	
C4438	3034093426	CERAMIC 0.1U K 16V	
C4439	3034093426	CERAMIC 0.1U K 16V	
C444	3033976611	ELECT 10U M 25V	
C4440	3034093426	CERAMIC 0.1U K 16V	
C4441	3034093426	CERAMIC 0.1U K 16V	
C4442	4034551012	CERAMIC 1U K 10V	
C4443	3032844317	CERAMIC 0.022U K 50V	
C4444	3034538214	CERAMIC 10P J 50V	
C4445	3034093426	CERAMIC 0.1U K 16V	
C4446	3034093426	CERAMIC 0.1U K 16V	
C4447	3033925015	CERAMIC 22U M 6.3V	
C4448	3033925015	CERAMIC 22U M 6.3V	
C4449	4034551616	CERAMIC 10U K 16V	
C4450	4034551616	CERAMIC 10U K 16V	
C4451	4034551012	CERAMIC 1U K 10V	

Electrical Parts List

Ref.	Part No.	Description	Note
C4454	3034093426	CERAMIC 0.1U K 16V	
C4455	3033915214	ELECT 47U M 16V	
C4456	3034093426	CERAMIC 0.1U K 16V	
C4457	3034093426	CERAMIC 0.1U K 16V	
C4458	3034093426	CERAMIC 0.1U K 16V	
C4459	3034093426	CERAMIC 0.1U K 16V	
C446	4034551012	CERAMIC 1U K 10V	
C4460	3034093426	CERAMIC 0.1U K 16V	
C4462	4034551012	CERAMIC 1U K 10V	
C4463	3032795114	CERAMIC 3300P K 50V	
C4464	3034538214	CERAMIC 10P J 50V	
C4465	3034093426	CERAMIC 0.1U K 16V	
C4466	3033925015	CERAMIC 22U M 6.3V	
C4467	3033925015	CERAMIC 22U M 6.3V	
C4468	4034551616	CERAMIC 10U K 16V	
C4469	4034551616	CERAMIC 10U K 16V	
C447	4034551012	CERAMIC 1U K 10V	
C4471	4034551616	CERAMIC 10U K 16V	
C4472	4034551616	CERAMIC 10U K 16V	
C4473	3034538214	CERAMIC 10P J 50V	
C4475	4034551012	CERAMIC 1U K 10V	
C4476	3032795114	CERAMIC 3300P K 50V	
C4476	3034539518	CERAMIC 3300P K 50V	
C4477	3034093426	CERAMIC 0.1U K 16V	
C4478	3033925015	CERAMIC 22U M 6.3V	
C4479	3033925015	CERAMIC 22U M 6.3V	
C448	4034551012	CERAMIC 1U K 10V	
C4481	4034551012	CERAMIC 1U K 10V	
C4483	3033925015	CERAMIC 22U M 6.3V	
C4484	3033949318	ELECT 220U M 6.3V	
C4485	3034204812	CERAMIC 10U K 10V	
C4486	3034204812	CERAMIC 10U K 10V	
C4487	3034204812	CERAMIC 10U K 10V	
C4488	3034204812	CERAMIC 10U K 10V	
C4489	3034093426	CERAMIC 0.1U K 16V	
C449	3033976611	ELECT 10U M 25V	
C4491	4034551012	CERAMIC 1U K 10V	
C4493	3033925015	CERAMIC 22U M 6.3V	
C4494	4034584812	ELECT 220U M 16V	
C4495	4034584812	ELECT 220U M 16V	
C4501	3034093426	CERAMIC 0.1U K 16V	
C451	4034551012	CERAMIC 1U K 10V	
C452	4034551012	CERAMIC 1U K 10V	
C453	4034551012	CERAMIC 1U K 10V	
C454	4034551012	CERAMIC 1U K 10V	
C456	4034587219	ELECT 100U M 6.3V	
C457	4034551012	CERAMIC 1U K 10V	
C458	4034551012	CERAMIC 1U K 10V	
C459	4034551012	CERAMIC 1U K 10V	
C461	4034551012	CERAMIC 1U K 10V	
C462	4034551012	CERAMIC 1U K 10V	
C463	4034551012	CERAMIC 1U K 10V	
C464	4034551012	CERAMIC 1U K 10V	
C466	4034551012	CERAMIC 1U K 10V	
C467	4034551012	CERAMIC 1U K 10V	
C468	4034551012	CERAMIC 1U K 10V	
C469	4034551012	CERAMIC 1U K 10V	
C471	3033976611	ELECT 10U M 25V	
C4711	3034093426	CERAMIC 0.1U K 16V	
C472	4034551012	CERAMIC 1U K 10V	
C473	4034551012	CERAMIC 1U K 10V	
C474	4034587219	ELECT 100U M 6.3V	
C476	4034551012	CERAMIC 1U K 10V	
C477	4034551012	CERAMIC 1U K 10V	
C478	4034551012	CERAMIC 1U K 10V	
C479	3033976611	ELECT 10U M 25V	
C501	3033984111	ELECT 47U M 16V	
C502	4034551012	CERAMIC 1U K 10V	
C503	3033969613	CERAMIC 1U K 25V	
C504	3033969613	CERAMIC 1U K 25V	
C505	4034551012	CERAMIC 1U K 10V	
C506	3033763112	ELECT 100U M 25V	
C507	3033969613	CERAMIC 1U K 25V	
C508	3033969613	CERAMIC 1U K 25V	
C509	3033969613	CERAMIC 1U K 25V	
C511	3033969613	CERAMIC 1U K 25V	
C512	3032825118	CERAMIC 470P K 50V	
C513	3033969613	CERAMIC 1U K 25V	
C514	3033763112	ELECT 100U M 25V	
C516	3033969613	CERAMIC 1U K 25V	
C517	3033969613	CERAMIC 1U K 25V	
C518	4034551012	CERAMIC 1U K 10V	
C5202	3034093426	CERAMIC 0.1U K 16V	
C5203	4034584812	ELECT 220U M 16V	
C5204	3034093426	CERAMIC 0.1U K 16V	
C5205	4034587615	ELECT 100U M 16V	
C5206	4034587615	ELECT 100U M 16V	
C5207	4034584812	ELECT 220U M 16V	
C5208	3034093426	CERAMIC 0.1U K 16V	
C5209	4034584812	ELECT 220U M 16V	
C5210	3034093426	CERAMIC 0.1U K 16V	
C5212	4034587219	ELECT 100U M 6.3V	
C5214	4034551012	CERAMIC 1U K 10V	
C5215	3034093426	CERAMIC 0.1U K 16V	
C5217	3034093426	CERAMIC 0.1U K 16V	
C5218	3034093426	CERAMIC 0.1U K 16V	
C5219	3034093426	CERAMIC 0.1U K 16V	
C5220	3034093426	CERAMIC 0.1U K 16V	
C5221	3034093426	CERAMIC 0.1U K 16V	
C5222	3034093426	CERAMIC 0.1U K 16V	
C5223	4034551012	CERAMIC 1U K 10V	
C5224	3032761317	CERAMIC 1000P K 50V	
C5225	3034093426	CERAMIC 0.1U K 16V	
C5226	3034093426	CERAMIC 0.1U K 16V	
C5227	4034587219	ELECT 100U M 6.3V	
C5228	3034093426	CERAMIC 0.1U K 16V	
C5229	3034093426	CERAMIC 0.1U K 16V	
C5230	3034093426	CERAMIC 0.1U K 16V	
C5231	3034093426	CERAMIC 0.1U K 16V	
C5232	3034093426	CERAMIC 0.1U K 16V	
C5233	3034093426	CERAMIC 0.1U K 16V	
C5234	3034093426	CERAMIC 0.1U K 16V	
C5235	3034093426	CERAMIC 0.1U K 16V	
C5236	3034093426	CERAMIC 0.1U K 16V	
C5237	3034093426	CERAMIC 0.1U K 16V	
C5238	3034093426	CERAMIC 0.1U K 16V	
C5239	3034093426	CERAMIC 0.1U K 16V	
C5240	3034093426	CERAMIC 0.1U K 16V	
C5241	3034093426	CERAMIC 0.1U K 16V	
C5243	3034093426	CERAMIC 0.1U K 16V	
C5244	3034093426	CERAMIC 0.1U K 16V	
C5245	3034093426	CERAMIC 0.1U K 16V	
C5246	3034093426	CERAMIC 0.1U K 16V	
C5247	3034093426	CERAMIC 0.1U K 16V	
C5248	3034093426	CERAMIC 0.1U K 16V	
C5249	3034093426	CERAMIC 0.1U K 16V	
C5252	3034093426	CERAMIC 0.1U K 16V	
C5254	4034584812	ELECT 220U M 16V	
C5255	3034093426	CERAMIC 0.1U K 16V	
C5271	4034587219	ELECT 100U M 6.3V	
C5272	4034587219	ELECT 100U M 6.3V	
C5273	4034584812	ELECT 220U M 16V	
C5274	4034584812	ELECT 220U M 16V	
C5275	4034584812	ELECT 220U M 16V	
C5276	3034093426	CERAMIC 0.1U K 16V	
C5277	3032761317	CERAMIC 1000P K 50V	
C5278	4034551012	CERAMIC 1U K 10V	
C5279	4034551012	CERAMIC 1U K 10V	
C5281	3034093426	CERAMIC 0.1U K 16V	
C5282	3034093426	CERAMIC 0.1U K 16V	
C5283	3034093426	CERAMIC 0.1U K 16V	
C5284	3034093426	CERAMIC 0.1U K 16V	

Electrical Parts List

Ref.	Part No.	Description	Note
C5291	4034551012	CERAMIC 1U K 10V	
C5292	3033583215	CERAMIC 10U K 6.3V	
C5293	4034551012	CERAMIC 1U K 10V	
C5294	4034587615	ELECT 100U M 16V	
C531	3033984111	ELECT 47U M 16V	
C532	4034551012	CERAMIC 1U K 10V	
C533	3033969613	CERAMIC 1U K 25V	
C5333	3033363510	CERAMIC 0.47U K 16V	
C534	3033969613	CERAMIC 1U K 25V	
C535	4034551012	CERAMIC 1U K 10V	
C536	3033763112	ELECT 100U M 25V	
C537	3033969613	CERAMIC 1U K 25V	
C538	3033969613	CERAMIC 1U K 25V	
C539	3033969613	CERAMIC 1U K 25V	
C541	3033969613	CERAMIC 1U K 25V	
C542	3032825118	CERAMIC 470P K 50V	
C543	3033969613	CERAMIC 1U K 25V	
C544	3033763112	ELECT 100U M 25V	
C546	3033969613	CERAMIC 1U K 25V	
C547	3033969613	CERAMIC 1U K 25V	
C548	4034551012	CERAMIC 1U K 10V	
C5501	3034093426	CERAMIC 0.1U K 16V	
C5502	3034419810	CERAMIC 0.01U K 50V	
C5521	3034093426	CERAMIC 0.1U K 16V	
C5522	3034419810	CERAMIC 0.01U K 50V	
C5531	3034374614	CERAMIC 10U K 25V	
C5532	4034670911	CERAMIC 0.1U K 25V	
C5534	3033984111	ELECT 47U M 16V	
C5541	3034374614	CERAMIC 10U K 25V	
C5542	4034670911	CERAMIC 0.1U K 25V	
C5543	3033984111	ELECT 47U M 16V	
C5551	3034093426	CERAMIC 0.1U K 16V	
C5552	3034093426	CERAMIC 0.1U K 16V	
C5561	3034093426	CERAMIC 0.1U K 16V	
C5562	3034419810	CERAMIC 0.01U K 50V	
C5567	4034551012	CERAMIC 1U K 10V	
C561	3033984111	ELECT 47U M 16V	
C562	4034551012	CERAMIC 1U K 10V	
C5621	3034093426	CERAMIC 0.1U K 16V	
C5622	3033583215	CERAMIC 10U K 6.3V	
C5623	3033583215	CERAMIC 10U K 6.3V	
C5624	4034551012	CERAMIC 1U K 10V	
C5625	4034551012	CERAMIC 1U K 10V	
C5627	3034093426	CERAMIC 0.1U K 16V	
C5628	4034587219	ELECT 100U M 6.3V	
C563	3033969613	CERAMIC 1U K 25V	
C5631	3034015715	CERAMIC 0.33U K 16V	
C5632	3034015715	CERAMIC 0.33U K 16V	
C5633	3034015715	CERAMIC 0.33U K 16V	
C5634	3034015715	CERAMIC 0.33U K 16V	
C5635	3034015715	CERAMIC 0.33U K 16V	
C5636	4034587219	ELECT 100U M 6.3V	
C5637	3034093426	CERAMIC 0.1U K 16V	
C5638	3034015715	CERAMIC 0.33U K 16V	
C5639	3034015715	CERAMIC 0.33U K 16V	
C564	3033969613	CERAMIC 1U K 25V	
C5640	3034015715	CERAMIC 0.33U K 16V	
C5641	3034015715	CERAMIC 0.33U K 16V	
C5642	3034015715	CERAMIC 0.33U K 16V	
C565	4034551012	CERAMIC 1U K 10V	
C566	3033763112	ELECT 100U M 25V	
C5665	4034551012	CERAMIC 1U K 10V	
C567	3033969613	CERAMIC 1U K 25V	
C568	3033969613	CERAMIC 1U K 25V	
C5683	3033583215	CERAMIC 10U K 6.3V	
C569	3033969613	CERAMIC 1U K 25V	
C571	3033969613	CERAMIC 1U K 25V	
C572	3032825118	CERAMIC 470P K 50V	
C573	3033969613	CERAMIC 1U K 25V	
C574	3033763112	ELECT 100U M 25V	
C576	3033969613	CERAMIC 1U K 25V	
C577	3033969613	CERAMIC 1U K 25V	
C578	4034551012	CERAMIC 1U K 10V	
C5801	3034093426	CERAMIC 0.1U K 16V	
C5802	3033058812	CERAMIC 47P J 50V	
C5803	3033058812	CERAMIC 47P J 50V	
C5804	3033727510	CERAMIC 2.2U K 6.3V	
C5805	3033727510	CERAMIC 2.2U K 6.3V	
C5806	3033727510	CERAMIC 2.2U K 6.3V	
C5807	3033727510	CERAMIC 2.2U K 6.3V	
C5808	3034093426	CERAMIC 0.1U K 16V	
C5809	3034093426	CERAMIC 0.1U K 16V	
C5810	3033727510	CERAMIC 2.2U K 6.3V	
C5811	3033727510	CERAMIC 2.2U K 6.3V	
C5815	3034540910	CERAMIC 100P J 50V	
C5816	3034540910	CERAMIC 100P J 50V	
C5817	3034540910	CERAMIC 100P J 50V	
C5818	3034540910	CERAMIC 100P J 50V	
C5819	3034093426	CERAMIC 0.1U K 16V	
C5820	3034093426	CERAMIC 0.1U K 16V	
C5821	4034551616	CERAMIC 10U K 16V	
C5822	4034551616	CERAMIC 10U K 16V	
C5823	3034538214	CERAMIC 10P J 50V	
C5826	4034551012	CERAMIC 1U K 10V	
C5827	3032795114	CERAMIC 3300P K 50V	
C5828	3034093426	CERAMIC 0.1U K 16V	
C5829	3033925015	CERAMIC 22U M 6.3V	
C5831	3033925015	CERAMIC 22U M 6.3V	
C5832	3034540910	CERAMIC 100P J 50V	
C5833	3034540910	CERAMIC 100P J 50V	
C5834	3034540910	CERAMIC 100P J 50V	
C5835	3034540910	CERAMIC 100P J 50V	
C5836	3034540910	CERAMIC 100P J 50V	
C5837	3034540910	CERAMIC 100P J 50V	
C5838	3034540910	CERAMIC 100P J 50V	
C5839	3034093426	CERAMIC 0.1U K 16V	
C5841	4034551616	CERAMIC 10U K 16V	
C5842	4034551616	CERAMIC 10U K 16V	
C5843	3034538214	CERAMIC 10P J 50V	
C5845	4034551012	CERAMIC 1U K 10V	
C5846	3033066510	CERAMIC 8200P K 50V	
C5847	3034093426	CERAMIC 0.1U K 16V	
C5848	3033925015	CERAMIC 22U M 6.3V	
C5849	3033925015	CERAMIC 22U M 6.3V	
C5850	3034093426	CERAMIC 0.1U K 16V	
C5851	3034093426	CERAMIC 0.1U K 16V	
C5853	4034551012	CERAMIC 1U K 10V	
C5854	4034587615	ELECT 100U M 16V	
C5855	3034093426	CERAMIC 0.1U K 16V	
C5856	4034587615	ELECT 100U M 16V	
C5860	3034093426	CERAMIC 0.1U K 16V	
C5862	4034551616	CERAMIC 10U K 16V	
C5863	3034093426	CERAMIC 0.1U K 16V	
C5864	4034551616	CERAMIC 10U K 16V	
C5865	3034093426	CERAMIC 0.1U K 16V	
C5867	3032247019	CERAMIC 0.047U Z 50V	
C5868	3032796210	CERAMIC 10P J 50V	
C5869	3033925015	CERAMIC 22U M 6.3V	
C5871	3033925015	CERAMIC 22U M 6.3V	
C5885	3033984111	ELECT 47U M 16V	
C5887	3034093426	CERAMIC 0.1U K 16V	
C5891	4034587219	ELECT 100U M 6.3V	
C591	3033763112	ELECT 100U M 25V	
C596	3033763112	ELECT 100U M 25V	
C597	4034670911	CERAMIC 0.1U K 25V	
C598	3033763112	ELECT 100U M 25V	
C599	4034670911	CERAMIC 0.1U K 25V	
C6001	3033983312	ELECT 47U M 10V	
C6002	3034093426	CERAMIC 0.1U K 16V	
C6003	3032761911	CERAMIC 22P J 50V	
C6004	3033983312	ELECT 47U M 10V	
C6005	3034093426	CERAMIC 0.1U K 16V	

Electrical Parts List

Ref.	Part No.	Description	Note
C6006	3034093426	CERAMIC 0.1U K 16V	
C6008	3034093426	CERAMIC 0.1U K 16V	
C6101	3034540910	CERAMIC 100P J 50V	
C6102	3034540910	CERAMIC 100P J 50V	
C6103	3034540910	CERAMIC 100P J 50V	
C6104	3034540910	CERAMIC 100P J 50V	
C6502	3034419810	CERAMIC 0.01U K 50V	
C6505	3033969613	CERAMIC 1U K 25V	
C6521	4034670911	CERAMIC 0.1U K 25V	
C6522	3034419810	CERAMIC 0.01U K 50V	
C6526	3034093426	CERAMIC 0.1U K 16V	
C6527	4034670911	CERAMIC 0.1U K 25V	
C6528	4034670911	CERAMIC 0.1U K 25V	
C6529	4034670911	CERAMIC 0.1U K 25V	
C6531	4034670911	CERAMIC 0.1U K 25V	
C6532	3034093426	CERAMIC 0.1U K 16V	
C6533	3034093426	CERAMIC 0.1U K 16V	
C6534	3034093426	CERAMIC 0.1U K 16V	
C6536	3034093426	CERAMIC 0.1U K 16V	
C6537	3034093426	CERAMIC 0.1U K 16V	
C6538	3034093426	CERAMIC 0.1U K 16V	
C6551	3034093426	CERAMIC 0.1U K 16V	
C6552	3034093426	CERAMIC 0.1U K 16V	
C6553	3034093426	CERAMIC 0.1U K 16V	
C6554	3034093426	CERAMIC 0.1U K 16V	
C6601	4034551616	CERAMIC 10U K 16V	
C6602	4034551616	CERAMIC 10U K 16V	
C6603	3033727510	CERAMIC 2.2U K 6.3V	
C6604	3034538214	CERAMIC 10P J 50V	
C6605	4034551012	CERAMIC 1U K 10V	
C6606	3032795114	CERAMIC 3300P K 50V	
C6607	3034093426	CERAMIC 0.1U K 16V	
C6608	3034093426	CERAMIC 0.1U K 16V	
C6613	4034670911	CERAMIC 0.1U K 25V	
C6614	4034584812	ELECT 220U M 16V	
C6621	3033925015	CERAMIC 22U M 6.3V	
C6622	3033925015	CERAMIC 22U M 6.3V	
C6623	3033423313	CERAMIC 0.1U K 25V	
C6631	3033763112	ELECT 100U M 25V	
C6632	4034551616	CERAMIC 10U K 16V	
C6633	3033763112	ELECT 100U M 25V	
C6634	4034670911	CERAMIC 0.1U K 25V	
C6652	3034204812	CERAMIC 10U K 10V	
C6653	3033949318	ELECT 220U M 6.3V	
C6660	4034551012	CERAMIC 1U K 10V	
C6662	4034551012	CERAMIC 1U K 10V	
C6663	3034093426	CERAMIC 0.1U K 16V	
C6664	4034587219	ELECT 100U M 6.3V	
C6665	3034093426	CERAMIC 0.1U K 16V	
C6666	3033246417	CERAMIC 0.022U K 16V	
C6668	3033975713	ELECT 100U M 10V	
C6671	4034551012	CERAMIC 1U K 10V	
C6681	3034502215	CERAMIC 0.22U K 25V	
C6682	4034670911	CERAMIC 0.1U K 25V	
C6684	3033797315	CERAMIC 4700P K 50V	
C6686	4034670911	CERAMIC 0.1U K 25V	
C6687	4034584812	ELECT 220U M 16V	
C6688	4034584812	ELECT 220U M 16V	
C6690	3034204812	CERAMIC 10U K 10V	
C6691	3033763112	ELECT 100U M 25V	
C6692	3034093426	CERAMIC 0.1U K 16V	
C6693	4034670911	CERAMIC 0.1U K 25V	
C6694	3034093426	CERAMIC 0.1U K 16V	
C6695	4034584812	ELECT 220U M 16V	
C6696	3033763112	ELECT 100U M 25V	
C6698	3034093426	CERAMIC 0.1U K 16V	
C6699	3034093426	CERAMIC 0.1U K 16V	
C7100	3034093426	CERAMIC 0.1U K 16V	
C7101	4034551012	CERAMIC 1U K 10V	
C7701	3033969613	CERAMIC 1U K 25V	
C7703	4034670911	CERAMIC 0.1U K 25V	
C7704	4034670911	CERAMIC 0.1U K 25V	
C7706	4034670911	CERAMIC 0.1U K 25V	
C7707	4034587615	ELECT 100U M 16V	
C7709	3033363510	CERAMIC 0.47U K 16V	
C7710	4034587615	ELECT 100U M 16V	
C7712	3034093426	CERAMIC 0.1U K 16V	
C7713	4034584812	ELECT 220U M 16V	
C7714	3034540910	CERAMIC 100P J 50V	
C7721	3033969613	CERAMIC 1U K 25V	
C7723	4034670911	CERAMIC 0.1U K 25V	
C7724	4034670911	CERAMIC 0.1U K 25V	
C7725	3034374614	CERAMIC 10U K 25V	
C7726	4034670911	CERAMIC 0.1U K 25V	
C7727	4034584812	ELECT 220U M 16V	
C7728	3033363510	CERAMIC 0.47U K 16V	
C7729	3033363510	CERAMIC 0.47U K 16V	
C7730	3034374614	CERAMIC 10U K 25V	
C7731	3033423313	CERAMIC 0.1U K 25V	
C7732	3034093426	CERAMIC 0.1U K 16V	
C7733	4034584812	ELECT 220U M 16V	
C7734	3034540910	CERAMIC 100P J 50V	
C7735	3033423313	CERAMIC 0.1U K 25V	
C7742	3034093426	CERAMIC 0.1U K 16V	
C7743	4034584812	ELECT 220U M 16V	
C7744	3034540910	CERAMIC 100P J 50V	
C7747	3034093426	CERAMIC 0.1U K 16V	
C7748	4034584812	ELECT 220U M 16V	
C7749	3034540910	CERAMIC 100P J 50V	
C7752	3034093426	CERAMIC 0.1U K 16V	
C7753	4034584812	ELECT 220U M 16V	
C7754	3034540910	CERAMIC 100P J 50V	
C7757	3034093426	CERAMIC 0.1U K 16V	
C7758	4034584812	ELECT 220U M 16V	
C7759	3034540910	CERAMIC 100P J 50V	
C7780	3033985415	ELECT 47U M 25V	
C7798	3033985415	ELECT 47U M 25V	
C7799	3033763112	ELECT 100U M 25V	
C7801	4034587219	ELECT 100U M 6.3V	
C7802	3034093426	CERAMIC 0.1U K 16V	
C7803	3034093426	CERAMIC 0.1U K 16V	
C7806	4034587219	ELECT 100U M 6.3V	
C7807	3034093426	CERAMIC 0.1U K 16V	
C7808	3034093426	CERAMIC 0.1U K 16V	
C7809	3034093426	CERAMIC 0.1U K 16V	
C7811	3034093426	CERAMIC 0.1U K 16V	
C7821	3034093426	CERAMIC 0.1U K 16V	
C7822	3033985415	ELECT 47U M 25V	
C7823	3034419810	CERAMIC 0.01U K 50V	
C7824	3034419810	CERAMIC 0.01U K 50V	
C7825	4034587615	ELECT 100U M 16V	
C7832	3034093426	CERAMIC 0.1U K 16V	
C7833	4034584812	ELECT 220U M 16V	
C7834	3034540910	CERAMIC 100P J 50V	
C7841	3034093426	CERAMIC 0.1U K 16V	
C7842	3033985415	ELECT 47U M 25V	
C7843	3034419810	CERAMIC 0.01U K 50V	
C7844	3034419810	CERAMIC 0.01U K 50V	
C7845	4034587615	ELECT 100U M 16V	
C7850	3034093426	CERAMIC 0.1U K 16V	
C7851	4034587615	ELECT 100U M 16V	
C7852	3034093426	CERAMIC 0.1U K 16V	
C7853	4034587615	ELECT 100U M 16V	
C7854	3034540910	CERAMIC 100P J 50V	
C7860	3034419810	CERAMIC 0.01U K 50V	
C7861	3034093426	CERAMIC 0.1U K 16V	
C7862	3033985415	ELECT 47U M 25V	
C7863	3034419810	CERAMIC 0.01U K 50V	
C7864	3034419810	CERAMIC 0.01U K 50V	
C7865	4034587615	ELECT 100U M 16V	
C7868	3034419810	CERAMIC 0.01U K 50V	
C7869	3034419810	CERAMIC 0.01U K 50V	

