

Service Manual

LCD Projector

Model No. **PT-AE8000U**
PT-AT6000E
PT-AE8000EA
PT-AE8000EH
PT-AE8000EZ



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 does 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

Lithium Battery

Risk of explosion if battery is replaced by an incorrect type,
Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instructions.

Precaution

If using of this projector at high altitudes (above 1,400m), set HIGHT ALTITUDE MODE to "ON".
(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 cautious 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 soldering to double layered P.C.Boards, check the component side for excess 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.



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 BROADCAST & TELEVISION SYSTEMS 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 does 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 users authority to operate.

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1. 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.

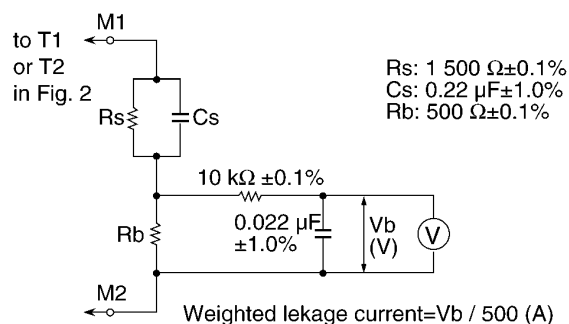


Fig. 1

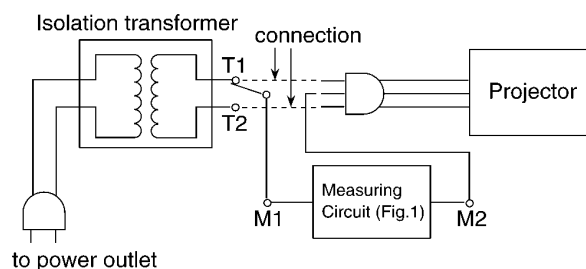


Fig. 2

	Performance
Voltmeter (rms reading)	Accuracy: $\leq 2\%$
	Input resistance: $\geq 1 \text{ M}\Omega$
	Input capacitance: $\leq 200 \text{ pF}$
	Frequency range: 15 Hz to 1 MHz

Table. 1

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.

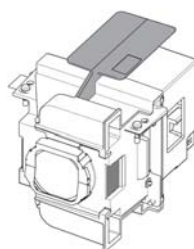


Fig. 3

2. Specifications

Power supply		AC 100-240 V 50 Hz/60 Hz
Power consumption		Less than 310 W During standby (when fan is stopped): 0.08 W
Amps		3.8 A - 1.5 A
LCD panel	Panel size (diagonal)	18.7 mm (0.74")
	Aspect ratio	16 : 9
	Display method	3 transparent LCD panels (RGB)
	Drive method	Active matrix method
	Pixels	2 073 600 (1 920 x 1 080) x 3 panels
Lens		Motorized zoom (2x)/Motorized focus F 1.9 - 3.2, f 22.4 mm - 44.8 mm
Lamp		UHM lamp (220 W)
Luminosity ^{*1}		2 400 lm
Operating environment		Temperature 0 °C - 40 °C (32 °F - 104 °F) When [HIGH ALTITUDE MODE] is set to ON : 0 - 35 °C (32 - 95 °F)
		Humidity 20% - 80% (no condensation)
Scanning frequency ^{*2} (for RGB signal)	Horizontal scanning frequency	15 kHz - 74 kHz
	Vertical scanning frequency	24 Hz - 85 Hz
	Dot clock frequency	Less than 154 MHz
COMPONENT (YP_BP_R) signals		525i (480i), 625i (576i), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1 125 (1 080)/60i, 1 125 (1 080)/50i, 1 125 (1 080)/60p, 1 125 (1 080)/50p, 1 125 (1 080)/24p
Color system		7 (NTSC/NTSC 4.43/PAL/PAL-M/PAL-N/PAL60/SECAM)
Projection size		When displaying 3D images 1.02 m - 5.08 m (40" - 200") When displaying 2D images 1.02 m - 7.62 m (40" - 300")
Projection distance		When displaying 3D images 1.2 m - 12.0 m (3'11" - 39'4") (16:9 size) When displaying 2D images 1.2 m - 18.1 m (3'11" - 59'5") (16:9 size)
Screen aspect ratio		16 : 9
Installation		FRONT/DESK, FRONT/CEILING, REAR/DESK, REAR/CEILING (Menu selection method)

*1 : Measurement, measuring conditions and method of notation all comply with ISO21118 international standards.

*2 : For details of video signals that can be projected using this projector, refer to "List of compatible signals" of Operating Instructions.

Terminals	S-VIDEO IN	1 set, Mini DIN 4p Y: 1.0 V [p-p], C: 0.286 V [p-p], 75 Ω
	VIDEO IN	1 set, RCA pin jack 1.0 V [p-p], 75 Ω
	COMPUTER IN	1 set, D-sub HD 15-pin (female) (RGB signal) R.G.B. 0.7 V [p-p], 75 Ω G.SYNC 1.0 V [p-p], 75 Ω HD/SYNC*1 TTL high impedance, automatic positive/negative polarity compatible VD*1 TTL high impedance, automatic positive/negative polarity compatible (Y, P _B /C _B , P _R /C _R signal) Y: 1.0 V [p-p] (including sync), 75 Ω P _B /C _B , P _R /C _R 0.7 V [p-p], 75 Ω
	COMPONENT IN	1 set, RCA pin jack x 3 Y: 1.0 V [p-p] (including sync), 75 Ω P _B /C _B , P _R /C _R 0.7 V [p-p], 75 Ω
	HDMI IN	3 sets, 19-pin HDMI connector (HDCP / Deep color / HDAVI Control Ver. 5 compliant)
Cabinet	SERIAL	1 set, D-sub 9-pin RS-232C compatible
	TRIGGER / 3D SHUTTER OUT	2 sets, monaural mini jack DC 12 V, max.100 mA (Selectable for input and output by menu operation.)
Dimensions		Moulded plastic (PC+ABS)
Weight		Width 470 mm (18 1/2")
		Height 151 mm (5 15/16")
		Depth 364 mm (14 11/32")
Certifications		Approx. 8.7 kg (19.18 lbs.)*2
Remote control		UL60950-1, 2nd Ed. , C-UL CSA C22.2 No 60950-1, 2nd Ed. Part 15 of the FCC Rules
Power supply	Power supply	DC 3 V (AA/R6/LR6 battery x 2)
	Operating range	Approx. 7 m (23') (when operated directly in front of signal receptor)
	Weight	125 g (4.4 ozs.) (including batteries)
	Dimensions	Width 48 mm (1 7/8")
		Length 138 mm (5 7/16")
		Height 28.3 mm (1 1/8") (not including surface projection parts)

*1 : HD/SYNC, and VD terminals do not accept tri-level sync signals.

*2 : Average value. Weight varies for each product..

SECTION 1

< Service Information >

Model No. **PT-AE8000U**

PT-AT6000E

PT-AE8000EA / AE8000EH / AE8000EZ

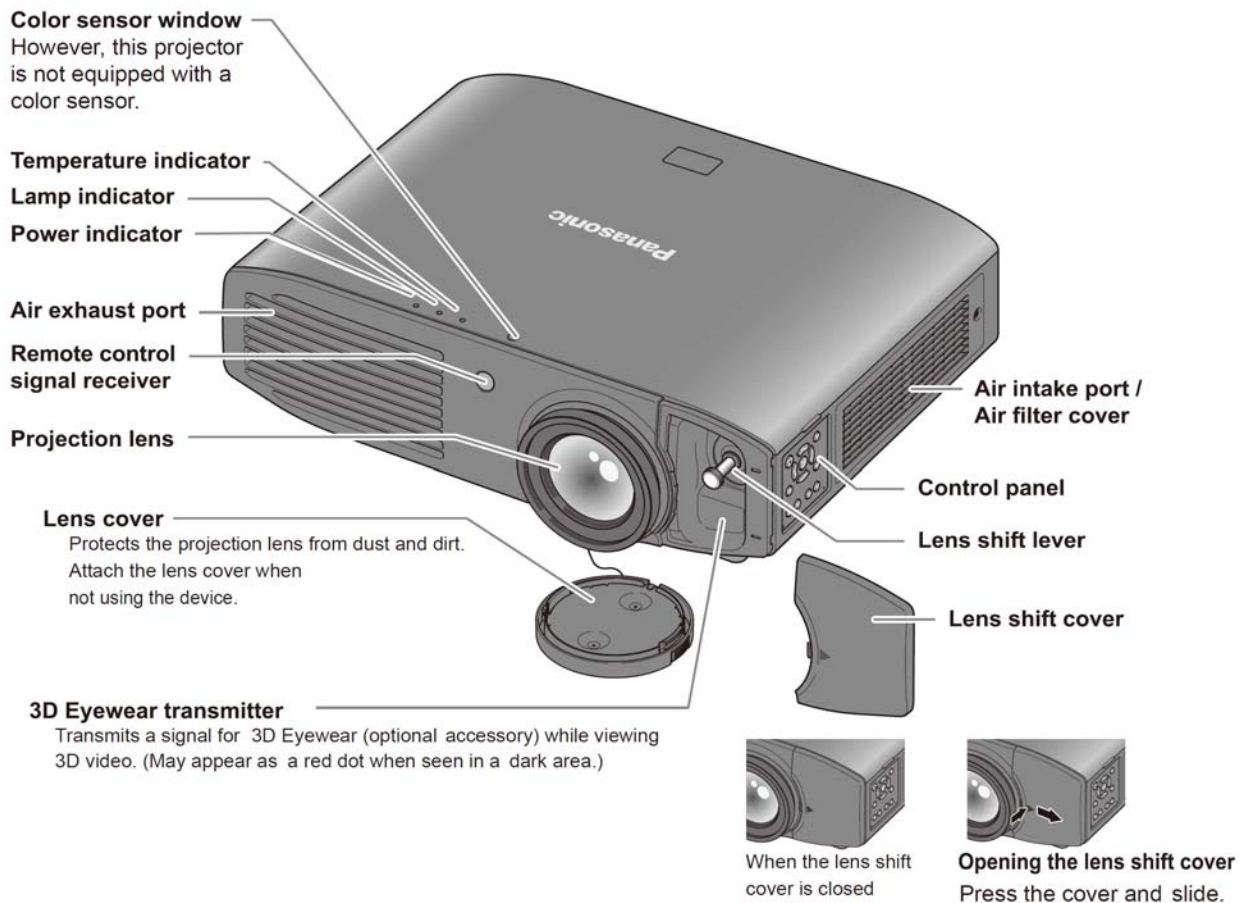
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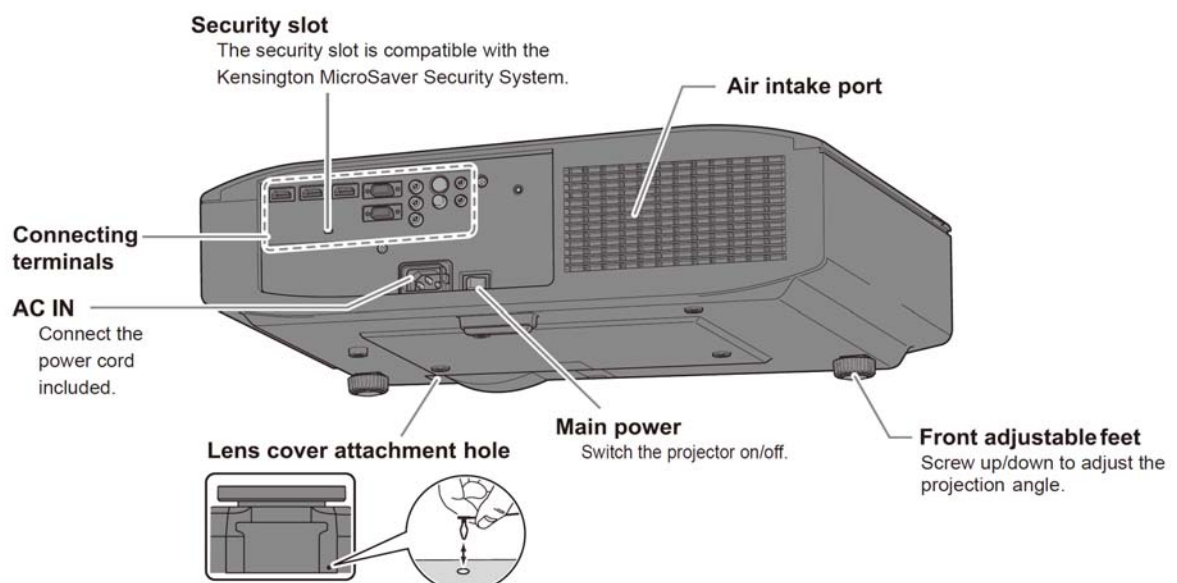
1. Name and function

1.1. Projector body

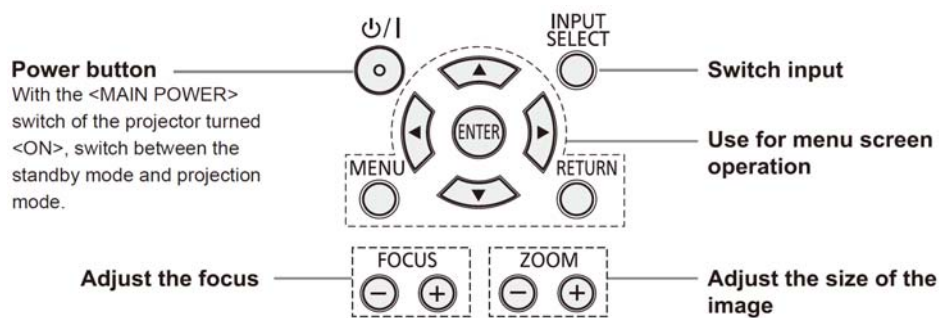
■ Top and front view



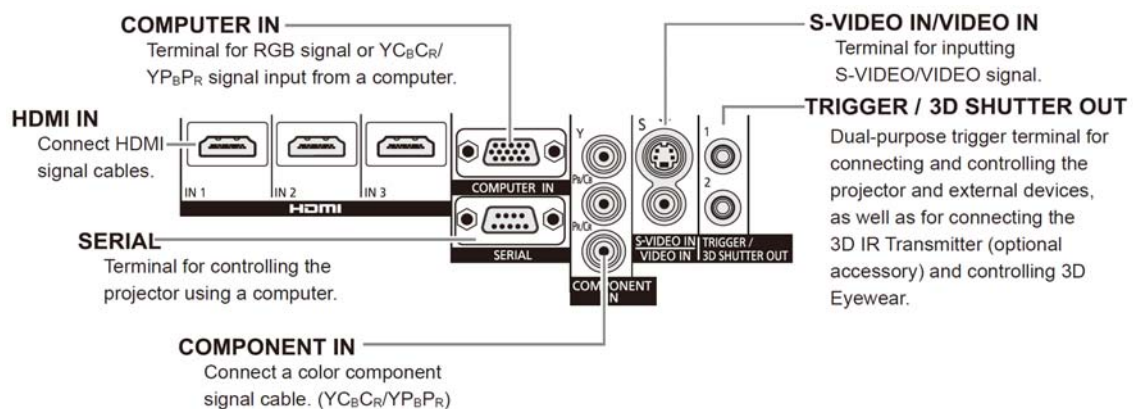
■ Back and bottom view



1.2. Control Panel



1.3. Rear terminals



1.4. Remote control

■ Top

Remote control signal transmitter
Send remote control signal.
Point at the remote control receiver part on the projector when using.



■ Front

With the <MAIN POWER> switch of the projector turned <ON>, switch between the standby mode and projection mode.

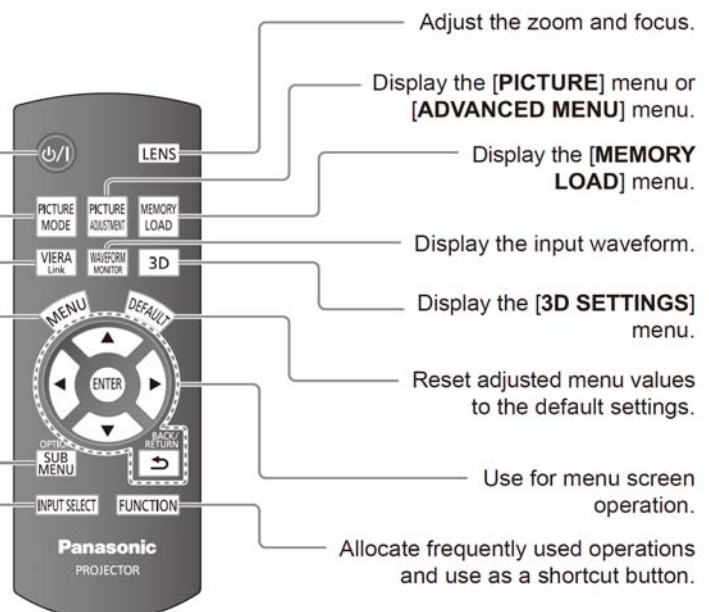
Cycle through the [PICTURE MODE].

Display the [VIERA LINK] menu.

Display the menu screen.

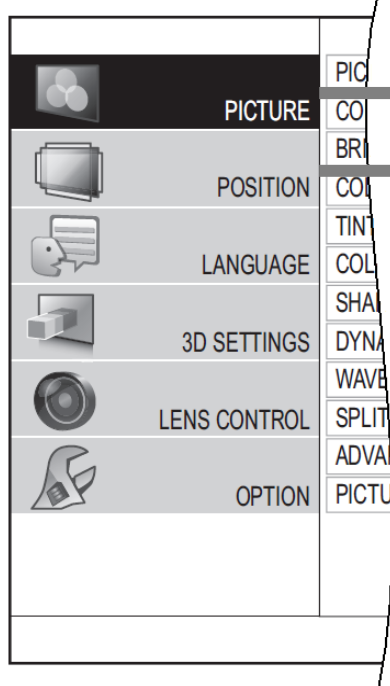
Display menus of external devices when using VIERA Link.
Change the operation mode during gamma adjustment.
Change the detection level of parallax when the parallax adjustment monitor is displayed (when [Mode3] is set).

Switch the input signals.



2. OSD Menu Navigation

■ MENU MENU (1/2)



● S-VIDEO IN/VIDEO IN

Submenu items	Default setting
[H-POSITION]	[0]
[V-POSITION]	[0]
[ASPECT]	[AUTO]
[WSS] *1	[ON]
[OVER SCAN]	[+7]
[KEystone]	[0]

*1: PAL signal input only

● COMPONENT IN/COMPUTER IN

Submenu items	Default setting
[H-POSITION]	[0]
[V-POSITION]	[0]
[DOT CLOCK] *1	[0]
[CLOCK PHASE] *2	[0]
[ASPECT]	[16:9]
[WSS] *3	[ON]
[OVER SCAN] *4	[0]
[KEystone]	[0]
[AUTO SETUP] *5	—

*1: COMPUTER IN only (exc. 480i, 576i, 480p, 576p)

*2: Exc. 480i/576i

*3: COMPONENT IN (576i, 576p) only

*4: COMPONENT IN and COMPUTER signal (movie based signals) input only

*5: COMPUTER IN (RGB) signals only (exc. movie based signals)

● S-VIDEO IN/VIDEO IN/COMPONENT (YCbCr/YPbPr) signal input/HDMI

Submenu items	Default setting
[PICTURE MODE]	[NORMAL]
[CONTRAST]	[0]
[BRIGHTNESS]	[0]
[COLOUR]	[0]
[TINT]	[0]
[COLOUR TEMPERATURE]	[0]
[SHARPNESS]	[SIMPLE]
[DYNAMIC IRIS]	[ON]
[WAVEFORM MONITOR]	—
[SPLIT ADJUST]	—
[ADVANCED MENU]	—
[PICTURE MEMORY]	—
[SIGNAL MODE] *1	—

*1: COMPONENT IN/HDMI IN only

● COMPUTER (RGB) signal input

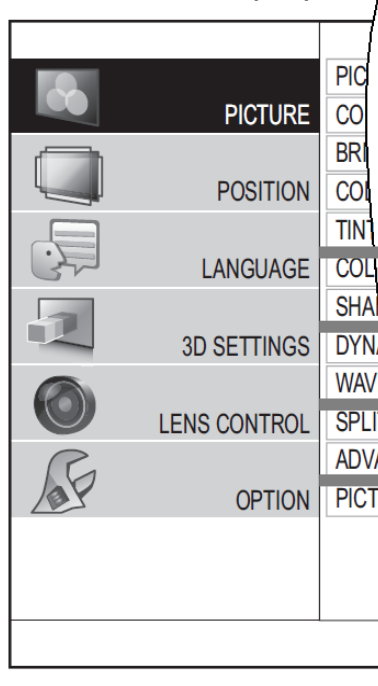
Submenu items	Default setting
[PICTURE MODE]	[NORMAL]
[CONTRAST]	[0]
[BRIGHTNESS]	[0]
[COLOUR TEMPERATURE]	[0]
[SHARPNESS]	[SIMPLE]
[DYNAMIC IRIS]	[ON]
[WAVEFORM MONITOR]	—
[SPLIT ADJUST]	—
[ADVANCED MENU]	—
[PICTURE MEMORY]	—
[SIGNAL MODE]	—

● HDMI IN

Submenu items	Default setting
[H-POSITION]	[0]
[V-POSITION]	[0]
[ASPECT]	[16:9]
[OVER SCAN]	[0]
[KEystone]	[0]

Note : The default settings may be different depending on the picture menu

■ MENU MENU (2/2)



Language
[DEUTSCH]
[FRANÇAIS]
[ESPAÑOL]
[ITALIANO]
[PORTUGUÊS]
[SVENSKA]
[NORSK]
[DANSK]
[POLSKI]
[ČEŠTINA]
[MAGYAR]
[РУССКИЙ]
[ไทย]
[한국어]
[ENGLISH]
[中文]
[日本語]

Submenu items	Default setting
[ON-SCREEN DISPLAY]	—
[BACK COLOUR]	[BLUE]
[STARTUP LOGO]	[ON]
[AUTO SEARCH]	[ON]
[HDMI SIGNAL LEVEL] *1	[NORMAL]
[FRAME RESPONSE]	[NORMAL]
[PROJECTION METHOD]	[FRONT/DESK]
[TRIGGER 1 SETTING]	[OFF]
[TRIGGER 2 SETTING]	[OFF]
[SLEEP]	[OFF]
[HIGH ALTITUDE MODE]	[OFF]
[LAMP POWER]	[NORMAL]
[FUNCTION BUTTON]	—
[VIERA LINK SETTINGS]	—
[OTHER FUNCTIONS]	—
[TEST PATTERN]	—
[LAMP RUNTIME]	—
[INITIALIZE ALL]	—

*1: HDMI IN only

Submenu items	Default setting
[SCREEN SIZE]	[203 cm (80 inches)]
[3D INPUT FORMAT]	[AUTO]
[LEFT/RIGHT SWAP]	[NORMAL]
[3D PICTURE BALANCE]	—
[2D TO 3D]	[OFF]
[3D EYEWEAR BRIGHTNESS]	[NORMAL]
[3D IR TRANSMITTER]	[STRONG]
[3D VIEWING MONITOR]	[MODE1]
[3D MOTION REMASTER]	[ON]
[3D SAFETY PRECAUTIONS]	—

Submenu items	Default setting
[ZOOM/FOCUS]	—
[LENS MEMORY LOAD]	—
[LENS MEMORY SAVE]	—
[LENS MEMORY EDIT]	—
[AUTO SWITCHING]	—
[H-AREA POSITION]	[0]
[V-AREA POSITION]	[0]
[LEFT MASKING AREA]	[0]
[RIGHT MASKING AREA]	[0]
[UPPER MASKING AREA]	[0]
[LOWER MASKING AREA]	[0]
[PROCESSING MESSAGE]	[ON]

Note : The default settings may be different depending on the picture menu

3. Extend mode (EXT OPTION menu)

This projector has extend mode "EXT OPTION" menu in addition to standard on-screen menus.