Electrical Parts List

Ref.	Part No.	Description	Note
C7870	3034419810	CERAMIC 0.01U K 50V	
C7871	3034540910	CERAMIC 100P J 50V	
C7872	3034093426	CERAMIC 0.1U K 16V	
C7876	4034584812	ELECT 220U M 16V	
C7880	3034419810	CERAMIC 0.01U K 50V	
C7881	3034093426	CERAMIC 0.1U K 16V	
C7882	3033985415	ELECT 47U M 25V	
C7883	3034419810	CERAMIC 0.01U K 50V	
C7884	3034419810	CERAMIC 0.01U K 50V	
C7885	4034587615	ELECT 100U M 16V	
C7888	3034093426	CERAMIC 0.1U K 16V	
C7889	4034587615	ELECT 100U M 16V	
C7890	4034587615	ELECT 100U M 16V	
C7891	3034540910	CERAMIC 100P J 50V	
C7896	3034419810	CERAMIC 0.01U K 50V	
C7921	3034093426	CERAMIC 0.1U K 16V	
C7922	3033985415	ELECT 47U M 25V	
C7923	3034419810	CERAMIC 0.01U K 50V	
C7924	3034419810	CERAMIC 0.01U K 50V	
C7925	4034587615	ELECT 100U M 16V	
C7931	4034587615	ELECT 100U M 16V	
C7932	3034093426	CERAMIC 0.1U K 16V	
C7933	4034587615	ELECT 100U M 16V	
C7934	3034540910	CERAMIC 100P J 50V	
C7950	3034093426	CERAMIC 0.1U K 16V	
C7960	3034419810	CERAMIC 0.01U K 50V	
C7961	3034419810	CERAMIC 0.01U K 50V	
C7962	3034419810	CERAMIC 0.01U K 50V	
C7963	3034419810	CERAMIC 0.01U K 50V	
C7964	3034419810	CERAMIC 0.01U K 50V	
C8001	3034093426	CERAMIC 0.1U K 16V	
C8002	3034093426	CERAMIC 0.1U K 16V	
C8003	3034093426	CERAMIC 0.1U K 16V	
C8004	3034093426	CERAMIC 0.1U K 16V	
C8005	3034093426	CERAMIC 0.1U K 16V	
C8006	3034093426	CERAMIC 0.1U K 16V	
C8007	3034093426	CERAMIC 0.1U K 16V	
C8008	3034093426	CERAMIC 0.1U K 16V	
C8009	3034093426	CERAMIC 0.1U K 16V	
C801	3034093426	CERAMIC 0.1U K 16V	
C8010	3034093426	CERAMIC 0.1U K 16V	
C8012	3034093426	CERAMIC 0.1U K 16V	
C8013	3034093426	CERAMIC 0.1U K 16V	
C8014	3034093426	CERAMIC 0.1U K 16V	
C8016	3034093426	CERAMIC 0.1U K 16V	
C8017	3034093426	CERAMIC 0.1U K 16V	
C8018	3034093426	CERAMIC 0.1U K 16V	
C8019	3034093426	CERAMIC 0.1U K 16V	
C8020	3034093426	CERAMIC 0.1U K 16V	
C8021	3034093426	CERAMIC 0.1U K 16V	
C8022	3034093426	CERAMIC 0.1U K 16V	
C8023	3034093426	CERAMIC 0.1U K 16V	
C8024	3034093426	CERAMIC 0.1U K 16V	
C8026	3034093426	CERAMIC 0.1U K 16V	
C8027	3034093426	CERAMIC 0.1U K 16V	
C8028	3034093426	CERAMIC 0.1U K 16V	
C8029	3034093426	CERAMIC 0.1U K 16V	
C8030	3034093426	CERAMIC 0.1U K 16V	
C8031	3034093426	CERAMIC 0.1U K 16V	
C8032	3034093426	CERAMIC 0.1U K 16V	
C8033	3033092519	CERAMIC 27P J 50V	
C8034	3033092519	CERAMIC 27P J 50V	
C8036	3034093426	CERAMIC 0.1U K 16V	
C8037	3034093426	CERAMIC 0.1U K 16V	
C8051	3033583215	CERAMIC 10U K 6.3V	
C8052	3034093426	CERAMIC 0.1U K 16V	
C8053	3034093426	CERAMIC 0.1U K 16V	
C8054	3034093426	CERAMIC 0.1U K 16V	
C8056	3034093426	CERAMIC 0.1U K 16V	
C8057	3034093426	CERAMIC 0.1U K 16V	
C8058	3034093426	CERAMIC 0.1U K 16V	
C8059	3034093426	CERAMIC 0.1U K 16V	
C8081	4034551012	CERAMIC 1U K 10V	
C8086	3033583215	CERAMIC 10U K 6.3V	
C8087	3033949318	ELECT 220U M 6.3V	
C809	3034093426	CERAMIC 0.1U K 16V	
C8091	3034279315	ELECT 100U M 6.3V	
C8092	3034093426	CERAMIC 0.1U K 16V	
C8093	3034093426	CERAMIC 0.1U K 16V	
C8094	3034093426	CERAMIC 0.1U K 16V	
C8095	3032761317	CERAMIC 1000P K 50V	
C8096	3034093426	CERAMIC 0.1U K 16V	
C8097	3034093426	CERAMIC 0.1U K 16V	
C8098	3032761317	CERAMIC 1000P K 50V	
C8099	3034093426	CERAMIC 0.1U K 16V	
C810	3034093426	CERAMIC 0.1U K 16V	
C8101	3034093426	CERAMIC 0.1U K 16V	
C8106	3034093426	CERAMIC 0.1U K 16V	
C8108	3034093426	CERAMIC 0.1U K 16V	
C8109	3034093426	CERAMIC 0.1U K 16V	
C8110	3034093426	CERAMIC 0.1U K 16V	
C8111	3034093426	CERAMIC 0.1U K 16V	
C8112	3034093426	CERAMIC 0.1U K 16V	
C8115	3034093426	CERAMIC 0.1U K 16V	
C8160	3034279315	ELECT 100U M 6.3V	
C8161	3033583215	CERAMIC 10U K 6.3V	
C8162	3034279315	ELECT 100U M 6.3V	
C8163	3033583215	CERAMIC 10U K 6.3V	
C8201	3034093426	CERAMIC 0.1U K 16V	
C8202	3034247017	CERAMIC 0.047U K 25V	
C8203	3034247017	CERAMIC 0.047U K 25V	
C8204	3034247017	CERAMIC 0.047U K 25V	
C8206	3034247017	CERAMIC 0.047U K 25V	
C8207	3034093426	CERAMIC 0.1U K 16V	
C8208	3034093426	CERAMIC 0.1U K 16V	
C8209	3034093426	CERAMIC 0.1U K 16V	
C821	3034093426	CERAMIC 0.1U K 16V	
C822	3034093426	CERAMIC 0.1U K 16V	
C8231	3034093426	CERAMIC 0.1U K 16V	
C8232	3034093426	CERAMIC 0.1U K 16V	
C8233	3034093426	CERAMIC 0.1U K 16V	
C8234	3034093426	CERAMIC 0.1U K 16V	
C8236	3034247017	CERAMIC 0.047U K 25V	
C8237	3034247017	CERAMIC 0.047U K 25V	
C8239	3034247017	CERAMIC 0.047U K 25V	
C8241	3034093426	CERAMIC 0.1U K 16V	
C8243	3034093426	CERAMIC 0.1U K 16V	
C825	3034093426	CERAMIC 0.1U K 16V	
C826	3034093426	CERAMIC 0.1U K 16V	
C8261	3034093426	CERAMIC 0.1U K 16V	
C8262	3034093426	CERAMIC 0.1U K 16V	
C8263	3034247017	CERAMIC 0.047U K 25V	
C8264	3034093426	CERAMIC 0.1U K 16V	
C8266	3034247017	CERAMIC 0.047U K 25V	
C8267	3034247017	CERAMIC 0.047U K 25V	
C8268	3034419810	CERAMIC 0.01U K 50V	
C8269	3034247017	CERAMIC 0.047U K 25V	
C8271	3034093426	CERAMIC 0.1U K 16V	
C8272	3034093426	CERAMIC 0.1U K 16V	
C8291	4034551012	CERAMIC 1U K 10V	
C8292	3034093426	CERAMIC 0.1U K 16V	
C8293	3034093426	CERAMIC 0.1U K 16V	
C8294	3034093426	CERAMIC 0.1U K 16V	
C8295	3034093426	CERAMIC 0.1U K 16V	
C8296	4034551012	CERAMIC 1U K 10V	
C8301	3033915511	ELECT 10U M 16V	
C8302	3033915511	ELECT 10U M 16V	
C8303	3034093426	CERAMIC 0.1U K 16V	
C8804	3034093426	CERAMIC 0.1U K 16V	
C8806	3034093426	CERAMIC 0.1U K 16V	
C8807	3034093426	CERAMIC 0.1U K 16V	
C8809	3034093426	CERAMIC 0.1U K 16V	

Electrical Parts List

Ref.	Part No.	Description	Note
C8810	3034093426	CERAMIC 0.1U K 16V	
C8812	3033583215	CERAMIC 10U K 6.3V	
C8813	4034587219	ELECT 100U M 6.3V	
C8814	3034093426	CERAMIC 0.1U K 16V	
C8817	3034093426	CERAMIC 0.1U K 16V	
C8818	3034093426	CERAMIC 0.1U K 16V	
C8819	3032763113	CERAMIC 33P J 50V	
C8820	3032763113	CERAMIC 33P J 50V	
C8821	3033969613	CERAMIC 1U K 25V	
C8822	4034564210	CERAMIC 470P J 50V	
C8824	3034093426	CERAMIC 0.1U K 16V	
C8827	3034093426	CERAMIC 0.1U K 16V	
C8831	3034093426	CERAMIC 0.1U K 16V	
C8832	3034093426	CERAMIC 0.1U K 16V	
C8833	4034551012	CERAMIC 1U K 10V	
C8841	3034540910	CERAMIC 100P J 50V	
C8842	3034540910	CERAMIC 100P J 50V	
C8847	3033583215	CERAMIC 10U K 6.3V	
C8848	3032844317	CERAMIC 0.022U K 50V	
C9875	3033058812	CERAMIC 47P J 50V	
C9878	3034420410	CERAMIC 0.022U K 25V	
C9883	3033921215	ELECT 47U M 6.3V	
C9884	3034093426	CERAMIC 0.1U K 16V	
D001	3072350816	DIODE 1SS387 TPL3	
D002	3072350816	DIODE 1SS387 TPL3	
D1002	3072094512	ZD UDZS-TE-176.8B	
D1003	3072542716	DIODE CMS16	
D1004	3072542716	DIODE CMS16	
D1005	3072094512	ZD UDZS-TE-176.8B	
D1024	3072091214	ZD UDZS-TE-176.2B	
D1026	3072091214	ZD UDZS-TE-176.2B	
D1031	3072105416	DIODE RB551V-30-TE-17	
D1091	3011506014	MT-GLAZE 0.000 ZA 1/10W	
D1091	3011506014	MT-GLAZE 0.000 ZA 1/10W	
D1092	3072055216	DIODE RB521S-30-TE61	
D1451	3071490810	DIODE 1SS355-TE-17	
D1454	3071490810	DIODE 1SS355-TE-17	
D1802	3072091214	ZD UDZS-TE-176.2B	
D1803	3072091214	ZD UDZS-TE-176.2B	
D1804	3072091214	ZD UDZS-TE-176.2B	
D1805	3072091214	ZD UDZS-TE-176.2B	
D202	3072066311	ZD UDZS-TE-175.1B	
D2043	3071490810	DIODE 1SS355-TE-17	
D2045	3071490810	DIODE 1SS355-TE-17	
D276	3071490810	DIODE 1SS355-TE-17	
D353	3071490810	DIODE 1SS355-TE-17	
D354	3071490810	DIODE 1SS355-TE-17	
D355	3071490810	DIODE 1SS355-TE-17	
D356	3071490810	DIODE 1SS355-TE-17	
D357	3071490810	DIODE 1SS355-TE-17	
D358	3071490810	DIODE 1SS355-TE-17	
D4461	3072094512	ZD UDZS-TE-176.8B	
D5271	3072105416	DIODE RB551V-30-TE-17	
D5503	3072091214	ZD UDZS-TE-176.2B	
D5523	3072091214	ZD UDZS-TE-176.2B	
D5531	3071490810	DIODE 1SS355-TE-17	
D5532	3071490810	DIODE 1SS355-TE-17	
D5621	3071490810	DIODE 1SS355-TE-17	
D5622	3072542716	DIODE CMS16	
D5641	4080627201	DIODE 1SS355	
D5801	3072091214	ZD UDZS-TE-176.2B	
D5802	3072091214	ZD UDZS-TE-176.2B	
D5803	3072091214	ZD UDZS-TE-176.2B	
D5850	3072091214	ZD UDZS-TE-176.2B	
D5851	3072091214	ZD UDZS-TE-176.2B	
D5852	3072091214	ZD UDZS-TE-176.2B	
D5853	3072091214	ZD UDZS-TE-176.2B	
D5854	3072091214	ZD UDZS-TE-176.2B	
D5856	3072091214	ZD UDZS-TE-176.2B	
D5891	3072350816	DIODE 1SS387 TPL3	
D5892	3072350816	DIODE 1SS387 TPL3	
D5893	3072350816	DIODE 1SS387 TPL3	
D592	3071490810	DIODE 1SS355-TE-17	
D6503	3072312210	ZENER DIODE UDZS13B-TE-17	
D6523	3072312210	ZENER DIODE UDZS13B-TE-17	
D6603	3072542716	DIODE CMS16	
D6604	3071490810	DIODE 1SS355-TE-17	
D6623	3071490810	DIODE 1SS355-TE-17	
D6676	3071490810	DIODE 1SS355-TE-17	
D7701	3072542716	DIODE CMS16	
D7721	3072542716	DIODE CMS16	
D7824	3071490810	DIODE 1SS355-TE-17	
D7826	3071490810	DIODE 1SS355-TE-17	
D7827	3071490810	DIODE 1SS355-TE-17	
D7828	3071490810	DIODE 1SS355-TE-17	
D7829	3071490810	DIODE 1SS355-TE-17	
D7850	3071490810	DIODE 1SS355-TE-17	
D7851	3071490810	DIODE 1SS355-TE-17	
D7852	3071490810	DIODE 1SS355-TE-17	
D7853	3071490810	DIODE 1SS355-TE-17	
D7854	3071490810	DIODE 1SS355-TE-17	
D7855	3071490810	DIODE 1SS355-TE-17	
D7856	3071490810	DIODE 1SS355-TE-17	
D7857	3071490810	DIODE 1SS355-TE-17	
D7858	3071490810	DIODE 1SS355-TE-17	
D7859	3071490810	DIODE 1SS355-TE-17	
D7860	3071490810	DIODE 1SS355-TE-17	
D7861	3071490810	DIODE 1SS355-TE-17	
D7960	3071490810	DIODE 1SS355-TE-17	
D7961	3071490810	DIODE 1SS355-TE-17	
D7962	3071490810	DIODE 1SS355-TE-17	
D7963	3071490810	DIODE 1SS355-TE-17	
D7964	3071490810	DIODE 1SS355-TE-17	
D7965	3071490810	DIODE 1SS355-TE-17	
D7966	3071490810	DIODE 1SS355-TE-17	
D7967	3071490810	DIODE 1SS355-TE-17	
D7968	3071490810	DIODE 1SS355-TE-17	
D7969	3071490810	DIODE 1SS355-TE-17	
D8076	3072281011	LED SML-310MT-M-T86	
D8161	3072055216	DIODE RB521S-30-TE61	
D8162	3072055216	DIODE RB521S-30-TE61	
D8163	3011506014	MT-GLAZE 0.000 ZA 1/10W	
D8163	3011506014	MT-GLAZE 0.000 ZA 1/10W	
D8164	3072055216	DIODE RB521S-30-TE61	
D851	3072091214	ZD UDZS-TE-176.2B	
D852	3072091214	ZD UDZS-TE-176.2B	
D853	3072091214	ZD UDZS-TE-176.2B	
D854	3072091214	ZD UDZS-TE-176.2B	
D855	3072091214	ZD UDZS-TE-176.2B	
D856	3072091214	ZD UDZS-TE-176.2B	
D857	3072091214	ZD UDZS-TE-176.2B	
D8902	3072350816	DIODE 1SS387 TPL3	
D9901	3071490810	DIODE 1SS355-TE-17	
D9902	3071490810	DIODE 1SS355-TE-17	
D9903	3071490810	DIODE 1SS355-TE-17	
D9904	3071490810	DIODE 1SS355-TE-17	
FB5801	9450866044	IMPEDANCE,470 OHM P	
FB5802	9450866044	IMPEDANCE,470 OHM P	
FB5803	9450866044	IMPEDANCE,470 OHM P	
FB7870	9450866044	IMPEDANCE,470 OHM P	
FB7871	9450866044	IMPEDANCE,470 OHM P	
FB7873	9450866044	IMPEDANCE,470 OHM P	
FB7874	9450866044	IMPEDANCE,470 OHM P	
FB7875	9450866044	IMPEDANCE,470 OHM P	
FB7876	9450866044	IMPEDANCE,470 OHM P	
FB7877	9450866044	IMPEDANCE,470 OHM P	
FB7878	9450866044	IMPEDANCE,470 OHM P	
FB7879	9450866044	IMPEDANCE,470 OHM P	
FB7880	9450866044	IMPEDANCE,470 OHM P	
FB7881	9450866044	IMPEDANCE,470 OHM P	
IC001	4107311908	IC TPA3111D1PWPR	
IC1003	3105176809	IC TC74LVX4053FT	

Electrical Parts List

Ref.	Part No.	Description	Note
IC1004	3094620327	IC 24LC21AT/SN	
IC1011	3094842016	IC BA7078AF-E2	
IC1301	3106163402	IC PST413A300NR	
IC1311	4107362504	IC M13S2561616A-5TG2A	
IC1331	4107362504	IC M13S2561616A-5TG2A	
IC1371	3104794004	IC TC7WBD125AFK	
IC1372	3104794004	IC TC7WBD125AFK	
IC1387	3105384907	IC 24LC64T-I/SNG	
IC1402	3094875727	IC TC7SZ125FU	
IC1441	4107357500	IC TJ3965GRS-ADJ-5L	
IC1451	3105958009	IC PQ1LAX95MSPQ	
IC1461	4107312004	IC TPS54327DDAR	
IC1816	4106312708	IC MCP9801T-M/SN	
IC1853	4106252004	IC TC7WH14FU(TE12L,F)	
IC201	3105878703	IC ISL98001CQZ-140	
IC2102	3104741404	IC TC74VCX162827FT	
IC2103	3104741404	IC TC74VCX162827FT	
IC2301	4097065815	IC IP00C783	
IC2351	4107150309	IC M13S128324A-5BG2M	
IC2391	4106596504	IC PQ1DX095MZPQ	
IC261	3095205513	IC TC7WZ08FU	
IC271	4096996516	IC TA48S00AF	
IC281	3105958009	IC PQ1LAX95MSPQ	
IC2810	3105960101	IC 74LVC14APW,118	
IC2811	3103487402	IC TC74LCX125FT(EL)	
IC2813	4094582315	IC TC7SZ32FU-TE85L	
IC291	3105958009	IC PQ1LAX95MSPQ	
IC301	4096865317	IC PW392C-30L	
IC302	3094875727	IC TC7SZ125FU	
IC303	3103626504	IC TC74LCX541FT	
IC354	3094875727	IC TC7SZ125FU	
IC3802	3103494103	IC TC7W241FU(TE12L)	
IC3803	3103494103	IC TC7W241FU(TE12L)	
IC3804	3103494103	IC TC7W241FU(TE12L)	
IC3850	4097061718	IC LIS331DLHTR	
IC3902	3094622420	IC TC7SZ08FU-(TE85L)	
IC3903	4094582315	IC TC7SZ32FU-TE85L	
IC4002	3103487501	IC TC7WT241FU(TE12L)	
IC401	4097000212	IC CXD3548GB	
IC4401	4106823600	IC XC3S200A-4FTG256C	
IC4441	4107312004	IC TPS54327DDAR	
IC4451	4107357500	IC TJ3965GRS-ADJ-5L	
IC4461	4107312004	IC TPS54327DDAR	
IC4471	4107312004	IC TPS54327DDAR	
IC4481	4107357500	IC TJ3965GRS-ADJ-5L	
IC4491	4107357500	IC TJ3965GRS-ADJ-5L	
IC4501	3106045906	IC 74LVC125APW,118	
IC4711	3103487402	IC TC74LCX125FT(EL)	
IC501	4096860213	IC CXA7009R	
IC5201	4106622203	IC XC3S50A-4FTG256C	
IC5251	4106526600	IC THS7347IPHPR	
IC5271	4106526600	IC THS7347IPHPR	
IC5291	4107357500	IC TJ3965GRS-ADJ-5L	
IC531	4096860213	IC CXA7009R	
IC5501	3093621127	IC BA6287F	
IC5521	3093621127	IC BA6287F	
IC5532	4106568501	IC XC6216BC02MR	
IC5542	4106568501	IC XC6216BC02MR	
IC5551	3093949310	IC TC7SH14FU(TE85L)	
IC5552	3093949310	IC TC7SH14FU(TE85L)	
IC5561	3093621127	IC BA6287F	
IC561	4096860213	IC CXA7009R	
IC5621	4096996516	IC TA48S00AF	
IC5821	4107312004	IC TPS54327DDAR	
IC5842	4107312004	IC TPS54327DDAR	
IC5851	4096996516	IC TA48S00AF	
IC5860	4107312004	IC TPS54327DDAR	
IC5891	4096996516	IC TA48S00AF	
IC5892	4096996516	IC TA48S00AF	
IC592	3094617822	IC PQ20WZ11	
IC601	4097062111	IC TB6608FNG	
IC602	3096445215	IC 74LVC1G04GW-125	
IC6502	3095376213	IC BA6920FP-YE2	
IC6521	3095376213	IC BA6920FP-YE2	
IC6551	3093973018	IC TC7SET04FU-(TE85L)	
IC6552	3093973018	IC TC7SET04FU-(TE85L)	
IC6553	3093973018	IC TC7SET04FU-(TE85L)	
IC6554	3093973018	IC TC7SET04FU-(TE85L)	
IC6606	3095316229	IC FA7701V-TE1	
IC6609	4107312004	IC TPS54327DDAR	
IC7100	4096996516	IC TA48S00AF	
IC7701	3095316229	IC FA7701V-TE1	
IC7721	3095316229	IC FA7701V-TE1	
IC7801	3094583414	IC M62393FP	
IC7821	3094617822	IC PQ20WZ11	
IC7841	3094617822	IC PQ20WZ11	
IC7850	3105960101	IC 74LVC14APW,118	
IC7861	3094617822	IC PQ20WZ11	
IC7881	3094617822	IC PQ20WZ11	
IC7921	3094617822	IC PQ20WZ11	
IC7960	3105960101	IC 74LVC14APW,118	
IC8001	4097159811	IC MN864771AKY	
IC801*	4107352307	IC S29GL064N90TFI030-KP4A	EX600
IC801*	4107350105	IC S29GL064N90TFI030-KS4A	EW630
IC8081	4107357500	IC TJ3965GRS-ADJ-5L	
IC809	3094875727	IC TC7SZ125FU	
IC8091	3104741404	IC TC74VCX162827FT	
IC8092	3104741404	IC TC74VCX162827FT	
IC810	3094875727	IC TC7SZ125FU	
IC8101	3095587213	IC 24C02CT-I/SNG	
IC8104	3094007118	IC TC7W53FU-(TE12L)	
IC8105	3094007118	IC TC7W53FU-(TE12L)	
IC8106	3094007118	IC TC7W53FU-(TE12L)	
IC8108	3094007118	IC TC7W53FU-(TE12L)	
IC8112	3104794004	IC TC7WBD125AFK	
IC8113	3104794004	IC TC7WBD125AFK	
IC8114	3095587213	IC 24C02CT-I/SNG	
IC8301	3095796516	IC PCM1754DBQR	
IC8803	4107344906	IC LAN8710A-EZC-TR	
IC8805	3104794004	IC TC7WBD125AFK	
IC8806	3104794004	IC TC7WBD125AFK	
IC9885	4107333108	IC MB95F353EPFT-G-SNERE2	
K10B	6451018632	SOCKET,DVI 24P	
K10C	6520033504	SOCKET,HDMI 19P	
K11A	9520018601	SOCKET,D-SUB 15P	
K14A	9520018571	SOCKET,D-SUB 15P	
K8801	6450936760	TRANS,PULSE	
L003	9450411978	INDUCTOR,330 OHM	
L011	9450622855	INDUCTOR,33U M	
L012	6520036819	INDUCTOR ,33U, M	
L1001	6520036499	INDUCTOR ,90 OHM	
L1002	6520036499	INDUCTOR ,90 OHM	
L1003	6520036499	INDUCTOR ,90 OHM	
L1004	6520036499	INDUCTOR ,90 OHM	
L1007	9450046644	INDUCTOR,220 OHM	
L1009	9450592240	INDUCTOR,2.2U M	
L101	6520033764	INDUCTOR ,600 OHM	
L1011	6520036499	INDUCTOR ,90 OHM	
L1012	6520036499	INDUCTOR ,90 OHM	
L1013	6520036499	INDUCTOR ,90 OHM	
L1014	6520036499	INDUCTOR ,90 OHM	
L1021	9450867577	FILTER,EMI 400MHZ	
L1022	9450867577	FILTER,EMI 400MHZ	
L1023	9450867577	FILTER,EMI 400MHZ	
L1024	9450867560	FILTER,EMI 200MHZ	
L1026	9450867560	FILTER,EMI 200MHZ	
L1341	9450508449	IMPEDANCE,1000 OHM P	
L1342	9450508449	IMPEDANCE,1000 OHM P	
L1351	9450411978	INDUCTOR,330 OHM	
L1352	9450328344	INDUCTOR,39U J	
L1452	6450689000	INDUCTOR,10U K	
L1453	9450592240	INDUCTOR,2.2U M	

Electrical Parts List

Ref.	Part No.	Description	Note
L1454	3011506014	MT-GLAZE 0.000 ZA 1/10W	
L1455	9450411978	INDUCTOR,330 OHM	
L1456	9450806828	INDUCTOR,3.3U M	
L1457	9450806828	INDUCTOR,3.3U M	
L1458	3011506014	MT-GLAZE 0.000 ZA 1/10W	
L1458	3011506014	MT-GLAZE 0.000 ZA 1/10W	
L1459	6450689000	INDUCTOR,10U K	
L1461	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L1461	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L1462	6451048431	INDUCTOR,2.2U N	
L2210	9450363895	INDUCTOR,220 OHM	
L2220	9450363895	INDUCTOR,220 OHM	
L2221	9450363895	INDUCTOR,220 OHM	
L2222	9450363895	INDUCTOR,220 OHM	
L2337	9450866037	IMPEDANCE,330 OHM P	
L2338	9450866037	IMPEDANCE,330 OHM P	
L2501	9450591755	INDUCTOR,22U J	
L2531	9450591755	INDUCTOR,22U J	
L2561	9450591755	INDUCTOR,22U J	
L2591	3012533712	MT-GLAZE 0.000 ZA 1/4W	
L2591	3012533712	MT-GLAZE 0.000 ZA 1/4W	
L2591	3012533712	MT-GLAZE 0.000 ZA 1/4W	
L2592	3012533712	MT-GLAZE 0.000 ZA 1/4W	
L2592	3012533712	MT-GLAZE 0.000 ZA 1/4W	
L2592	3012533712	MT-GLAZE 0.000 ZA 1/4W	
L276	3012533712	MT-GLAZE 0.000 ZA 1/4W	
L276	3012533712	MT-GLAZE 0.000 ZA 1/4W	
L276	3012533712	MT-GLAZE 0.000 ZA 1/4W	
L2894	9450866044	IMPEDANCE,470 OHM P	
L2899	9450866044	IMPEDANCE,470 OHM P	
L311	9450508449	IMPEDANCE,1000 OHM P	
L312	9450508449	IMPEDANCE,1000 OHM P	
L316	9450508449	IMPEDANCE,1000 OHM P	
L321	9450508449	IMPEDANCE,1000 OHM P	
L326	9450508449	IMPEDANCE,1000 OHM P	
L361	9450508449	IMPEDANCE,1000 OHM P	
L363	9450508449	IMPEDANCE,1000 OHM P	
L366	9450508449	IMPEDANCE,1000 OHM P	
L368	9450508449	IMPEDANCE,1000 OHM P	
L371	9450508449	IMPEDANCE,1000 OHM P	
L372	9450866662	IMPEDANCE,600 OHM P	
L4001	9450867577	FILTER,EMI 400MHZ	
L4002	9450867577	FILTER,EMI 400MHZ	
L4003	9450867577	FILTER,EMI 400MHZ	
L4004	9450867577	FILTER,EMI 400MHZ	
L4006	9450867577	FILTER,EMI 400MHZ	
L4425	9450866037	IMPEDANCE,330 OHM P	
L4441	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L4441	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L4443	6451048431	INDUCTOR,2.2U N	
L4461	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L4461	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L4462	6451048431	INDUCTOR,2.2U N	
L4471	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L4471	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L4472	6451048431	INDUCTOR,2.2U N	
L4473	9450866037	IMPEDANCE,330 OHM P	
L4474	9450866037	IMPEDANCE,330 OHM P	
L4476	9450866037	IMPEDANCE,330 OHM P	
L4477	9450866037	IMPEDANCE,330 OHM P	
L4492	9450866037	IMPEDANCE,330 OHM P	
L501	9450806828	INDUCTOR,3.3U M	
L5011	3012251814	MT-GLAZE 47 JA 1/16W	
L5011	3012251814	MT-GLAZE 47 JA 1/16W	
L502	9450806828	INDUCTOR,3.3U M	
L503	9450806828	INDUCTOR,3.3U M	
L5202	9450363895	INDUCTOR,220 OHM	
L5203	9450363895	INDUCTOR,220 OHM	
L5204	9450363895	INDUCTOR,220 OHM	
L5205	9450363895	INDUCTOR,220 OHM	
L5231	9450411978	INDUCTOR,330 OHM	
L5232	9450411978	INDUCTOR,330 OHM	
L5253	9450363895	INDUCTOR,220 OHM	
L5272	9450411978	INDUCTOR,330 OHM	
L5291	9450866600	IMPEDANCE,220 OHM P	
L531	9450806828	INDUCTOR,3.3U M	
L5311	3012251111	MT-GLAZE 27 JA 1/16W	
L532	9450806828	INDUCTOR,3.3U M	
L533	9450806828	INDUCTOR,3.3U M	
L5551	6520033764	INDUCTOR ,600 OHM	
L5552	6520033764	INDUCTOR ,600 OHM	
L5553	6520033764	INDUCTOR ,600 OHM	
L5554	6520033764	INDUCTOR ,600 OHM	
L561	9450806828	INDUCTOR,3.3U M	
L5611	3012251814	MT-GLAZE 47 JA 1/16W	
L5611	3012251814	MT-GLAZE 47 JA 1/16W	
L562	9450806828	INDUCTOR,3.3U M	
L5627	9450866662	IMPEDANCE,600 OHM P	
L563	9450806828	INDUCTOR,3.3U M	
L5631	3011506014	MT-GLAZE 0.000 ZA 1/10W	
L5631	3011506014	MT-GLAZE 0.000 ZA 1/10W	
L5632	6450485770	IMPEDANCE,33 OHM P	
L5633	6450485770	IMPEDANCE,33 OHM P	
L5634	6450485770	IMPEDANCE,33 OHM P	
L5641	6450485770	IMPEDANCE,33 OHM P	
L5751	6520033764	INDUCTOR ,600 OHM	
L5752	6520033764	INDUCTOR ,600 OHM	
L5753	6520033764	INDUCTOR ,600 OHM	
L5754	6520033764	INDUCTOR ,600 OHM	
L5801	9450866044	IMPEDANCE,470 OHM P	
L5802	9450866044	IMPEDANCE,470 OHM P	
L5803	6520033764	INDUCTOR ,600 OHM	
L5804	6520033764	INDUCTOR ,600 OHM	
L5805	6520033764	INDUCTOR ,600 OHM	
L5806	6520033764	INDUCTOR ,600 OHM	
L5807	6520033764	INDUCTOR ,600 OHM	
L5810	6520033764	INDUCTOR ,600 OHM	
L5811	6520033764	INDUCTOR ,600 OHM	
L5812	6520033764	INDUCTOR ,600 OHM	
L5813	6520033764	INDUCTOR ,600 OHM	
L5821	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L5821	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L5822	6451048431	INDUCTOR,2.2U N	
L5823	9450411978	INDUCTOR,330 OHM	
L5829	9450411978	INDUCTOR,330 OHM	
L5841	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L5841	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L5844	9450411978	INDUCTOR,330 OHM	
L5845	6451048431	INDUCTOR,2.2U N	
L5846	9450411978	INDUCTOR,330 OHM	
L5851	9450411978	INDUCTOR,330 OHM	
L5861	6451048431	INDUCTOR,2.2U N	
L5863	9450363895	INDUCTOR,220 OHM	
L5867	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L5867	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L5868	9450411978	INDUCTOR,330 OHM	
L592	9450866044	IMPEDANCE,470 OHM P	
L6001	9450363895	INDUCTOR,220 OHM	
L6002	9450363895	INDUCTOR,220 OHM	
L6003	9450363895	INDUCTOR,220 OHM	
L6004	9450363895	INDUCTOR,220 OHM	
L6005	9450866044	IMPEDANCE,470 OHM P	
L6006	6450923616	IMPEDANCE,22 OHM P	
L6511	6520033764	INDUCTOR ,600 OHM	
L6512	6520033764	INDUCTOR ,600 OHM	
L6513	6520033764	INDUCTOR ,600 OHM	
L6514	6520033764	INDUCTOR ,600 OHM	
L6515	6520033764	INDUCTOR ,600 OHM	
L6516	6520033764	INDUCTOR ,600 OHM	
L6517	6520033764	INDUCTOR ,600 OHM	
L6518	6520033764	INDUCTOR ,600 OHM	
L6519	6520033764	INDUCTOR ,600 OHM	