· This mode has Self-Check function, Test Pattern and other functions for Service.

3. 1. Procedure to open / close "EXT OPTION" menu.

1. When the projector is power ON, press "POWER" button on the main unit or remote control unit to display "POWER OFF" confirmation screen.
2. Press the "▶" button to select "CANCEL" in the "POWER OFF" confirmation screen.
3. On the main unit or remote control unit, press the buttons in order of "▲", "▼", "▲", "▼" and "ENTER".
4. When "MENU" button is pressed at the "EXT OPTION" mode, Extend-mode is closed.

3. 2. EXT OPTION Menu and Functions

EXT OPTION	
1.	FAN FULL MODE OFF
2.	AUTO SETUP NORMAL
3.	SELF CHECK
4.	STATUS
5.	FLICKER ADJUST

1.FAN FULLMODE

- Setting the cooling fan motor rotation speed.

Switching ON "FAN FULLMODE", the rotation level of the fan becomes high-speed rotation (fixed). Moreover, when "FAN FULLMODE" is ON, changing "HIGH ALTITUDE MODE" in OPTION menu becomes impossible (setting FAN FULLMODE is given priority more than HIGH ALTITUDE MODE).

2.AUTO SETUP

- Setting AUTO SETUP mode.

- NORMAL: Dot clock is adjusted strictly.
- SPECIAL: Dot clock is adjusted roughly.

* Do not usually change initial setting (NORMAL).

3.SELF CHECK

- The content of self checking are displayed.

	SELF CHECK	S/N SD12345678	(13)
(1)	MM:1.00	SM:1.00	(14)
	F:1.00	IM:1.00	
(2)	XGA60	G-SAVED OK	
(3)	H 48.48KHZ	U-SAVED OK	(15)
	V 60.60HZ	C-SAVED OK	
(4)	TEMP OK		
(5)	INTK 22.7/157	INTK ---./---	(16)
	EXST 26.6/148	EXST ---./---	
(6)	FLTR 88.7/094	FLTR ---./---	
	FLTR SENSOR OFFSET	79	
(7)	INTK OK	EXST OK	(17)
	LAMP OK	PWR OK	
	IRIS OK		
(8)	IRIS OK	LENS MEM OK	(18)
(9)	LAMP OK	4000H OK	(19)
(10)	COVER OK		
(11)	TOTAL 11H	RESET 0	(20)
(12)	12H10 52	12H10	(21)
	0H00 0	0H00	
	0H00 0	0H00	

"OK" display becomes red characters when shutting down because abnormality happened time.

- (1) - Software Version (MM : Main microprocessor, F:FPGA)

* FPGA (Field Programmable Gate Array)

- (2) - Input signal Display
([NO-SYNC] is displayed when there is no input signal).
- (3) - Input Horizontal/Vertical signal frequency
(For the RGB/YPBPR Input only)
- (4) - The temperature abnormality check
("NG" is displayed for any abnormality)
- (5) - Temperature around the air intake port/exhaust port and Filter sensor (deg C/A/D conversion value)
- (6) - Filter sensor Difference Correction (A/D conversion) Value
- (7) - Rotation check of Intake fan / Lamp fan / Iris fan
(Displays "NG" when Fan is abnormal condition)
- (8) - Iris condition check (Abnormal condition = "NG")
- (9) - Lamp condition check (Abnormal condition = "NG")
- (10) - Lamp cover installation check (Abnormal condition="NG")
- (11) - Displays the projector cumulative usage time
- (12) - Cumulative usage time (actual time) and Number of LAMP ON times
"Current number : Last reset : Reset of last but one"
- (13)- Displays the serial number of the projector.

- (14)- Software Version (SM : Sub microprocessor, IM : IRIS control microcomputer)

- (15)- Gamma, Color Unevenness and Crosstalk correction data check (Whether data are stored in the flash ROM)

- (16)- Thermo sensor (Intake Air / Exhaust Air / Filter Air) measurement value when thermal shutdown
(deg C/A/D conversion value)

(17)- Rotation check of Exhaust fan and Power fan (Displays "NG" when Fan is abnormal condition)

* When detected abnormal temperature around the air intake port / air exhaust port / LCD block, TEMP indicator turned on. If arriving at the critical temperature, the power supply will shut down automatically (thermal shutdown) and the indicator will flash.

(18)- Lens memory operation abnormality check (Abnormal condition = "NG")

(19)- Judgment for Replacement Time of Lamp (Cumulative Usage more than 4000H is "NG")

* Warning of the lamp cumulative usage time and shutdown use the conversion time for LAMP POWER "NOMAL".

(20)- The number of times that carried out reset of "LAMP RUNTIME"

(21)- Cumulative usage time (conversion for LAMP POWER "NOMAL" time) and Number of LAMP ON times
"Current number : Last reset : Reset of last but one"

4.STATUS

•Display version of each software and each data.

STATUS	
MODEL TYPE	PT-AE8000U
SERIAL NUMBER	SA*****
DYNAMIC GAMMA	OK
UNIFORMITY	OK
----- SOFT VERSION -----	
MAIN	1.00
SUB	1.00
IRIS	1.02
FPGA	1.00
FRC ID MAJOR	04000000
FRC ID MINOR	07000000
FRC CONFIG MAJOR	01000000
FRC CONFIG MINOR	00000000
----- DATA VERSION -----	
BITMAP	1.00
ENG FONT	1.00
RUS FONT	1.00
THA FONT	1.00
KOR FONT	1.00
CHI FONT	1.00
JPN FONT	1.00
ET7140 GAMMA	1.00
COLOR MANAGEMENT	1.01
x.v.Color	1.00
OD	1.03
DETAIL CLARITY	1.00

5.FLICKER ADJUST

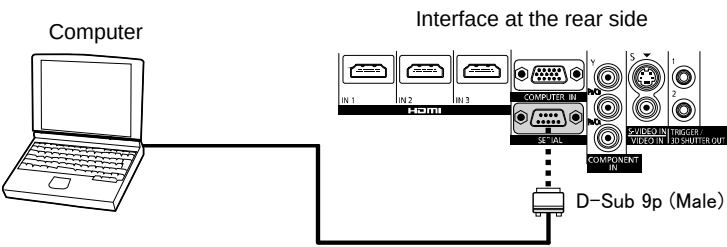
•To enter the flicker adjustment mode.

Note: If replacing the optical parts (Optical block) or A-P.C.Board, adjust to flicker is minimum according to the "SECTION 3 Flicker adjustment".

4. External Controls of SERIAL Connection

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.

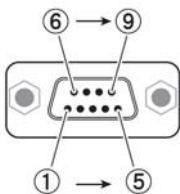
4. 1. Connecting exsample



Note
Interface cable is not a standard accessory. Please purchase locally.

4. 2. Pin assignment and signal

D-sub 9pin(Female)
Outside view



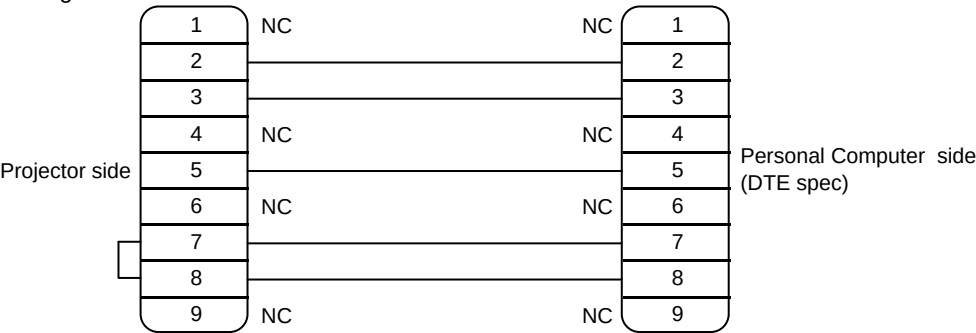
Pin	Name	Signal
①	—	NC
②	TXD	Transmitting data
③	RXD	Receiving data
④	—	NC
⑤	GND	Ground
⑥	—	NC
⑦	CTS	Connected internally
⑧	RTS	
⑨	—	NC

4. 3. Communication condition

Signal level	RS-232C standard
Synchronization	Asynchronous
Baud rate	9 600 bps
Parity	None
Character length	8 bit
Stop bit	1 bit
X Parameter	None
S Parameter	None

4. 4. Specification of cable communication

In case of connecting to PC



4. 5. Basic format

Data streaming from the computer will start with STX, and proceed to command, parameter and end with ETX.

Parameters can be added as necessary.

STX	Command	:	Parameter	ETX
Start byte(02h)	3 bytes	1 byte	1byte - 4 bytes	End (03h)

- The projector can not receive any command for 10 seconds after the lamp is switched on. Wait 10 seconds before sending the command.
- If sending multiple commands, check that a response has been received from the projector for one command before sending the next command.
- When a command which does not require parameters to be sent, the colon (:) is not required.
- If an incorrect command is sent from the personal computer, the ER401 command will be sent from the projector to the personal computer.

4. 6. Control commands

Refer to Operating Instructions of PT-AE8000 / PT-AT6000.

Command	Control contents	Remarks
PON	POWER ON	In standby mode, all commands other than the PON command are ignored.
POF	POWER OFF	The PON command is ignored during lamp on control. If a PON command is received while the cooling fan is operating after the lamp has switched off, the lamp is not turned back on unless approximately 85 seconds have passed in order to protect the lamp.
IIS	SWITCH INPUT	Parameters CP1 = COMPONENT IN SVD = S-VIDEO IN VID = VIDEO IN HD1 = HDMI 1 IN HD2 = HDMI 2 IN HD3 = HDMI 3 IN RG1 = COMPUTER IN
OMN	MENU	Displays the main menu.
OEN	ENTER	Activates the selected items in the menu mode.
OBK	RETURN	Returns to the previous menu or escaping from the menu mode.
OCU OCD OCL OCR	Navigation buttons (▲▼◀▶)	OCU = ▲ cursor OCD = ▼ cursor OCL = ◀ cursor OCR = ▶ cursor
OLE	LENS	Displays the test patterns for adjusting [ZOOM/FOCUS]. ([RETURN] or [MENU] when finishing)
OST	DEFAULT	Resets to the factory default setting.
OFZ	FREEZE	Freezes the projected screen. 0 = OFF, 1 = ON
FC1	FUNCTION BUTTON	Activates the function allocated to the <FUNCTION> button of the remote control.
OSH	BLANK	Turns off the projection temporarily. Sends the command to switch between ON and OFF. Do not rapidly switch between ON/OFF. While the BLANK function is ON, it is switched OFF when any command is received.
OVM	PICTURE	Activates the [PICTURE] menu. Send the command to switch menu items.
OMM	MEMORY LOAD	Displays the [MEMORY LOAD] menu.
OWM	WAVEFORM	Parameter 0 = OFF 1 = FULL SCAN(Y) 2 = FULL SCAN(R) 3 = FULL SCAN(G) 4 = FULL SCAN(B) 5 = SINGLE LINE SCAN(Y) 6 = SINGLE LINE SCAN(R) 7 = SINGLE LINE SCAN(G) 8 = SINGLE LINE SCAN(B)
VS1	ASPECT	Switches the aspect ratio. Aspect ratio is switched each time this command is sent.
VPM	PICTURE MODE	Switches the [PICTURE MODE]. Parameter NOR = NORMAL DYN = DYNAMIC 709 = REC709 DCN = D-CINEMA CN1 = CINEMA1 CN2 = CINEMA2 GM1 = GAME
DPA	PICTURE ADJUST	Displays the individual adjustment screen of the [PICTURE] menu operated immediately before this operation.
DCM	COLOR MANAGEMENT	Displays the [COLOUR MANAGEMENT] menu.
OVL	VIERA LINK	Displays the [VIERA LINK MENU] menu.
OSM	SUB MENU	Displays the SUB MENU of the connected equipment, when [VIERA LINK SETTING] - [VIERA LINK] is [ON], and the "VIERA Link" compatible device and CEC-compatible equipment of other manufacturers is connected. For details on the CEC-compatible equipment of other manufacturers, see operating instructions.

Command	Control contents	Remarks	
KST	KEYSTONE	Displays the individual adjustment screen of [KEYSTONE].	
DAM	ADVANCED MENU	Displays the individual adjustment screen of the [ADVANCED] menu operated immediately before this operation.	
OAS	AUTO SETUP	Operates AUTO SETUP. COMPUTER IN (RGB) signals only (exc. movie based signals)	
OOT	SLEEP	Sets the duration of time after which the power is to be turned off automatically. 0 = OFF 1 = 60MIN. 2 = 90MIN. 3 = 120MIN. 4 = 150MIN. 5 = 180MIN. 6 = 210MIN. 7 = 240MIN.	
O3D	3D SETTINGS	Displays the [3D SETTINGS] menu screen.	
VXX	LENS MEMORY LOAD	LMLI0 = +00000 = LENS MEMORY 1 LMLI0 = +00002 = LENS MEMORY 3 LMLI0 = +00004 = LENS MEMORY 5	LMLI0 = +00001 = LENS MEMORY 2 LMLI0 = +00003 = LENS MEMORY 4 LMLI0 = +00005 = LENS MEMORY 6
	GAMMA ADJUSTMENT	Sets Y ADJUST. (OUTPUT) AGOS0 = p1p2d1d2d3d4 p1p2 = POINT (01 - 15)	d1d2d3d4 = OUTPUT (0000 - 0255)
		Sets R ADJUST. (OUTPUT) AGOS1 = p1p2d1d2d3d4 p1p2 = POINT (01 - 15)	d1d2d3d4 = OUTPUT (0000 - 0255)
		Sets G ADJUST. (OUTPUT) AGOS2 = p1p2d1d2d3d4 p1p2 = POINT (01 - 15)	d1d2d3d4 = OUTPUT (0000 - 0255)
		Sets B ADJUST. (OUTPUT) AGOS3 = p1p2d1d2d3d4 p1p2 = POINT (01 - 15)	d1d2d3d4 = OUTPUT (0000 - 0255)
		Sets GAMMAADJUSTMENT. (INPUT) AGIS0 = p1p2d1d2d3 p1p2 = POINT (01 - 15)	d1d2d3 = INPUT (001 - 099)
	TRIGGER 1 (OUTPUT)	Switches TRIGGER 1 (OUTPUT) when RS-232C COMMAND LINK is set in the TRIGGER 1 SETTING menu. TROI0 = +00000 = LOW	TROI0 = +00001 = HIGH
	TRIGGER 2 (OUTPUT)	Switches TRIGGER 2 (OUTPUT) when RS-232C COMMAND LINK is set in the TRIGGER 2 SETTING menu. TROI1 = +00000 = LOW	TROI1 = +00001 = HIGH
	3D INPUT FORMAT	Switches the [3D INPUT FORMAT]. DIFI1=+00000 = AUTO DIFI1=+00003 = SIDE BY SIDE	DIFI1=+00001 = NATIVE DIFI1=+00004 = TOP AND BOTTOM

4. 7. Inquiry commands

Refer to Operating Instructions of PT-AE8000 / PT-AT6000.

Command	Control contents	Parameter	
QPW	Power status	000 = OFF	001 = ON
QIN	INPUT signal status	CP1 = COMPONENT IN SVD = S-VIDEO IN VID = VIDEO IN HD1 = HDMI 1 IN HD2 = HDMI 2 IN HD3 = HDMI 3 IN RG1 = COMPUTER IN	
QPM	PICTURE MODE status	NOR = NORMAL DYN = DYNAMIC 709 = REC709 DCN = D-CINEMA CN1 = CINEMA1 CN2 = CINEMA2 GM1 = GAME	
QSH	BLANK status	0 = OFF	1 = ON
QFZ	FREEZE status	0 = OFF	1 = ON
QOT	OFF TIMER status	0 = OFF 1 = 60MIN. 2 = 90MIN. 3 = 120MIN. 4 = 150MIN. 5 = 180MIN. 6 = 210MIN. 7 = 240MIN.	
QWM	WAVEFORM status	Parameter 0 = OFF 1 = FULL SCAN(Y) 2 = FULL SCAN(R) 3 = FULL SCAN(G) 4 = FULL SCAN(B) 5 = SINGLE LINE SCAN(Y) 6 = SINGLE LINE SCAN(R) 7 = SINGLE LINE SCAN(G) 8 = SINGLE LINE SCAN(B)	
QVX:AGOS0	GAMMA ADJUSTMENT status	AGOS0 = p1p2d1d2d3d4 p1p2 = POINT (01 - 15) d1d2d3d4 = OUTPUT (0000 - 0255)	
QVX:AGOS1		AGOS1 = p1p2d1d2d3d4 p1p2 = POINT (01 - 15) d1d2d3d4 = OUTPUT (0000 - 0255)	
QVX:AGOS2		AGOS2 = p1p2d1d2d3d4 p1p2 = POINT (01 - 15) d1d2d3d4 = OUTPUT (0000 - 0255)	
QVX:AGOS3		AGOS3 = p1p2d1d2d3d4 p1p2 = POINT (01 - 15) d1d2d3d4 = OUTPUT (0000 - 0255)	
QVX:AGIS0		AGIS0 = p1p2d1d2d3 p1p2 = POINT (01 - 15) d1d2d3 = INPUT (001 - 099)	
QVX:DIFI1	3D INPUT FORMAT status	DIFI1=+00000 = AUTO DIFI1=+00003 = SIDE BY SIDE	DIFI1=+00001 = NATIVE DIFI1=+00004 = TOP AND BOTTOM

5. Notification for service operation

5. 1. Before service operation

5. 1. 1. LCD panel

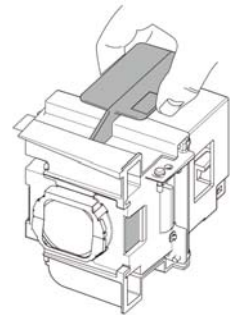
1. The display unit of this projector comprises three LCD panels. Although an LCD panel is a product of high precision technology, some of the pixels on the projected image may be missing or constantly lit. Please note that this is not a malfunction.
2. Displaying a still image for a longer time may result in an after-image on the LCD panels. If this happens, display the all white screen in the test pattern for an hour or more.

5. 1. 2. Lamp unit

* Lamp unit as an optional accessories, distribution through commercial channel.

Replacement lamp unit : ET-LAA410

* Do not use any other lamp unit than indicated above.



1. Be careful for handling the lamp because it is made of glass and might be exploded by hitting hard object or fall in down.
2. Philips driver is required for replacing the lamp.
3. When replacing the lamp, make sure to grasp the handle portion of the lamp unit.
4. The lamp might be exploded. Be careful for the case that the blown glasses are scattered around. The replacement operation should be done with the highest care. When the projector is set on the ceiling, make sure not to work just under the lamp unit or not to be closer to the lamp.
5. When throwing the lamp away, consult local municipalities about the way to do.

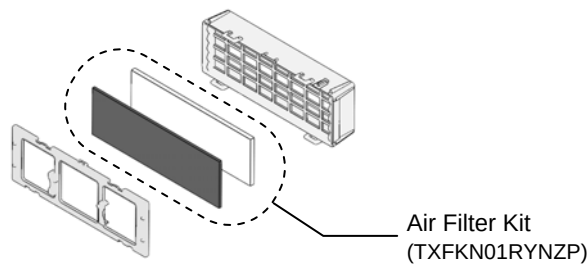
[Attention]

* Please read carefully the page 'CAUTIONS FOR THE SAFETY', 'BEFORE USING', 'CHECK AND REPLACEMENT OF PARTS' on the instruction book to know about lamp unit, how to use lamp and how to replace the lamp unit.

5. 1. 3. Air filter unit

* Clean the Air filter after every 100 hours of usage.

* A replacement air filter kit (TXFKN01RYNZP) is provided with a replacement lamp unit, ET-LAA410.



1. If the air filter is excessively dirty, the internal temperature of the projector increases and may cause malfunction.
2. Do not use the projector without attaching the air filter.
3. The air filter should be replaced when cleaning is ineffective and when replacing the lamp unit.

5. 1. 4. Repair operation

1. When electrifying the projector for the check and adjustment with top case taken off, the strong light emits from the lighting cover and its around.

Wear the anti-ultraviolet rays glasses and shade.

2. While the fan is working, do not pull the plug out nor disconnect the breaker.

* When the monitor of power supply lamp turns red and the fan stops, disconnecting can be done.

3. Repair should be done with the power supply off.

* When replacing the print board, the internal electrical parts can be broken by the static electricity of clothes or human body. Be careful of static electricity and wear the anti-static electricity globes.

4. After finishing the repair, check whether it works properly or not.
5. Check the image with 10 steps or gray scales that can show the gradation and perform self-check.

5. 2. Service

5. 2. 1. Supporting Methods

The basic service policy is shown below.

Service method	Applied parts
Block replacement P.C.Board replacement	• Analyses block (* Specified components are replaced) • Optical Block (with projection lens) *Projection lens can not be separated from optical block. • K1/K2-P.C.Board (*Specified components are replaced) • P-P.C.Board • H-P.C.Board • B-P.C.Board • M1/M2/M3-P.C.Board
Individual parts supply. Individual parts replacement on	• Other electrical parts / Other mechanical parts

5. 2. 2. When change a A-P.C.Board

If replacing A-P.C.Board (assembly), read the ROM data from the old P.C.Board and write it in the new one according to the section 3. "Adjustment".

* Down load the adjustment software from our Projector service web site.

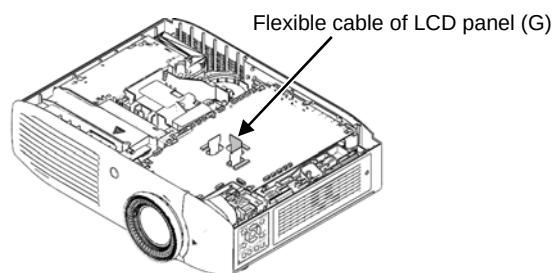
* At this time, if the readout from the old P.C.Board does not succeed, remove IC1022 and IC1023 from the old P.C.Board and install them on the new one.

After replacing A-P.C.Board (assembly), perform each adjustment in reference to SECTION 3 "Adjustments".

5. 2. 3. Identification for type A and type B of Optical block

Please confirm described No. on flexible cable of LCD panel (G).

- L3C07U-96G00 → Select "Type A" of optical block.
- L3C07U-95G00 → Select "Type B" of optical block.



5. 3. Replacement of consumable parts

[Attention] · When replacing the consumable parts, please make sure that the main power is OFF and power cable is disconnected.

5. 3. 1. Replacement timing for lamp unit

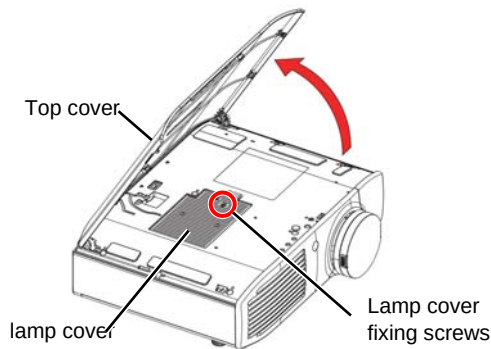
1. Confirm the lamp usage hours with "LAMP RUNTIME" in "Option menu" and replace it periodically.
2. The replacement guideline is every 4000 hours, but it may turn off before 4000 hours depending on lamp's individual characteristic, usage condition, environment and etc. Earlier replacement is recommended.
3. When the lamp is kept using after 4 000 hours without replacement, it automatically turns off after 10 minutes for avoiding failure.

Lamp time	On screen " REPLACE LAMP "	LAMP indicator
Over 3800 hours	The message is displayed for 30 seconds. If you press any button within the 30seconds, the message disappears.	Illuminates red, including when in standby mode.
Over 4000 hours	The message is displayed until you press any button.	

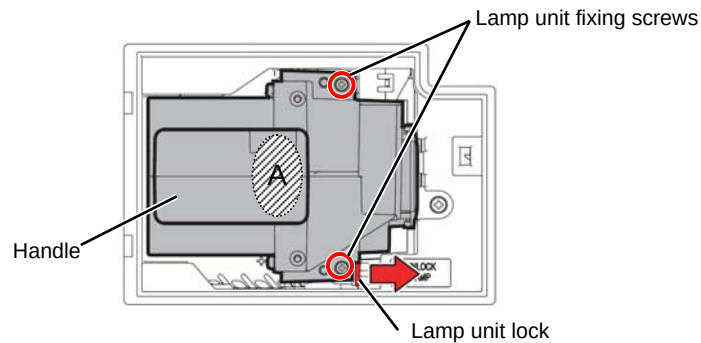
* 4000 hours of use is a rough guideline, but this is not a guarantee.

5. 3. 2. Replacement procedure for lamp unit

1. Confirm that the lamp unit is cooled down completely. (More than 1 hour has passed after main power is off.)
2. Open the top cover in the direction of the arrow.
3. Lamp cover fixing screw is loosened all the way and remove "Lamp cover".



4. Use a Phillips screwdriver to unscrew the lamp unit fixing screws (2 screws) until loose.
5. Hold the handle of the lamp unit and with the lamp unit lock held in the direction of the red arrow, carefully pull it out of the projector unit in a vertical motion.

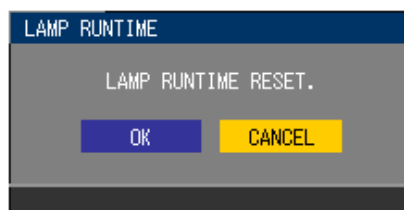


6. Insert the new lamp unit in correct direction. Tighten the two lamp unit fixing screws securely with a Phillips screwdriver.
 - * Press down on the A part firmly when inserting the lamp unit.
7. Attach the lamp cover, and tighten the two lamp cover fixing screws securely with Phillips screwdriver.
8. Close the top cover of the projector.

5. 3. 3. Reset procedure of the lamp use time

1. Insert the power plug into a power outlet, and press the <ON> side of the <MAIN POWER> switch to turn on the power.
2. Press the <MENU> button to display the menu screen, and select [OPTION] with the ▲▼ buttons.
3. Press the <ENTER> button, and select [LAMP RUNTIME] with the ▲▼ buttons.
4. Hold the <ENTER> button down for 3 seconds.
5. Select [OK] with the t u buttons and then press the <ENTER> button.

* LAMP RUNTIME is reset to "0" and the projector prepares to power off.
After a short while, the projector enters power off (standby) mode.

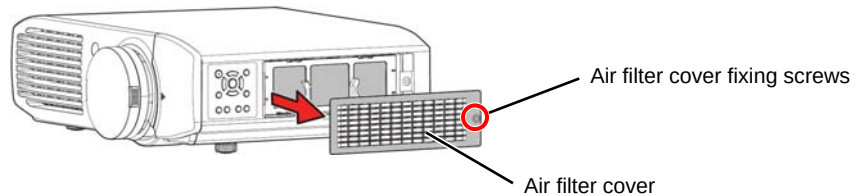


5. 3. 4. Air filter unit maintenance

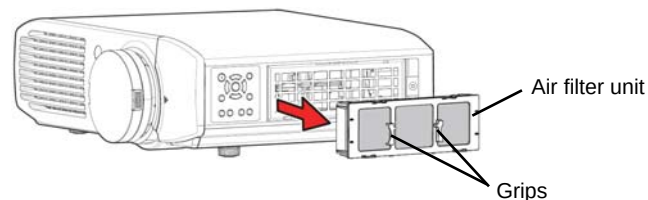
1. If too much dust accumulates in the air filter the internal temperature of the projector cannot be maintained at the normal level.
2. Confirmation message is displayed on the screen, and at the same time <TEMP> illuminates red.
The power is cut off automatically after a while.

5. 3. 5. Cleaning procedure for Air filter unit

1. Using a Phillips screwdriver to turn the fixing screw of the air filter cover until loose and remove the cover.

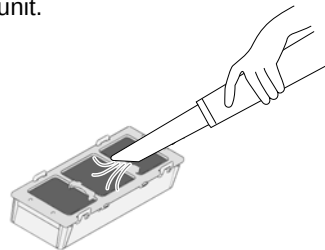


2. Hold the grips on the air filter unit, and remove the unit towards arrow.



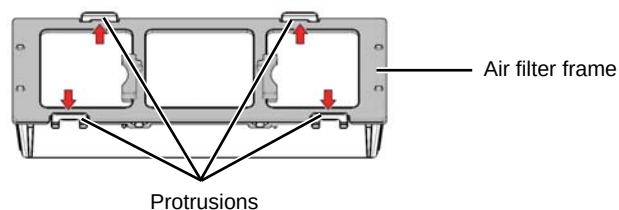
3. Vacuum the dirt and dust, from the air filter unit.

* Do not wash the air filter unit.



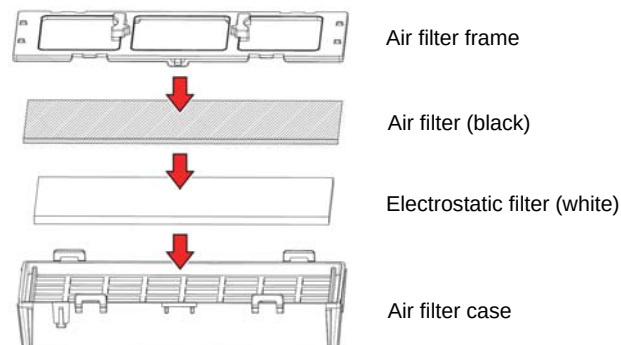
5. 3. 6. Replacement procedure for Air filter kit

1. Press the protrusions of air filter unit removed from the projector in the direction of the arrow and remove the air filter frame.



2. Replace the Air filter kit (air filter/electrostatic filter).

* Ensure you attach the electrostatic filter and air filter in the correct order.



6. Troubleshooting

6. 1. Summary of shut down system

When the abnormality of the lamp and the abnormality of the fan occurred, possess a shut down function to make a standby state for safety promptly.

Monitor LED indication	Shut down Detection	Presumed Factor	OSD Warning Indication
No flashing or blinking	Power fuse => 8A 250V	Blown out of the fuse (with some reason)	—
	Thermal fuse => More than 105 degrees C	Blown out of the fuse (with some reason)	—
	IIC bus =>FPGA initialized error =>Communication error	Communication line is disconnection in A-P.C.Board.	—
	No FAN sense signal	Connector is disconnected Fan abnormal	—
	Each FAN sense signal: => Rotation speed is slower than 50% of target for more than 10 seconds.	Fan speed abnormal	—
	IRIS sense signal => Unresponsiveness is more than 1 minute	Iris unit abnormal Iris drive circuit abnormal	—
All indicator Illuminating	Interlock SW => Abnormal :OFF	Lamp unit cover is not installed.	—
TEMP indicator Flashing red	Intake air temperature sensor: => Under -36 degrees C	Connection problem with Intake air temperature sensor. Faulty temperature sensor.	—
	Exhaust air temperature sensor: => Under -36 degrees C	Connection problem with Exhausting air temperature sensor. Faulty temperature sensor.	—
	Intake air temperature sensor: => More than 43 degrees C	Intake air temperature error High temperature of environment Intake air window is closed	More than 41 degrees C =>“TEMPERATURE WARNING” lower than 39 degrees C => Warring cancel
	Exhaust air temperature sensor: => More than 79 degrees C	Exhausting air temperature error: Closed ventilator High altitude mode is not on.	More than 77 degrees C =>“TEMPERATURE WARNING” lower than 75 degrees C => Warring cancel
	Filter air temperature sensor: => More than threshold ** degrees C	Filter clogging Closed Intake High altitude mode is not on	"Air filter cleaning"
LAMP indicator Flashing red	Lamp status => Lamp is off during the status other than normal one	Failed lamp ON, lamp abnormal condition Ballast block faulty, Hot restart	—
LAMP LED Lights	Lamp hours => Over 4000 hours (Shuts down after 10 minutes.)	Lamp usage hour is over the guideline.	Over 3800 hours => "Replace lamp"

Value “**” is changed by “Lamp mode”, or “Fan mode” and “Setting attitude”

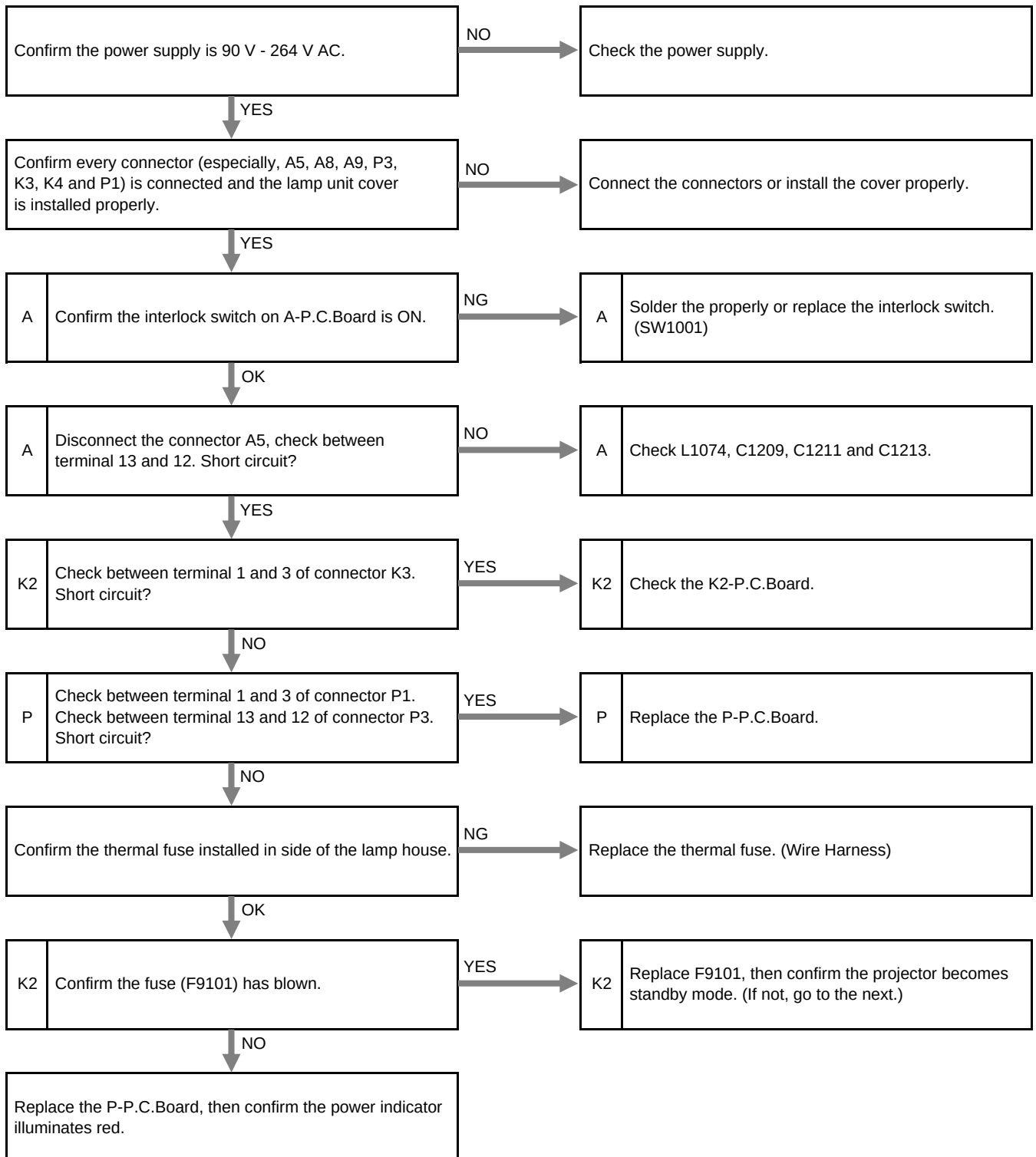
6. 2. Troubleshooting flow

* The letters in the left of inspection items indicate the P.C. Boards or Modules related to their respective descriptions.

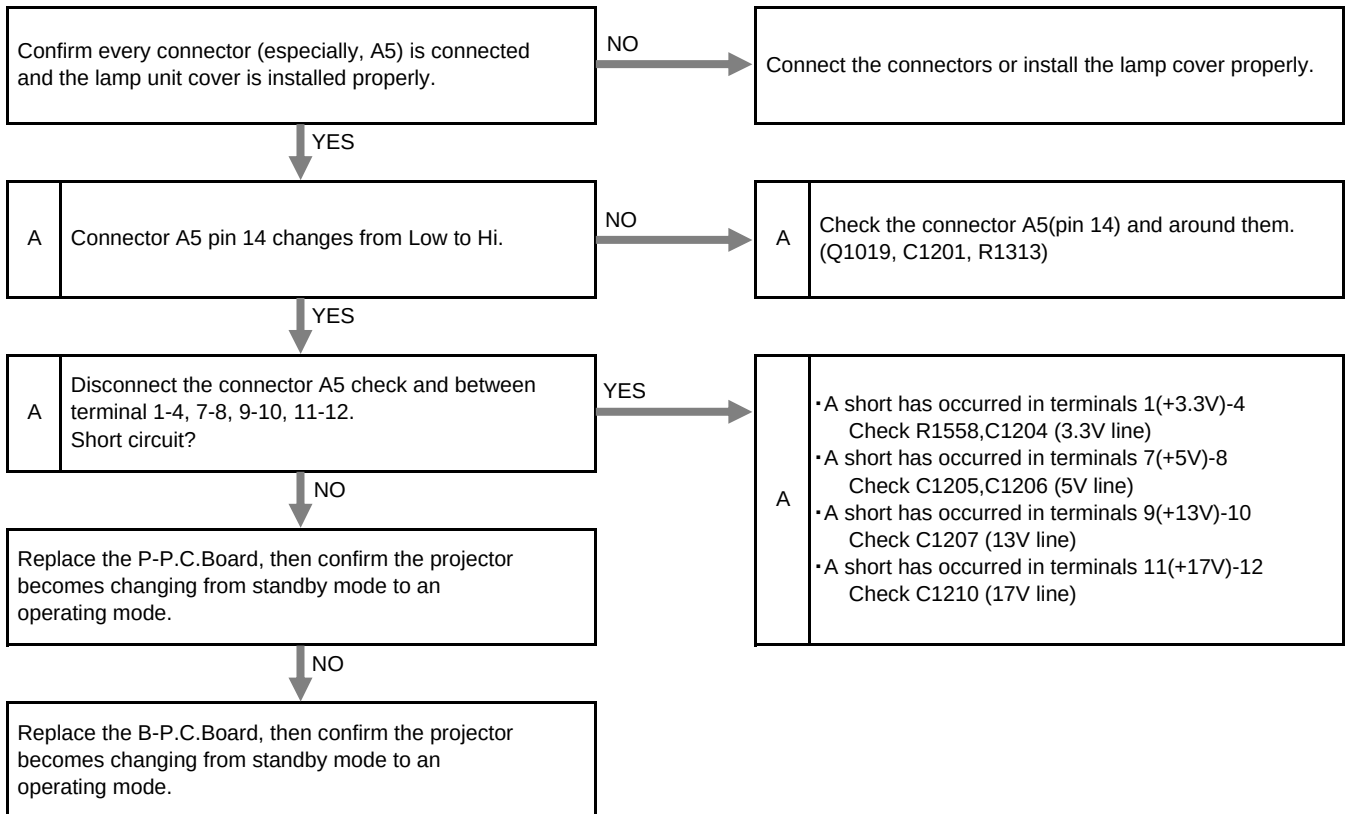
* Inspection should be done with "ON" to interlock switch. (inter lock detection)

Push the interlock switch to the ON state, and paste the adhesive tape.