Electrical Parts List

Ref.	Part No.	Description	Note
L6520	6520033764	INDUCTOR ,600 OHM	
L6521	9450866044	IMPEDANCE,470 OHM P	
L6601	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L6601	3010375017	MT-GLAZE 0.000 ZA 1/10W	
L6603	9450374792	INDUCTOR,100U M	
L6610	9450622855	INDUCTOR,33U M	
L6661	9450411978	INDUCTOR,330 OHM	
L6662	9450363895	INDUCTOR,220 OHM	
L6663	6451048431	INDUCTOR,2.2U N	
L6664	6450892677	FILTER,EMI 1500PF	
L6665	6450892677	FILTER,EMI 1500PF	
L7101	9450411978	INDUCTOR,330 OHM	
L7701	9450374808	INDUCTOR,33U M	
L7702	9450865368	IMPEDANCE,220 OHM P	
L7703	9450865368	IMPEDANCE,220 OHM P	
L7721	9450374808	INDUCTOR,33U M	
L7801	9450592240	INDUCTOR,2.2U M	
L7802	9450592240	INDUCTOR,2.2U M	
L7870	6520033764	INDUCTOR ,600 OHM	
L7871	9450865368	IMPEDANCE,220 OHM P	
L7872	6520033764	INDUCTOR ,600 OHM	
L7873	9450865368	IMPEDANCE,220 OHM P	
L7876	6520033764	INDUCTOR ,600 OHM	
L7877	9450865368	IMPEDANCE,220 OHM P	
L7878	6520033764	INDUCTOR ,600 OHM	
L7879	9450865368	IMPEDANCE,220 OHM P	
L7880	6520033764	INDUCTOR ,600 OHM	
L7881	9450865368	IMPEDANCE,220 OHM P	
L7882	6520033764	INDUCTOR ,600 OHM	
L7883	9450865368	IMPEDANCE,220 OHM P	
L7884	6520033764	INDUCTOR ,600 OHM	
L7885	9450865368	IMPEDANCE,220 OHM P	
L7886	6520033764	INDUCTOR ,600 OHM	
L7887	9450865368	IMPEDANCE,220 OHM P	
L7888	6520033764	INDUCTOR ,600 OHM	
L7889	9450865368	IMPEDANCE,220 OHM P	
L7890	6520033764	INDUCTOR ,600 OHM	
L7891	9450865368	IMPEDANCE,220 OHM P	
L7892	6520033764	INDUCTOR ,600 OHM	
L7893	9450865368	IMPEDANCE,220 OHM P	
L8052	3011506014	MT-GLAZE 0.000 ZA 1/10W	
L8052	3011506014	MT-GLAZE 0.000 ZA 1/10W	
L812	6520033764	INDUCTOR ,600 OHM	
L813	6520033764	INDUCTOR ,600 OHM	
L814	6520033764	INDUCTOR ,600 OHM	
L815	6520033764	INDUCTOR ,600 OHM	
L816	9450866044	IMPEDANCE,470 OHM P	
L8160	9450866037	IMPEDANCE,330 OHM P	
L8161	9450866037	IMPEDANCE,330 OHM P	
L817	6520033764	INDUCTOR ,600 OHM	
L818	6520033764	INDUCTOR ,600 OHM	
L821	6450923616	IMPEDANCE,22 OHM P	
L822	6450923616	IMPEDANCE,22 OHM P	
L8291	9450508449	IMPEDANCE,1000 OHM P	
L8295	9450508449	IMPEDANCE,1000 OHM P	
L8801	9450866044	IMPEDANCE,470 OHM P	
L8802	6520033764	INDUCTOR ,600 OHM	
L8803	6520033764	INDUCTOR ,600 OHM	
L8804	6520033764	INDUCTOR ,600 OHM	
L8805	9450411978	INDUCTOR,330 OHM	
L8810	3011506014	MT-GLAZE 0.000 ZA 1/10W	
L8810	3011506014	MT-GLAZE 0.000 ZA 1/10W	
L8835	6451009340	IMPEDANCE,120 OHM P	
L8836	6451009340	IMPEDANCE,120 OHM P	
Q010	4060217804	TR 2SC4617	
Q1001	4060217804	TR 2SC4617	
Q1002	4060217804	TR 2SC4617	
Q1003	4060217804	TR 2SC4617	
Q1004	4060217804	TR 2SC4617	
Q1008	4060217804	TR 2SC4617	
Q1009	4052203016	TR ISA1235AC1F	
Q1010	4060217804	TR 2SC4617	
Q1011	4052203016	TR ISA1235AC1F	
Q1012	4060217804	TR 2SC4617	
Q1013	4060217804	TR 2SC4617	
Q1021	4060217804	TR 2SC4617	
Q1022	3052174913	TR RN1111 TE85L	
Q1023	3052174913	TR RN1111 TE85L	
Q1341	4060217804	TR 2SC4617	
Q1342	4052203016	TR ISA1235AC1F	
Q1343	4052203016	TR ISA1235AC1F	
Q1344	4060217804	TR 2SC4617	
Q1345	4052203016	TR ISA1235AC1F	
Q1361	3052111918	TR RJU002N06	
Q1363	3052111918	TR RJU002N06	
Q1860	4060217804	TR 2SC4617	
Q2043	4060217804	TR 2SC4617	
Q2501	3051589213	TR IMZ4-T108	
Q2502	3051589213	TR IMZ4-T108	
Q2531	3051589213	TR IMZ4-T108	
Q2532	3051589213	TR IMZ4-T108	
Q2561	3051589213	TR IMZ4-T108	
Q2562	3051589213	TR IMZ4-T108	
Q2801	4060217804	TR 2SC4617	
Q2802	4060217804	TR 2SC4617	
Q2803	4060217804	TR 2SC4617	
Q2804	4060217804	TR 2SC4617	
Q2805	4060217804	TR 2SC4617	
Q389	3052174913	TR RN1111 TE85L	
Q4001	4060217804	TR 2SC4617	
Q4441	3052174913	TR RN1111 TE85L	
Q4442	3052174913	TR RN1111 TE85L	
Q4451	3052174913	TR RN1111 TE85L	
Q4452	3052174913	TR RN1111 TE85L	
Q4461	3052174913	TR RN1111 TE85L	
Q4462	3052174913	TR RN1111 TE85L	
Q4471	3052174913	TR RN1111 TE85L	
Q4472	3052174913	TR RN1111 TE85L	
Q4481	3052174913	TR RN1111 TE85L	
Q4482	3052174913	TR RN1111 TE85L	
Q4491	3052174913	TR RN1111 TE85L	
Q4492	3052174913	TR RN1111 TE85L	
Q5251	3052174913	TR RN1111 TE85L	
Q5252	3052174913	TR RN1111 TE85L	
Q5501	4060217804	TR 2SC4617	
Q5521	4060217804	TR 2SC4617	
Q5561	4060217804	TR 2SC4617	
Q5856	4060217804	TR 2SC4617	
Q5861	4060217804	TR 2SC4617	
Q5862	4060217804	TR 2SC4617	
Q5863	4060217804	TR 2SC4617	
Q5869	4060217804	TR 2SC4617	
Q5894	4060217804	TR 2SC4617	
Q6501	4060217804	TR 2SC4617	
Q6521	4060217804	TR 2SC4617	
Q6601	3051741819	TR CPH3424-TL-E	
Q6602	3052177815	TR HN1B04FE-Y TE85L	
Q6611	3052178515	TR RSQ025P03-TR	
Q6612	3050479010	TR 2SB1204-S-TL-E	
Q6613	4060217804	TR 2SC4617	
Q6621	4060217804	TR 2SC4617	
Q6622	4060217804	TR 2SC4617	
Q6691	4060217804	TR 2SC4617	
Q6692	4052275013	TR NTMS4176PR2G	
Q7100	4052272814	TR TPC6113(TE85L,F,M)	
Q7101	4060217804	TR 2SC4617	
Q7701	4052275013	TR NTMS4176PR2G	
Q7702	3051397719	TR IMZ1A-T108	
Q7721	4052275013	TR NTMS4176PR2G	
Q7722	3051397719	TR IMZ1A-T108	
Q7782	4060217804	TR 2SC4617	
Q7783	4060217804	TR 2SC4617	

Electrical Parts List

Ref.	Part No.	Description	Note
Q7784	4060217804	TR 2SC4617	
Q7821	4060217804	TR 2SC4617	
Q7841	4060217804	TR 2SC4617	
Q7861	4060217804	TR 2SC4617	
Q7881	4060217804	TR 2SC4617	
Q7921	4060217804	TR 2SC4617	
Q8076	3050144512	TR 2SC2412K T146 R	
Q8091	4052203016	TR ISA1235AC1F	
Q8092	4060217804	TR 2SC4617	
Q8105	4060217804	TR 2SC4617	
Q8106	4060217804	TR 2SC4617	
Q8107	4052203016	TR ISA1235AC1F	
Q835	3052174913	TR RN1111 TE85L	
Q836	3052174913	TR RN1111 TE85L	
Q837	3052174913	TR RN1111 TE85L	
Q838	3052174913	TR RN1111 TE85L	
Q840	3052174913	TR RN1111 TE85L	
Q841	3052174913	TR RN1111 TE85L	
Q842	3052174913	TR RN1111 TE85L	
Q843	3052174913	TR RN1111 TE85L	
Q845	3052174913	TR RN1111 TE85L	
Q846	4060217804	TR 2SC4617	
Q8808	4052203016	TR ISA1235AC1F	
Q8809	4060217804	TR 2SC4617	
R001	3012249316	MT-GLAZE 1K JA 1/16W	
R002	3012250510	MT-GLAZE 33K JA 1/16W	
R003	3012652611	MT-GLAZE 5.1K FA 1/10W	
R004	3012642711	MT-GLAZE 120 FA 1/10W	
R008	3012764710	MT-GLAZE 0.000 ZA 1/3W	
R009	3012649314	MT-GLAZE 3.3K FA 1/10W	
R010	3012293913	MT-GLAZE 180 JA 1/16W	
R011	3012560312	MT-GLAZE 820 JA 1/10W	
R012	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R013	3011505819	MT-GLAZE 100K JA 1/10W	
R014	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R016	3012764710	MT-GLAZE 0.000 ZA 1/3W	
R031	3012249316	MT-GLAZE 1K JA 1/16W	
R1001	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1002	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1003	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1004	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1006	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1007	3012249019	MT-GLAZE 10K JA 1/16W	
R1008	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1009	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R101	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1010	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1011	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R1012	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1013	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1014	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1015	3012604016	MT-GLAZE 68 JA 1/3W	
R1016	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1017	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1018	3012251210	MT-GLAZE 4.7K JA 1/16W	
R102	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1021	3012249019	MT-GLAZE 10K JA 1/16W	
R1022	3012604115	MT-GLAZE 75 JA 1/3W	
R1023	3012604115	MT-GLAZE 75 JA 1/3W	
R1024	3012249316	MT-GLAZE 1K JA 1/16W	
R1025	3012604115	MT-GLAZE 75 JA 1/3W	
R1026	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1027	3012248814	MT-GLAZE 100 JA 1/16W	
R1028	3012384512	MT-GLAZE 47 JA 1/3W	
R103	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1031	3012251814	MT-GLAZE 47 JA 1/16W	
R1033	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1035	3012251715	MT-GLAZE 39K JA 1/16W	
R1036	3012249019	MT-GLAZE 10K JA 1/16W	
R1037	3012249019	MT-GLAZE 10K JA 1/16W	
R1038	3012251418	MT-GLAZE 47K JA 1/16W	
R1039	3012249019	MT-GLAZE 10K JA 1/16W	
R104	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1040	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1043	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R1044	3011505819	MT-GLAZE 100K JA 1/10W	
R1047	3012249316	MT-GLAZE 1K JA 1/16W	
R1048	3013013817	MT-GLAZE 820 FA 1/16W	
R1049	3012249316	MT-GLAZE 1K JA 1/16W	
R1051	3012249316	MT-GLAZE 1K JA 1/16W	
R1052	3012249316	MT-GLAZE 1K JA 1/16W	
R1054	3012248814	MT-GLAZE 100 JA 1/16W	
R1056	3012249316	MT-GLAZE 1K JA 1/16W	
R1063	3012249019	MT-GLAZE 10K JA 1/16W	
R1064	3012249019	MT-GLAZE 10K JA 1/16W	
R1065	3012249316	MT-GLAZE 1K JA 1/16W	
R1067	3012248814	MT-GLAZE 100 JA 1/16W	
R1072	3012249415	MT-GLAZE 1M JA 1/16W	
R1073	3012567618	MT-GLAZE 3.9K JA 1/10W	
R1074	3012248814	MT-GLAZE 100 JA 1/16W	
R1076	3012248814	MT-GLAZE 100 JA 1/16W	
R1077	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R1078	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R1081	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1082	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1084	3012253818	MT-GLAZE 1.5K JA 1/16W	
R1085	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1086	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R1088	3012604016	MT-GLAZE 68 JA 1/3W	
R1089	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1091	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1093	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1095	3012249514	MT-GLAZE 2.2K JA 1/16W	
R1096	3012251418	MT-GLAZE 47K JA 1/16W	
R1098	3012251418	MT-GLAZE 47K JA 1/16W	
R1101	3012251418	MT-GLAZE 47K JA 1/16W	
R1102	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1103	3012248814	MT-GLAZE 100 JA 1/16W	
R1104	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1105	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1131	3012258813	MT-GLAZE 39 JA 1/16W	
R1132	3012258813	MT-GLAZE 39 JA 1/16W	
R1133	3012258813	MT-GLAZE 39 JA 1/16W	
R1134	3012258813	MT-GLAZE 39 JA 1/16W	
R1135	3012258813	MT-GLAZE 39 JA 1/16W	
R1136	3012258813	MT-GLAZE 39 JA 1/16W	
R1238	3012265415	MT-GLAZE 56 JA 1/16W	
R1239	3012265415	MT-GLAZE 56 JA 1/16W	
R1241	3012265415	MT-GLAZE 56 JA 1/16W	
R1243	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1244	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1246	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1247	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1302	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1303	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1304	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1306	3012249316	MT-GLAZE 1K JA 1/16W	
R1308	3012258110	MT-GLAZE 10 JA 1/16W	
R1309	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1310	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1311	3013043616	MT-GLAZE 1K DA 1/16W	
R1312	3013043616	MT-GLAZE 1K DA 1/16W	
R1314	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1315	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1316	3012258110	MT-GLAZE 10 JA 1/16W	
R1318	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1319	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1320	3012258110	MT-GLAZE 10 JA 1/16W	
R1321	3013381015	MT-GLAZE 49.9 DA 1/16W	
R1322	3013381015	MT-GLAZE 49.9 DA 1/16W	
R1325	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1326	3012261516	MT-GLAZE 0.000 ZA 1/16W	

Electrical Parts List

Ref.	Part No.	Description	Note
R1327	3012249019	MT-GLAZE 10K JA 1/16W	
R1332	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1335	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1336	3012249316	MT-GLAZE 1K JA 1/16W	
R1337	3012249019	MT-GLAZE 10K JA 1/16W	
R1342	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1344	3012248913	MT-GLAZE 100K JA 1/16W	
R1345	3012249316	MT-GLAZE 1K JA 1/16W	
R1346	3012249316	MT-GLAZE 1K JA 1/16W	
R1347	3012249316	MT-GLAZE 1K JA 1/16W	
R1348	3012249316	MT-GLAZE 1K JA 1/16W	
R1349	3012249316	MT-GLAZE 1K JA 1/16W	
R1350	3012262414	MT-GLAZE 560 JA 1/16W	
R1351	3012249415	MT-GLAZE 1M JA 1/16W	
R1353	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1354	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1355	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1356	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1357	3012249316	MT-GLAZE 1K JA 1/16W	
R1358	3012637420	MT-GLAZE 75 JA 1/16W	
R1359	3012253818	MT-GLAZE 1.5K JA 1/16W	
R1361	3012636928	MT-GLAZE 2K JA 1/16W	
R1362	3012250213	MT-GLAZE 3.3K JA 1/16W	
R1363	3012636928	MT-GLAZE 2K JA 1/16W	
R1364	3012250213	MT-GLAZE 3.3K JA 1/16W	
R1365	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1366	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1367	3012250213	MT-GLAZE 3.3K JA 1/16W	
R1368	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1369	3012250213	MT-GLAZE 3.3K JA 1/16W	
R1370	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1371	3012249019	MT-GLAZE 10K JA 1/16W	
R1372	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1373	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1374	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1378	3012249019	MT-GLAZE 10K JA 1/16W	
R1379	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1380	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1387	3012250213	MT-GLAZE 3.3K JA 1/16W	
R1388	3012250213	MT-GLAZE 3.3K JA 1/16W	
R1390	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1398	3012249019	MT-GLAZE 10K JA 1/16W	
R1399	3012249019	MT-GLAZE 10K JA 1/16W	
R1408	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1409	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1410	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1413	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1414	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1415	3012251210	MT-GLAZE 4.7K JA 1/16W	
R1416	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1417	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1419	3012258110	MT-GLAZE 10 JA 1/16W	
R1421	3012249712	MT-GLAZE 22 JA 1/16W	
R1423	3012249712	MT-GLAZE 22 JA 1/16W	
R1426	3012249712	MT-GLAZE 22 JA 1/16W	
R1429	3012248814	MT-GLAZE 100 JA 1/16W	
R1431	3012250312	MT-GLAZE 33 JA 1/16W	
R1433	3012250312	MT-GLAZE 33 JA 1/16W	
R1437	3012250312	MT-GLAZE 33 JA 1/16W	
R1441	3012995411	MT-GLAZE 13K FA 1/16W	
R1442	3012994810	MT-GLAZE 2.7K FA 1/16W	
R1443	3012943511	MT-GLAZE 27K FA 1/16W	
R1451	3012257915	MT-GLAZE 220 JA 1/16W	
R1452	3012943016	MT-GLAZE 10K FA 1/16W	
R1453	3012943016	MT-GLAZE 10K FA 1/16W	
R1454	3012251715	MT-GLAZE 39K JA 1/16W	
R1455	3012249019	MT-GLAZE 10K JA 1/16W	
R1462	3012248913	MT-GLAZE 100K JA 1/16W	
R1463	3012943214	MT-GLAZE 47K FA 1/16W	
R1464	3012943511	MT-GLAZE 27K FA 1/16W	
R1466	3012872227	MT-GLAZE 22K FA 1/16W	
R1836	3012253818	MT-GLAZE 1.5K JA 1/16W	
R1839	3012248814	MT-GLAZE 100 JA 1/16W	
R1840	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1842	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1844	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1845	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1847	3012249019	MT-GLAZE 10K JA 1/16W	
R1848	3012249019	MT-GLAZE 10K JA 1/16W	
R1855	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1858	3012636928	MT-GLAZE 2K JA 1/16W	
R1861	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R202	3012258110	MT-GLAZE 10 JA 1/16W	
R203	3012258110	MT-GLAZE 10 JA 1/16W	
R2031	3012249712	MT-GLAZE 22 JA 1/16W	
R2032	3012249712	MT-GLAZE 22 JA 1/16W	
R2045	3012249019	MT-GLAZE 10K JA 1/16W	
R2048	3012249910	MT-GLAZE 22K JA 1/16W	
R2051	3012249910	MT-GLAZE 22K JA 1/16W	
R2053	3012249910	MT-GLAZE 22K JA 1/16W	
R211	3012986518	MT-GLAZE 3.3K FA 1/16W	
R212	3012942613	MT-GLAZE 4.7K FA 1/16W	
R213	3012252019	MT-GLAZE 680 JA 1/16W	
R213	3012252019	MT-GLAZE 680 JA 1/16W	
R214	3012252019	MT-GLAZE 680 JA 1/16W	
R2301	3012249712	MT-GLAZE 22 JA 1/16W	
R2302	3012249019	MT-GLAZE 10K JA 1/16W	
R2303	3012249712	MT-GLAZE 22 JA 1/16W	
R2304	3012249019	MT-GLAZE 10K JA 1/16W	
R2305	3012249019	MT-GLAZE 10K JA 1/16W	
R2306	3012248814	MT-GLAZE 100 JA 1/16W	
R2308	3012249712	MT-GLAZE 22 JA 1/16W	
R2309	3012249019	MT-GLAZE 10K JA 1/16W	
R231	3012258110	MT-GLAZE 10 JA 1/16W	
R2310	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2312	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2317	3012249019	MT-GLAZE 10K JA 1/16W	
R2319	3012249019	MT-GLAZE 10K JA 1/16W	
R232	3012249712	MT-GLAZE 22 JA 1/16W	
R2324	3012249019	MT-GLAZE 10K JA 1/16W	
R2325	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2326	3012249019	MT-GLAZE 10K JA 1/16W	
R2328	3012249019	MT-GLAZE 10K JA 1/16W	
R2330	3012249316	MT-GLAZE 1K JA 1/16W	
R2332	3012249019	MT-GLAZE 10K JA 1/16W	
R2333	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2334	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2335	3012249019	MT-GLAZE 10K JA 1/16W	
R2336	3012249019	MT-GLAZE 10K JA 1/16W	
R2339	3012249019	MT-GLAZE 10K JA 1/16W	
R234	3012249712	MT-GLAZE 22 JA 1/16W	
R2343	3012249019	MT-GLAZE 10K JA 1/16W	
R2345	3012249019	MT-GLAZE 10K JA 1/16W	
R2346	3012249019	MT-GLAZE 10K JA 1/16W	
R2348	3012249712	MT-GLAZE 22 JA 1/16W	
R2349	3012249712	MT-GLAZE 22 JA 1/16W	
R2350	3012249712	MT-GLAZE 22 JA 1/16W	
R2351	3012249712	MT-GLAZE 22 JA 1/16W	
R2353	3012258110	MT-GLAZE 10 JA 1/16W	
R2356	3012251913	MT-GLAZE 68 JA 1/16W	
R2357	3012251913	MT-GLAZE 68 JA 1/16W	
R2358	3012251913	MT-GLAZE 68 JA 1/16W	
R2359	3012251814	MT-GLAZE 47 JA 1/16W	
R2361	3012251814	MT-GLAZE 47 JA 1/16W	
R2362	3012251814	MT-GLAZE 47 JA 1/16W	
R2363	3012251814	MT-GLAZE 47 JA 1/16W	
R2364	3012251814	MT-GLAZE 47 JA 1/16W	
R2365	3012249019	MT-GLAZE 10K JA 1/16W	
R2366	3012251814	MT-GLAZE 47 JA 1/16W	
R2367	3012251814	MT-GLAZE 47 JA 1/16W	
R2368	3012251814	MT-GLAZE 47 JA 1/16W	
R2369	3012251814	MT-GLAZE 47 JA 1/16W	

Electrical Parts List

Ref.	Part No.	Description	Note
R2371	3012251814	MT-GLAZE 47 JA 1/16W	
R2372	3012251814	MT-GLAZE 47 JA 1/16W	
R2373	3012251814	MT-GLAZE 47 JA 1/16W	
R2374	3012251814	MT-GLAZE 47 JA 1/16W	
R2375	3012251814	MT-GLAZE 47 JA 1/16W	
R2376	3012251814	MT-GLAZE 47 JA 1/16W	
R2377	3012251814	MT-GLAZE 47 JA 1/16W	
R2378	3012251814	MT-GLAZE 47 JA 1/16W	
R2379	3012251814	MT-GLAZE 47 JA 1/16W	
R2381	3012251814	MT-GLAZE 47 JA 1/16W	
R2382	3012251814	MT-GLAZE 47 JA 1/16W	
R2383	3012251814	MT-GLAZE 47 JA 1/16W	
R2384	3012251814	MT-GLAZE 47 JA 1/16W	
R2386	3012251814	MT-GLAZE 47 JA 1/16W	
R2387	3012251814	MT-GLAZE 47 JA 1/16W	
R2401	3012251913	MT-GLAZE 68 JA 1/16W	
R2402	3012251913	MT-GLAZE 68 JA 1/16W	
R2403	3012251913	MT-GLAZE 68 JA 1/16W	
R2404	3012251913	MT-GLAZE 68 JA 1/16W	
R2501	3012258110	MT-GLAZE 10 JA 1/16W	
R2503	3012250213	MT-GLAZE 3.3K JA 1/16W	
R2504	3012592115	MT-GLAZE 1 JA 1/16W	
R2507	3012250213	MT-GLAZE 3.3K JA 1/16W	
R2508	3012592115	MT-GLAZE 1 JA 1/16W	
R2523	3012248913	MT-GLAZE 100K JA 1/16W	
R2531	3012258110	MT-GLAZE 10 JA 1/16W	
R2533	3012250213	MT-GLAZE 3.3K JA 1/16W	
R2534	3012592115	MT-GLAZE 1 JA 1/16W	
R2537	3012250213	MT-GLAZE 3.3K JA 1/16W	
R2538	3012592115	MT-GLAZE 1 JA 1/16W	
R2546	3012248913	MT-GLAZE 100K JA 1/16W	
R2549	3012248913	MT-GLAZE 100K JA 1/16W	
R2561	3012258110	MT-GLAZE 10 JA 1/16W	
R2563	3012250213	MT-GLAZE 3.3K JA 1/16W	
R2564	3012592115	MT-GLAZE 1 JA 1/16W	
R2567	3012250213	MT-GLAZE 3.3K JA 1/16W	
R2568	3012592115	MT-GLAZE 1 JA 1/16W	
R263	3012258110	MT-GLAZE 10 JA 1/16W	
R265	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R266	3012251814	MT-GLAZE 47 JA 1/16W	
R267	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R271	3012251814	MT-GLAZE 47 JA 1/16W	
R272	3012249019	MT-GLAZE 10K JA 1/16W	
R276	3013368818	MT-GLAZE 6.8K FA 1/16W	
R277	3012943115	MT-GLAZE 1K FA 1/16W	
R278	3012942613	MT-GLAZE 4.7K FA 1/16W	
R2800	3012560312	MT-GLAZE 820 JA 1/10W	
R2804	3012248913	MT-GLAZE 100K JA 1/16W	
R2809	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2810	3012248913	MT-GLAZE 100K JA 1/16W	
R2811	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2812	3012248913	MT-GLAZE 100K JA 1/16W	
R2813	3012248913	MT-GLAZE 100K JA 1/16W	
R2814	3012248913	MT-GLAZE 100K JA 1/16W	
R2815	3012249316	MT-GLAZE 1K JA 1/16W	
R2816	3012249316	MT-GLAZE 1K JA 1/16W	
R2817	3012249316	MT-GLAZE 1K JA 1/16W	
R2818	3012249316	MT-GLAZE 1K JA 1/16W	
R2819	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R282	3012249019	MT-GLAZE 10K JA 1/16W	
R2820	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2821	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R2823	3012248814	MT-GLAZE 100 JA 1/16W	
R2831	3012604016	MT-GLAZE 68 JA 1/3W	
R2832	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R2837	3012249316	MT-GLAZE 1K JA 1/16W	
R2838	3012249019	MT-GLAZE 10K JA 1/16W	
R2839	3012249019	MT-GLAZE 10K JA 1/16W	
R285	3012249316	MT-GLAZE 1K JA 1/16W	
R286	3012942613	MT-GLAZE 4.7K FA 1/16W	
R287	3012943917	MT-GLAZE 56 FA 1/16W	
R288	3012943016	MT-GLAZE 10K FA 1/16W	
R289	3012249316	MT-GLAZE 1K JA 1/16W	
R292	3012249019	MT-GLAZE 10K JA 1/16W	
R296	3012942613	MT-GLAZE 4.7K FA 1/16W	
R297	3012943917	MT-GLAZE 56 FA 1/16W	
R298	3012943016	MT-GLAZE 10K FA 1/16W	
R303	3012249712	MT-GLAZE 22 JA 1/16W	
R305	3012249019	MT-GLAZE 10K JA 1/16W	
R308	4013441914	MT-GLAZE 10K DA 1/16W	
R311	3012637420	MT-GLAZE 75 JA 1/16W	
R312	3012637420	MT-GLAZE 75 JA 1/16W	
R313	3012637420	MT-GLAZE 75 JA 1/16W	
R314	4013427314	MT-GLAZE 23.2K FA 1/16W	
R316	3012249019	MT-GLAZE 10K JA 1/16W	
R317	3012249019	MT-GLAZE 10K JA 1/16W	
R318	3012985511	MT-GLAZE 8.2K FA 1/16W	
R321	3012249712	MT-GLAZE 22 JA 1/16W	
R322	3012249712	MT-GLAZE 22 JA 1/16W	
R323	3012250312	MT-GLAZE 33 JA 1/16W	
R324	3012944518	MT-GLAZE 18K FA 1/16W	
R325	3012249019	MT-GLAZE 10K JA 1/16W	
R326	3012251814	MT-GLAZE 47 JA 1/16W	
R327	3012251814	MT-GLAZE 47 JA 1/16W	
R328	3012249712	MT-GLAZE 22 JA 1/16W	
R329	3012251814	MT-GLAZE 47 JA 1/16W	
R336	3012251814	MT-GLAZE 47 JA 1/16W	
R337	3012251814	MT-GLAZE 47 JA 1/16W	
R338	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R342	3012249712	MT-GLAZE 22 JA 1/16W	
R351	3012248814	MT-GLAZE 100 JA 1/16W	
R352	3012248814	MT-GLAZE 100 JA 1/16W	
R353	3012248814	MT-GLAZE 100 JA 1/16W	
R354	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R356	3012249712	MT-GLAZE 22 JA 1/16W	
R361	3012249019	MT-GLAZE 10K JA 1/16W	
R362	3012249019	MT-GLAZE 10K JA 1/16W	
R366	3012249019	MT-GLAZE 10K JA 1/16W	
R367	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R371	3012249019	MT-GLAZE 10K JA 1/16W	
R372	3012249019	MT-GLAZE 10K JA 1/16W	
R373	3012249019	MT-GLAZE 10K JA 1/16W	
R376	3012249019	MT-GLAZE 10K JA 1/16W	
R377	3012249019	MT-GLAZE 10K JA 1/16W	
R378	3012249019	MT-GLAZE 10K JA 1/16W	
R379	3012249019	MT-GLAZE 10K JA 1/16W	
R381	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R3811	3012249316	MT-GLAZE 1K JA 1/16W	
R3816	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R382	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R3839	3012249019	MT-GLAZE 10K JA 1/16W	
R386	3012249019	MT-GLAZE 10K JA 1/16W	
R3861	3012249019	MT-GLAZE 10K JA 1/16W	
R3863	3012249019	MT-GLAZE 10K JA 1/16W	
R3867	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R3868	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R387	3012251715	MT-GLAZE 39K JA 1/16W	
R389	3012249019	MT-GLAZE 10K JA 1/16W	
R390	3012249712	MT-GLAZE 22 JA 1/16W	
R3902	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R3903	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R3904	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R3909	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R391	3012249712	MT-GLAZE 22 JA 1/16W	
R3910	3012248814	MT-GLAZE 100 JA 1/16W	
R392	3012654516	MT-GLAZE 68K FA 1/10W	
R393	3012249712	MT-GLAZE 22 JA 1/16W	
R399	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4001	3012650112	MT-GLAZE 39 FA 1/10W	
R4002	3012650112	MT-GLAZE 39 FA 1/10W	
R4003	3012650112	MT-GLAZE 39 FA 1/10W	
R4004	3012654912	MT-GLAZE 75 FA 1/10W	

Electrical Parts List

Ref.	Part No.	Description	Note
R4006	3012654912	MT-GLAZE 75 FA 1/10W	
R4009	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R4011	3012248814	MT-GLAZE 100 JA 1/16W	
R4012	3012249019	MT-GLAZE 10K JA 1/16W	
R406	3012249712	MT-GLAZE 22 JA 1/16W	
R407	3012249712	MT-GLAZE 22 JA 1/16W	
R408	3012249712	MT-GLAZE 22 JA 1/16W	
R411	3012249712	MT-GLAZE 22 JA 1/16W	
R412	3012249712	MT-GLAZE 22 JA 1/16W	
R413	3012249712	MT-GLAZE 22 JA 1/16W	
R414	3012249712	MT-GLAZE 22 JA 1/16W	
R415	3012249712	MT-GLAZE 22 JA 1/16W	
R416	3012249712	MT-GLAZE 22 JA 1/16W	
R417	3012249712	MT-GLAZE 22 JA 1/16W	
R418	3012249712	MT-GLAZE 22 JA 1/16W	
R419	3012249712	MT-GLAZE 22 JA 1/16W	
R420	3012249712	MT-GLAZE 22 JA 1/16W	
R421	3012249712	MT-GLAZE 22 JA 1/16W	
R422	3012249712	MT-GLAZE 22 JA 1/16W	
R423	3012249712	MT-GLAZE 22 JA 1/16W	
R424	3012249712	MT-GLAZE 22 JA 1/16W	
R425	3012249712	MT-GLAZE 22 JA 1/16W	
R426	3012249712	MT-GLAZE 22 JA 1/16W	
R427	3012249712	MT-GLAZE 22 JA 1/16W	
R428	3012249712	MT-GLAZE 22 JA 1/16W	
R431	3012249712	MT-GLAZE 22 JA 1/16W	
R432	3012249712	MT-GLAZE 22 JA 1/16W	
R433	3012249712	MT-GLAZE 22 JA 1/16W	
R434	3012249712	MT-GLAZE 22 JA 1/16W	
R435	3012249712	MT-GLAZE 22 JA 1/16W	
R436	3012249712	MT-GLAZE 22 JA 1/16W	
R437	3012249712	MT-GLAZE 22 JA 1/16W	
R438	3012249712	MT-GLAZE 22 JA 1/16W	
R439	3012249712	MT-GLAZE 22 JA 1/16W	
R4401	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4402	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4405	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4406	3012251210	MT-GLAZE 4.7K JA 1/16W	
R4407	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4408	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4409	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R441	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4410	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4411	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4412	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4413	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4414	3012251210	MT-GLAZE 4.7K JA 1/16W	
R4415	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4417	3012251210	MT-GLAZE 4.7K JA 1/16W	
R4418	3012251210	MT-GLAZE 4.7K JA 1/16W	
R4419	3012251210	MT-GLAZE 4.7K JA 1/16W	
R442	3012249712	MT-GLAZE 22 JA 1/16W	
R4422	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4424	3012249316	MT-GLAZE 1K JA 1/16W	
R4426	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4429	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4432	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4433	3012249712	MT-GLAZE 22 JA 1/16W	
R4434	3012249019	MT-GLAZE 10K JA 1/16W	
R4435	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4436	3012249316	MT-GLAZE 1K JA 1/16W	
R4437	3012249316	MT-GLAZE 1K JA 1/16W	
R4438	3012249316	MT-GLAZE 1K JA 1/16W	
R444	3012249712	MT-GLAZE 22 JA 1/16W	
R4441	3012248913	MT-GLAZE 100K JA 1/16W	
R4442	3012872227	MT-GLAZE 22K FA 1/16W	
R4443	3012943511	MT-GLAZE 27K FA 1/16W	
R4444	3012943214	MT-GLAZE 47K FA 1/16W	
R4446	3012943016	MT-GLAZE 10K FA 1/16W	
R4447	3012985412	MT-GLAZE 39K FA 1/16W	
R4448	3012249316	MT-GLAZE 1K JA 1/16W	
R4449	3012943016	MT-GLAZE 10K FA 1/16W	
R445	3012249712	MT-GLAZE 22 JA 1/16W	
R4450	3012250213	MT-GLAZE 3.3K JA 1/16W	
R4451	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4452	3012942613	MT-GLAZE 4.7K FA 1/16W	
R4453	3012872227	MT-GLAZE 22K FA 1/16W	
R4454	3012872227	MT-GLAZE 22K FA 1/16W	
R4455	3012249019	MT-GLAZE 10K JA 1/16W	
R4456	3012943016	MT-GLAZE 10K FA 1/16W	
R4457	3012985412	MT-GLAZE 39K FA 1/16W	
R446	3012249712	MT-GLAZE 22 JA 1/16W	
R4460	3012249712	MT-GLAZE 22 JA 1/16W	
R4461	3012248913	MT-GLAZE 100K JA 1/16W	
R4462	3012985818	MT-GLAZE 9.1K FA 1/16W	
R4463	3012872227	MT-GLAZE 22K FA 1/16W	
R4464	3012872227	MT-GLAZE 22K FA 1/16W	
R4465	3012249712	MT-GLAZE 22 JA 1/16W	
R4466	3012249712	MT-GLAZE 22 JA 1/16W	
R4467	3012249712	MT-GLAZE 22 JA 1/16W	
R4468	3012943016	MT-GLAZE 10K FA 1/16W	
R4469	3012985412	MT-GLAZE 39K FA 1/16W	
R447	3012249712	MT-GLAZE 22 JA 1/16W	
R4471	3012943214	MT-GLAZE 47K FA 1/16W	
R4472	3012943511	MT-GLAZE 27K FA 1/16W	
R4473	3012248913	MT-GLAZE 100K JA 1/16W	
R4474	3012872227	MT-GLAZE 22K FA 1/16W	
R4476	3012985412	MT-GLAZE 39K FA 1/16W	
R4477	3012249316	MT-GLAZE 1K JA 1/16W	
R448	3012249019	MT-GLAZE 10K JA 1/16W	
R4481	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4482	3012942613	MT-GLAZE 4.7K FA 1/16W	
R4483	3012872227	MT-GLAZE 22K FA 1/16W	
R4484	3012872227	MT-GLAZE 22K FA 1/16W	
R4485	3012250213	MT-GLAZE 3.3K JA 1/16W	
R4486	3012943016	MT-GLAZE 10K FA 1/16W	
R4487	3012985412	MT-GLAZE 39K FA 1/16W	
R449	3012249019	MT-GLAZE 10K JA 1/16W	
R4491	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4492	3012994919	MT-GLAZE 470 FA 1/16W	
R4493	3012944419	MT-GLAZE 1.8K FA 1/16W	
R4494	3012943214	MT-GLAZE 47K FA 1/16W	
R4496	3012943016	MT-GLAZE 10K FA 1/16W	
R4497	3012985412	MT-GLAZE 39K FA 1/16W	
R4501	3012248814	MT-GLAZE 100 JA 1/16W	
R4502	3012248814	MT-GLAZE 100 JA 1/16W	
R4503	3012248814	MT-GLAZE 100 JA 1/16W	
R4504	3012248814	MT-GLAZE 100 JA 1/16W	
R451	3012249019	MT-GLAZE 10K JA 1/16W	
R466	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R467	3012251210	MT-GLAZE 4.7K JA 1/16W	
R4701	3012249712	MT-GLAZE 22 JA 1/16W	
R4703	3012249712	MT-GLAZE 22 JA 1/16W	
R4709	3012249316	MT-GLAZE 1K JA 1/16W	
R4711	3012249019	MT-GLAZE 10K JA 1/16W	
R4716	3012249019	MT-GLAZE 10K JA 1/16W	
R4729	3012249316	MT-GLAZE 1K JA 1/16W	
R4730	3012249316	MT-GLAZE 1K JA 1/16W	
R481	3012251210	MT-GLAZE 4.7K JA 1/16W	
R483	3012258110	MT-GLAZE 10 JA 1/16W	
R484	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R486	3012249316	MT-GLAZE 1K JA 1/16W	
R488	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R4882	3012249019	MT-GLAZE 10K JA 1/16W	
R4883	3012249019	MT-GLAZE 10K JA 1/16W	
R4884	3012249019	MT-GLAZE 10K JA 1/16W	
R4885	3012249019	MT-GLAZE 10K JA 1/16W	
R4886	3012249019	MT-GLAZE 10K JA 1/16W	
R4887	3012249019	MT-GLAZE 10K JA 1/16W	
R489	3012250213	MT-GLAZE 3.3K JA 1/16W	
R4890	3012251210	MT-GLAZE 4.7K JA 1/16W	
R4893	3012251210	MT-GLAZE 4.7K JA 1/16W	

Electrical Parts List

Ref.	Part No.	Description	Note
R4894	3012251210	MT-GLAZE 4.7K JA 1/16W	
R4896	3012251210	MT-GLAZE 4.7K JA 1/16W	
R4897	3012251210	MT-GLAZE 4.7K JA 1/16W	
R4899	3012251210	MT-GLAZE 4.7K JA 1/16W	
R502	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R504	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5045	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5047	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5049	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R505	3012249316	MT-GLAZE 1K JA 1/16W	
R5050	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R510	3012258110	MT-GLAZE 10 JA 1/16W	
R512	3012249019	MT-GLAZE 10K JA 1/16W	
R5213	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5214	3012249019	MT-GLAZE 10K JA 1/16W	
R5217	3012249019	MT-GLAZE 10K JA 1/16W	
R5223	3012249712	MT-GLAZE 22 JA 1/16W	
R5227	3012249712	MT-GLAZE 22 JA 1/16W	
R5228	3012249712	MT-GLAZE 22 JA 1/16W	
R5229	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5231	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5237	3012249316	MT-GLAZE 1K JA 1/16W	
R5238	3012249316	MT-GLAZE 1K JA 1/16W	
R5239	3012249316	MT-GLAZE 1K JA 1/16W	
R5240	3012249019	MT-GLAZE 10K JA 1/16W	
R5248	3012249316	MT-GLAZE 1K JA 1/16W	
R5250	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5253	3012251210	MT-GLAZE 4.7K JA 1/16W	
R5254	3012251210	MT-GLAZE 4.7K JA 1/16W	
R5255	3012251210	MT-GLAZE 4.7K JA 1/16W	
R5257	3013013510	MT-GLAZE 200 JA 1/16W	
R5259	3012249019	MT-GLAZE 10K JA 1/16W	
R5260	3012251210	MT-GLAZE 4.7K JA 1/16W	
R5262	3012249019	MT-GLAZE 10K JA 1/16W	
R5263	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5264	3012249019	MT-GLAZE 10K JA 1/16W	
R5265	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5267	3012258110	MT-GLAZE 10 JA 1/16W	
R5268	3012258110	MT-GLAZE 10 JA 1/16W	
R5269	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5270	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5271	3012258110	MT-GLAZE 10 JA 1/16W	
R5272	3012258110	MT-GLAZE 10 JA 1/16W	
R5273	3012249019	MT-GLAZE 10K JA 1/16W	
R5274	3012249019	MT-GLAZE 10K JA 1/16W	
R5278	3012249019	MT-GLAZE 10K JA 1/16W	
R5279	3012249019	MT-GLAZE 10K JA 1/16W	
R5280	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5281	3012249019	MT-GLAZE 10K JA 1/16W	
R5282	3012249019	MT-GLAZE 10K JA 1/16W	
R5283	3012258813	MT-GLAZE 39 JA 1/16W	
R5284	3012258813	MT-GLAZE 39 JA 1/16W	
R5285	3012258813	MT-GLAZE 39 JA 1/16W	
R5288	3012249019	MT-GLAZE 10K JA 1/16W	
R5290	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5294	3012248814	MT-GLAZE 100 JA 1/16W	
R5295	3012994919	MT-GLAZE 470 FA 1/16W	
R5296	3012944419	MT-GLAZE 1.8K FA 1/16W	
R5297	3012943214	MT-GLAZE 47K FA 1/16W	
R5300	3012249019	MT-GLAZE 10K JA 1/16W	
R5305	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5306	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5307	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5308	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5309	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5310	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5323	3012248814	MT-GLAZE 100 JA 1/16W	
R5324	3012248814	MT-GLAZE 100 JA 1/16W	
R5330	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5331	3012258813	MT-GLAZE 39 JA 1/16W	
R5332	3012258813	MT-GLAZE 39 JA 1/16W	
R5333	3012258813	MT-GLAZE 39 JA 1/16W	
R5335	3012251210	MT-GLAZE 4.7K JA 1/16W	
R5339	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5340	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5341	3012258813	MT-GLAZE 39 JA 1/16W	
R5342	3012258813	MT-GLAZE 39 JA 1/16W	
R5343	3012258813	MT-GLAZE 39 JA 1/16W	
R5344	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5345	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5346	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R535	3012249316	MT-GLAZE 1K JA 1/16W	
R5350	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5351	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5355	3012251814	MT-GLAZE 47 JA 1/16W	
R5356	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5357	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5358	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5360	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5361	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5362	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5367	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5368	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5369	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5370	3012249712	MT-GLAZE 22 JA 1/16W	
R5371	3012249712	MT-GLAZE 22 JA 1/16W	
R5372	3012249712	MT-GLAZE 22 JA 1/16W	
R5373	3012248814	MT-GLAZE 100 JA 1/16W	
R5374	3012248814	MT-GLAZE 100 JA 1/16W	
R5380	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5381	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5382	3012258110	MT-GLAZE 10 JA 1/16W	
R5383	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5384	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5386	3012249712	MT-GLAZE 22 JA 1/16W	
R5387	3012249712	MT-GLAZE 22 JA 1/16W	
R5388	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5389	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5390	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5391	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R5392	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R540	3012258110	MT-GLAZE 10 JA 1/16W	
R5401	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5402	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5403	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5404	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5405	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5406	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5407	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5408	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5409	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5410	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5411	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R542	3012249019	MT-GLAZE 10K JA 1/16W	
R5420	3012249712	MT-GLAZE 22 JA 1/16W	
R5421	3012249712	MT-GLAZE 22 JA 1/16W	
R5450	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5451	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5452	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5454	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5456	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5457	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5458	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5459	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5460	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5461	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5462	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5463	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5464	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5465	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5468	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5469	3012261516	MT-GLAZE 0.000 ZA 1/16W	

Electrical Parts List

Ref.	Part No.	Description	Note
R5470	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5471	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5472	3012249019	MT-GLAZE 10K JA 1/16W	
R5474	3012249019	MT-GLAZE 10K JA 1/16W	
R5499	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R5501	3011901710	MT-GLAZE 0.000 ZA 1W	
R5507	3011036313	MT-GLAZE 560 JA 1/4W	
R5521	3011901710	MT-GLAZE 0.000 ZA 1W	
R5527	3011036313	MT-GLAZE 560 JA 1/4W	
R5533	3010375017	MT-GLAZE 0.000 ZA 1/10W	
R5534	3012249316	MT-GLAZE 1K JA 1/16W	
R5535	3012250114	MT-GLAZE 27K JA 1/16W	
R5541	3010375017	MT-GLAZE 0.000 ZA 1/10W	
R5543	3012249316	MT-GLAZE 1K JA 1/16W	
R5544	3012250114	MT-GLAZE 27K JA 1/16W	
R5553	3012249019	MT-GLAZE 10K JA 1/16W	
R5554	3012248913	MT-GLAZE 100K JA 1/16W	
R5555	3012249019	MT-GLAZE 10K JA 1/16W	
R5556	3012248913	MT-GLAZE 100K JA 1/16W	
R5559	3012349917	MT-GLAZE 6.8K JA 1/16W	
R5560	3012349917	MT-GLAZE 6.8K JA 1/16W	
R5561	3011901710	MT-GLAZE 0.000 ZA 1W	
R5562	3012249316	MT-GLAZE 1K JA 1/16W	
R5563	3012251210	MT-GLAZE 4.7K JA 1/16W	
R5564	3012249316	MT-GLAZE 1K JA 1/16W	
R5566	3012251210	MT-GLAZE 4.7K JA 1/16W	
R5567	3011036313	MT-GLAZE 560 JA 1/4W	
R5575	3012258110	MT-GLAZE 10 JA 1/16W	
R5576	3012258110	MT-GLAZE 10 JA 1/16W	
R5577	3012258110	MT-GLAZE 10 JA 1/16W	
R5578	3012258110	MT-GLAZE 10 JA 1/16W	
R5620	3012251210	MT-GLAZE 4.7K JA 1/16W	
R5621	4013430512	MT-GLAZE 7.5K FA 1/16W	
R5622	3013018010	MT-GLAZE 1.5K FA 1/16W	
R5623	3012942613	MT-GLAZE 4.7K FA 1/16W	
R5624	3012250510	MT-GLAZE 33K JA 1/16W	
R565	3012249316	MT-GLAZE 1K JA 1/16W	
R5682	3012249019	MT-GLAZE 10K JA 1/16W	
R5686	3012942811	MT-GLAZE 2.2K FA 1/16W	
R5687	3012843326	MT-GLAZE 3K FA 1/16W	
R5688	3012942613	MT-GLAZE 4.7K FA 1/16W	
R570	3012258110	MT-GLAZE 10 JA 1/16W	
R572	3012249019	MT-GLAZE 10K JA 1/16W	
R5800	3012248814	MT-GLAZE 100 JA 1/16W	
R5801	3012262414	MT-GLAZE 560 JA 1/16W	
R5802	3012249316	MT-GLAZE 1K JA 1/16W	
R5807	3012248814	MT-GLAZE 100 JA 1/16W	
R5821	3012943214	MT-GLAZE 47K FA 1/16W	
R5822	3012943511	MT-GLAZE 27K FA 1/16W	
R5824	3012872227	MT-GLAZE 22K FA 1/16W	
R5826	3012248913	MT-GLAZE 100K JA 1/16W	
R5831	3012257915	MT-GLAZE 220 JA 1/16W	
R5832	3012258011	MT-GLAZE 330 JA 1/16W	
R5834	3012251319	MT-GLAZE 470 JA 1/16W	
R5835	3012251319	MT-GLAZE 470 JA 1/16W	
R5836	3013023410	MT-GLAZE 13K JA 1/16W	
R5837	3012250114	MT-GLAZE 27K JA 1/16W	
R5841	3012943214	MT-GLAZE 47K FA 1/16W	
R5842	3012943511	MT-GLAZE 27K FA 1/16W	
R5843	3012872227	MT-GLAZE 22K FA 1/16W	
R5845	3012248913	MT-GLAZE 100K JA 1/16W	
R5846	3012250114	MT-GLAZE 27K JA 1/16W	
R5856	3012258011	MT-GLAZE 330 JA 1/16W	
R5857	3012258011	MT-GLAZE 330 JA 1/16W	
R5858	3012250114	MT-GLAZE 27K JA 1/16W	
R5859	3013023410	MT-GLAZE 13K JA 1/16W	
R5860	3013023410	MT-GLAZE 13K JA 1/16W	
R5861	3012251319	MT-GLAZE 470 JA 1/16W	
R5862	3013010410	MT-GLAZE 240 FA 1/16W	
R5863	3012872227	MT-GLAZE 22K FA 1/16W	
R5864	3012985818	MT-GLAZE 9.1K FA 1/16W	
R5865	3012250114	MT-GLAZE 27K JA 1/16W	
R5866	3012250114	MT-GLAZE 27K JA 1/16W	
R5867	3013010410	MT-GLAZE 240 FA 1/16W	
R5868	3012872227	MT-GLAZE 22K FA 1/16W	
R5869	3013023410	MT-GLAZE 13K JA 1/16W	
R5871	3012248913	MT-GLAZE 100K JA 1/16W	
R5873	3012251319	MT-GLAZE 470 JA 1/16W	
R5874	3013023410	MT-GLAZE 13K JA 1/16W	
R5876	3012258110	MT-GLAZE 10 JA 1/16W	
R5877	3012258110	MT-GLAZE 10 JA 1/16W	
R5878	3012258110	MT-GLAZE 10 JA 1/16W	
R5879	3012258110	MT-GLAZE 10 JA 1/16W	
R5893	3012250114	MT-GLAZE 27K JA 1/16W	
R5894	3013023410	MT-GLAZE 13K JA 1/16W	
R5896	3012257915	MT-GLAZE 220 JA 1/16W	
R5897	3012258011	MT-GLAZE 330 JA 1/16W	
R595	3012249019	MT-GLAZE 10K JA 1/16W	
R596	3012350012	MT-GLAZE 7.5K JA 1/16W	
R597	3013013718	MT-GLAZE 2K FA 1/16W	
R598	3013013718	MT-GLAZE 2K FA 1/16W	
R6001	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6002	3012250213	MT-GLAZE 3.3K JA 1/16W	
R6003	3012250213	MT-GLAZE 3.3K JA 1/16W	
R6004	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6007	3012284515	MT-GLAZE 2.2 JA 1/16W	
R6008	3012284515	MT-GLAZE 2.2 JA 1/16W	
R6009	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6010	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6011	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6012	3012250213	MT-GLAZE 3.3K JA 1/16W	
R6015	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6016	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6017	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6018	3012249019	MT-GLAZE 10K JA 1/16W	
R6019	3012249019	MT-GLAZE 10K JA 1/16W	
R6021	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6022	3011901413	MT-GLAZE 0.000 ZA 1/2W	
R6035	6520033764	INDUCTOR ,600 OHM	
R6036	6520033764	INDUCTOR ,600 OHM	
R6037	6520033764	INDUCTOR ,600 OHM	
R6038	6520033764	INDUCTOR ,600 OHM	
R6039	6520033764	INDUCTOR ,600 OHM	
R6505	3011027410	MT-GLAZE 10 JA 1W	
R6506	3011027410	MT-GLAZE 10 JA 1W	
R6509	3012249316	MT-GLAZE 1K JA 1/16W	
R6511	3011036313	MT-GLAZE 560 JA 1/4W	
R6512	3012249019	MT-GLAZE 10K JA 1/16W	
R6521	3011027410	MT-GLAZE 10 JA 1W	
R6522	3011027410	MT-GLAZE 10 JA 1W	
R6529	3012249316	MT-GLAZE 1K JA 1/16W	
R6531	3011036313	MT-GLAZE 560 JA 1/4W	
R6533	3012258110	MT-GLAZE 10 JA 1/16W	
R6534	3012248913	MT-GLAZE 100K JA 1/16W	
R6542	3012258110	MT-GLAZE 10 JA 1/16W	
R6548	3012248913	MT-GLAZE 100K JA 1/16W	
R6554	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6556	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6557	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6558	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R6561	3012258110	MT-GLAZE 10 JA 1/16W	
R6562	3012248913	MT-GLAZE 100K JA 1/16W	
R6566	3012258110	MT-GLAZE 10 JA 1/16W	
R6567	3012248913	MT-GLAZE 100K JA 1/16W	
R6601	3012943214	MT-GLAZE 47K FA 1/16W	
R6602	3012943511	MT-GLAZE 27K FA 1/16W	
R6604	3012249019	MT-GLAZE 10K JA 1/16W	
R6605	3012872227	MT-GLAZE 22K FA 1/16W	
R6606	3012597823	MT-GLAZE 20K JA 1/16W	
R6608	3012533712	MT-GLAZE 0.000 ZA 1/4W	
R6609	3012250718	MT-GLAZE 56K JA 1/16W	
R6610	3012249019	MT-GLAZE 10K JA 1/16W	