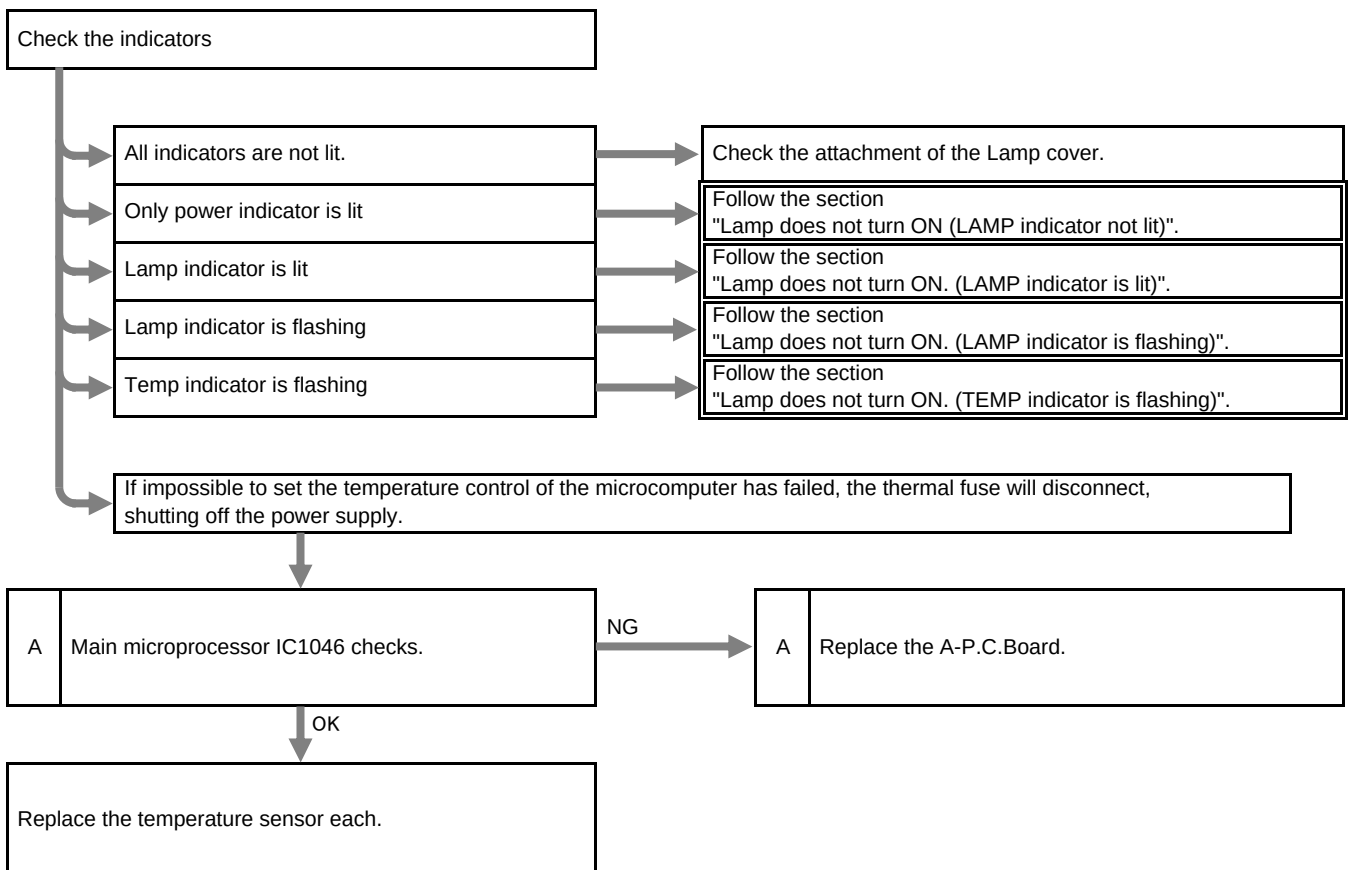
■ The projector does not become standby mode. (The power indicator does not illuminate red.)

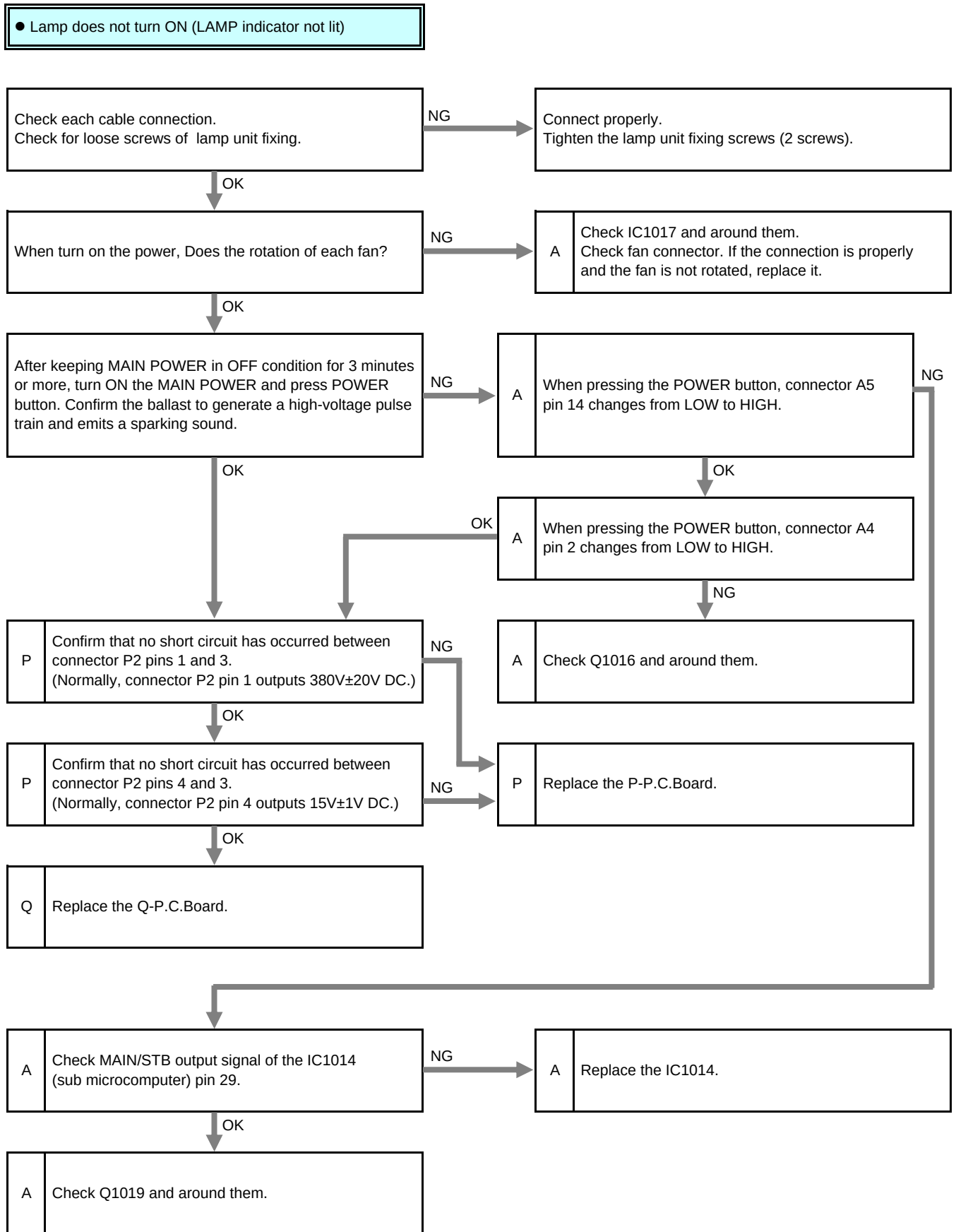


■ The projector does not change from standby mode to an operating mode.
(The power indicator does not change from red to green.)



■ A shutdown occurs.





● Lamp does not turn ON (LAMP indicator is lit)

After keeping MAIN POWER in OFF condition for 3 minutes or more, turn ON the MAIN POWER and press POWER button. Then confirm the lamp lights up.

NG

Replace the lamp unit.

OK

If the lamp goes out approximately 10 minutes after it lights up, the cumulative usage time of it exceeds 4 000 hours. Replace the lamp unit.

● Lamp does not turn ON. (LAMP indicator is flashing)

After keeping MAIN POWER in OFF condition for 3 minutes or more, turn ON the MAIN POWER and press POWER button. Then confirm the lamp lights up.

NG

Replace the lamp unit.

NG

B	Replace the B-P.C.Board.
---	--------------------------

● Lamp does not turn ON. (TEMP indicator is flashing)

Check whether the air inlet port and air exhaust port not been blocked.

NG

Do not cover air intake port or air exhaust port. Install the projector so that cold air or hot air from air conditioners does not come in to direct contact with the air intake port or air exhaust port.

OK

Check whether the air filter unit is not clogged.

NG

Cleaning the air filter unit.

OK

Check each temperature sensor connector cable connection.

NG

Connect a connector properly.

OK

Check each temperature sensor.

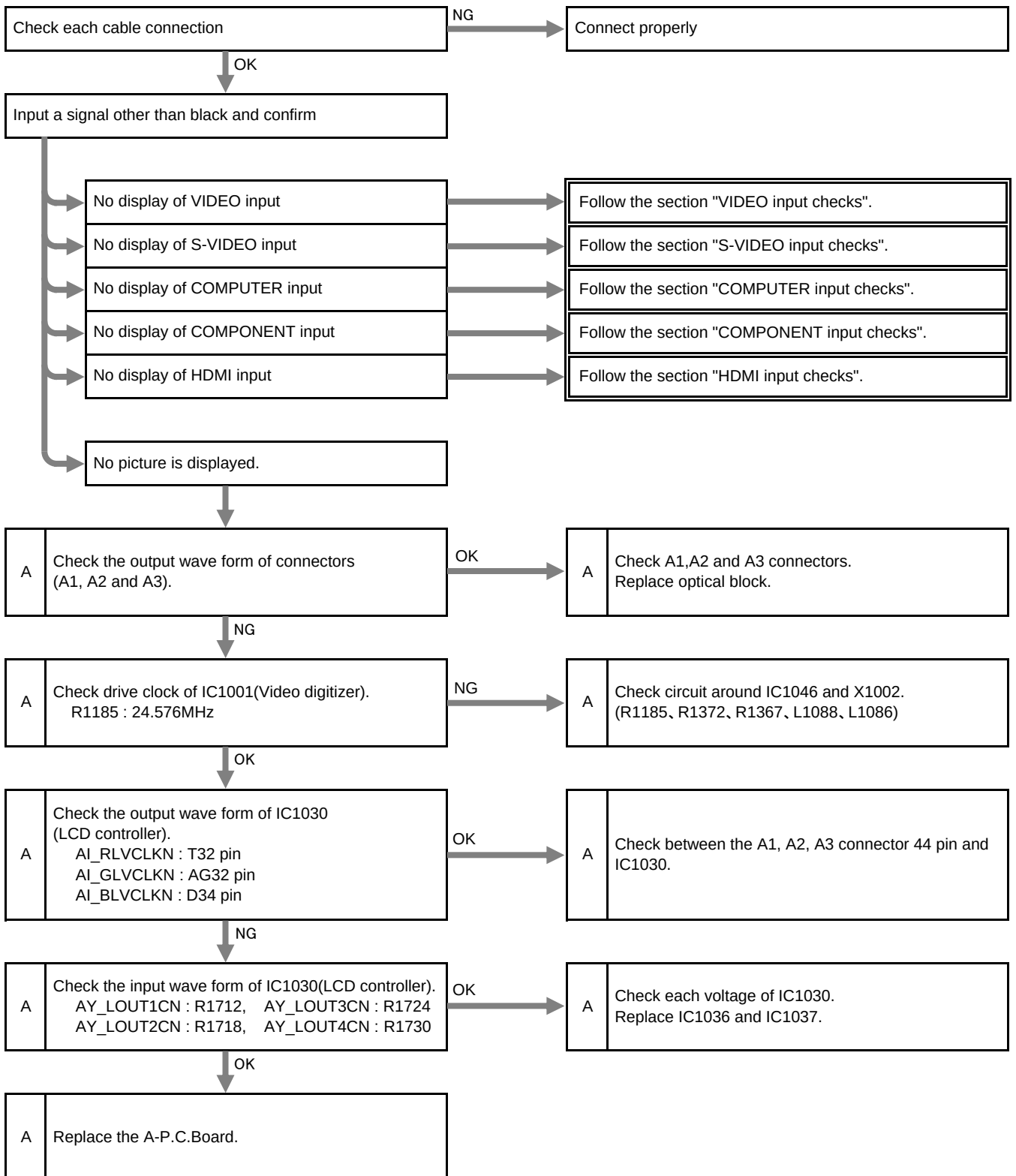
NG

Replace temperature sensor.

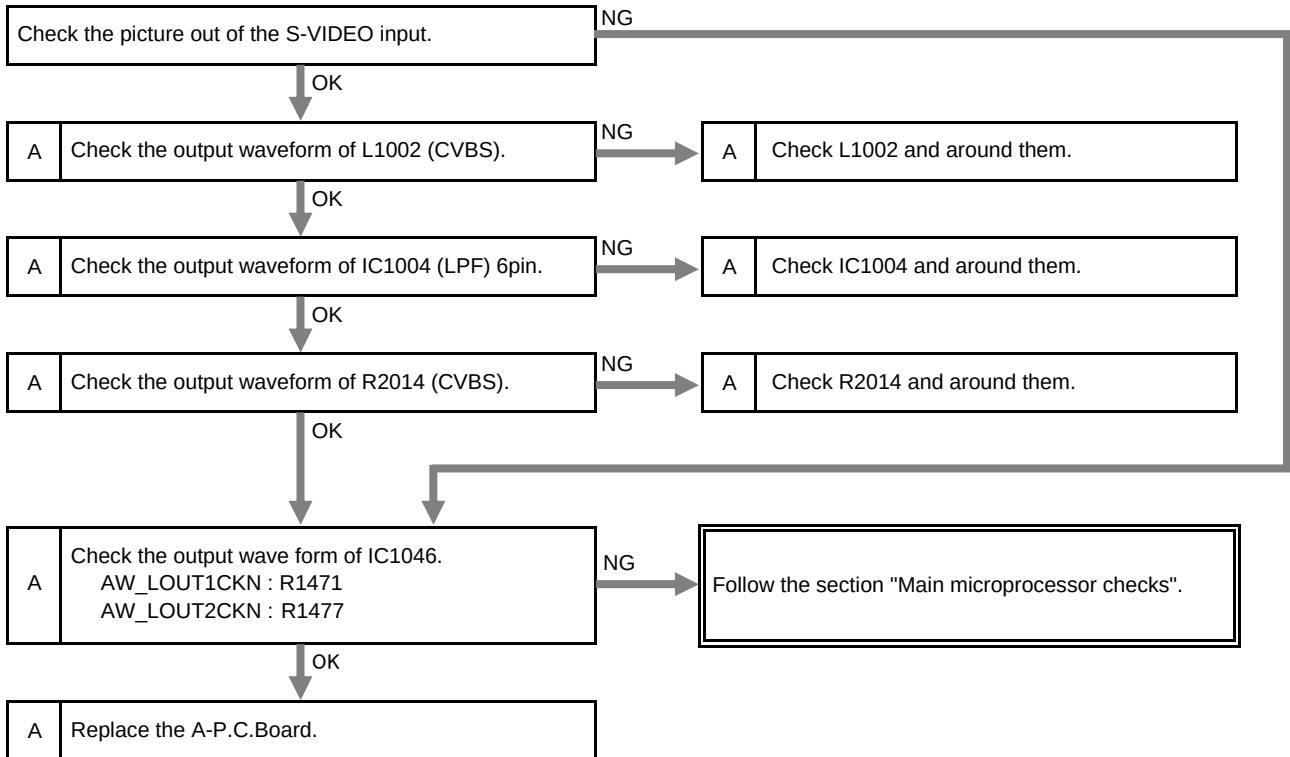
OK

A	Replace the A-P.C.Board.
---	--------------------------

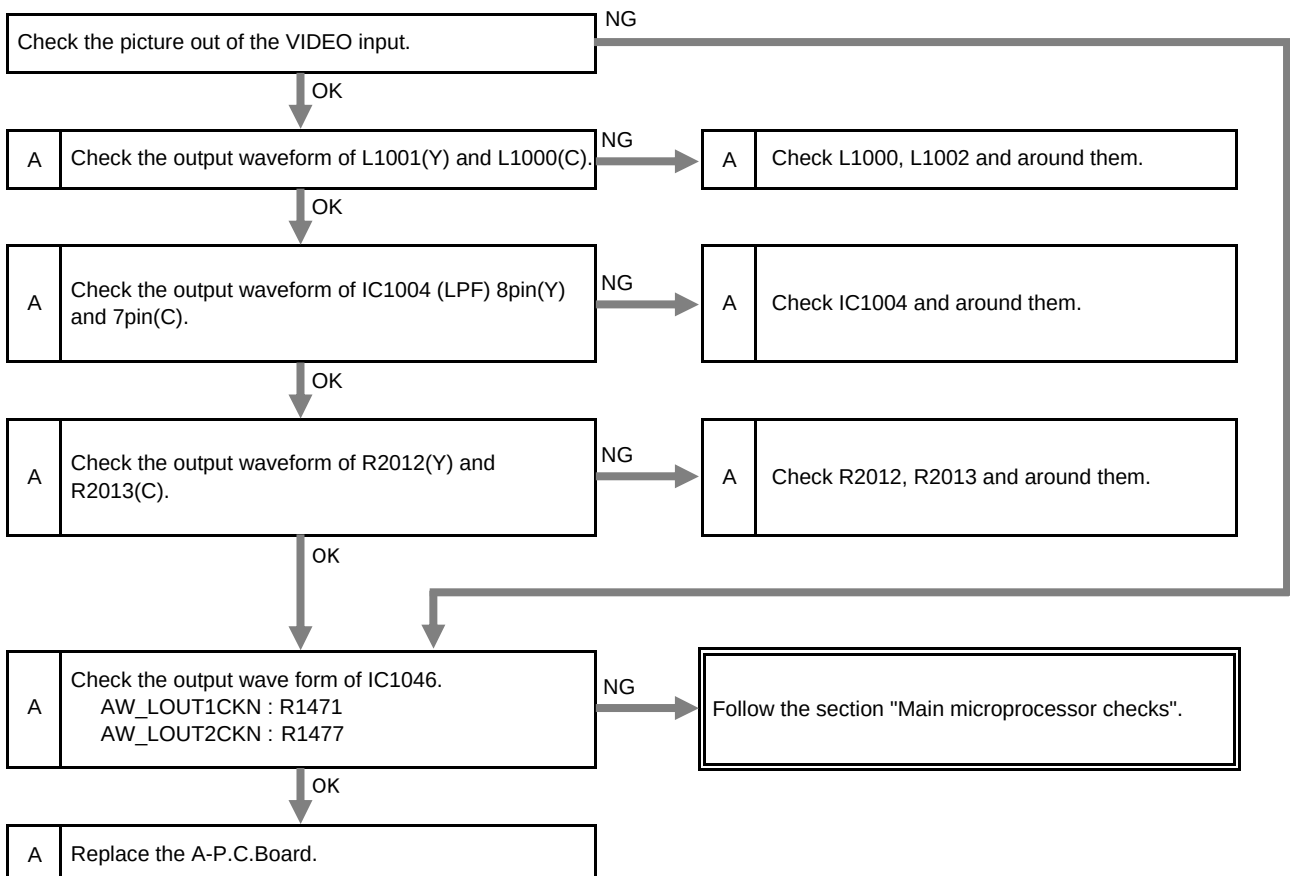
■ No picture or abnormal picture is output