Electrical Parts List

	Ref.	Part No.	Description	Note
	R6611	3012249019	MT-GLAZE 10K JA 1/16W	
	R6612	3012249019	MT-GLAZE 10K JA 1/16W	
	R6621	3012261516	MT-GLAZE 0.000 ZA 1/16W	
⚠	R6624	9450301057	PROTECTOR,IC 3.8A 72V	
	R6625	3012372915	MT-GLAZE 51 JA 1/16W	
	R6630	3012248913	MT-GLAZE 100K JA 1/16W	
	R6635	3012250213	MT-GLAZE 3.3K JA 1/16W	
	R6639	3012597823	MT-GLAZE 20K JA 1/16W	
	R6640	3013017211	MT-GLAZE 3.6K JA 1/16W	
	R6641	3012251616	MT-GLAZE 390 JA 1/16W	
	R6642	3012943313	MT-GLAZE 15K FA 1/16W	
	R6643	3012597922	MT-GLAZE 5.1K JA 1/16W	
⚠	R6644	9450301057	PROTECTOR,IC 3.8A 72V	
	R6645	3012843613	MT-GLAZE 16K JA 1/16W	
	R6646	3012249019	MT-GLAZE 10K JA 1/16W	
	R6651	3012249316	MT-GLAZE 1K JA 1/16W	
	R6652	3012384215	MT-GLAZE 1.5K JA 1/3W	
	R6653	3012559712	MT-GLAZE 82K JA 1/10W	
	R6654	3012250114	MT-GLAZE 27K JA 1/16W	
	R6655	3012760415	MT-GLAZE 10M JA 1/16W	
	R6656	3012249019	MT-GLAZE 10K JA 1/16W	
	R6657	3012250114	MT-GLAZE 27K JA 1/16W	
	R6658	3012250114	MT-GLAZE 27K JA 1/16W	
	R6659	3012249019	MT-GLAZE 10K JA 1/16W	
	R6660	3012763010	MT-GLAZE 75K JA 1/16W	
	R6666	3012533712	MT-GLAZE 0.000 ZA 1/4W	
	R6667	3012249019	MT-GLAZE 10K JA 1/16W	
	R6668	3011050012	MT-GLAZE 1K JA 1/2W	
	R6677	3012257618	MT-GLAZE 1 JA 1W	
⚠	R6684	9450301057	PROTECTOR,IC 3.8A 72V	
	R6689	3012597823	MT-GLAZE 20K JA 1/16W	
	R6690	3012565317	MT-GLAZE 56K JA 1/10W	
	R6691	3012249019	MT-GLAZE 10K JA 1/16W	
	R6693	3012251616	MT-GLAZE 390 JA 1/16W	
	R6694	3012943313	MT-GLAZE 15K FA 1/16W	
	R6695	3012597922	MT-GLAZE 5.1K JA 1/16W	
	R6696	3012249019	MT-GLAZE 10K JA 1/16W	
⚠	R6698	9450301057	PROTECTOR,IC 3.8A 72V	
	R7100	3012249019	MT-GLAZE 10K JA 1/16W	
	R7101	3012943313	MT-GLAZE 15K FA 1/16W	
	R7102	3012261516	MT-GLAZE 0.000 ZA 1/16W	
	R7103	3012942613	MT-GLAZE 4.7K FA 1/16W	
	R7104	3012249019	MT-GLAZE 10K JA 1/16W	
	R7105	3012249316	MT-GLAZE 1K JA 1/16W	
	R7106	3012249019	MT-GLAZE 10K JA 1/16W	
	R7107	3012249019	MT-GLAZE 10K JA 1/16W	
	R7701	3012760415	MT-GLAZE 10M JA 1/16W	
	R7702	3012372915	MT-GLAZE 51 JA 1/16W	
	R7703	3012250114	MT-GLAZE 27K JA 1/16W	
	R7704	3012249019	MT-GLAZE 10K JA 1/16W	
	R7705	3012249019	MT-GLAZE 10K JA 1/16W	
	R7706	3012611113	MT-GLAZE 24K JA 1/16W	
	R7707	3012249514	MT-GLAZE 2.2K JA 1/16W	
	R7708	3012349917	MT-GLAZE 6.8K JA 1/16W	
	R7711	3012249019	MT-GLAZE 10K JA 1/16W	
	R7712	3012249019	MT-GLAZE 10K JA 1/16W	
	R7713	3012249316	MT-GLAZE 1K JA 1/16W	
	R7714	3012349917	MT-GLAZE 6.8K JA 1/16W	
	R7715	3012995312	MT-GLAZE 12K FA 1/16W	
	R7721	3012760415	MT-GLAZE 10M JA 1/16W	
	R7722	3012372915	MT-GLAZE 51 JA 1/16W	
	R7723	3012250114	MT-GLAZE 27K JA 1/16W	
	R7724	3012249019	MT-GLAZE 10K JA 1/16W	
	R7725	3012249019	MT-GLAZE 10K JA 1/16W	
	R7726	3012611113	MT-GLAZE 24K JA 1/16W	
	R7727	3012249514	MT-GLAZE 2.2K JA 1/16W	
	R7728	3012349917	MT-GLAZE 6.8K JA 1/16W	
	R7731	3012249019	MT-GLAZE 10K JA 1/16W	
	R7732	3012249019	MT-GLAZE 10K JA 1/16W	
	R7733	3012249316	MT-GLAZE 1K JA 1/16W	
	R7734	3012349917	MT-GLAZE 6.8K JA 1/16W	
	R7735	3012995312	MT-GLAZE 12K FA 1/16W	
	R7736	3011506014	MT-GLAZE 0.000 ZA 1/10W	
	R7737	3011506014	MT-GLAZE 0.000 ZA 1/10W	
	R7738	3011506014	MT-GLAZE 0.000 ZA 1/10W	
	R7739	3011506014	MT-GLAZE 0.000 ZA 1/10W	
	R7740	3011506014	MT-GLAZE 0.000 ZA 1/10W	
	R7741	3011506014	MT-GLAZE 0.000 ZA 1/10W	
	R7742	3011506014	MT-GLAZE 0.000 ZA 1/10W	
	R7781	3012349917	MT-GLAZE 6.8K JA 1/16W	
	R7784	3012249316	MT-GLAZE 1K JA 1/16W	
	R7785	3012250114	MT-GLAZE 27K JA 1/16W	
	R7786	3012249316	MT-GLAZE 1K JA 1/16W	
	R7787	3012250114	MT-GLAZE 27K JA 1/16W	
	R7788	3012249019	MT-GLAZE 10K JA 1/16W	
	R7789	3012250114	MT-GLAZE 27K JA 1/16W	
	R7801	3012258110	MT-GLAZE 10 JA 1/16W	
	R7802	3012258110	MT-GLAZE 10 JA 1/16W	
	R7821	3012611014	MT-GLAZE 2.4K JA 1/16W	
	R7822	3012943313	MT-GLAZE 15K FA 1/16W	
	R7823	3013283913	MT-GLAZE 36K FA 1/16W	
	R7824	3012249316	MT-GLAZE 1K JA 1/16W	
	R7826	3012249316	MT-GLAZE 1K JA 1/16W	
	R7828	3012942811	MT-GLAZE 2.2K FA 1/16W	
	R7831	3013368818	MT-GLAZE 6.8K FA 1/16W	
	R7832	3013013718	MT-GLAZE 2K FA 1/16W	
	R7841	3012611014	MT-GLAZE 2.4K JA 1/16W	
	R7842	3012943313	MT-GLAZE 15K FA 1/16W	
	R7843	3012943214	MT-GLAZE 47K FA 1/16W	
	R7844	3012249316	MT-GLAZE 1K JA 1/16W	
	R7846	3012249316	MT-GLAZE 1K JA 1/16W	
	R7848	3012986518	MT-GLAZE 3.3K FA 1/16W	
	R7850	3013368818	MT-GLAZE 6.8K FA 1/16W	
	R7851	3013368818	MT-GLAZE 6.8K FA 1/16W	
	R7852	3013013718	MT-GLAZE 2K FA 1/16W	
	R7861	3012611014	MT-GLAZE 2.4K JA 1/16W	
	R7862	3012943313	MT-GLAZE 15K FA 1/16W	
	R7863	3013283913	MT-GLAZE 36K FA 1/16W	
	R7864	3012249316	MT-GLAZE 1K JA 1/16W	
	R7866	3012249316	MT-GLAZE 1K JA 1/16W	
	R7867	3012942811	MT-GLAZE 2.2K FA 1/16W	
	R7871	3013368818	MT-GLAZE 6.8K FA 1/16W	
	R7872	3013013718	MT-GLAZE 2K FA 1/16W	
	R7879	3012249316	MT-GLAZE 1K JA 1/16W	
	R7880	3012249019	MT-GLAZE 10K JA 1/16W	
	R7881	3012611014	MT-GLAZE 2.4K JA 1/16W	
	R7882	3012943313	MT-GLAZE 15K FA 1/16W	
	R7883	3012872227	MT-GLAZE 22K FA 1/16W	
	R7884	3012249316	MT-GLAZE 1K JA 1/16W	
	R7886	3012249316	MT-GLAZE 1K JA 1/16W	
	R7888	3012986518	MT-GLAZE 3.3K FA 1/16W	
	R7890	3012992410	MT-GLAZE 5.6K FA 1/16W	
	R7891	3012995114	MT-GLAZE 6.2K FA 1/16W	
	R7892	3013013718	MT-GLAZE 2K FA 1/16W	
	R7919	3012261516	MT-GLAZE 0.000 ZA 1/16W	
	R7921	3012611014	MT-GLAZE 2.4K JA 1/16W	
	R7922	3012943313	MT-GLAZE 15K FA 1/16W	
	R7923	3013283913	MT-GLAZE 36K FA 1/16W	
	R7924	3012249316	MT-GLAZE 1K JA 1/16W	
	R7926	3012249316	MT-GLAZE 1K JA 1/16W	
	R7928	3012942811	MT-GLAZE 2.2K FA 1/16W	
	R7930	3012261516	MT-GLAZE 0.000 ZA 1/16W	
	R7931	3013368818	MT-GLAZE 6.8K FA 1/16W	
	R7932	3013013718	MT-GLAZE 2K FA 1/16W	
	R7933	3012261516	MT-GLAZE 0.000 ZA 1/16W	
	R7939	3012261516	MT-GLAZE 0.000 ZA 1/16W	
	R7940	3012261516	MT-GLAZE 0.000 ZA 1/16W	
	R7941	3012261516	MT-GLAZE 0.000 ZA 1/16W	
	R7946	3012261516	MT-GLAZE 0.000 ZA 1/16W	
	R7947	3012261516	MT-GLAZE 0.000 ZA 1/16W	
	R7950	3012249514	MT-GLAZE 2.2K JA 1/16W	
	R7951	3012249316	MT-GLAZE 1K JA 1/16W	

Electrical Parts List

Ref.	Part No.	Description	Note
R7956	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R7959	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R7960	3012249019	MT-GLAZE 10K JA 1/16W	
R7961	3012249514	MT-GLAZE 2.2K JA 1/16W	
R7962	3012249316	MT-GLAZE 1K JA 1/16W	
R7963	3012249019	MT-GLAZE 10K JA 1/16W	
R7964	3012249514	MT-GLAZE 2.2K JA 1/16W	
R7965	3012249316	MT-GLAZE 1K JA 1/16W	
R7966	3012249019	MT-GLAZE 10K JA 1/16W	
R7967	3012249514	MT-GLAZE 2.2K JA 1/16W	
R7968	3012249316	MT-GLAZE 1K JA 1/16W	
R7969	3012249514	MT-GLAZE 2.2K JA 1/16W	
R7970	3012249316	MT-GLAZE 1K JA 1/16W	
R7971	3012249019	MT-GLAZE 10K JA 1/16W	
R7972	3012249514	MT-GLAZE 2.2K JA 1/16W	
R7979	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R7985	3012249316	MT-GLAZE 1K JA 1/16W	
R7986	3012249316	MT-GLAZE 1K JA 1/16W	
R7987	3012249316	MT-GLAZE 1K JA 1/16W	
R7988	3012249316	MT-GLAZE 1K JA 1/16W	
R7989	3012249316	MT-GLAZE 1K JA 1/16W	
R7990	3012249019	MT-GLAZE 10K JA 1/16W	
R7991	3012249514	MT-GLAZE 2.2K JA 1/16W	
R7992	3012249019	MT-GLAZE 10K JA 1/16W	
R7993	3012249514	MT-GLAZE 2.2K JA 1/16W	
R7994	3012249019	MT-GLAZE 10K JA 1/16W	
R7995	3012249514	MT-GLAZE 2.2K JA 1/16W	
R7996	3012249019	MT-GLAZE 10K JA 1/16W	
R7997	3012249514	MT-GLAZE 2.2K JA 1/16W	
R7998	3012249019	MT-GLAZE 10K JA 1/16W	
R7999	3012249514	MT-GLAZE 2.2K JA 1/16W	
R8001	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8002	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8003	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8004	3012249019	MT-GLAZE 10K JA 1/16W	
R8005	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8006	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8009	3012249712	MT-GLAZE 22 JA 1/16W	
R801	3012249019	MT-GLAZE 10K JA 1/16W	
R8012	3012249712	MT-GLAZE 22 JA 1/16W	
R8013	3012249712	MT-GLAZE 22 JA 1/16W	
R8015	3012249712	MT-GLAZE 22 JA 1/16W	
R8016	3012249712	MT-GLAZE 22 JA 1/16W	
R8017	3012249712	MT-GLAZE 22 JA 1/16W	
R8019	3012943115	MT-GLAZE 1K FA 1/16W	
R802	3012249019	MT-GLAZE 10K JA 1/16W	
R8020	3012249712	MT-GLAZE 22 JA 1/16W	
R8021	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8022	3012943115	MT-GLAZE 1K FA 1/16W	
R8023	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8025	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8027	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8032	3013013718	MT-GLAZE 2K FA 1/16W	
R8034	3013013718	MT-GLAZE 2K FA 1/16W	
R8038	3012250312	MT-GLAZE 33 JA 1/16W	
R8039	3012250312	MT-GLAZE 33 JA 1/16W	
R804	3012249019	MT-GLAZE 10K JA 1/16W	
R8041	3012250312	MT-GLAZE 33 JA 1/16W	
R8042	3012250312	MT-GLAZE 33 JA 1/16W	
R8043	3012250312	MT-GLAZE 33 JA 1/16W	
R8044	3012250312	MT-GLAZE 33 JA 1/16W	
R8046	3012249712	MT-GLAZE 22 JA 1/16W	
R8047	3012249712	MT-GLAZE 22 JA 1/16W	
R8048	3012249712	MT-GLAZE 22 JA 1/16W	
R8049	3012258110	MT-GLAZE 10 JA 1/16W	
R805	3012249019	MT-GLAZE 10K JA 1/16W	
R8051	3012250213	MT-GLAZE 3.3K JA 1/16W	
R8052	3012258110	MT-GLAZE 10 JA 1/16W	
R8053	3012258110	MT-GLAZE 10 JA 1/16W	
R8054	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8055	3012258110	MT-GLAZE 10 JA 1/16W	
R8057	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8058	3012250213	MT-GLAZE 3.3K JA 1/16W	
R806	3012944419	MT-GLAZE 1.8K FA 1/16W	
R8061	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8062	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8063	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8064	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8066	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8067	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8068	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8069	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R807	3012250213	MT-GLAZE 3.3K JA 1/16W	
R8071	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8077	3012249019	MT-GLAZE 10K JA 1/16W	
R8078	3012942811	MT-GLAZE 2.2K FA 1/16W	
R8079	3012258011	MT-GLAZE 330 JA 1/16W	
R8082	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8083	3012251319	MT-GLAZE 470 JA 1/16W	
R8086	3012994919	MT-GLAZE 470 FA 1/16W	
R8087	3012944419	MT-GLAZE 1.8K FA 1/16W	
R8088	3012943214	MT-GLAZE 47K FA 1/16W	
R8089	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R809	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8091	3012249019	MT-GLAZE 10K JA 1/16W	
R8092	3012249019	MT-GLAZE 10K JA 1/16W	
R8093	3012249019	MT-GLAZE 10K JA 1/16W	
R8094	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8095	3012249712	MT-GLAZE 22 JA 1/16W	
R810	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8101	3012943214	MT-GLAZE 47K FA 1/16W	
R8102	3012943214	MT-GLAZE 47K FA 1/16W	
R8103	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8104	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8105	3012249019	MT-GLAZE 10K JA 1/16W	
R8106	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8107	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8108	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8109	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8110	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8111	3012249019	MT-GLAZE 10K JA 1/16W	
R8112	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8113	3012249019	MT-GLAZE 10K JA 1/16W	
R8114	3012249019	MT-GLAZE 10K JA 1/16W	
R8115	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8116	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8117	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8118	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8119	3012251210	MT-GLAZE 4.7K JA 1/16W	
R812	3012249019	MT-GLAZE 10K JA 1/16W	
R8120	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8123	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8124	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8125	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8126	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8127	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8128	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8129	3012249019	MT-GLAZE 10K JA 1/16W	
R813	3012249019	MT-GLAZE 10K JA 1/16W	
R8130	3012249019	MT-GLAZE 10K JA 1/16W	
R8131	3012249019	MT-GLAZE 10K JA 1/16W	
R8132	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8133	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8134	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8136	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8139	3012943214	MT-GLAZE 47K FA 1/16W	
R814	3012249019	MT-GLAZE 10K JA 1/16W	
R8140	3012943214	MT-GLAZE 47K FA 1/16W	
R8149	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8160	3012249019	MT-GLAZE 10K JA 1/16W	
R8162	3012249019	MT-GLAZE 10K JA 1/16W	
R817	3012249019	MT-GLAZE 10K JA 1/16W	

Electrical Parts List

Ref.	Part No.	Description	Note
R818	3012249019	MT-GLAZE 10K JA 1/16W	
R819	3012249019	MT-GLAZE 10K JA 1/16W	
R8202	3012250015	MT-GLAZE 270 JA 1/16W	
R8203	3012250015	MT-GLAZE 270 JA 1/16W	
R8204	3012250015	MT-GLAZE 270 JA 1/16W	
R8212	3012251913	MT-GLAZE 68 JA 1/16W	
R8213	3012265514	MT-GLAZE 120 JA 1/16W	
R8214	3012265514	MT-GLAZE 120 JA 1/16W	
R822	9450866044	IMPEDANCE,470 OHM P	
R823	6520033764	INDUCTOR ,600 OHM	
R8231	3012637420	MT-GLAZE 75 JA 1/16W	
R8233	3012637420	MT-GLAZE 75 JA 1/16W	
R8234	3012637420	MT-GLAZE 75 JA 1/16W	
R8235	3012637420	MT-GLAZE 75 JA 1/16W	
R8237	3012637420	MT-GLAZE 75 JA 1/16W	
R8242	3012257915	MT-GLAZE 220 JA 1/16W	
R8244	3012257915	MT-GLAZE 220 JA 1/16W	
R8246	3012257915	MT-GLAZE 220 JA 1/16W	
R8247	3012257915	MT-GLAZE 220 JA 1/16W	
R8267	3012637420	MT-GLAZE 75 JA 1/16W	
R8311	3012249712	MT-GLAZE 22 JA 1/16W	
R8312	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8313	3012249712	MT-GLAZE 22 JA 1/16W	
R8314	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8316	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R836	3012249019	MT-GLAZE 10K JA 1/16W	
R838	3012249019	MT-GLAZE 10K JA 1/16W	
R843	3012249019	MT-GLAZE 10K JA 1/16W	
R845	3012249019	MT-GLAZE 10K JA 1/16W	
R846	3012249019	MT-GLAZE 10K JA 1/16W	
R852	6520033764	INDUCTOR ,600 OHM	
R853	6520033764	INDUCTOR ,600 OHM	
R854	6520033764	INDUCTOR ,600 OHM	
R855	6520033764	INDUCTOR ,600 OHM	
R856	6520033764	INDUCTOR ,600 OHM	
R857	6520033764	INDUCTOR ,600 OHM	
R858	6520033764	INDUCTOR ,600 OHM	
R860	3012249316	MT-GLAZE 1K JA 1/16W	
R867	3012249019	MT-GLAZE 10K JA 1/16W	
R8800	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8801	3012250312	MT-GLAZE 33 JA 1/16W	
R8802	3012250312	MT-GLAZE 33 JA 1/16W	
R8803	3012250312	MT-GLAZE 33 JA 1/16W	
R8805	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8806	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8807	3012251319	MT-GLAZE 470 JA 1/16W	
R8808	3012258110	MT-GLAZE 10 JA 1/16W	
R8809	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8810	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8811	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8812	3012253818	MT-GLAZE 1.5K JA 1/16W	
R8814	3012250312	MT-GLAZE 33 JA 1/16W	
R8815	3012250312	MT-GLAZE 33 JA 1/16W	
R8816	3012250312	MT-GLAZE 33 JA 1/16W	
R8817	3012250312	MT-GLAZE 33 JA 1/16W	
R8818	3012253818	MT-GLAZE 1.5K JA 1/16W	
R8820	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8821	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8822	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8823	3012250213	MT-GLAZE 3.3K JA 1/16W	
R8824	3012249316	MT-GLAZE 1K JA 1/16W	
R8825	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8834	3013399515	MT-GLAZE 12.1K FA 1/10W	
R8836	3012250213	MT-GLAZE 3.3K JA 1/16W	
R8837	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8838	3012533712	MT-GLAZE 0.000 ZA 1/4W	
R8839	3012249415	MT-GLAZE 1M JA 1/16W	
R8841	3013410616	MT-GLAZE 49.9 FA 1/16W	
R8842	3013410616	MT-GLAZE 49.9 FA 1/16W	
R8843	3013410616	MT-GLAZE 49.9 FA 1/16W	
R8844	3013410616	MT-GLAZE 49.9 FA 1/16W	
R8845	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8846	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8850	3012533712	MT-GLAZE 0.000 ZA 1/4W	
R8854	3012250213	MT-GLAZE 3.3K JA 1/16W	
R8856	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R8861	3012250015	MT-GLAZE 270 JA 1/16W	
R8865	3012250312	MT-GLAZE 33 JA 1/16W	
R8866	3012250312	MT-GLAZE 33 JA 1/16W	
R8867	3012250312	MT-GLAZE 33 JA 1/16W	
R8868	3012250312	MT-GLAZE 33 JA 1/16W	
R8869	3012250312	MT-GLAZE 33 JA 1/16W	
R8870	3012250312	MT-GLAZE 33 JA 1/16W	
R8871	3012250312	MT-GLAZE 33 JA 1/16W	
R8872	3012250312	MT-GLAZE 33 JA 1/16W	
R8875	3012250312	MT-GLAZE 33 JA 1/16W	
R8876	3012250015	MT-GLAZE 270 JA 1/16W	
R8879	3012249019	MT-GLAZE 10K JA 1/16W	
R8880	3012251210	MT-GLAZE 4.7K JA 1/16W	
R8897	3011505918	MT-GLAZE 10K JA 1/10W	
R9871	3012258110	MT-GLAZE 10 JA 1/16W	
R9872	3012249019	MT-GLAZE 10K JA 1/16W	
R9873	3012249019	MT-GLAZE 10K JA 1/16W	
R9875	3012249019	MT-GLAZE 10K JA 1/16W	
R9876	3012258110	MT-GLAZE 10 JA 1/16W	
R9882	3012258110	MT-GLAZE 10 JA 1/16W	
R9883	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R9889	3012258110	MT-GLAZE 10 JA 1/16W	
R9890	3012258110	MT-GLAZE 10 JA 1/16W	
R9891	3012258110	MT-GLAZE 10 JA 1/16W	
R9892	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R9897	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R9898	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R9899	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R9901	3012258110	MT-GLAZE 10 JA 1/16W	
R9907	3012248814	MT-GLAZE 100 JA 1/16W	
R9908	3012248814	MT-GLAZE 100 JA 1/16W	
R9909	3012248814	MT-GLAZE 100 JA 1/16W	
R9914	3012249019	MT-GLAZE 10K JA 1/16W	
R9915	3012249019	MT-GLAZE 10K JA 1/16W	
R9916	3012249019	MT-GLAZE 10K JA 1/16W	
R9918	3012258110	MT-GLAZE 10 JA 1/16W	
R9929	3012249019	MT-GLAZE 10K JA 1/16W	
R9931	3012249019	MT-GLAZE 10K JA 1/16W	
RB201	9450490690	R-NETWORK 33X4 1/16W	
RB2011	9450360986	R-NETWORK 47X4 1/32W	
RB2012	9450360986	R-NETWORK 47X4 1/32W	
RB2013	9450360986	R-NETWORK 47X4 1/32W	
RB2014	9450360986	R-NETWORK 47X4 1/32W	
RB2015	9450360986	R-NETWORK 47X4 1/32W	
RB2016	9450360986	R-NETWORK 47X4 1/32W	
RB202	9450490690	R-NETWORK 33X4 1/16W	
RB204	9450490690	R-NETWORK 33X4 1/16W	
RB206	9450490690	R-NETWORK 33X4 1/16W	
RB207	9450490690	R-NETWORK 33X4 1/16W	
RB208	9450490690	R-NETWORK 33X4 1/16W	
RB2301	9450541118	R-NETWORK 68X4 1/16W	
RB2302	9450541118	R-NETWORK 68X4 1/16W	
RB2303	9450541118	R-NETWORK 68X4 1/16W	
RB2304	9450541118	R-NETWORK 68X4 1/16W	
RB2307	9450541118	R-NETWORK 68X4 1/16W	
RB2308	9450541118	R-NETWORK 68X4 1/16W	
RB2309	9450541118	R-NETWORK 68X4 1/16W	
RB2311	9450360986	R-NETWORK 47X4 1/32W	
RB2312	9450360986	R-NETWORK 47X4 1/32W	
RB2313	9450360986	R-NETWORK 47X4 1/32W	
RB2314	9450360986	R-NETWORK 47X4 1/32W	
RB2316	9450360986	R-NETWORK 47X4 1/32W	
RB2317	9450360986	R-NETWORK 47X4 1/32W	
RB2318	9450360986	R-NETWORK 47X4 1/32W	
RB2319	9450360986	R-NETWORK 47X4 1/32W	
RB2321	9450360986	R-NETWORK 47X4 1/32W	

Ref.	Part No.	Description	Note
RB2322	9450360986	R-NETWORK 47X4 1/32W	
RB311	9450360986	R-NETWORK 47X4 1/32W	
RB312	9450360986	R-NETWORK 47X4 1/32W	
RB313	9450360986	R-NETWORK 47X4 1/32W	
RB314	9450360986	R-NETWORK 47X4 1/32W	
RB316	9450360986	R-NETWORK 47X4 1/32W	
RB317	9450490690	R-NETWORK 33X4 1/16W	
RB318	9450490690	R-NETWORK 33X4 1/16W	
RB319	9450490690	R-NETWORK 33X4 1/16W	
RB321	9450490690	R-NETWORK 33X4 1/16W	
RB322	9450490690	R-NETWORK 33X4 1/16W	
RB323	9450490690	R-NETWORK 33X4 1/16W	
RB324	9450360986	R-NETWORK 47X4 1/32W	
RB326	9450360986	R-NETWORK 47X4 1/32W	
RB327	9450360986	R-NETWORK 47X4 1/32W	
RB328	9450360986	R-NETWORK 47X4 1/32W	
RB329	9450360986	R-NETWORK 47X4 1/32W	
RB331	9450360986	R-NETWORK 47X4 1/32W	
RB332	9450360986	R-NETWORK 47X4 1/32W	
RB333	9450360986	R-NETWORK 47X4 1/32W	
RB334	9450360986	R-NETWORK 47X4 1/32W	
RB336	9450360986	R-NETWORK 47X4 1/32W	
RB337	9450360986	R-NETWORK 47X4 1/32W	
RB339	9450360986	R-NETWORK 47X4 1/32W	
RB406	9450345051	R-NETWORK 22X4 1/32W	
RB407	9450345051	R-NETWORK 22X4 1/32W	
RB408	9450345051	R-NETWORK 22X4 1/32W	
RB409	9450345051	R-NETWORK 22X4 1/32W	
RB411	9450345051	R-NETWORK 22X4 1/32W	
RB412	9450345051	R-NETWORK 22X4 1/32W	
RB413	9450345051	R-NETWORK 22X4 1/32W	
RB414	9450345051	R-NETWORK 22X4 1/32W	
RB416	9450345051	R-NETWORK 22X4 1/32W	
RB417	9450345051	R-NETWORK 22X4 1/32W	
RB418	9450345051	R-NETWORK 22X4 1/32W	
RB419	9450345051	R-NETWORK 22X4 1/32W	
RB421	9450345051	R-NETWORK 22X4 1/32W	
RB422	9450345051	R-NETWORK 22X4 1/32W	
RB423	9450345051	R-NETWORK 22X4 1/32W	
RB424	9450345051	R-NETWORK 22X4 1/32W	
RB426	9450345051	R-NETWORK 22X4 1/32W	
RB427	9450345051	R-NETWORK 22X4 1/32W	
RB4401	9450345051	R-NETWORK 22X4 1/32W	
RB4402	9450345051	R-NETWORK 22X4 1/32W	
RB4403	9450345051	R-NETWORK 22X4 1/32W	
RB4404	9450345051	R-NETWORK 22X4 1/32W	
RB4405	9450345051	R-NETWORK 22X4 1/32W	
RB4406	9450345051	R-NETWORK 22X4 1/32W	
RB4407	9450345051	R-NETWORK 22X4 1/32W	
RB4408	9450345051	R-NETWORK 22X4 1/32W	
RB4409	9450345051	R-NETWORK 22X4 1/32W	
RB4411	9450345051	R-NETWORK 22X4 1/32W	
RB4412	9450345051	R-NETWORK 22X4 1/32W	
RB4413	9450345051	R-NETWORK 22X4 1/32W	
RB4414	9450345051	R-NETWORK 22X4 1/32W	
RB4415	9450345051	R-NETWORK 22X4 1/32W	
RB4416	9450345051	R-NETWORK 22X4 1/32W	
RB4417	9450345051	R-NETWORK 22X4 1/32W	
RB4418	9450345051	R-NETWORK 22X4 1/32W	
RB4419	9450345051	R-NETWORK 22X4 1/32W	
RB4420	9450360979	R-NETWORK 10KX4 1/32W	
RB4421	9450360986	R-NETWORK 47X4 1/32W	
RB501	9450363529	R-NETWORK 0X4 1/32W	
RB502	9450363529	R-NETWORK 0X4 1/32W	
RB503	9450363529	R-NETWORK 0X4 1/32W	
RB531	9450363529	R-NETWORK 0X4 1/32W	
RB532	9450363529	R-NETWORK 0X4 1/32W	
RB533	9450363529	R-NETWORK 0X4 1/32W	
RB561	9450363529	R-NETWORK 0X4 1/32W	
RB562	9450363529	R-NETWORK 0X4 1/32W	
RB563	9450363529	R-NETWORK 0X4 1/32W	
RB8001	9450345051	R-NETWORK 22X4 1/32W	
RB8002	9450345051	R-NETWORK 22X4 1/32W	
RB8003	9450345051	R-NETWORK 22X4 1/32W	
RB8004	9450345051	R-NETWORK 22X4 1/32W	
RB8005	9450345051	R-NETWORK 22X4 1/32W	
RB8006	9450345051	R-NETWORK 22X4 1/32W	
RB8007	9450345051	R-NETWORK 22X4 1/32W	
RB8008	9450345051	R-NETWORK 22X4 1/32W	
RB8009	9450345051	R-NETWORK 22X4 1/32W	
RB8010	9450345051	R-NETWORK 22X4 1/32W	
RB8038	9450490690	R-NETWORK 33X4 1/16W	
RB8039	9450490690	R-NETWORK 33X4 1/16W	
RB8041	9450490690	R-NETWORK 33X4 1/16W	
RB8042	9450490690	R-NETWORK 33X4 1/16W	
RB8043	9450490690	R-NETWORK 33X4 1/16W	
RB8044	9450490690	R-NETWORK 33X4 1/16W	
RB831	9450360979	R-NETWORK 10KX4 1/32W	
RB832	9450360979	R-NETWORK 10KX4 1/32W	
RB836	9450360979	R-NETWORK 10KX4 1/32W	
RB838	9450360979	R-NETWORK 10KX4 1/32W	
SC1001	9450763503	SURGE-ABSORBER	
SC1002	9450763503	SURGE-ABSORBER	
SC1021	9450763503	SURGE-ABSORBER	
SC1022	9450763503	SURGE-ABSORBER	
SC1023	9450763503	SURGE-ABSORBER	
SC1024	9450763503	SURGE-ABSORBER	
SC1025	9450763503	SURGE-ABSORBER	
SC1026	9450763503	SURGE-ABSORBER	
SC1027	9450763503	SURGE-ABSORBER	
SC4001	9450763503	SURGE-ABSORBER	
SC4002	9450763503	SURGE-ABSORBER	
SC4003	9450763503	SURGE-ABSORBER	
SC4004	9450763503	SURGE-ABSORBER	
SC4005	9450763503	SURGE-ABSORBER	
SW301	9450262792	SWITCH,PUSH 1P-1TX1	
SW302	9450262792	SWITCH,PUSH 1P-1TX1	
X1351	6520021754	OSC,CRYSTAL27.000000MHZ	
X201	6520037595	OSC,CRYSTAL 25.000MHZ	
X2301	6451039279	OSC,CRYSTAL 82.0MHZ	
X8001	6520021754	OSC,CRYSTAL27.000000MHZ	
X8801	9450837556	OSC,CRYSTAL 25.0MHZ	
A1600	**ASSY,PWB,SENSOR C KS4A**		
C1814	3034093426	CERAMIC 0.1U K 16V	
IC1814	4106312708	IC MCP9801T-M/SN	
R1825	3012261516	MT-GLAZE 0.000 ZA 1/16W	
R1826	3012261516	MT-GLAZE 0.000 ZA 1/16W	
A1800	**ASSY,PWB,SENSOR A KS4A**		
C1691	3033645913	CERAMIC 0.22U K 16V	
IC1692	4106312708	IC MCP9801T-M/SN	
R1691	3012248814	MT-GLAZE 100 JA 1/16W	
R1692	3012248814	MT-GLAZE 100 JA 1/16W	
R1693	3012248814	MT-GLAZE 100 JA 1/16W	
A8730	**ASSY,PWB,FILTER SW KS4A**		
SW1891	9450635176	SWITCH,PUSH 2P-2TX3	
AA600	**ASSY,PWB,POWER KS4A**		
⚠ C601	3040942002	MT-POLYEST 0.47U K 275V	
⚠ C602	4041282401	MT-POLYEST 0.22U M 275V	
⚠ C603	3040735109	CERAMIC 470P K 250V	
⚠ C604	3040735109	CERAMIC 470P K 250V	
⚠ C605	4041282401	MT-POLYEST 0.22U M 275V	

Electrical Parts List

	Ref.	Part No.	Description	Note
⚠	C606	3040734508	CERAMIC 2200P M 250V	
⚠	C610	3040734508	CERAMIC 2200P M 250V	
	C611	3033718518	MT-POLYEST 1U K 400V	
⚠	C612	3040735109	CERAMIC 470P K 250V	
	C613	3034107113	ELECT 100U M 25V	
	C614	3034107113	ELECT 100U M 25V	
	C616	3040882605	ELECT 390U M 450V	
	C617	3040735109	CERAMIC 470P K 250V	
	C619	3032989612	CERAMIC 0.1U K 16V	
	C620	3032247019	CERAMIC 0.047U Z 50V	
	C621	3032052811	CERAMIC 0.047U K 25V	
	C622	3031576417	CERAMIC 330P K 50V	
	C623	3032152214	CERAMIC 0.01U K 50V	
	C624	3033423313	CERAMIC 0.1U K 25V	
	C625	3033945815	CERAMIC 4.7U K 16V	
	C627	3040912609	CERAMIC 0.1U K 50V	
	C628	3031573317	CERAMIC 68P J 50V	
	C629	3031576615	CERAMIC 470P K 50V	
	C630	3033423313	CERAMIC 0.1U K 25V	
	C631	3032989612	CERAMIC 0.1U K 16V	
	C632	3033423313	CERAMIC 0.1U K 25V	
	C633	3033423313	CERAMIC 0.1U K 25V	
	C634	3031576813	CERAMIC 680P K 50V	
	C635	3034099913	ELECT 470U M 16V	
	C636	3034271814	MT-POLYEST 0.1U K 450V	
	C637	4034776514	MT-POLYEST 0.01U J 630V	
	C640	3041081502	ELECT 100U M 25V	
	C641	3032152214	CERAMIC 0.01U K 50V	
	C642	4041286300	ELECT 15U M 450V	
	C643	3033969613	CERAMIC 1U K 25V	
	C644	4033675917	CERAMIC 100P K 1K	
	C645	4034803319	CERAMIC 10P D 1K	
	C646	4034803319	CERAMIC 10P D 1K	
	C647	4034837314	POLYPRO 0.027U J 400V	
	C648	3041081007	ELECT 100U M 35V	
	C650	3033423313	CERAMIC 0.1U K 25V	
	C654	4034549217	CERAMIC 0.47U K 25V	
	C655	3040912609	CERAMIC 0.1U K 50V	
	C656	3033423313	CERAMIC 0.1U K 25V	
	C658	3032473309	CERAMIC 330P K 2K	
	C659	3041081007	ELECT 100U M 35V	
	C661	3034174927	ELECT 22U M 16V	
	C679	3033423313	CERAMIC 0.1U K 25V	
	C680	3033709110	CERAMIC 0.068U K 50V	
	C681	3034107519	ELECT 4700U M 25V	
	C682	3033423313	CERAMIC 0.1U K 25V	
	C683	4034453940	ELECT 3900U M 10V	
	C684	3033423313	CERAMIC 0.1U K 25V	
	C685	3033992126	ELECT 220U M 16V	
	C686	3033485826	CERAMIC 0.47U K 10V	
	C688	3033423313	CERAMIC 0.1U K 25V	
	C692	4034551418	CERAMIC 2.2U K 16V	
	C694	3031552213	CERAMIC 3300P K 50V	
	C695	3031573614	CERAMIC 100P J 50V	
	D601	3072478827	DIODE RF101L2S	
	D602	3072478827	DIODE RF101L2S	
	D603	3071644015	DIODE RB160L-40-TE25	
	D604	3072537405	DIODE FMXA-1106S	
	D604C	6520026520	CORE,PIPE	
	D604D	6520026520	CORE,PIPE	
	D605	3071490810	DIODE 1SS355-TE-17	
	D606	3071490810	DIODE 1SS355-TE-17	
	D607	3071490810	DIODE 1SS355-TE-17	
	D608	3071490810	DIODE 1SS355-TE-17	
	D609	3071490810	DIODE 1SS355-TE-17	
	D611	3071490810	DIODE 1SS355-TE-17	
	D612	3071490810	DIODE 1SS355-TE-17	
	D613	3072478827	DIODE RF101L2S	
	D614	3072478827	DIODE RF101L2S	
	D615	3071490810	DIODE 1SS355-TE-17	
	D616	3072478827	DIODE RF101L2S	
	D617	3071468116	DIODE EG01C	
	D618	3070077715	DIODE EU2A-V1	
	D619	3070077715	DIODE EU2A-V1	
	D622	3071791214	ZENER DIODE PTZ13B-TE25	
	D651	3072478827	DIODE RF101L2S	
	D652	3071468116	DIODE EG01C	
	D653	3072065611	ZENER DIODE UDZS-TE-1710B	
	D654	3072187511	ZENER DIODE UDZS16B-TE-17	
	D681	4072673001	DIODE SG10SC6M	
	D682	4072673001	DIODE SG10SC6M	
	D683	3072478827	DIODE RF101L2S	
	D687	3072105416	DIODE RB551V-30-TE-17	
	D688	3071496327	DIODE SFPB-54V	
	D689	3071644015	DIODE RB160L-40-TE25	
⚠	DB601	3072303703	DIODE D15XB80-7000	
	DS601	3072190808	THYRISTOR TF861S	
	DS602	4096922515	IC TA76L431FB	
	DS603	4096922515	IC TA76L431FB	
⚠	F601	4230354704	FUSE 250V 10A	
	FB601	9102293532	CORE	
	FB602	9102293532	CORE	
	FB605	9102293532	CORE	
	IC603	4097008703	IC STR-A6079	
	IC604	4097029817	IC SSC9512S	
	IC682	3095231413	IC FA5502M	
⚠	L601	9450613990	LINE FILTER	
⚠	L602	9450613990	LINE FILTER	
⚠	L603	9450814878	LINE FILTER	
	L611	6450892677	FILTER,EMI 1500PF	
	L613	6520028500	INDUCTOR 330OHM, P	
	L614	6450892677	FILTER,EMI 1500PF	
	L615	6450892677	FILTER,EMI 1500PF	
	L616	6450892677	FILTER,EMI 1500PF	
	L617	9450411978	INDUCTOR,330 OHM	
	L618	9450496838	IMPEDANCE,1000 OHM P	
	L623	6520028500	INDUCTOR 330OHM, P	
⚠	LF601	6520037731	CORD,POWER-75MM/40MM	
⚠	PC601	4072657813	PC TLP781F(D4-GB-TP7)	
⚠	PC602	4072657813	PC TLP781F(D4-GB-TP7)	
⚠	PC603	4072657813	PC TLP781F(D4-GB-TP7)	
⚠	PC604	4072657813	PC TLP781F(D4-GB-TP7)	
	PTH601	3080374603	THERMISTOR NTPDB8R0LD7B0	
	PTH641	3080613900	TH PRF18BC471QB1RB	
	Q601	4052267008	TR TK15A50D(Q)	
	Q601C	6520026520	CORE,PIPE	
	Q601D	6520026520	CORE,PIPE	
	Q603	4052267008	TR TK15A50D(Q)	
	Q603C	6520026520	CORE,PIPE	
	Q604	4052267008	TR TK15A50D(Q)	
	Q604C	6520026520	CORE,PIPE	
	Q604E	6520026520	CORE,PIPE	
	Q605	4052267008	TR TK15A50D(Q)	
	Q605C	6520026520	CORE,PIPE	
	Q607	3050158727	TR 2SC2812-L6-TB	
	Q608	3050158727	TR 2SC2812-L6-TB	
	Q609	3051472218	TR 2SA1037AK-S-T146	
	Q613	4052203016	TR ISA1235AC1F	
	Q621	3050158727	TR 2SC2812-L6-TB	
	Q622	4052203016	TR ISA1235AC1F	
	Q623	4052203016	TR ISA1235AC1F	
	Q652	3050158727	TR 2SC2812-L6-TB	
	Q681	3050158727	TR 2SC2812-L6-TB	
⚠	R600	6103614922	MT-GLAZE 470K JA 1/2W	
⚠	R601	6103614922	MT-GLAZE 470K JA 1/2W	
	R602	3012423914	MT-GLAZE 240K JA 1/2W	
	R603	3012423914	MT-GLAZE 240K JA 1/2W	
	R604	3012588217	MT-GLAZE 680 JA 1/3W	
	R605	3011622219	MT-GLAZE 10 JA 1/10W	
	R606	3020808809	MT-GLAZE 680 KA 1W	
	R607	3011879514	MT-GLAZE 1M JA 1/4W	
	R608	3011879514	MT-GLAZE 1M JA 1/4W	

Electrical Parts List

Ref.	Part No.	Description	Note
R609	3011879514	MT-GLAZE 1M JA 1/4W	
R610	3011505819	MT-GLAZE 100K JA 1/10W	
R611	3012875713	MT-GLAZE 220K JA 1W	
R612	3012562613	MT-GLAZE 2.4K JA 1/10W	
R613	3021065508	RESISTER 0.075 KB 5W	
R614	4021098206	RESISTER 0.15 JB 5W	
R615	3012556513	MT-GLAZE 100 JA 1/10W	
R616	3012566314	MT-GLAZE 47K JA 1/10W	
R617	4021221208	OXIDE-MT 0.39JB 1W	
R618	3011623711	MT-GLAZE 4.7K JA 1/10W	
R619	3011506014	MT-GLAZE 0.000 ZA 1/10W	
R620	3011623711	MT-GLAZE 4.7K JA 1/10W	
R621	3012558715	MT-GLAZE 22 JA 1/10W	
R622	3012649413	MT-GLAZE 33K FA 1/10W	
R623	3012348118	MT-GLAZE 4.7 JA 1W	
R624	3012567519	MT-GLAZE 390 JA 1/10W	
R626	3011523219	MT-GLAZE 330 JA 1/10W	
R627	3012566512	MT-GLAZE 68 JA 1/10W	
R628	3012556513	MT-GLAZE 100 JA 1/10W	
R630	3012562910	MT-GLAZE 150 JA 1/10W	
R631	3011505918	MT-GLAZE 10K JA 1/10W	
R632	3011506410	MT-GLAZE 4.3K JA 1/10W	
R633	3011623810	MT-GLAZE 470K JA 1/10W	
R634	3012563511	MT-GLAZE 150K JA 1/10W	
R635	3012556513	MT-GLAZE 100 JA 1/10W	
R636	3011523110	MT-GLAZE 620 JA 1/10W	
R637	3011622417	MT-GLAZE 1.2K JA 1/10W	
R638	3012599015	MT-GLAZE 150K FA 1/2W	
R639	3012599015	MT-GLAZE 150K FA 1/2W	
R640	3012566512	MT-GLAZE 68 JA 1/10W	
R641	3012599015	MT-GLAZE 150K FA 1/2W	
R642	3011622219	MT-GLAZE 10 JA 1/10W	
R643	3012599015	MT-GLAZE 150K FA 1/2W	
R644	3012255614	MT-GLAZE 2.2 JA 1W	
R645	3012556513	MT-GLAZE 100 JA 1/10W	
R647	3012559514	MT-GLAZE 220K JA 1/10W	
R648	3011622417	MT-GLAZE 1.2K JA 1/10W	
R649	3012559514	MT-GLAZE 220K JA 1/10W	
R650	3012558517	MT-GLAZE 9.1K JA 1/10W	
R653	3012533712	MT-GLAZE 0.000 ZA 1/4W	
R654	3011506014	MT-GLAZE 0.000 ZA 1/10W	
⚠ R658	4011132111	MT-GLAZE 22 JA 1/2W	
R659	3011854511	MT-GLAZE 33 JA 1/2W	
⚠ R660	3020812905	FUSIBLE RES 22 JH 1/2W	
R662	3012566314	MT-GLAZE 47K JA 1/10W	
R665	3011505819	MT-GLAZE 100K JA 1/10W	
R670	3011623711	MT-GLAZE 4.7K JA 1/10W	
R671	3011624015	MT-GLAZE 560 JA 1/10W	
R672	3011624015	MT-GLAZE 560 JA 1/10W	
R673	3012566314	MT-GLAZE 47K JA 1/10W	
R674	3012562613	MT-GLAZE 2.4K JA 1/10W	
R675	3011506212	MT-GLAZE 1K JA 1/10W	
R676	3011506212	MT-GLAZE 1K JA 1/10W	
R677	3011505918	MT-GLAZE 10K JA 1/10W	
R678	3011623612	MT-GLAZE 470 JA 1/10W	
R679	3012644715	MT-GLAZE 1.8K FA 1/10W	
R680	3011506212	MT-GLAZE 1K JA 1/10W	
R681	3011505918	MT-GLAZE 10K JA 1/10W	
R682	3011622417	MT-GLAZE 1.2K JA 1/10W	
R683	3011506212	MT-GLAZE 1K JA 1/10W	
R685	3011623711	MT-GLAZE 4.7K JA 1/10W	
R686	3011623414	MT-GLAZE 39K JA 1/10W	
R687	3012652611	MT-GLAZE 5.1K FA 1/10W	
R689	3011506212	MT-GLAZE 1K JA 1/10W	
R690	3011506212	MT-GLAZE 1K JA 1/10W	
R691	3012567311	MT-GLAZE 6.8K JA 1/10W	
R692	3011506212	MT-GLAZE 1K JA 1/10W	
R693	3011505918	MT-GLAZE 10K JA 1/10W	
R694	3011623711	MT-GLAZE 4.7K JA 1/10W	
R695	3012567311	MT-GLAZE 6.8K JA 1/10W	
R696	3011622417	MT-GLAZE 1.2K JA 1/10W	
R697	3011506212	MT-GLAZE 1K JA 1/10W	
R698	3012556513	MT-GLAZE 100 JA 1/10W	
R699	3012384215	MT-GLAZE 1.5K JA 1/3W	
⚠ RL602	6451010544	RELAY	
⚠ T601	6450892561	INDUCTOR,700U	
⚠ T651	9450857035	TRANS,POWER,PULSE	
⚠ T652	6520030572	TRANS,POWER,PULSE	
⚠ VA601	4080713102	VARISTOR S14K385E2K1	
⚠ VA602	4080713102	VARISTOR S14K385E2K1	
VR601	6451056092	VR,SEMI,1K M	

Electrical Parts List

Ref.	Part No.	Description	Note	Ref.	Part No.	Description	Note

Panasonic®

Schematic Diagram
Circuit Boards Diagram

Models **PT-EX600U** **PT-EX600E**
PT-EX600UL **PT-EX600EL**
PT-EW630U **PT-EW630E**
PT-EW630UL **PT-EW630UL**

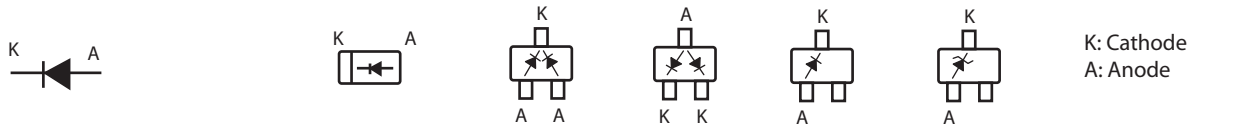
Important Safety Notice
Components identificated by the International symbol ⚠ have special characteristics important for safety.
When replacing any of these components, use only the manufacturer's specified parts.

■ COLD and HOT indications
The power circuit board contains a circuit area using a separate power supply to isolate the ground connection.
The circuits is defined by HOP and COLD indications in the schematic diagram. Take the precautions below.
This schematic diagram is the latest at the time of model production start and subject to change without notice.

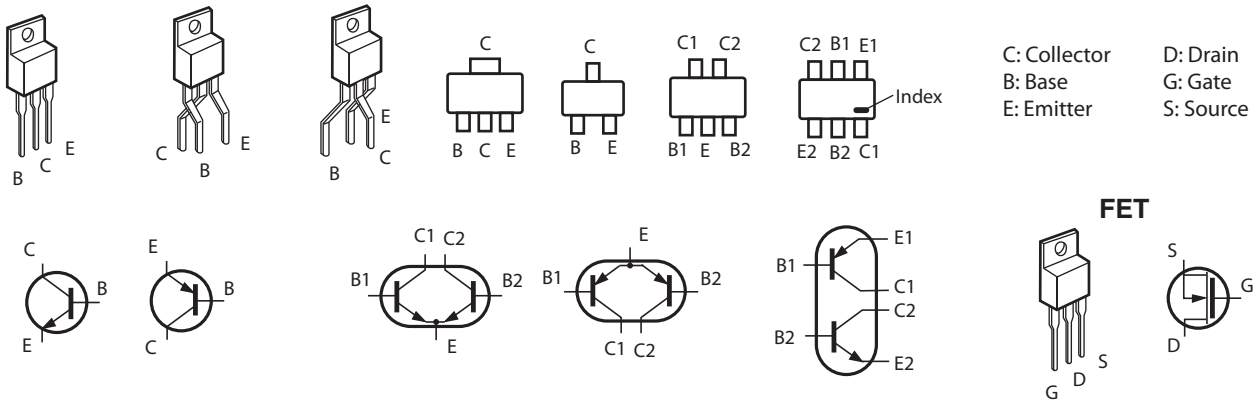
■ Precautions
NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
NEVER short-circuit the HOL and COLD circuits, or the fuse may blow and the parts may break.
NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow.
Connect the ground of instruments to the ground of the circuit being measured.
MAKE SURE to unplug the power cord from the power outlet before removing the chassis.
When ordering parts, please check the part number of the parts list.