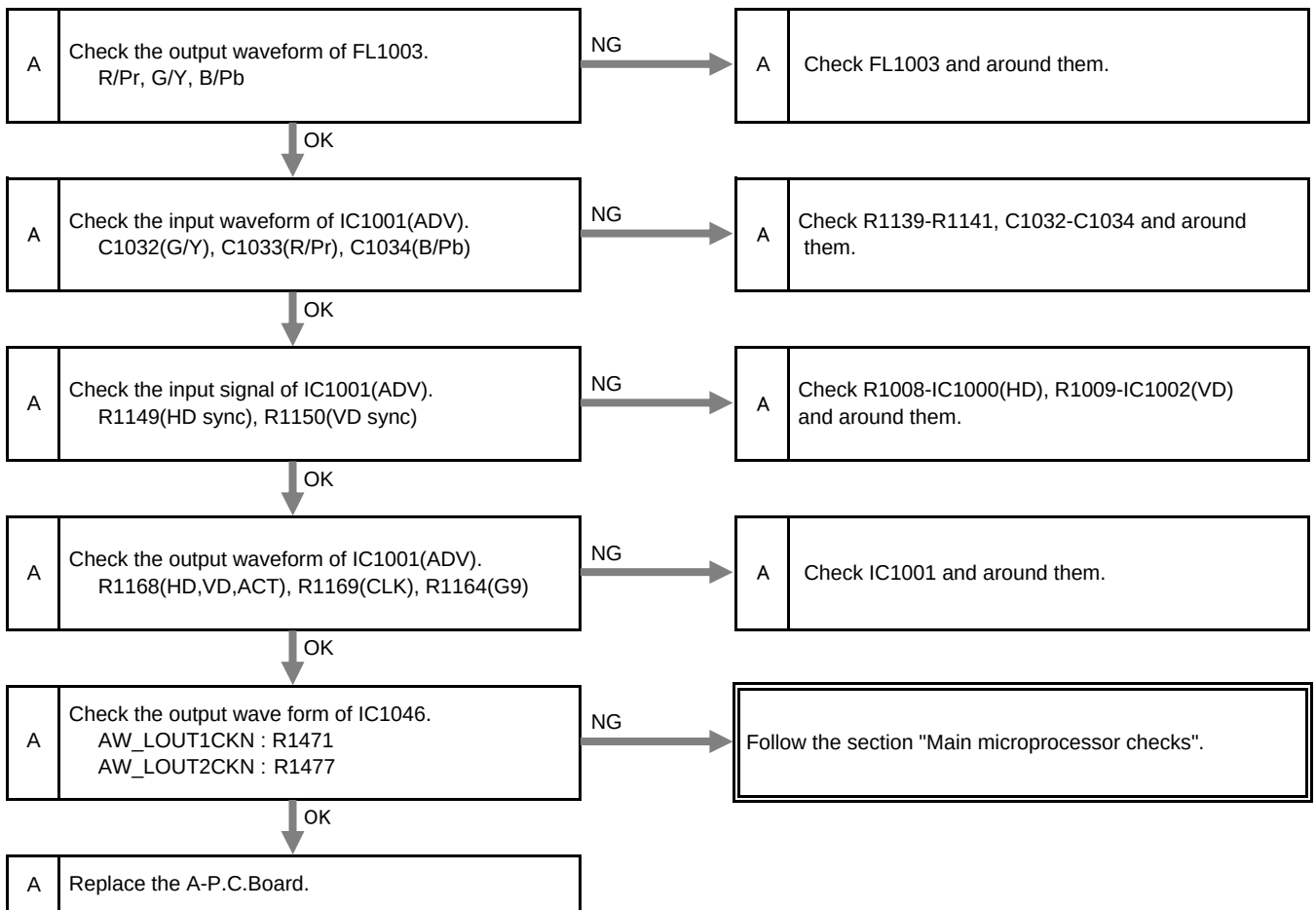
● VIDEO Input checks



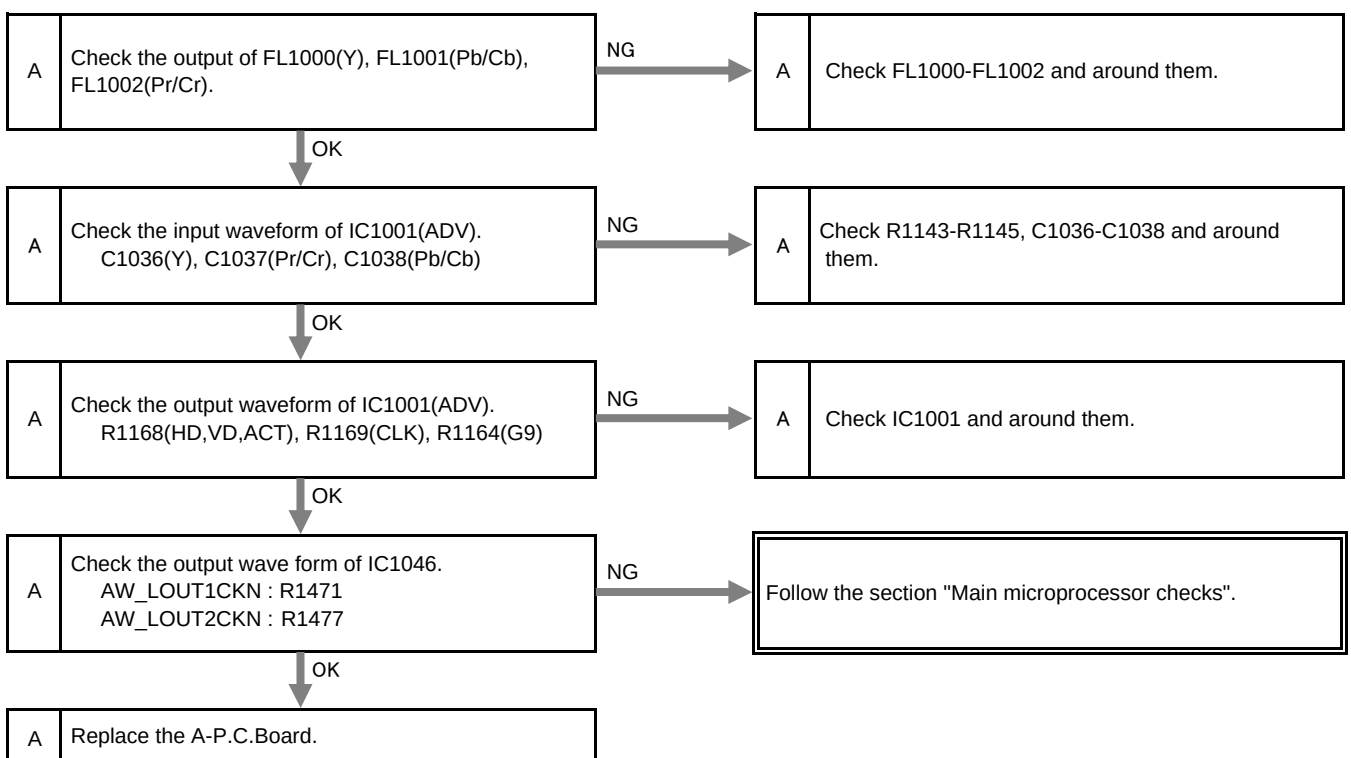
● S-VIDEO Input checks



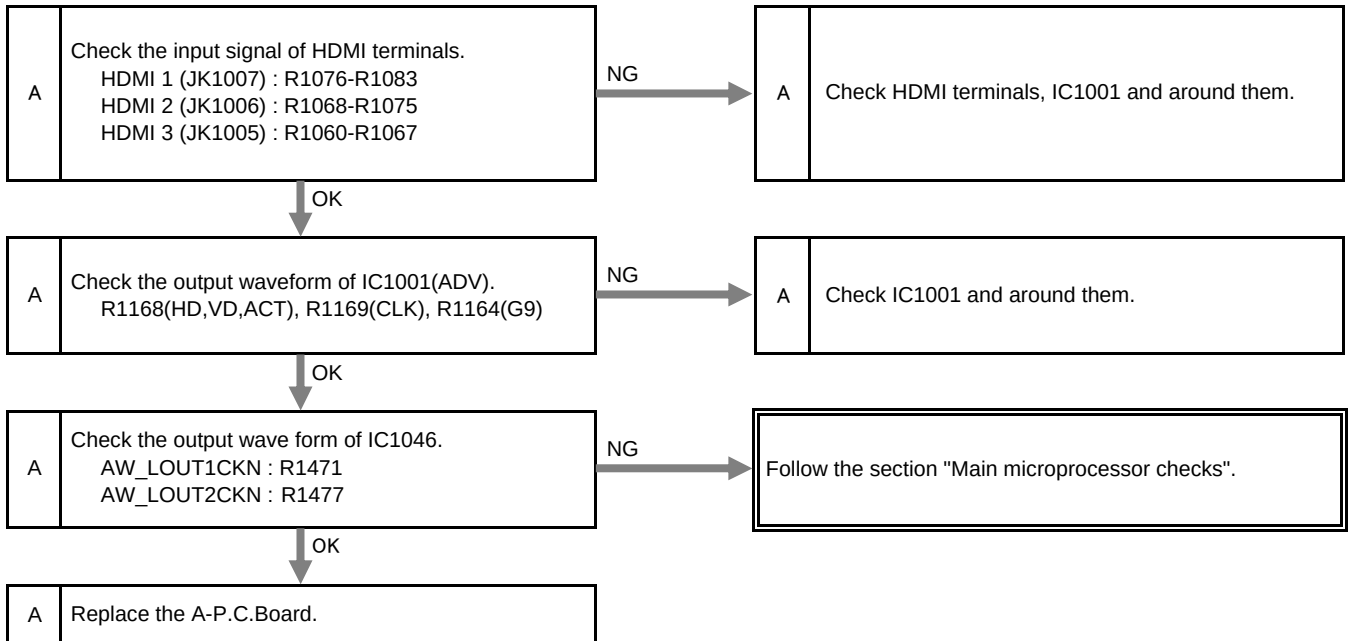
● COMPUTER Input checks



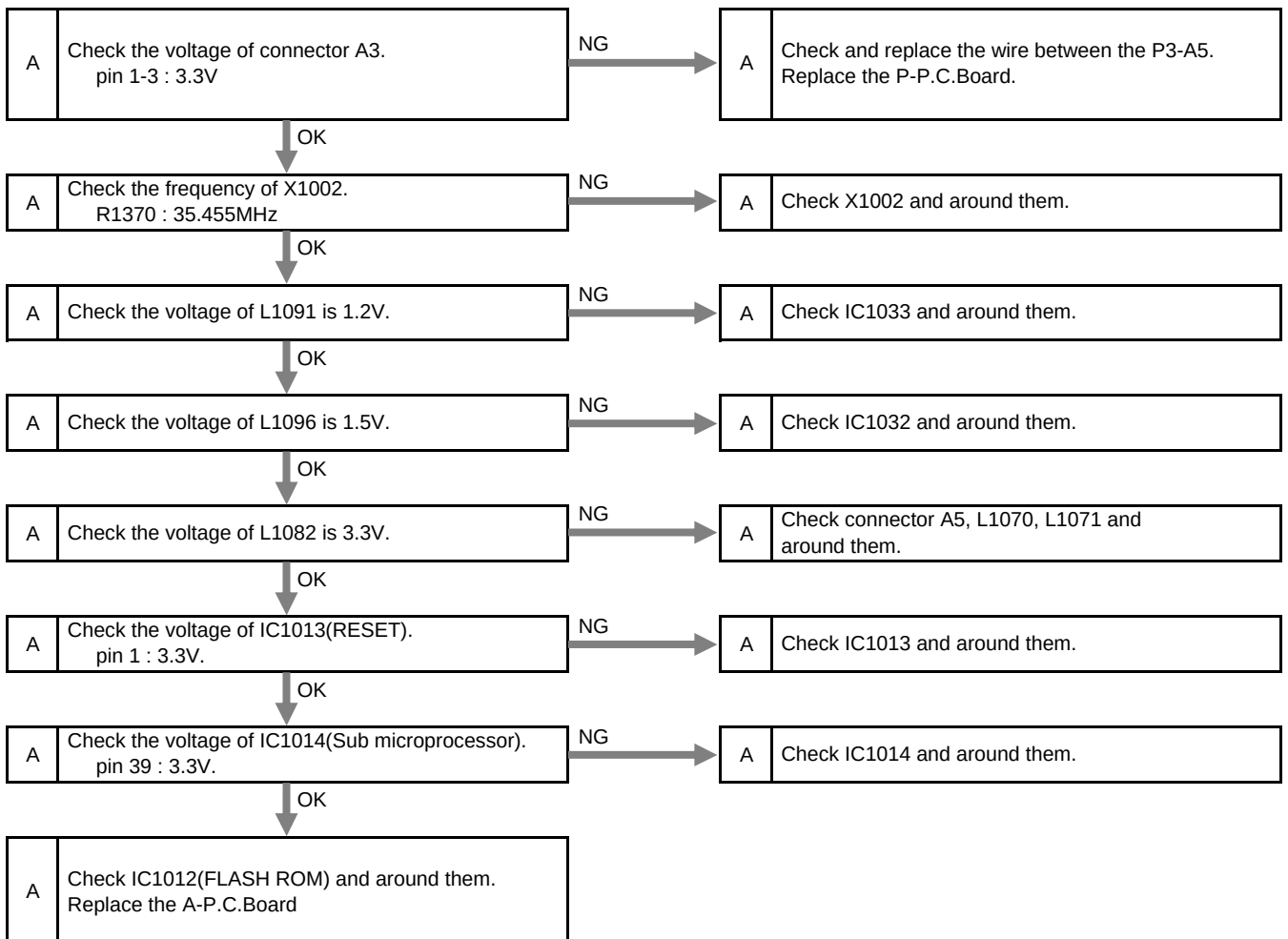
● COMPONENTI Input checks



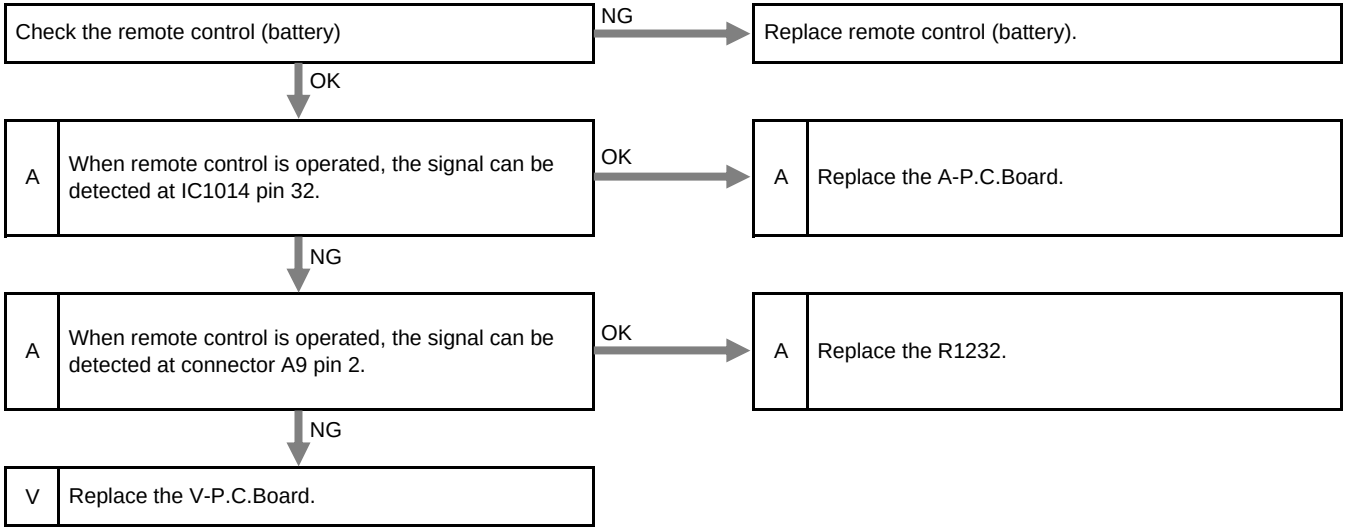
● HDMI Input checks



● Main microprocessor checks



■ Remote control does not work



SECTION 2

<Disassembly Procedures>

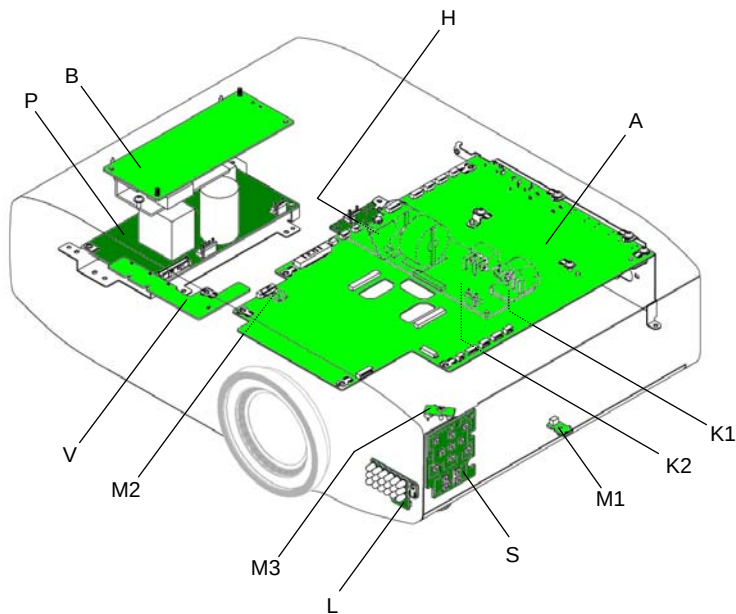
Model No. **PT-AE8000U**
PT-AT6000E
PT-AE8000EA / AE8000EH / AE8000EZ

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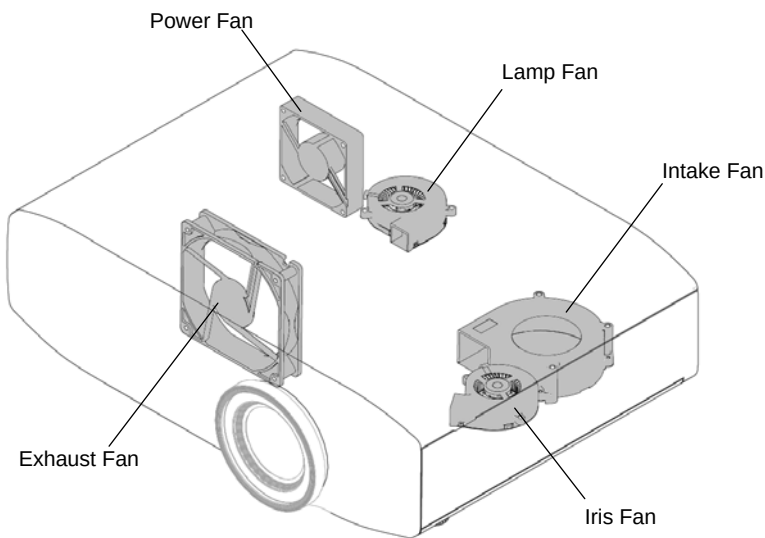
1. Parts Location

1. 1. Electrical Parts Location (P.C.Board)



Board Name	Function summary	Board Name	Function summary
A	Image processing system / Microcomputer	M2	Temp sensor (Exhaust)
S	Control Panel	M3	Temp sensor (Air flow)
V	Indicator LED	B	Ballast power / Ballast control
L	3D-IR transmitter	P	Power supply (DC-DC)
H	Iris position sensor	K1	AC Inlet
M1	Temp sensor (Intake)	K2	Line Filter

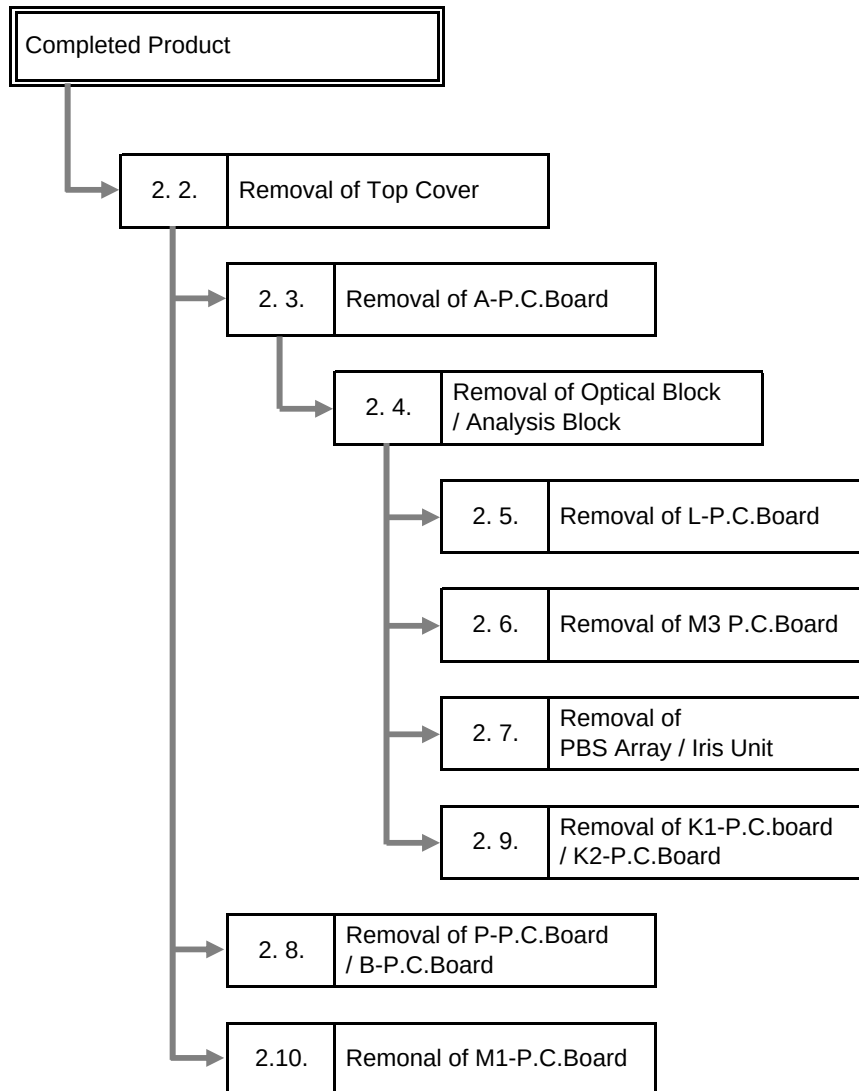
1. 2. Electrical Parts Location (Fan)



2. Disassembly Instructions

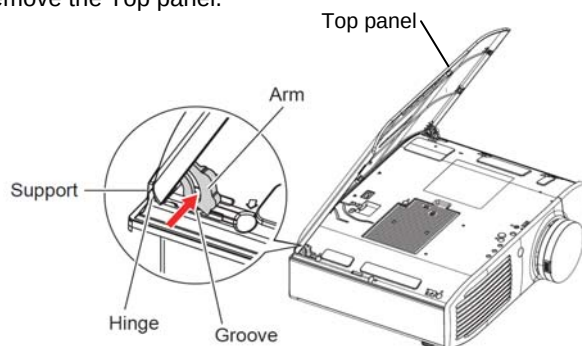
2. 1. Flowchart for Disassembly

- * Before Disassembly the projector, turn off the POWER switch and disconnect the power plug from the wall outlet.
- * To assemble, reverse the disassembly procedures.
- * When tore off sticky tapes, please use a new thing without reusing it on the occasion of assembling.
- * Description of the illustration may be different from the real.



2. 2. Removal of Top Cover

1. Remove the Top panel.

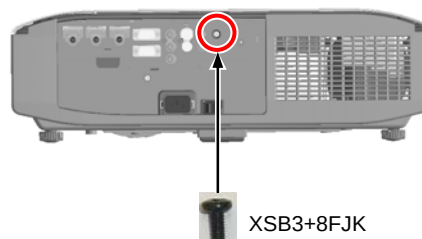
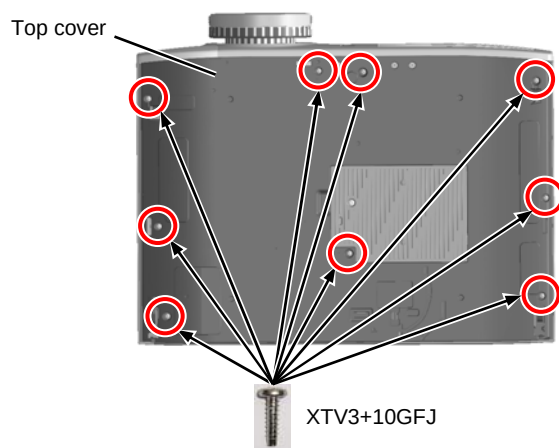


- 1) Hold the top cover as shown in the diagram.
- 2) While pushing the arm in the direction of the arrow (inside projector), pull out from the groove.