Pin description of diode, transistor and IC

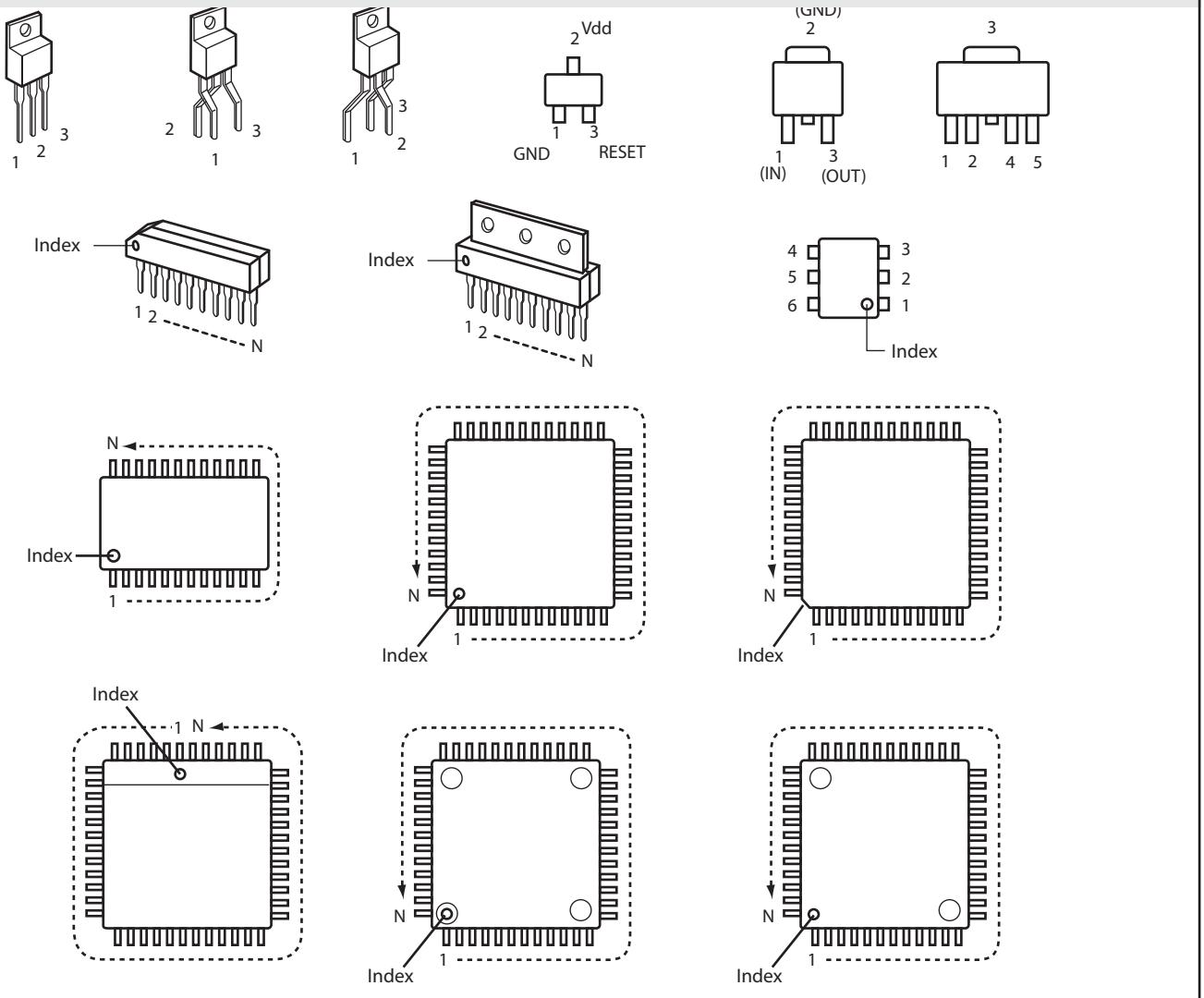
● Diode



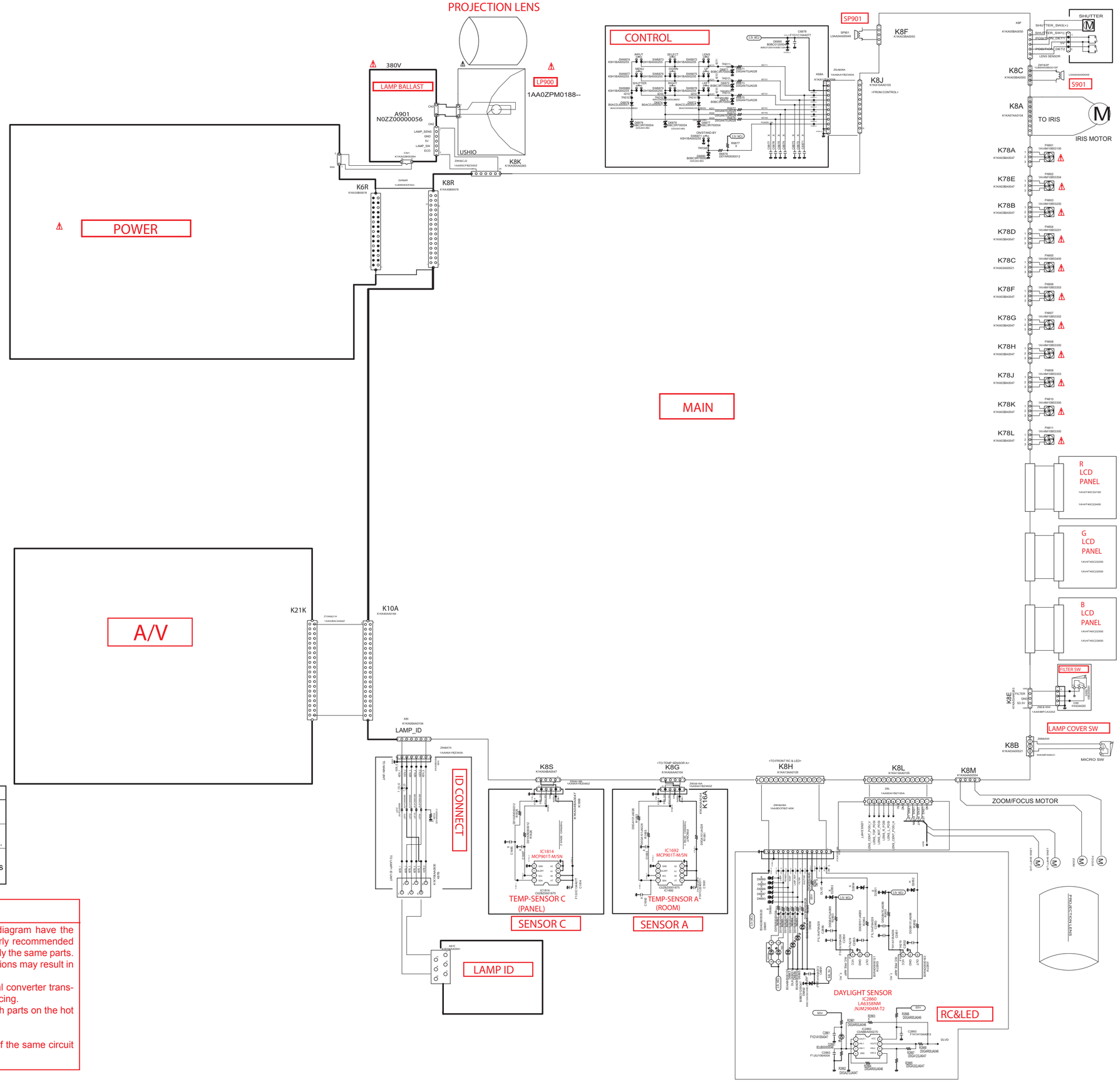
● Transistor/FET



● IC



Schematic Diagrams



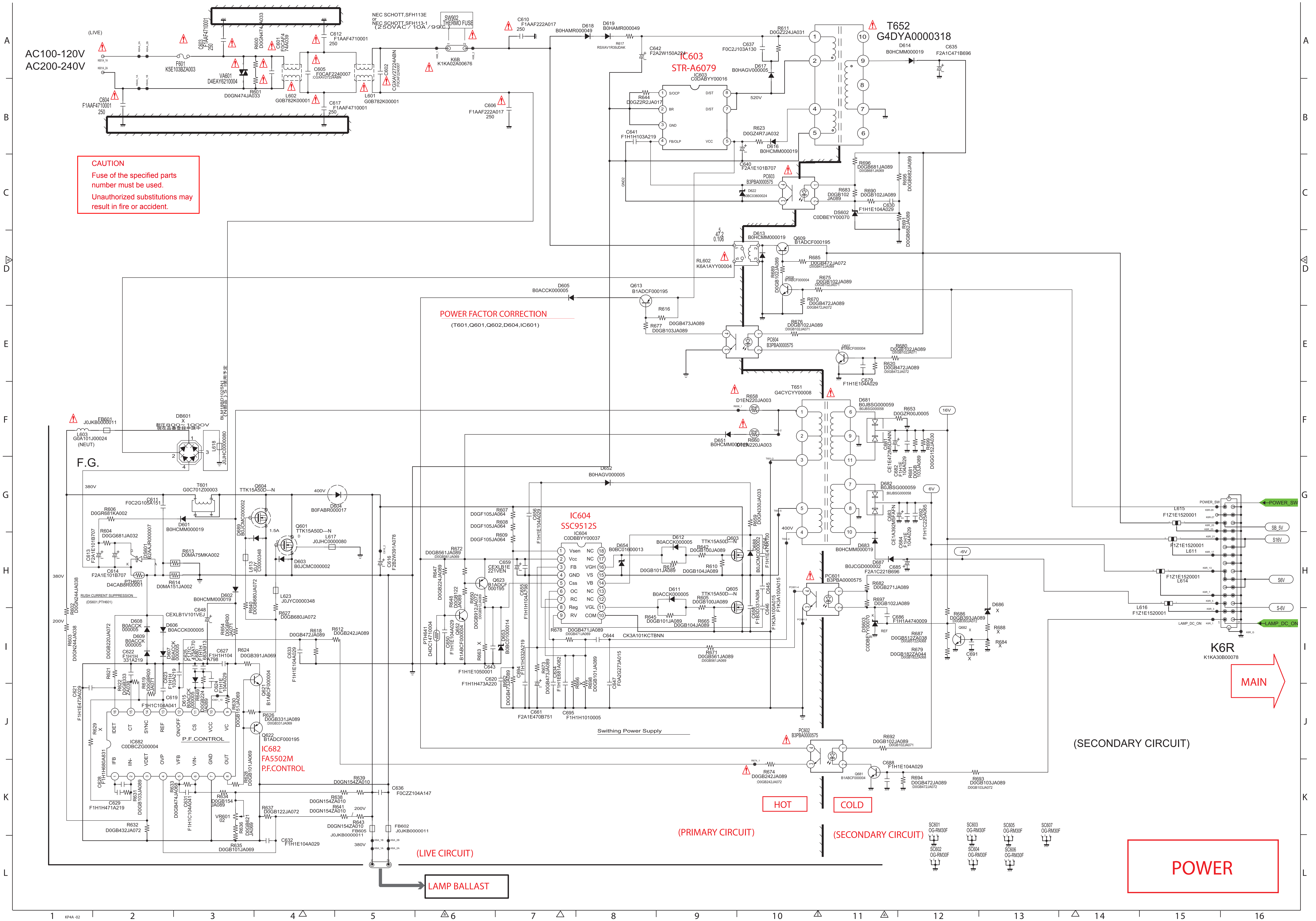
Indication of Signals	
	Power Failure, Fan Failure Detection Signals - NO POWER when one of those signals detects a failure.
	Power Drive, Fan Drive Signals - NO POWER when one of those signals has a failure.
	Switch Signals [AV switch, Mute, etc] - NO PICTURE or NO SOUND when one of those signals has a failure.

CAUTION

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

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

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



AC100-120V
AC200-240V
(LIVE)
F601
K5E103BZA003
VA601
D4EAY6210004
R601
D0GN474JA033
R600
D0GN474JA033
C603
F1AAF4710001
250
C601
F0CAF474A039
C604
F1AAF4710001
250
C605
F0CAF2240007
:CGXAV27224ABN
C602
CGXAV27224ABN
:F0CAF2240007
L602
G0B782K00001
L601
G0B782K00001
C612
F1AAF4710001
250
C617
F1AAF4710001
250
NEC SCHOTT,SFH113E
or
NEC SCHOTT,SFH113-1
(250VAC/10A/99℃)
SW902
THERMO FUSE
K6B
K1KA02A00676
C606
F1AAF222A017
250
C610
F1AAF222A017
250
D618
B0HAMR000049
D619
B0HAMR000049
R617
RSXAV1R39JDAK
C642
F2A2W150A224
IC603
STR-A6079
IC603
C0DABYY00016
R644
D0GZ2R2JA017
C641
F1H1H103A219
C637
F0C2J103A130
R611
D0GZ224JA031
D617
B0HAGV000005
520V
R623
D0GZ4R7JA032
D616
B0HCMM000019
C640
F2A1E101B707
T652
G4DYA0000318
D614
B0HCMM000019
C635
F2A1C471B696
PC603
B3PBA0000575
D622
B0BC03600024
R696
D0GB681JA089
R683
D0GB102JA089
R690
D0GB102JA089
C630
F1H1E104A029
DS602
C0DBEYY00070
R695
D0GB682JA089
R691
D0GB682JA089
CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.
RL602
K6A1AYY00004
D613
B0HCMM000019
Q609
B1ADCF000195
R685
D0GB472JA072
R689
D0GB102JA089
Q608
B1ABCF000004
R675
D0GB102JA089
R670
D0GB472JA089
D605
B0ACCK000005
Q613
B1ADCF000195
R616
D0GB473JA089
R677
D0GB103JA089
POWER FACTOR CORRECTION
(T601,Q601,Q602,D604,IC601)
PC604
B3PBA0000575
R676
D0GB102JA089
Q607
B1ABCF000004
R680
D0GB102JA089
R620
D0GB472JA089
C679
F1H1E104A029
T651
G4CYCYY00008
R658
D1EN220JA003
R660
D1EN220JA003
D651
B0HCMM000019
D681
B0JBSG000059
R653
D0GZR00J0005
16V
C681
CE1E472M5DANN
C682
F1H1E104A029
R681
D0GB103JA089
R699
D0GG152JA030
D682
B0JBSG000059
6V
C683
CE1A392M5FAFN
C684
F1H1E104A029
C692
F1H1C225A065
D683
B0HCMM000019
D687
B0JCGD000002
C685
F2A1C221B696
-6V
FB601
J0JKB0000011
L603
G0A101J00024
(NEUT)
DB601
X
耐圧800~1000V
現在品番登録申請中
L618
J0JHC0000080
BLM18BD102SN1
(N部品)SI使用予定
F.G.
380V
T601
G0C701Z00003
C611
F0C2G105A151
R606
D0GR681KA002
D601
B0HCMM000019
Q604
TTK15A50D---N
400V
D604
B0FABR000017
D689
B0JCMC000002
1.5A
Q601
TTK15A50D---N
L617
J0JHC0000080
R604
D0GG681JA032
DS601
B2AAJR000007
C613
F2A1E101B707
C614
F2A1E101B707
R613
D0MA75MKA002
R614
D0MA151JA002
PTH601
D4CAB8R00001
RUSH CURRENT SUPPRESSION
(DS601,PTH601)
L613
J0JYC0000348
D603
B0JCMC000002
C616
F2B2W391A078
R602
D0GN244JA038
R603
D0GN244JA038
200V
D602
B0HCMM000019
C648
CEXLB1V101VEJ
L623
J0JYC0000348
R640
D0GB680JA072
R627
D0GB680JA072
D608
B0ACCK000005
D606
B0ACCK000005
D609
B0ACCK000005
D607
B0ACCK000005
R654
D0GBR00JA071
R618
D0GB472JA089
R612
D0GB242JA089
C633
F1H1E104A029
C622
F1H1H331A219
C625
F1J1C475A170
C680
F1H1H683A913
C627
F1H1H104A798
R624
D0GB391JA069
R621
R622
D0GB333ZA038
R619
D0GBR00JA071
C623
F1H1H103A219
C619
F1H1C104A041
D615
B0ACCK000005
R649
D0GB224JA089
C624
F1H1E104A029
R630
D0GB151JA069
Q621
B1ABCF000004
C621
F1H1E473A029
R626
D0GB331JA089
Q622
B1ADCF000195
R629
X
IC682
C0DBCZG00004
P.F.CONTROL
IDET CT SYNC REF ON/OFF CS VCC VC
IFB IIN- VDET OVP VFB VIN- GND OUT
IC682
FA5502M
P.F.CONTROL
R628
D0GB101JA069
C628
F1H1H680A831
R631
D0GB103JA089
C629
F1H1H471A219
R633
D0GB474JA068
C631
F1H1C104A041
R634
D0GB154JA089
VR601
02
R636
D0GB621JA069
R632
D0GB432JA072
R635
D0GB101JA069
C632
F1H1E104A029
R637
D0GB122JA072
R639
D0GN154ZA010
R638
D0GN154ZA010
R641
D0GN154ZA010
R643
D0GN154ZA010
C636
F0CZZ104A147
FB605
J0JKB0000011
FB602
J0JKB0000011
380V
(LIVE CIRCUIT)
LAMP BALLAST
PTH641
D4DC14710004
C650
F1H1E104A029
Q652
B1ABCF000004
R647
D0GB224JA089
R648
D0GB122JA089
R672
D0GB561JA089
Q623
B1ADCF000195
R650
D0GB912JA072
R663
X
C643
F1H1E1050001
C620
F1H1H473A220
R662
D0GB473JA089
D653
B0BC01000014
C659
CEXLB1E221VEN
R607
D0GF105JA064
R608
D0GF105JA064
R609
D0GF105JA064
C655
F1H1H104A798
C656
F1H1E104A029
D652
B0HAGV000005
IC604
SSC9512S
IC604
C0DBBYY00037
Vsen Vcc FB GND Css OC RC Reg RV
NC NC VGH VS VB NC NC VGL COM
D654
B0BC01600013
D612
B0ACCK000005
R615
D0GB101JA089
R642
D0GB100JA089
R610
D0GB104JA089
Q603
TTK15A50D---N
D611
B0ACCK000005
R645
D0GB101JA089
R605
D0GB100JA089
R665
D0GB104JA089
Q605
TTK15A50D---N
R659
D0GN330JA033
D688
B0JCMC000002
C654
F1H1E474A100
C658
F1B3D331A084
C645
C646
F1K3A100A015
R678
D0GB471JA089
C644
CK3A101KCTBNN
R671
D0GB561JA089
C694
F1H1H332A219
R673
D0GB473JA089
C634
F1H1E681A082
R666
X
R698
D0GB101JA089
C647
F0A2G273A015
C661
F2A1E470B751
C695
F1H1H1010005
Swithing Power Supply
400V
PC601
B3PBA0000575
R682
D0GB271JA089
R697
D0GB102JA089
C686
F1H1A4740009
DS603
C0DBEYY00070
REF
R687
D0GB512ZA038
R679
D0GB182ZA044
R686
D0GB393JA089
Q682
X
C691
X
D686
X
R688
X
R684
X
PC602
B3PBA0000575
R692
D0GB102JA089
R674
D0GB242JA089
Q681
B1ABCF000004
C688
F1H1E104A029
R694
D0GB472JA089
R693
D0GB103JA089
HOT
COLD
(PRIMARY CIRCUIT)
(SECONDARY CIRCUIT)
SC601 OG-RM30F
SC602 OG-RM30F
SC603 OG-RM30F
SC604 OG-RM30F
SC605 OG-RM30F
SC606 OG-RM30F
SC607 OG-RM30F
POWER_SW
L615
F1Z1E1520001
SB_5V
S16V
F1Z1E1520001
L611
F1Z1E1520001
L614
S6V
L616
F1Z1E1520001
S-6V
LAMP_DC_ON
K6R
K1KA30B00078
MAIN
(SECONDARY CIRCUIT)
POWER
KP4A -02

CONTROL PORT
(UART)
RS232C

INPUT2(5-BNC)
PC-RGB
VIDEO-RGB
COMPONENT
COMPOSITE

INPUT3(RCA)
COMPONENT
COMPOSITE

INPUT3
(S-VIDEO)

INPUT3
AUDIO_IN

INPUT2
AUDIO_IN

INPUT1
AUDIO_OUT

AUDIO_OUT

WIRED R/C

IC3801
C0ZBZ0001883
MAX232ECPWRP
RS232C DRIVER

IC3805
TC7WBD125AFK
C0JBA5000258

IC3806
TC7WBD125AFK
C0JBA5000258

IC5231
THS7347IPHPR
3CH ANALOG-SW
C1AB00002978

IC5001
NJW1156AV
AUDIO SW

IC5051
TC7WBD125AFK

FOR MAIN UNIT
BOARD TO BOARD
CONNECTOR

(FROM AV JACK)

P基盤整用のGND

A/V

INPUT1

DVI_D

HDMI

K10C
K1FY119E0041

IC8301
PCM1754DBQRP
HDMI AUDIO

IC8001
MN864771AKY

HDMI
RECEIVER

IC8091
TC74VCX162827FT

IC8092
TC74VCX162827FT

IC301

IC5621
TA48500AFP

IC8081
TJ3965GRS-ADJ-5L

IC001
TPA3111D1PWPR
[AUDIO AMP]

SP

K8F
K1KA03BA0050

SPEAKER
SP901

IRIS CIRCUIT

IC7100
TA48S00AF

IC601
TB6608FNG
IRIS CONTROL

K8A
K1KA07AA0104

IC602
74LVC1G04GW-125

IC8106
TC7W53FU

IC8108
TC7W53FU

IC8105
TC7W53FU

IC8104
TC7W53FU

IC8101
24C02CT-I/SNG

IC8112
TC7WBD125AFK

IC8113
TC7WBD125AFK

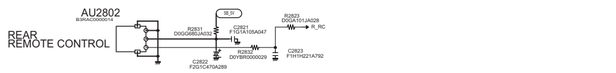
IC8114
24C02CT-I/SNG

DVI DIGITAL	HDCP_IIC_SW
HDCP	L
	H

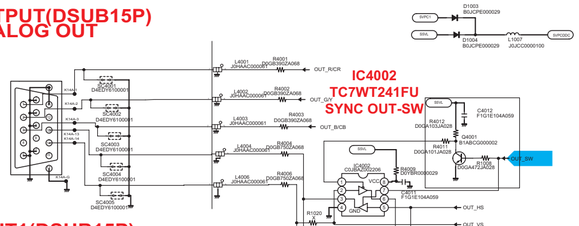
EEPROM-DVI_D	DDC_SW1
EEPROM-PW392	L
	H

MAIN-1

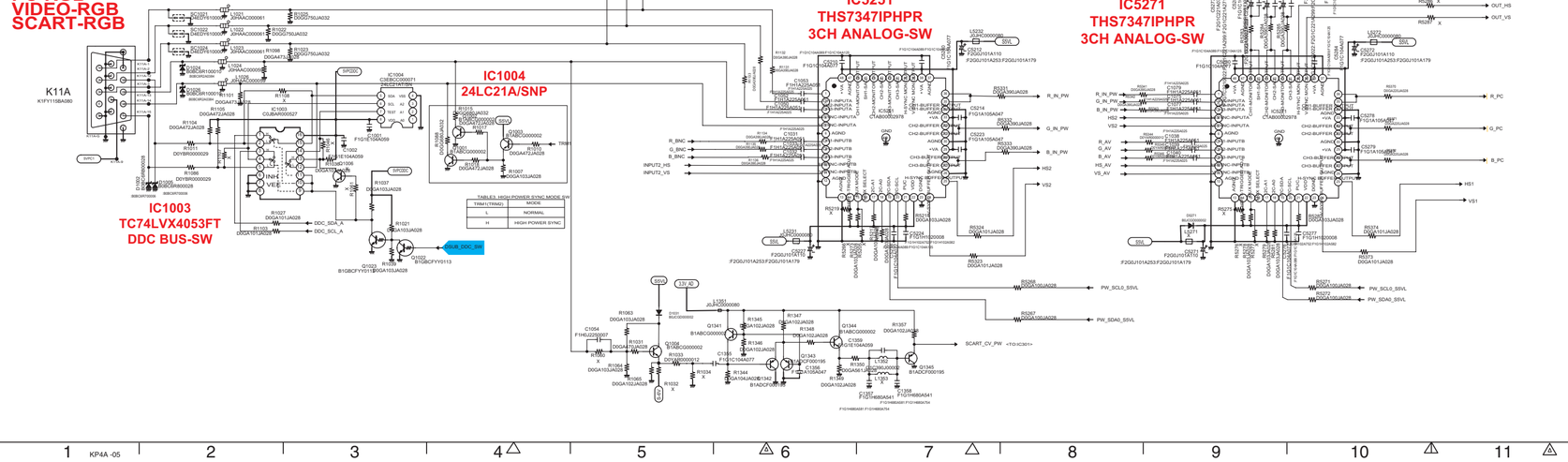
REAR
REMOTE CONTROL

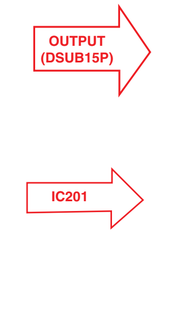


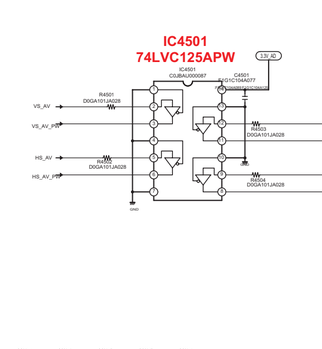
OUTPUT(DSUB15P)
ANALOG OUT

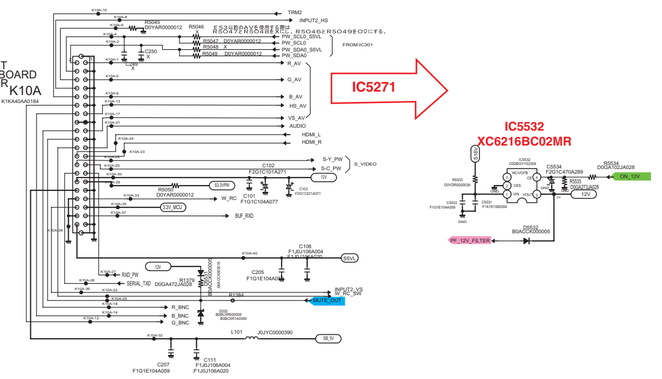


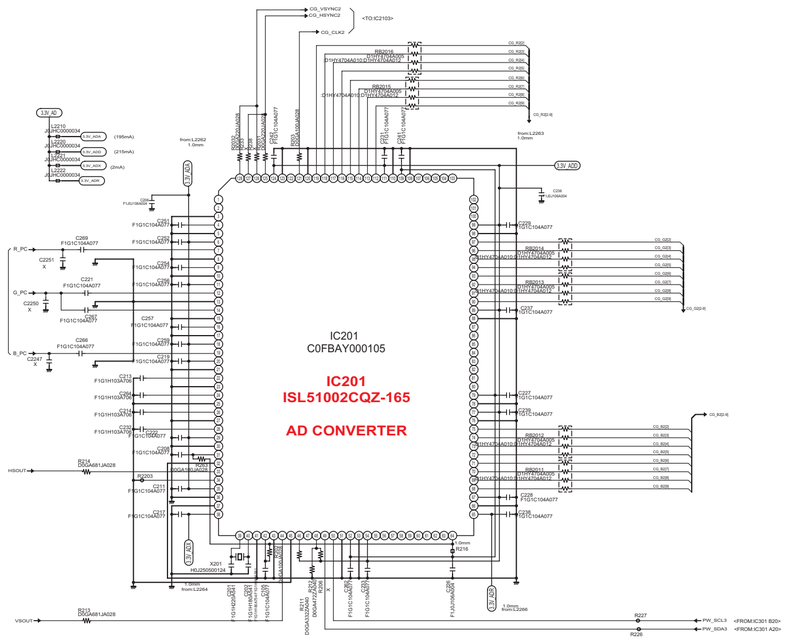
INPUT1(DSUB15P)
PC-RGB
VIDEO-RGB
SCART-RGB