* Attaching the top panel

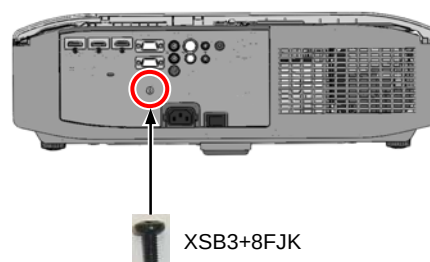
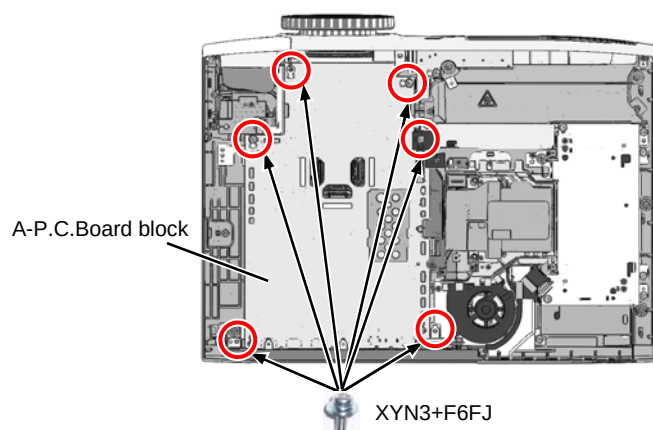
- 1) Hold the top cover as shown in the diagram.
- 2) Align the hinge with the support.
- 3) while pushing the arm in the direction of the arrow (inside projector) push it into the groove.

2. Unscrew the 9 screws on the top side and 1 screw on the rear side.

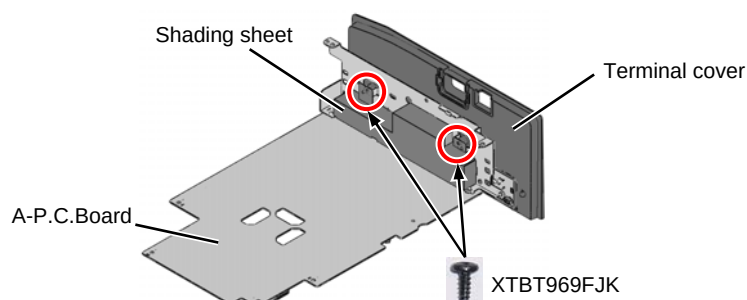


2. 3. Removal of A-P.C.Board

1. Remove the Top Cover according to the section 2.2 "Removal of Top Cover".
2. Unscrew the 7 screws and remove the A-P.C.Board block.

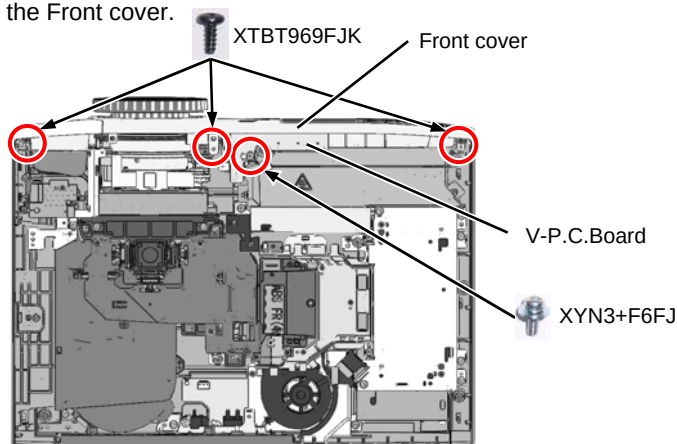


3. Unscrew the 2 screws and remove the Terminal cover and Shading sheet.

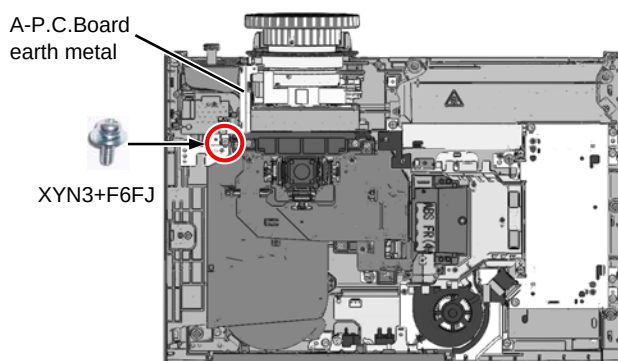


2. 4. Removal of Optical Block / Analysis Block

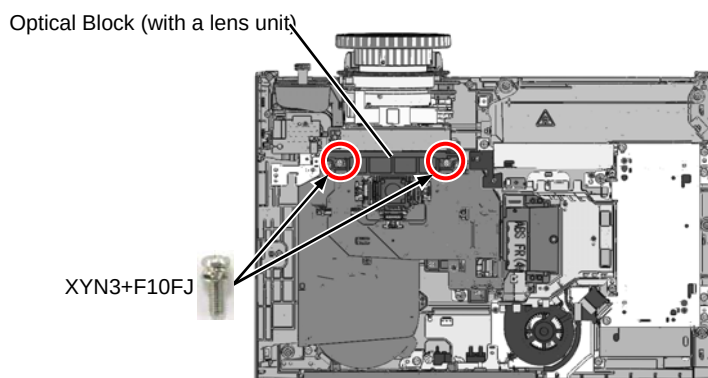
1. Remove the A-P.C.Board block according to the steps 1 through 2 in the section 2.3. "Removal of A-P.C.Board".
2. Loosen the 2 screws and remove the Lamp unit.
3. Unscrew the 1 screw and remove the V-P.C.Board.
4. Unscrew the 3 screws and remove the Front cover.



5. Unscrew the 1 screw and remove the A-P.C.Board earth metal.

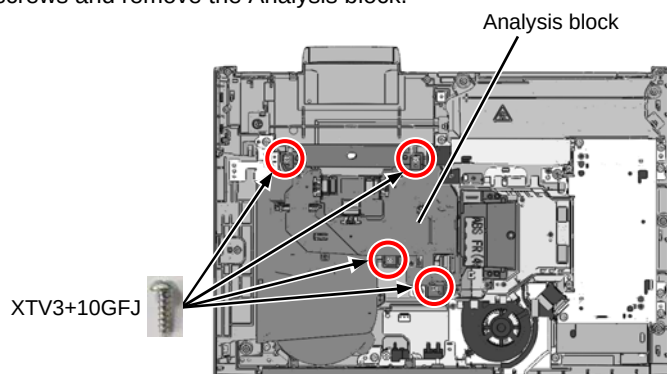


6. Unscrew the 2 screws and remove the Optical block.



* There is not enough space between the Analysis block and Optical block. Be careful not to damage nor dirty precision components (LCD panel, incidence polarizer, etc.) when removing.

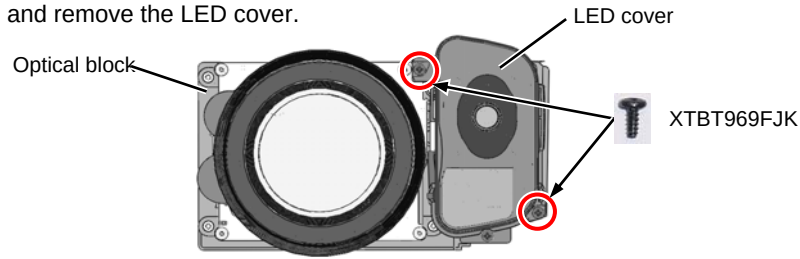
7. Unscrew the 4 screws and remove the Analysis block.



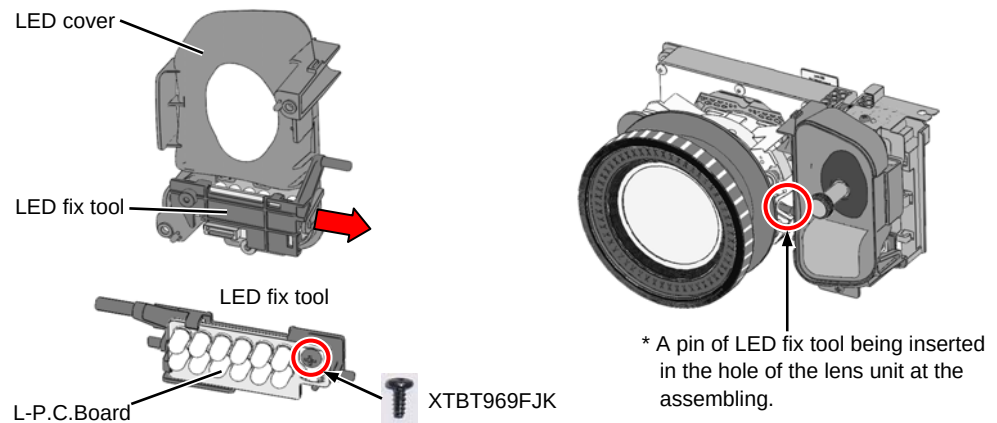
* The incidence polarizer is installed in the Analysis block. Be careful not to shift the installation position nor damage it.

2. 5. Removal of L-P.C.Board

1. Remove the Optical block according to the steps 1 through 6 in the section 2.4. "Removal of Optical Block / Analysis Block".
2. Unscrew the 2 screws and remove the LED cover.

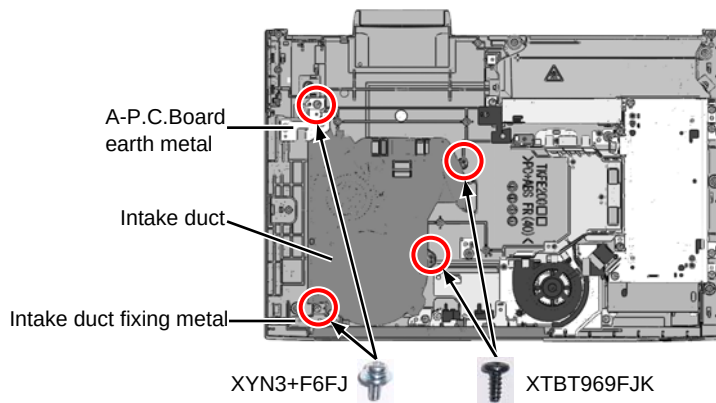


3. While pushing the LED cover in the direction of the arrow, and remove a LED fix tool.
4. Unscrew the 1 screw and remove the L-P.C.Board.

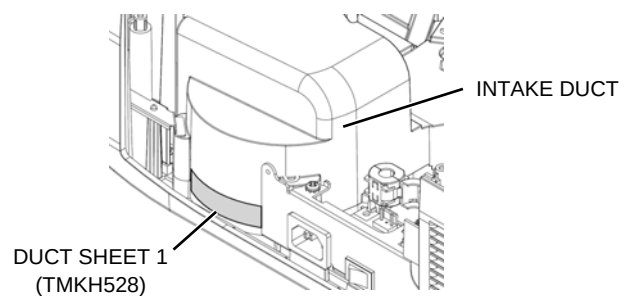
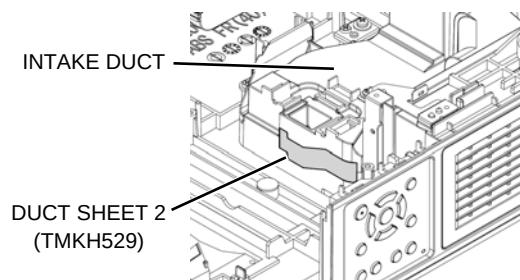


2. 6. Removal of M3 P.C.Board

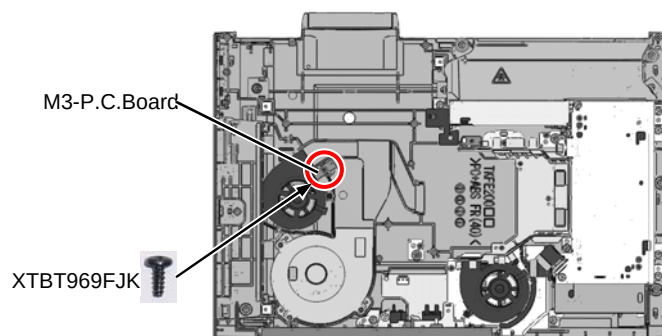
1. Remove the Analysis block according to the section 2.4. "Removal of Optical Block / Analysis Block".
2. Unscrew the 1 screw and remove the A-P.C.Board earth metal.
3. Unscrew the 3 screws and remove the Intake duct.



Note : Duct sheets is removed before removing intake duct.
When assembling, please replace with new duct sheets.



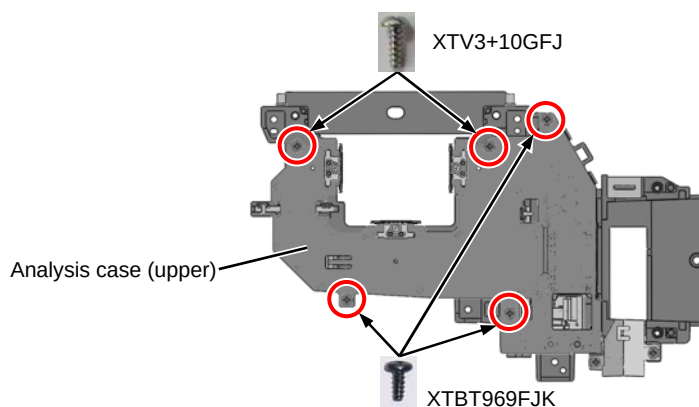
4. Unscrew the 1 screw and remove the M3-P.C.Board.



2. 7. Removal of PBS Array / Iris Unit

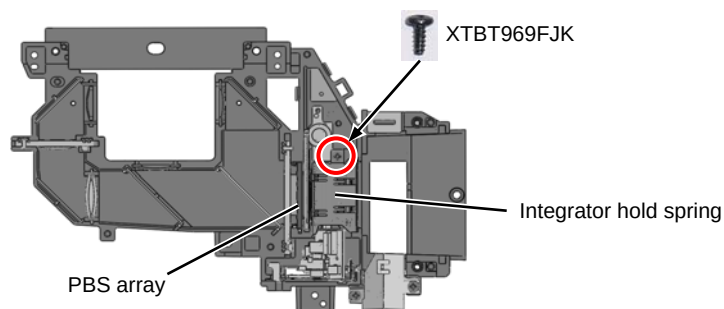
1. Remove the Analysis block according to the section 2.4. "Removal of Optical Block / Analysis Block".
2. Unscrew the 5 screws and remove the Analysis case (upper).

* Can be removal of PBS Array.

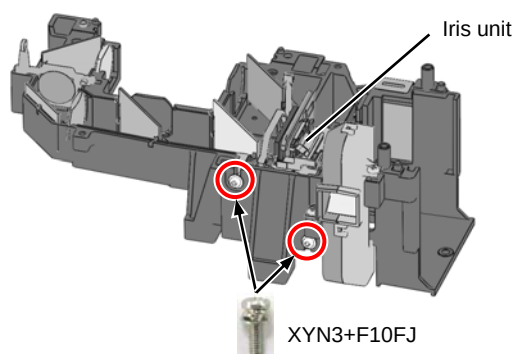


* The incidence polarizer is installed in the Analysis case (upper). Be careful not to shift the installation position nor damage it.

3. Unscrew the 1 screw and remove the Integrator hold spring.

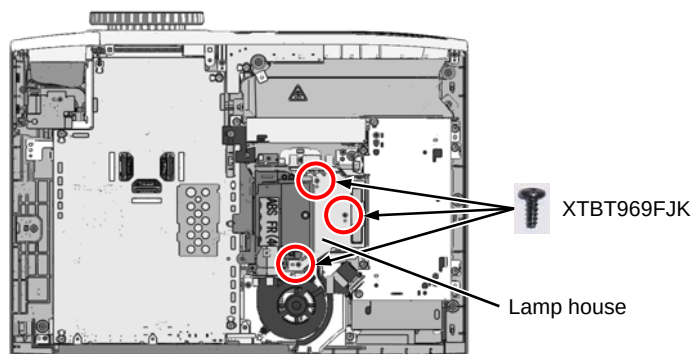


4. Unscrew the 2 screws and remove the Iris unit.

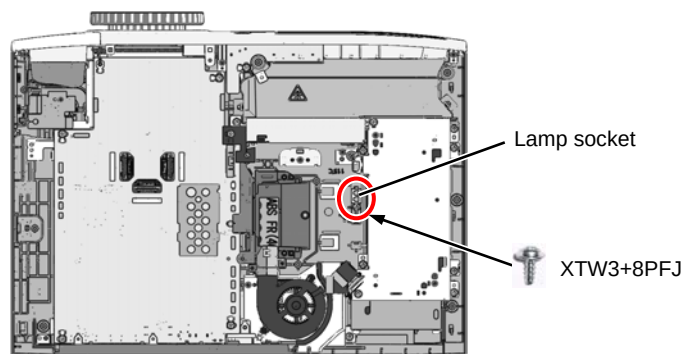


2. 8. Removal of P-P.C.Board / B-P.C.Board

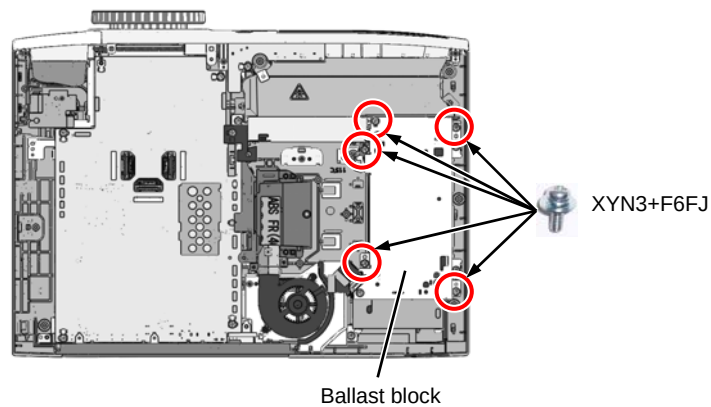
1. Remove the Top Cover according to the section 2.2 "Removal of Top Cover".
2. Loosen the 2 screws and remove the Lamp unit.
3. Unscrew the 3 screws and remove the Lamp house.



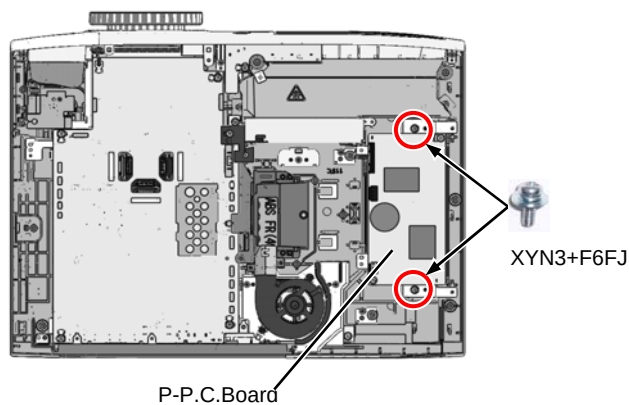
4. Unscrew the 1 screw and remove the Lamp socket.



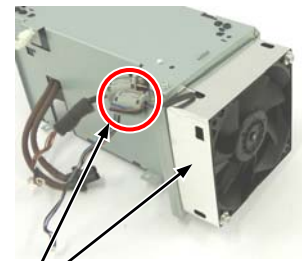
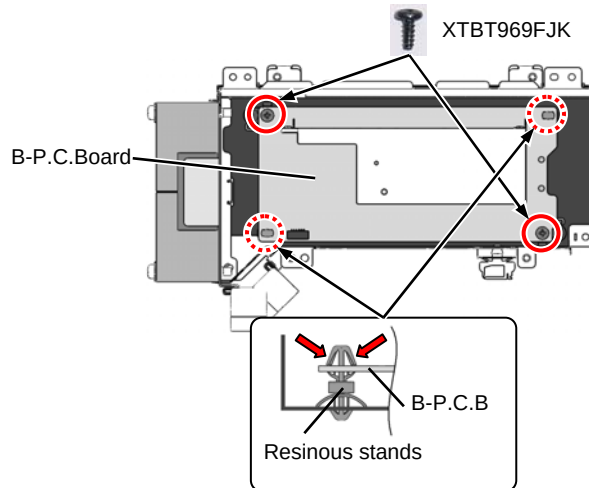
5. Unscrew the 5 screws and remove the Ballast block.
* Remove the P2 connector.



6. Unscrew the 2 screws and remove the P-P.C.Board.



7. Unscrew the 2 screws and while pressing to shut each hook of the 2 resinous stands, remove the B-P.C.Board.

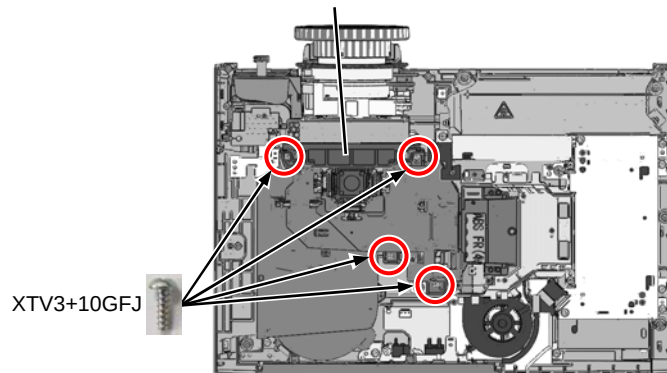


- Note :
- 1) The direction the Power Fan install.
 - 2) Roll the Fan cable one turn on core.

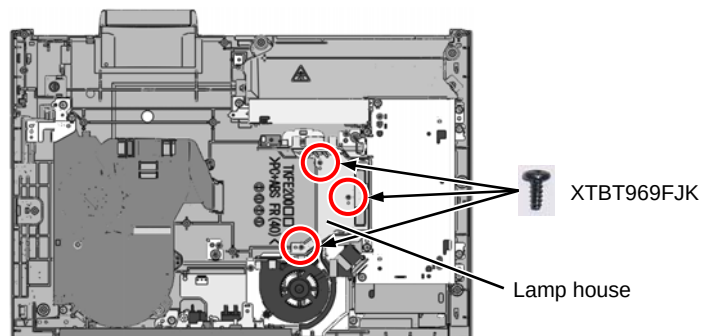
2. 9. Removal of K1-P.C.board / K2-P.C.Board

1. Remove the A-P.C.Board earth metal according to the steps 1 through 5 in the section 2.4. "Removal of Optical Block / Analysis Block".
2. Unscrew the 4 screws and remove the Optical Block and Analysis Block.

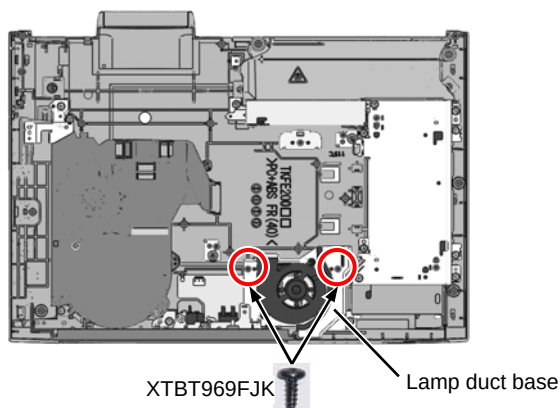
Optical Block + Analysis Block



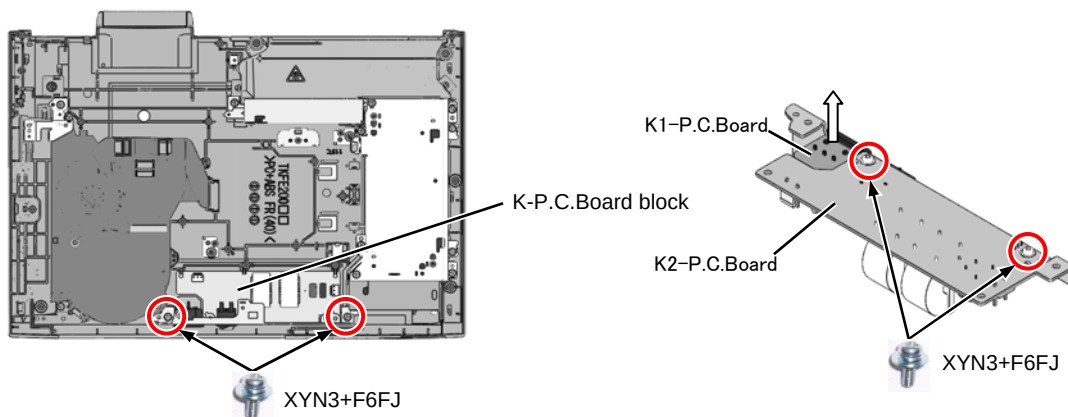
3. Unscrew the 3 screws and remove the Lamp house.



4. Unscrew the 2 screws and remove the Lamp duct base.

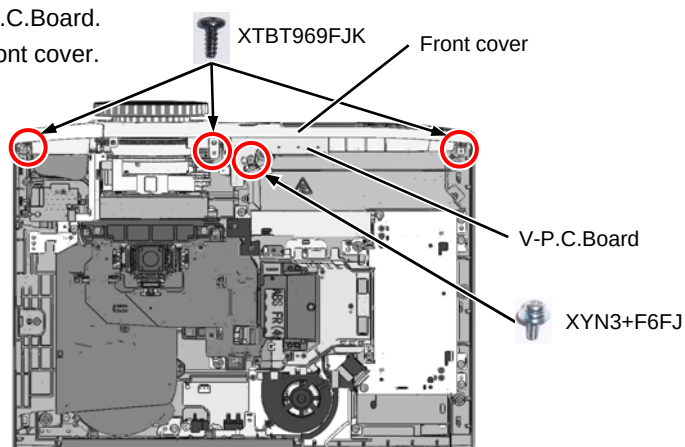


5. Unscrew the 2 screws and remove the K-P.C.Board block.

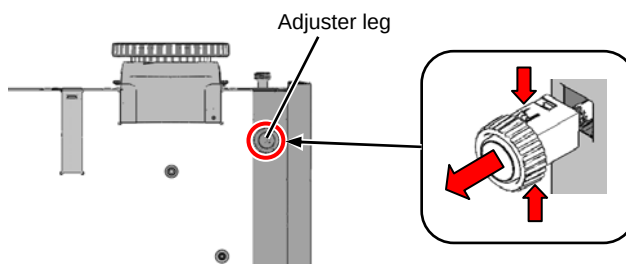


2.10. Remonal of M1-P.C.Board

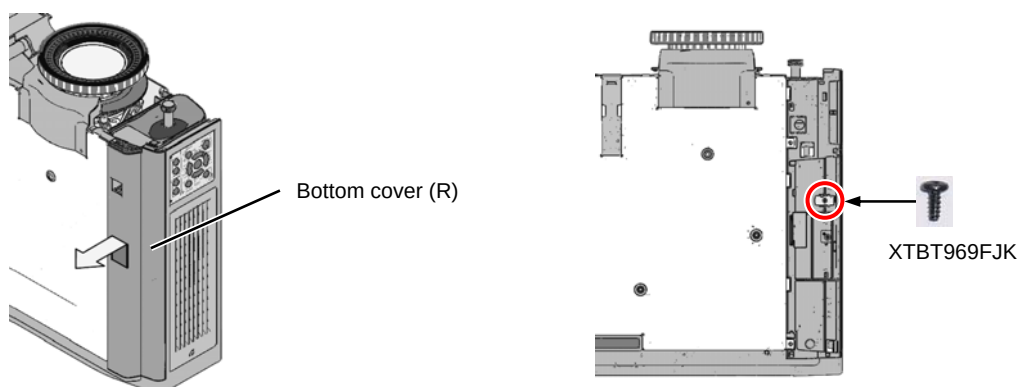
1. Remove the Top Cover according to the section 2.2 "Removal of Top Cover".
2. Unscrew the 1 screw and remove the V-P.C.Board.
3. Unscrew the 3 screws and remove the Front cover.



4. While pressing to shut each hook of the Adjuster leg, remove the Adjuster leg (lens side).



5. Remove the Bottom cover (R).
6. Unscrew the 1 screw and remove the M1-P.C.Board.



SECTION 3

< Adjustments >

Model No. **PT-AE8000U**
PT-AT6000E
PT-AE8000EA / AE8000EH / AE8000EZ

CONTENTS

1. Adjustment items and procedure	ADJ-2
1. 1. Flicker Adjustment	
1. 2. Data Transfer	
1. 3. Model Information Setup	
1. 4. Model Information Setup	
1. 5. Clog Sensor calibration	
2. Microprocessor update procedure	ADJ-7
2. 1. Update by serial Terminal Cnnection	

1. Adjustment item and a procedure

When the following components in this projector are replaced, adjustments are required. Adjust each item according to the table below.

Adjustment Items	Replaced parts	Remarks
1. 1. Flicker Adjustment	OPTICAL BLOCK / A-P.C.Board	
1. 2. Data Transfer	A-P.C.Board	Save data to a PC before A-P.C.B exchange and write it into a new A-P.C.B.
1. 3. Model Information Setup	A-P.C.Board	
1. 4. Serial Number Setup	A-P.C.Board	
1. 5. Clog Sensor Calibration	A-P.C.Board / M3-P.C.board	After the "1.2.Data Transfer" has been completed, please adjust it.

1. 1. Flicker Adjustment

1. 1. 1.Adjustment Procedure

1. Select "FLICKER ADJUST" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.
2. "DESK setting (blue)" is displayed when entering the adjustment mode.
3. Setting value is increased and decreased with the right-arrow " ◀ " and left-arrow " ▶ " buttons.
 - Adjust the setting value to minimize the flicker on the screen.
4. The pattern (adjustment display) is switched with the up-arrow " ▲ " and down-arrow " ▼ " buttons.
 - There are 6 patterns of "DESK setting (blue)", "DESK setting (red)", "DESK setting (green)", "CEILING setting (blue)", "CEILING setting (red)" and "CEILING setting (green)".
5. Press "MENU" button on the main unit or remote control unit.
 - When "MENU" button is pressed, the setting value at that time is saved into this projector and the adjustment mode is canceled.

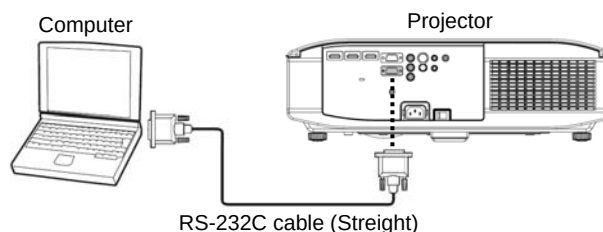
1. 2. Data Transfer

1. 2. 1. Required equipments

1. PC : Use to transfer the backup data.
2. Communication cable : D-sub 9pin (male/female RS-232C straight)
3. Software : [Service ORCA11.exe] Adjustment software is downloaded from the projector service homepage.

1. 2. 2. Preparation

1. Connect the RS-232C terminal of projector and PC with a RS-232C cable.

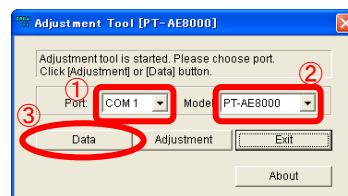


1. 2. 3. Backup the Data (It is before A-P.C.Board exchange)

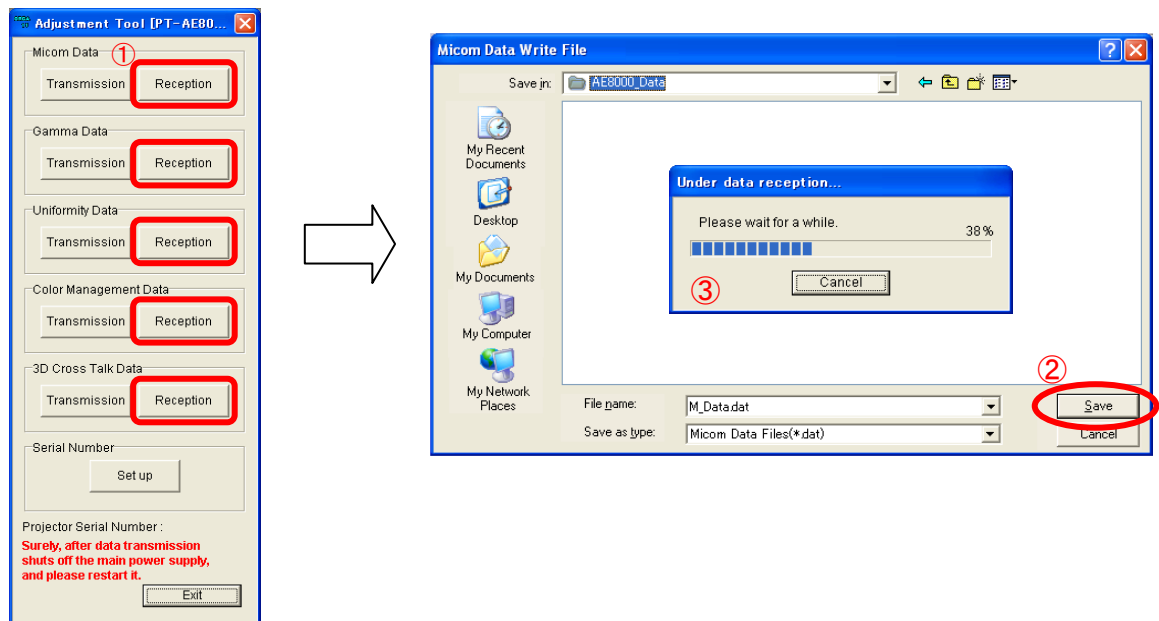
1. Switch the projector to "Standby" mode (POWER indicator is Lighting in red).
2. Start up service software [Service ORCA11.exe] with a computer.
3. Select language and click the [OK] button.



4. 1) Select the Serial Port of the computer.
- 2) Select a model number.
(Case of AT6000, select the AE8000.)
- 3) Click the [Data] button.

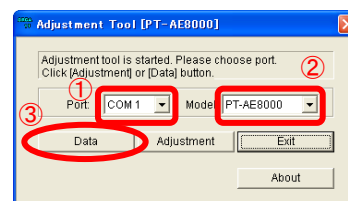


5. 1) Click the [Reception] button of Micom Data.
- 2) Select the save place and click the [Save] button.
- 3) When the progress bar reaches the right-side end, the save of data is completion.
- 4) Save the each data in the same procedure as 1-3.

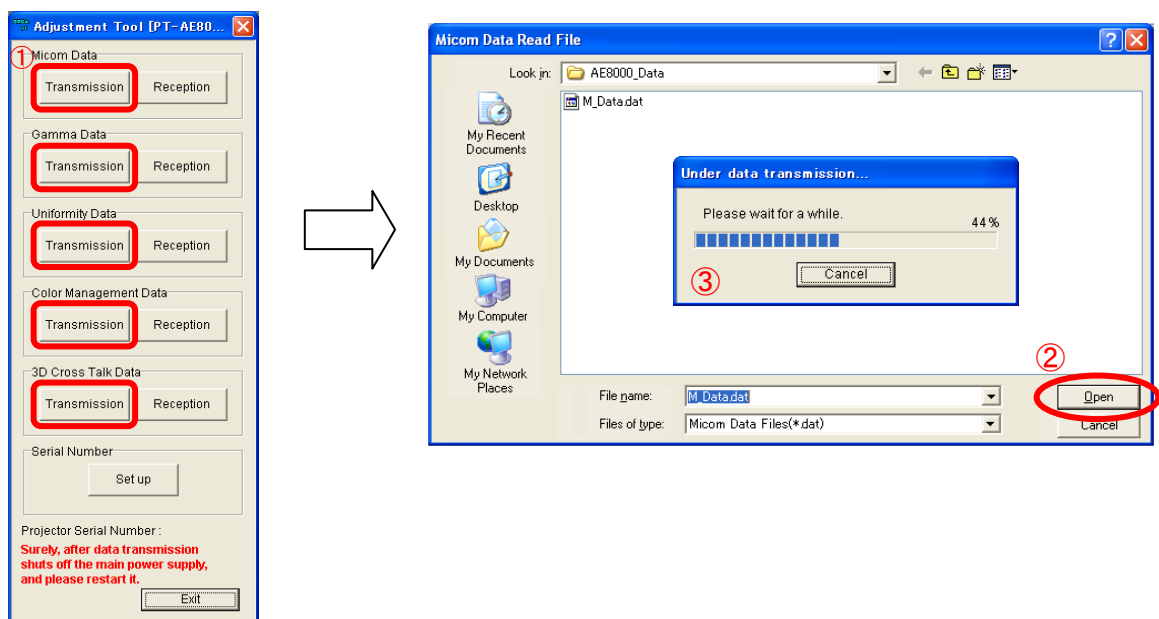


1. 2. 4. Restore the Backup EEPROM Data (After A-P.C.Board exchange)

1. Switch the projector to "Standby" mode (POWER indicator is Lighting in red).
2. Start up service software [Service ORCA11.exe] with a computer.
3. Select language and click the [OK] button.
4. 1) Select the Serial Port of the computer.
- 2) Select a model number.
- (Case of AT6000, select the AE8000.)
- 3) Click the [Data] button.



5. 1) Click the [Transmission] button of Micom Data.
- 2) Select the file and click the [OPEN] button.
- 3) When the progress bar reaches the right-side end, the transmission of data is completion.
- 4) Restore the each data in the same procedure as 1-3.



6. If the restoration of data is completed, turn the MAIN POWER off then MAIN POWER on.

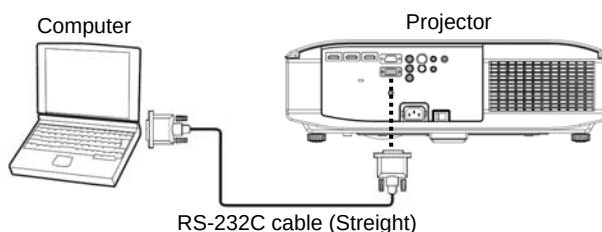
1. 3. Model Information Setup

1. 3. 1. Required equipments

1. PC : Use it as adjustment use.
2. Communication cable : D-sub 9pin (male/female RS-232C straight)
3. Software : [Service ORCA11.exe] Adjustment software is downloaded from the projector service homepage.

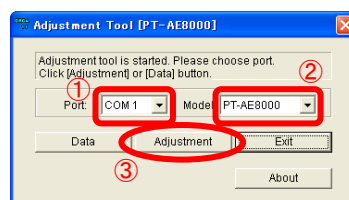
1. 3. 2. Preparation

1. Connect the RS-232C terminal of projector and PC with a RS-232C cable.

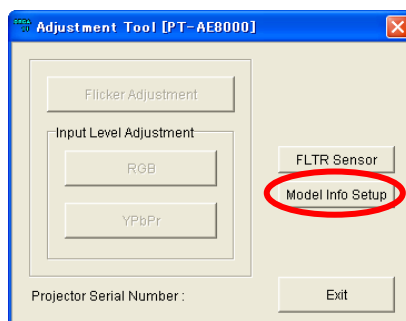


1. 3. 3. Setting method

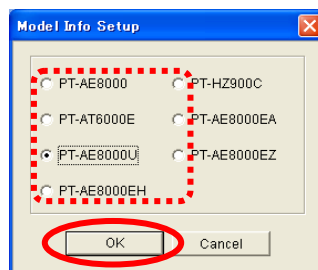
1. Switch the projector to "Standby" mode (POWER indicator is Lighting in red).
2. Start up service software [Service ORCA11.exe] with a computer.
3. Select language and click the [OK] button.
4. 1) Select the Serial Port of the computer.
2) Select a model number.
(Case of AT6000, select the AE8000.)
3) Click the [Adjustment] button.



5. Click the [Model Info Setup] button.



6. Put a checkmark in an applicable model, and click the [OK] button.



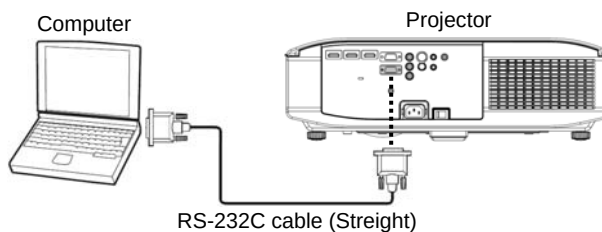
1. 4. Serial Number Setup

1. 4. 1. Required equipments

1. PC : Use it as adjustment use.
2. Communication cable : D-sub 9pin (male/female RS-232C straight)
3. Software : [Service ORCA11.exe] Adjustment software is downloaded from the projector service homepage.

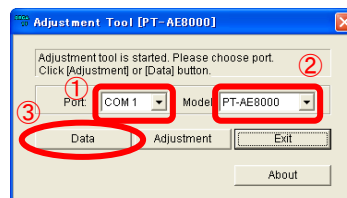
1. 4. 2. Preparation

1. Connect the RS-232C terminal of projector and PC with a RS-232C cable.

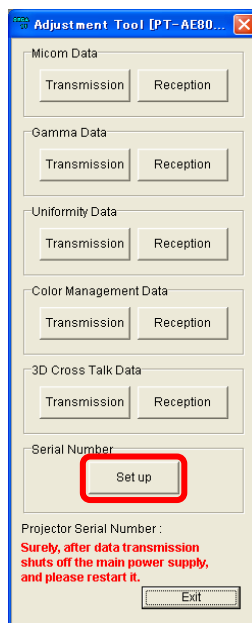


1. 4. 3. Setting method

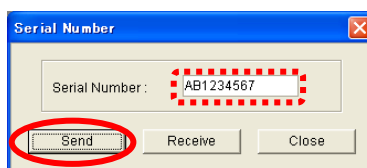
1. Switch the projector to "Standby" mode (POWER indicator is Lighting in red).
2. Start up service software [Service ORCA11.exe] with a computer.
3. Select language and click the [OK] button.
4. 1) Select the Serial Port of the computer.
2) Select a model number.
(Case of AT6000, select the AE8000.)
3) Click the [Data] button.



5. Click the [Set up] button of Serial Number.



6. Input the product serial number, and click the [Send] button.



1. 5. Clog Sensor Calibration

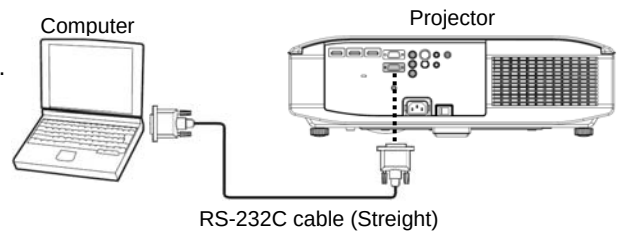
- * This operation should be done with the main body is completely assembled and set on the floor and the adjuster legs are set in the main body. (A state of Disassembly, cannot correct it.)
- * Install the projector so that cold air or hot air from air conditioners does not come in to direct contact with the air intake port or air exhaust port.
- * Please carry it out after "Data Transfer" of Micom Data.

1. 5. 1. Required equipments

1. PC : Use it as adjustment use.
2. Communication cable : D-sub 9pin (male/female RS-232C straight)
3. Software : [Service ORCA11.exe] Adjustment software is downloaded from the projector service homepage.

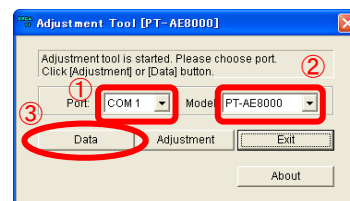
1. 5. 2. Preparation

1. Please clean the air filter before starting the steps.
The air filter should be replaced when cleaning is ineffective.
(If the filter is dirty and clogged, the correction may not be completed properly.)
2. Connect the RS-232C terminal of projector and PC with a RS-232C cable.