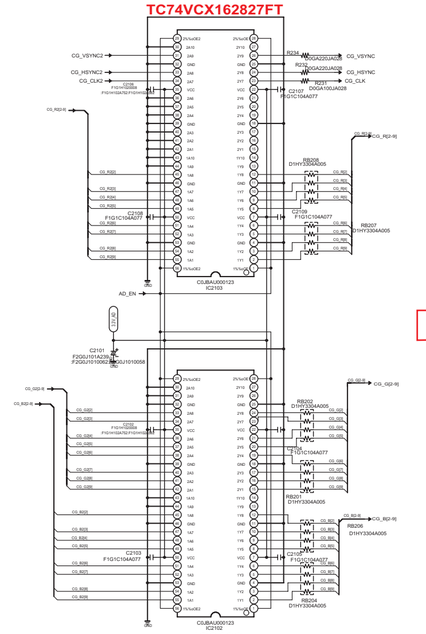


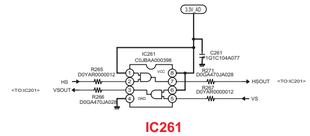


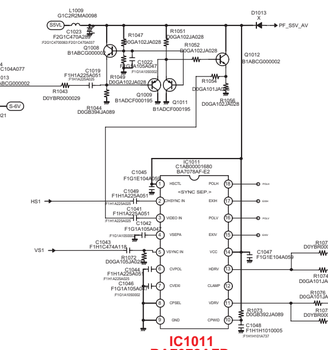


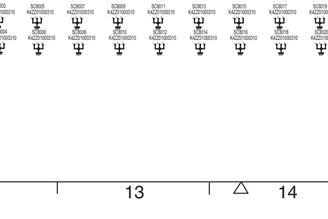












MAIN-2

K1201
K1KA06AA0104

IC5291
TJ3965GRS-ADJ-5L

IC5542
XC6216BC02MR

IC8805
TC7WBD125AFK

IC8806
TC7WBD125AFK

IC5201
XC3S50A-4FTG256C
FPGA
IC5201
C1ZBZ0003987
<FRT>

IC5821
TPS54327DDAR
IC5821
C0JBAYY01135
TPS54327DDAR

IC3902
C0JBAA000374

IC9885
MB95F353EPFT
SUB_CPU
TSSOP 24
pitch 0.65mm

IC8801
PIC32MX695F512H
IC8801
C2DBYY001165
PIC32MX695F512H-80I/PT

IC8803
LAN8710A-EZC
IC8803
C1CB00003735
LAN8710A-EZC

IC3802
TC7W241FU

IC3803
TC7W241FU

IC3804
TC7W241FU

IC8806
TC7WBD125AFK

K8801
G4BYB0000006
1AV4L18B0720M

SUB MICON for
ECO STANDBY

LAN

ID CONNECT

LAMP_ID

MAIN-3

IC201
IC8001

IC4711
74LVC125APW

IC354
TC7SZ125FU

MEMORY
IC1387
24LC64T

IC301
PW392C-30
<TOP_VIEW>

SYSTEM
CONTROL
SCALER

IC1311
M13S2561616A
DDR RAM

IC1331
M13S2561616A
DDR RAM

IC801
S29GL064N90TFI030

FLASH
MEMORY

IC809
TC7SZ125FU

IC810
TC7SZ125FU

IC2811
74LVC125APW
;TC74LCX125FT

IC2810
TC74LCX14FT

IC2813
TC7SZ32FU-TE85L
;74LVC1G32GW

for HDCP-ANALOG DDC

IC1372
TC7WBD125AFK

IC5860
TPS54327DDAR

IC5851
TA48500AF

IC5842
TPS54327DDAR

IC1371
TC7WBD125AFK

IC301
PST413A300NR

IC2301

IRIS CIRCUIT

MAIN-4

IC4441
TPS54327DDAR

IC4461
TPS54327DDAR

IC4471
TPS54327DDAR

IC4481
TJ3965GRS

IC4491
TJ3965GRS

IC4451
TJ3965GRS

IC2391
PQ1DX095MZPQ

IC2301
IP00C783
KEYSTONE

IC4401
XC3S400A
LVDS CONVTER

IC4401
C1ZBZ0003719

IC2351
M13S128324A
DDR

IC2351
C3ABQY000067
32bit DDR

MAIN-5

DIA-10

KP4A -08

SCH_KP4A

IC1441
TJ3965GRS-ADJ-5L

IC1451
PQ1LAX95MSPQ

IC1461
TPS54327DDAR

IC401
CXD3548GB
DIGITAL GAMMA
CORRECTION

IC2301

IC401
C1AB000029B0
CXD3540AGB

<TOP_VIEW>

IC501
CXA7009R
R-S&H
IC501
C1AB00003472

IC531
CXA7009R
G-S&H
IC531
C1AB00003472
CXA7009RM

IC561
CXA7009R
B-S&H
IC561
C1AB00003472

IC1422
TC7SZ125FU

IC592
PQ20WZ11

R-LCD PANEL

G-LCD PANEL

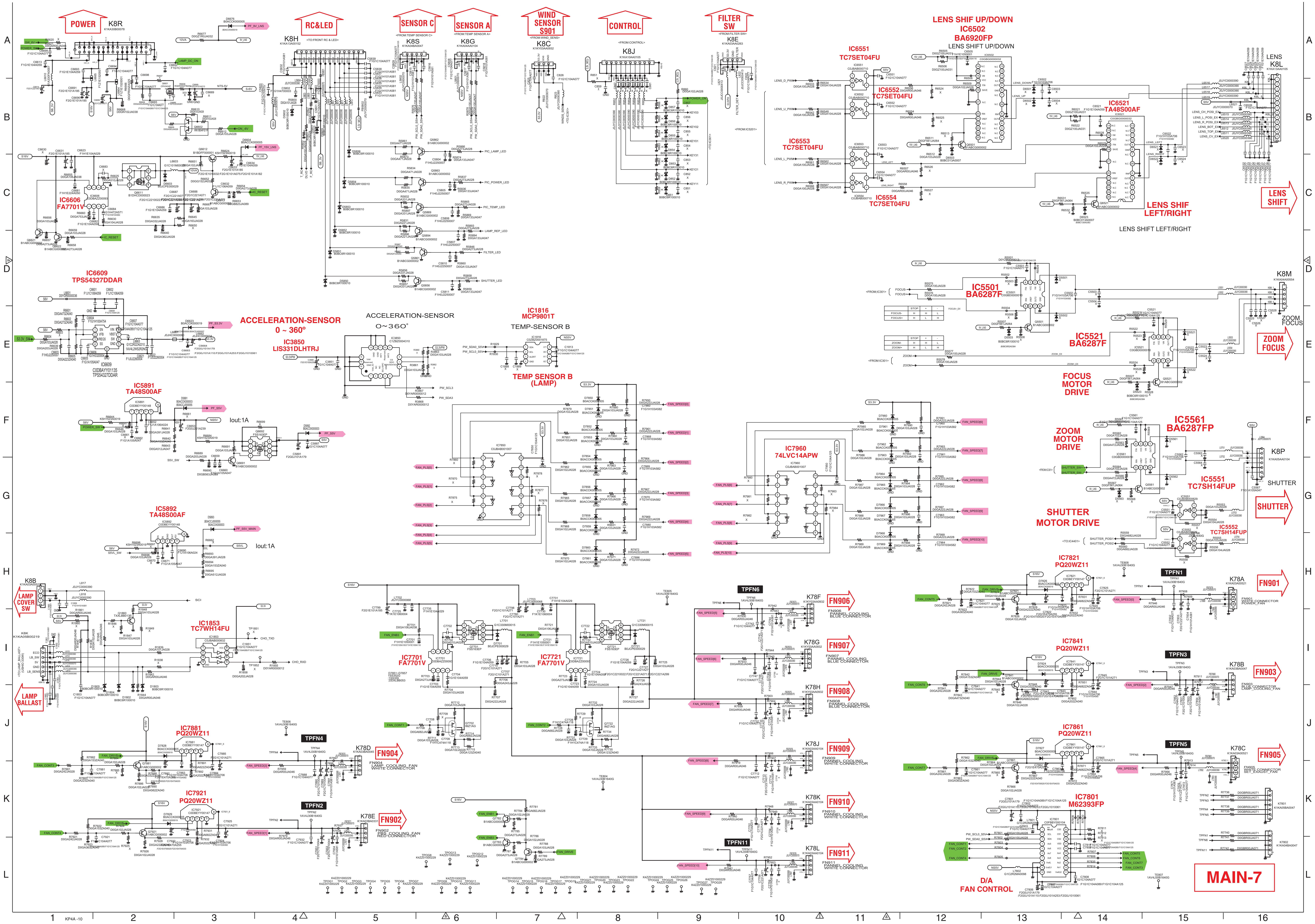
B-LCD PANEL

MAIN-6

KP4A-9

SCH_KP4A

DIA-11


POWER
K8R
RC&LED
K8H
SENSOR C
K8S
SENSOR A
K8G
WIND SENSOR S901
K8C
CONTROL
K8J
FILTER SW
K8E
LENS SHIF UP/DOWN
IC6502
BA6920FP
LENS SHIFT UP/DOWN
IC6551
TC7SET04FU
IC6552
TC7SET04FU
IC6553
TC7SET04FU
IC6554
TC7SET04FU
IC6521
TA48S00AF
LENS SHIF LEFT/RIGHT
LENS SHIFT LEFT/RIGHT
LENS
K8L
LENS SHIFT
IC6606
FA7701V
IC6609
TPS54327DDAR
ACCELERATION-SENSOR
0 ~ 360º
IC3850
LIS331DLHTRJ
IC1816
MCP9801T
TEMP-SENSOR B
TEMP SENSOR B (LAMP)
IC5501
BA6287F
IC5521
BA6287F
FOCUS MOTOR DRIVE
K8M
ZOOM FOCUS
IC5891
TA48S00AF
Iout:1A
IC5892
TA48S00AF
IC7960
74LVC14APW
IC5561
BA6287FP
ZOOM MOTOR DRIVE
IC5551
TC7SH14FUP
IC5552
TC7SH14FUP
SHUTTER MOTOR DRIVE
K8P
SHUTTER
K8B
LAMP COVER SW
LAMP BALLAST
IC1853
TC7WH14FU
IC7701
FA7701V
IC7721
FA7701V
IC7821
PQ20WZ11
IC7841
PQ20WZ11
IC7861
PQ20WZ11
IC7881
PQ20WZ11
IC7921
PQ20WZ11
IC7801
M62393FP
D/A FAN CONTROL
TPFN1
TPFN2
TPFN3
TPFN4
TPFN5
TPFN6
TPFN11
FN901
FN902
FN903
FN904
FN905
FN906
FN907
FN908
FN909
FN910
FN911
MAIN-7

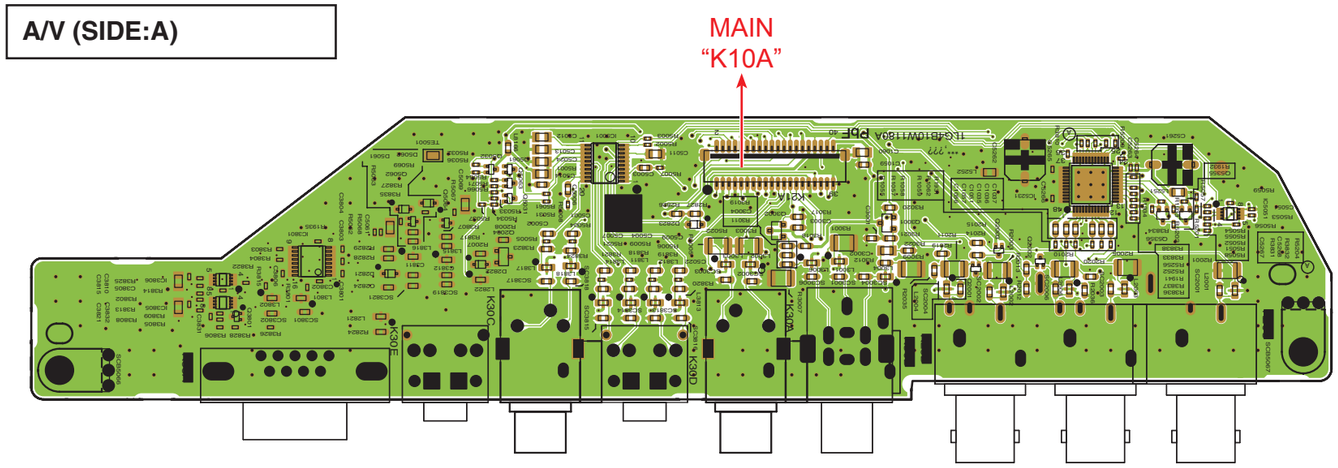
Printed Wiring Board Diagrams

! CAUTION

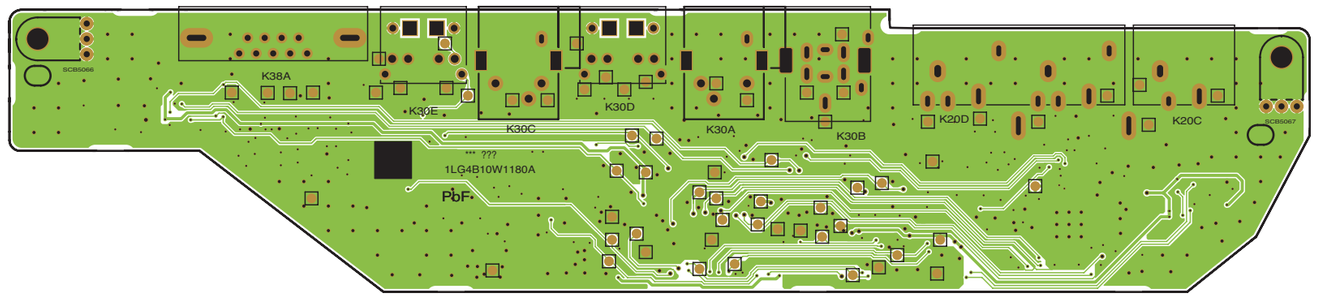
This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing

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

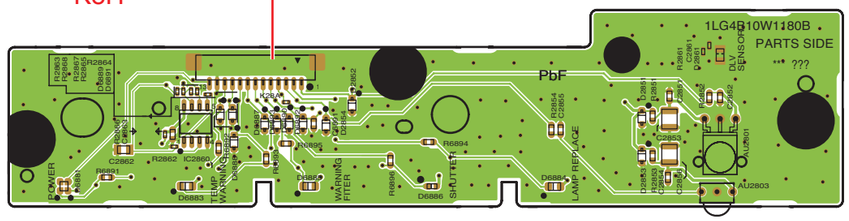
A/V (SIDE:A)



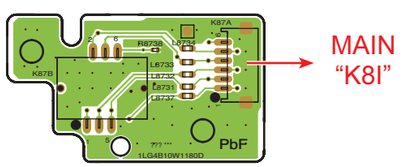
A/V (SIDE:B)



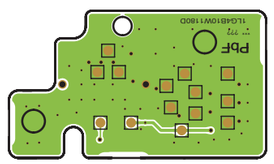
RC & LED (SIDE:A)



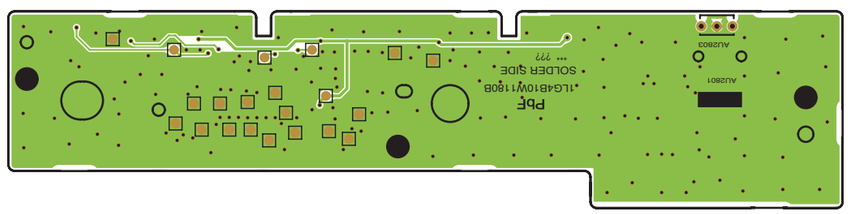
ID CONNECT (SIDE:A)



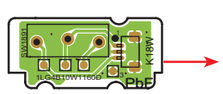
ID CONNECT (SIDE:A)



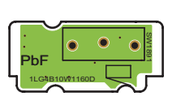
RC & LED (SIDE:B)



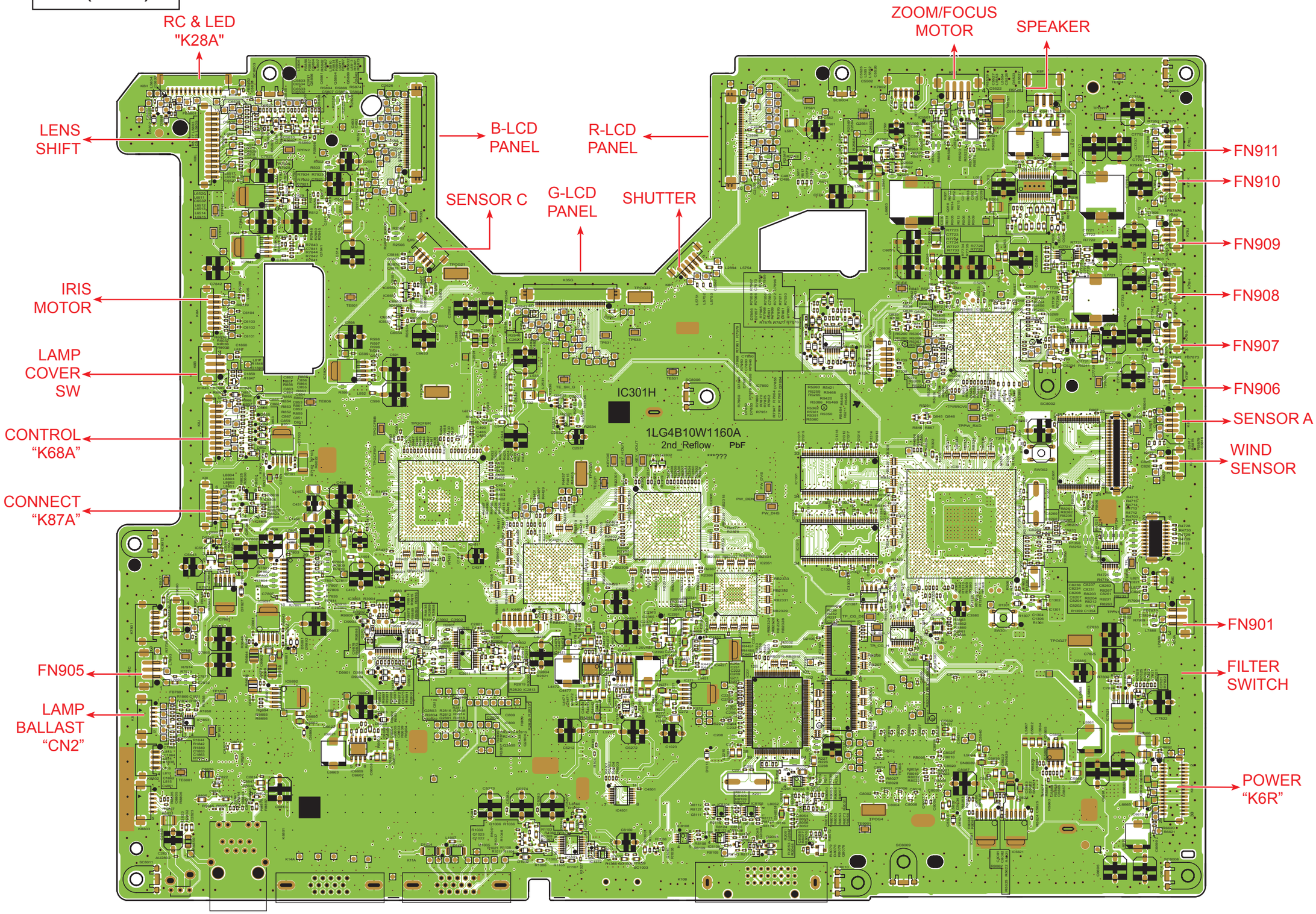
FILTER SW (SIDE:A)



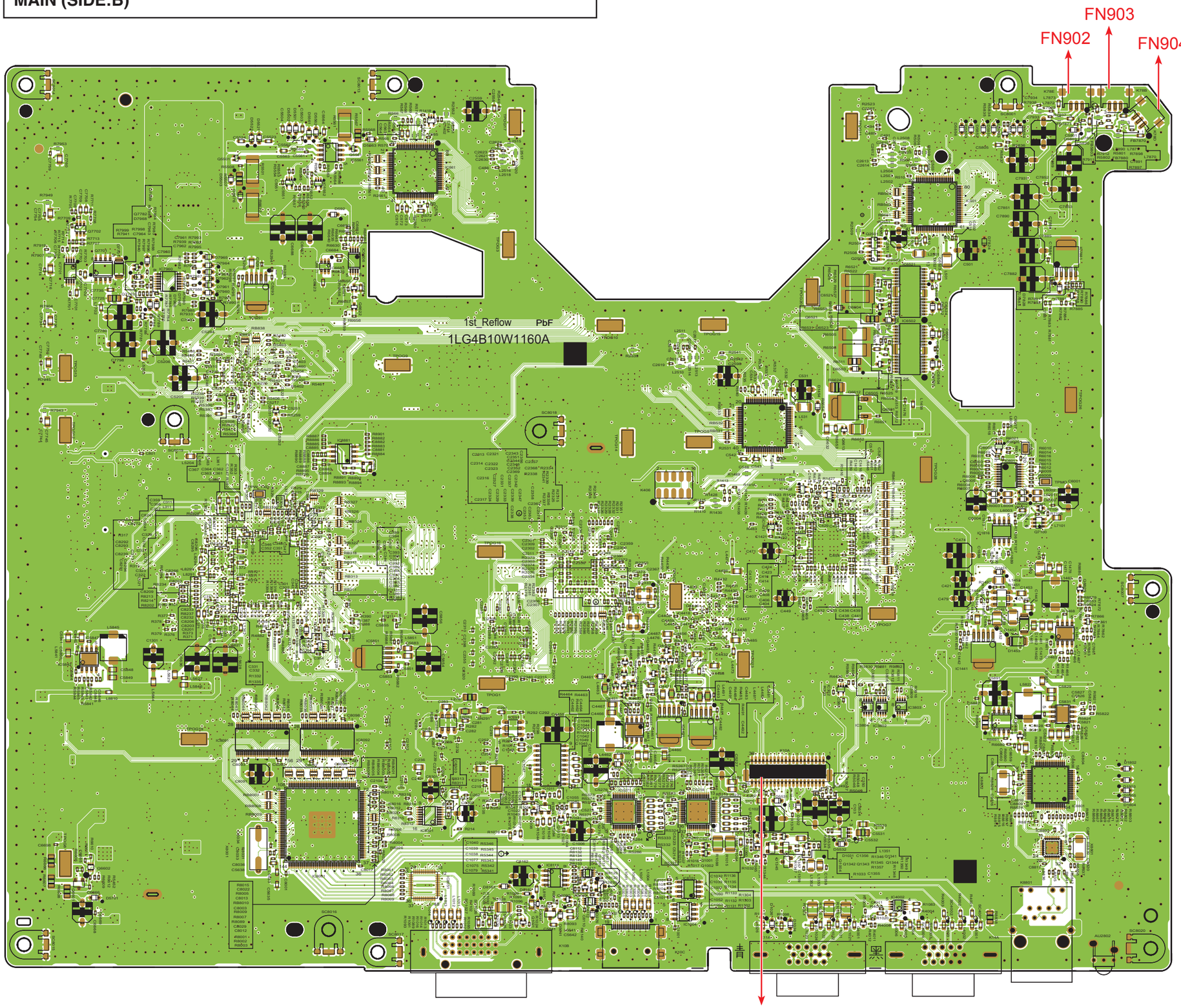
FILTER SW (SIDE:B)



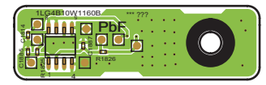
MAIN (SIDE:A)


RC & LED
"K28A"
ZOOM/FOCUS
MOTOR
SPEAKER
LENS
SHIFT
B-LCD
PANEL
R-LCD
PANEL
FN911
FN910
SENSOR C
G-LCD
PANEL
SHUTTER
FN909
IRIS
MOTOR
FN908
LAMP
COVER
SW
FN907
IC301H
FN906
1LG4B10W1160A
2nd_Reflow PbF
***???
SENSOR A
CONTROL
"K68A"
WIND
SENSOR
ID CONNECT
"K87A"
FN901
FN905
FILTER
SWITCH
LAMP
BALLAST
"CN2"
POWER
"K6R"

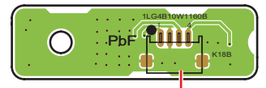
MAIN (SIDE:B)



SENSOR C (SIDE:A)

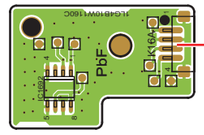


SENSOR C (SIDE:B)



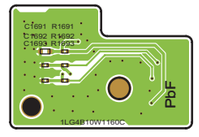
MAIN
“K8S”

SENSOR A (SIDE:A)

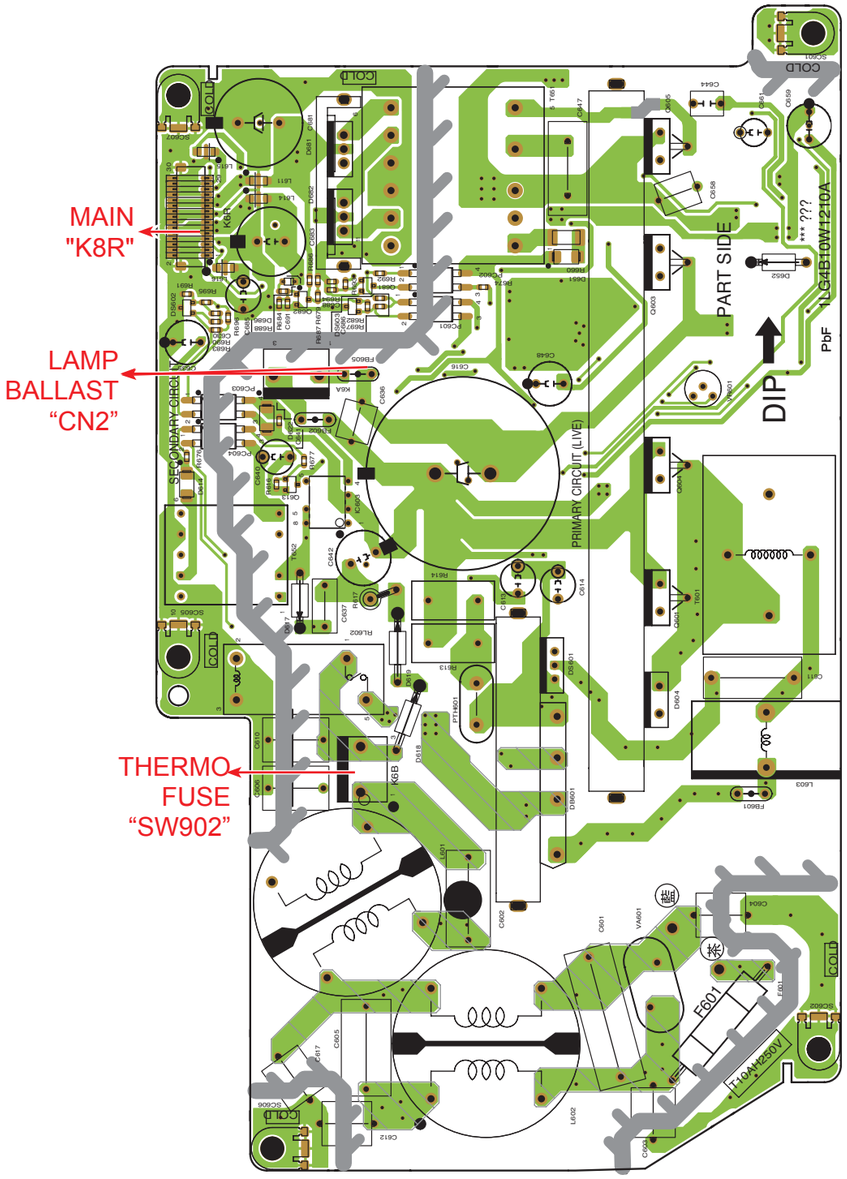


MAIN
“K8G”

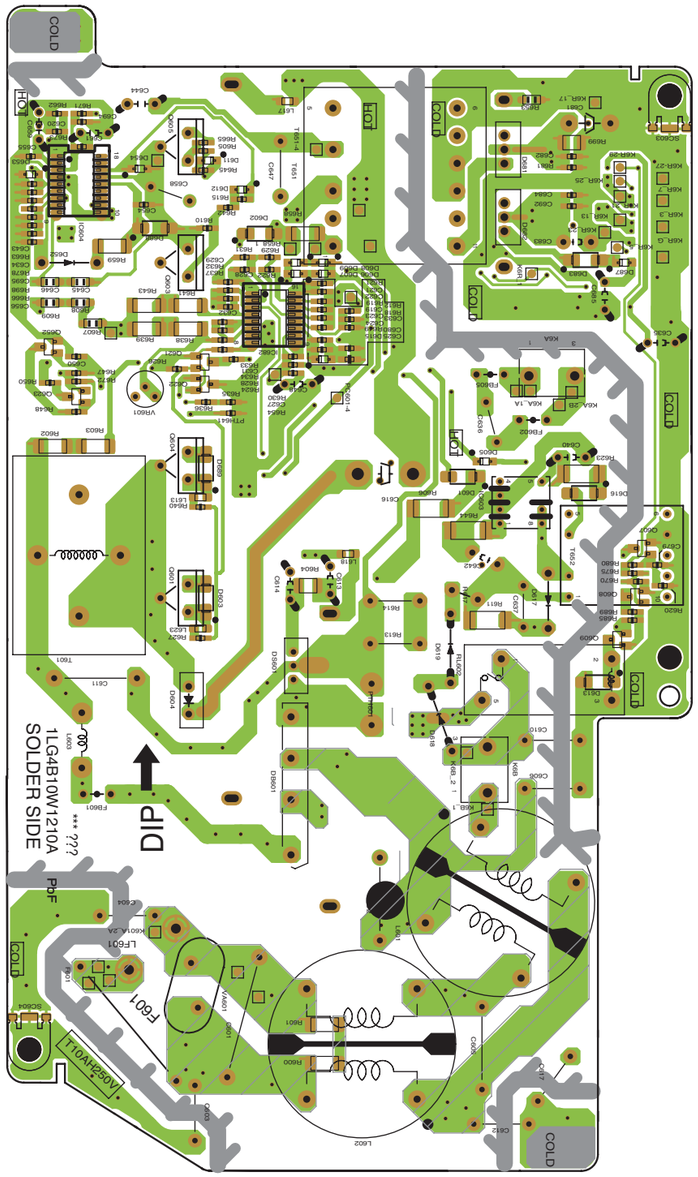
SENSOR A (SIDE:B)



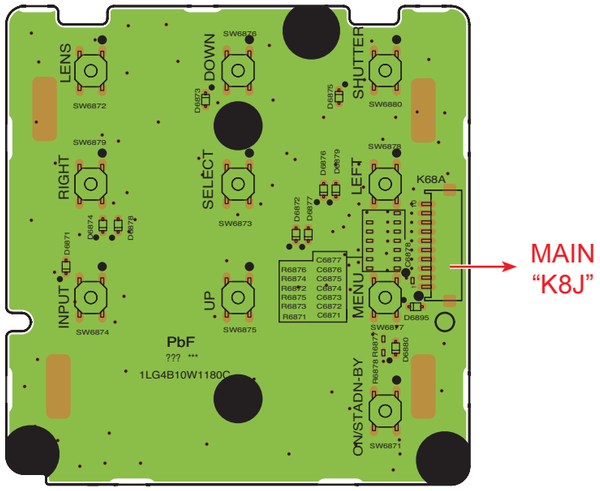
POWER (SIDE:A)



POWER (SIDE:B)



CONTROL (SIDE:A)



CONTROL (SIDE:B)