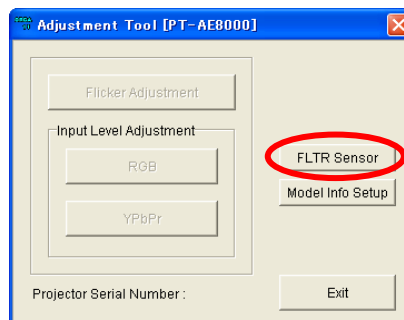


1. 5. 3. Adjustment method

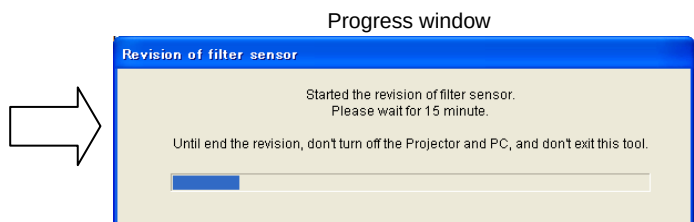
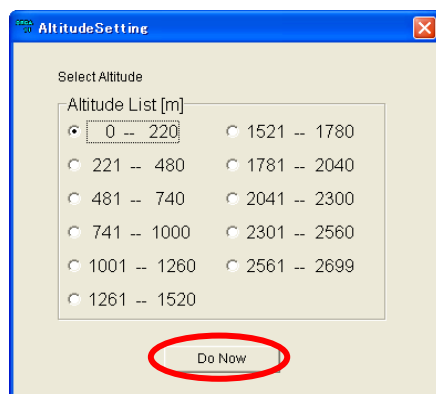
1. Push the power button of the projector and let a lamp turn on. (The signal input is unnecessary.)
 - * Push the INPUT SELECT button, and please stop "Auto-signal search".
2. Start up service software [Service ORCA11.exe] with a computer.
 - * Please close another software before using the "Service software".
3. Select language and click the [OK] button.
4. 1) Select the Serial Port of the computer.
2) Select a model number.
(Case of AT6000, select the AE8000.)
3) Click the [Adjustment] button.



5. Click the [FLTR Sensor] button.



6. Select the sea level height of the work place and click the [Do Now] button.



- * When error message is displayed,
1) Turn off the main power supply, and please turn on the main power supply again.
2) Please carry it out from 1 procedure once again.

7. In approx. 15 minutes, the "Sensor correction" window closes automatically and completes the correction.

- * Turn off the main power supply, and please turn on the main power supply again.

2. Microprocessor update procedure

- * The update is done by SERIAL terminal connection.
- * During update, prevent PC from going into stand-by or shut down.

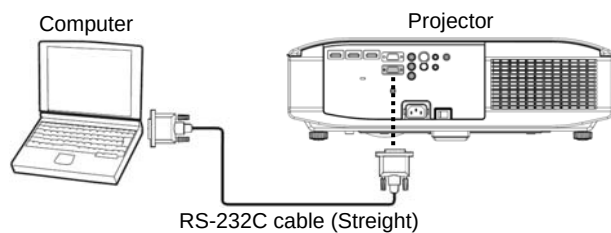
2. 1. Update by the SERIAL terminal connection

2. 1. 1. Equipment to be used

1. Computer : Use it for the transfer of update data.
2. Communication cable : D-sub 9pin (male/female RS-232C straight)
3. Firmware update tool : [PgSendORCA11.exe] Update tool is downloaded from the projector service homepage.
4. Microprocessor Software: Please download the file from the projector service homepage to the PC.

2. 1. 2. Preparation

1. Connect the RS-232C terminal of projector and PC with a RS-232C cable.

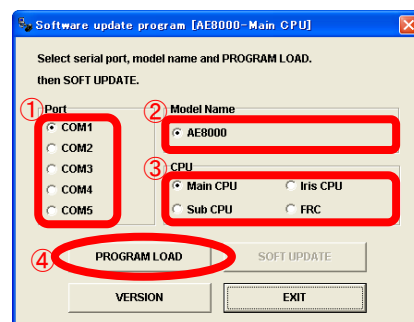


2. 1. 3. Update procedure

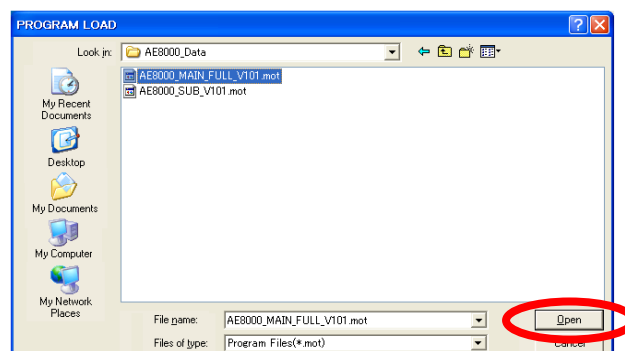
1. Switch the projector to "Standby" mode (POWER indicator is Lighting in red).
2. Start up firmware update tool [PgSendORCA11.exe] with a computer.
3. Select language and click the [OK] button.



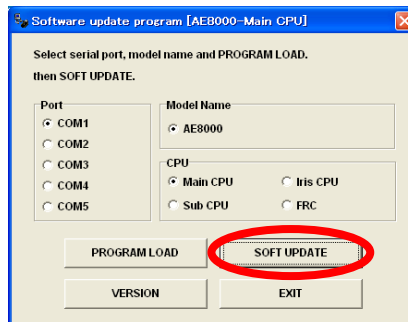
4. 1) Select the Serial Port of the computer.
2) Select the model number.
(Case of AT6000, select the AE8000.)
3) Select the CPU(Central Processing Unit) to update.
4) Click the [PROGRAM LOAD] button.



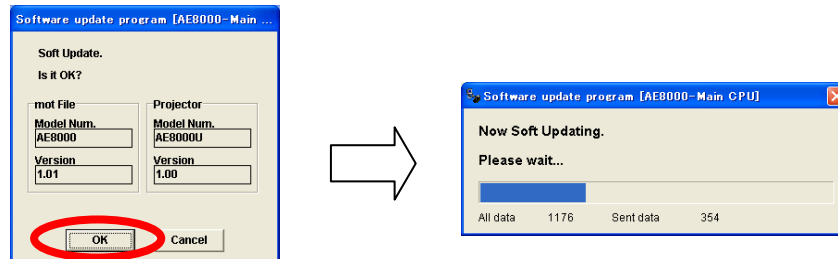
5. Appoint the microcomputer software that downloaded in a computer beforehand, and click the [Open] button.



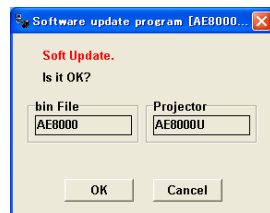
6. Click the [SOFT UPDATE] button.



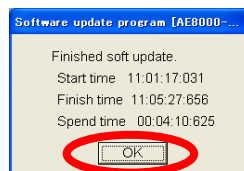
7. Click the [OK] button and start update.



* When updated the software of FRC(Frame Creation), a version is not displayed.

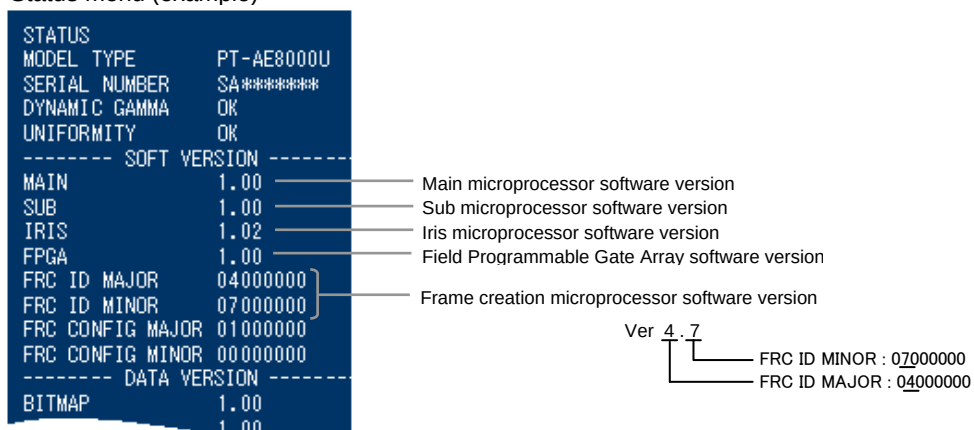


8. Click the [OK] button after completion message is displayed.



* Reboot Projector, and please confirm whether the version of the Microprocessor Software is updated definitely, with sub menu " STATUS " of the main menu " EXT OPTION " .

Status menu (example)



SECTION 4

< Schematic Diagram >

Model No. **PT-AE8000U**
PT-AT6000E
PT-AE8000EA / AE8000EH / AE8000EZ

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1. BLOCK DIAGRAM	DIA-2
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2. INTERCONNECTION BLOCK DIAGRAM	DIA-4
3. SCHEMATIC DIAGRAM	DIA-5
3.1. A -P.C.Board	
3.2. S / V / L -P.C.Board	
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4.1. A -P.C.Board	
4.2. S / V / L -P.C.Board	

Important Safety Notice

Components identified by the international symbol  have special characteristics important for safety. When replacing any of these components, use only the manufacturer's specified ones.

■ Notes

1. Resistor
All the resistors are carbon 1/4W resistors, unless marked as follows.
The unit of resistance is an OHM [Ω] (K=1 000 M=1 000000).

 : Nonflammable	 : Metal Oxide
 : Solid	 : Metal Film
 : Wire Wound	 : Fuse
2. Capacitor

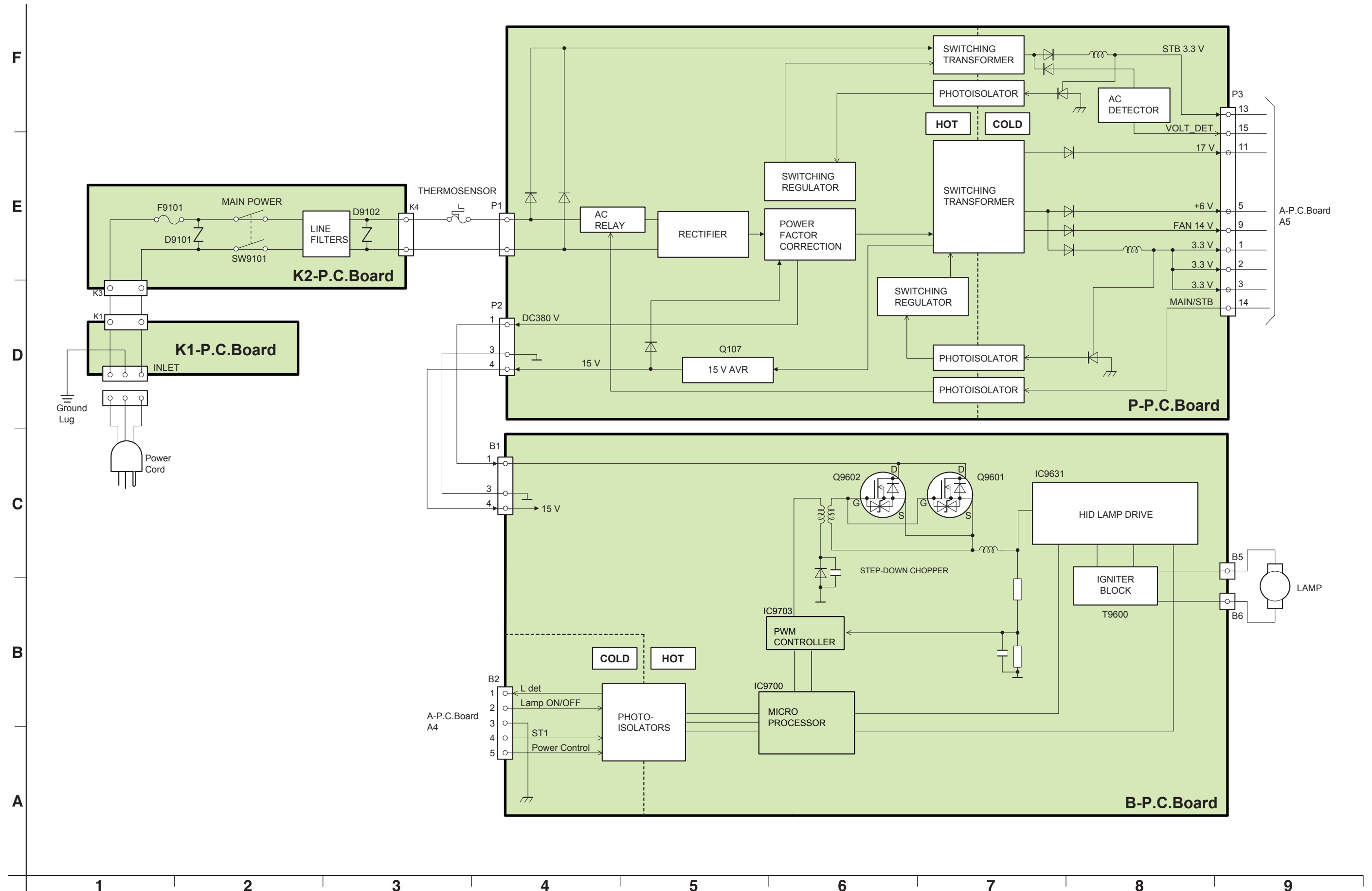
 : Temperature Compensation	 : Electrolytic
 : Polyester	 : Bipolar
 : Metalized Polyester	 : Dipped Tantalum
 : Polypropylene	 : Z-Type
3. Coil
The unit of inductance is a H, unless otherwise noted.
4. Test Point
 : Test Point
5. HOT and COLD indications
The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the precautions below:
6. This schematic diagram is the latest at the time of printing and the subject to change without notice.

■ Precautions

1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
3. 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.
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.
5. When ordering parts, please check the part number of the "Replacement Parts List".

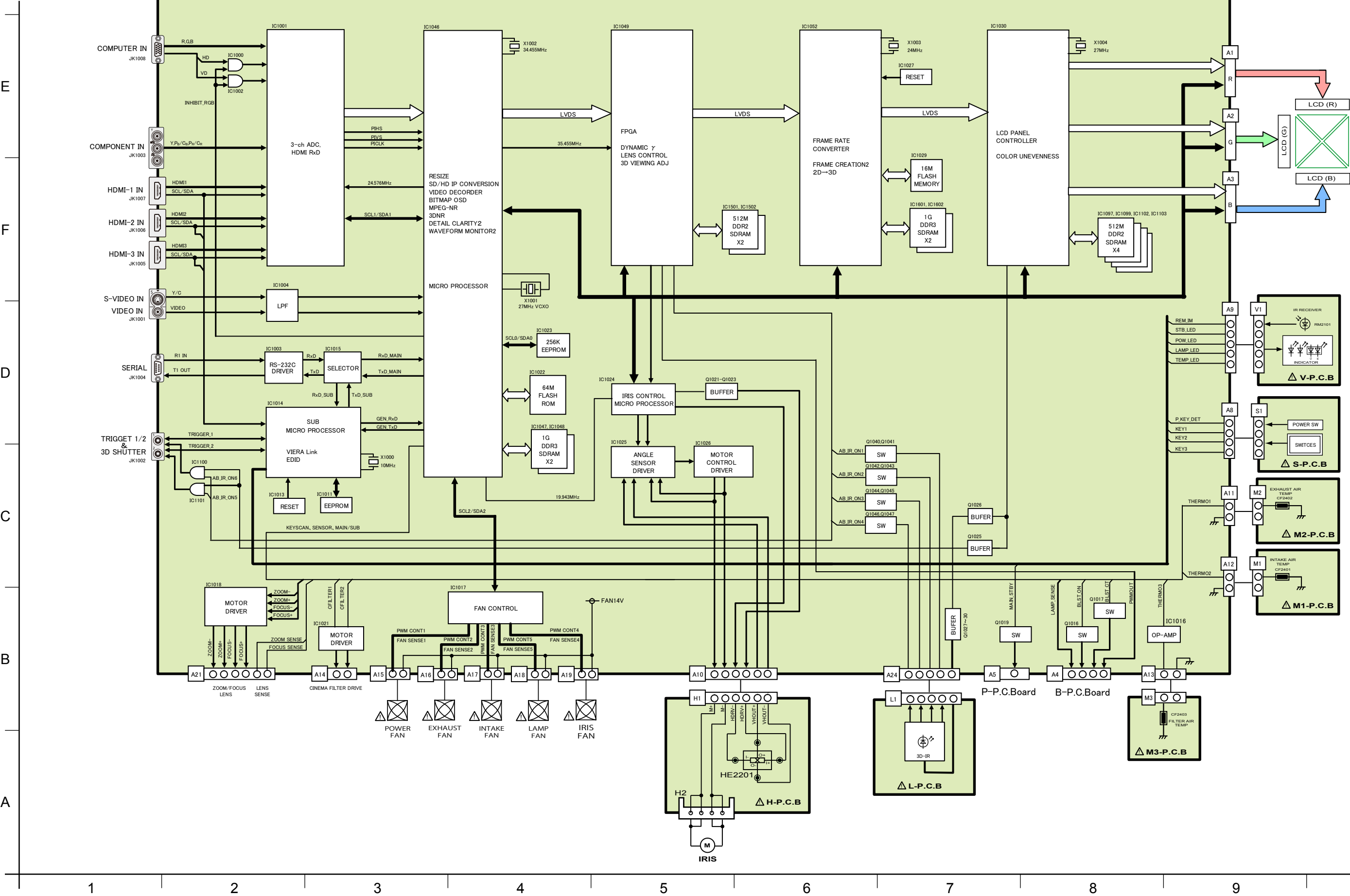
1. Block Diagram

1.1. Power Supply

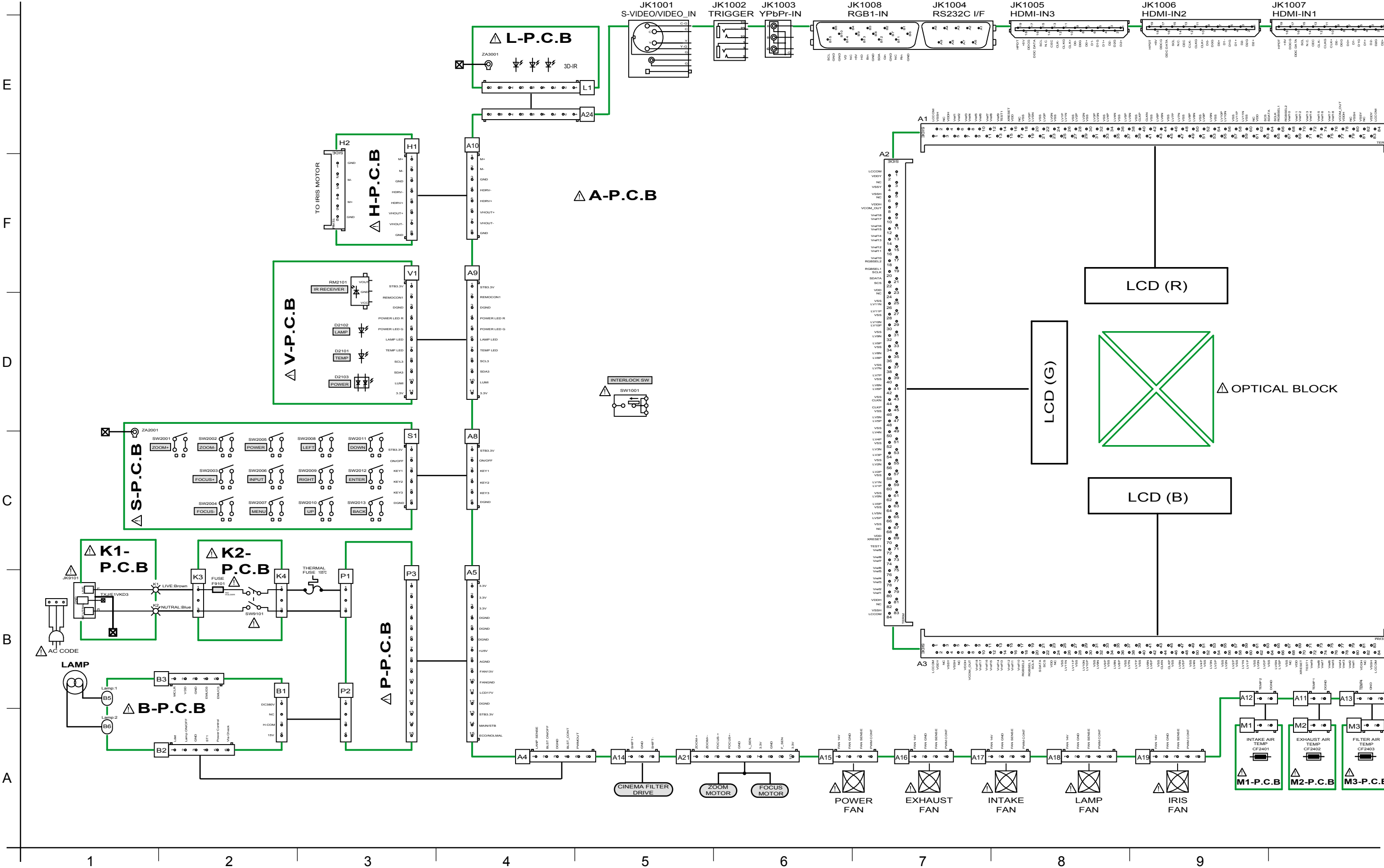


1. BLOCK DIAGRAM

1. 2. Signal Processing

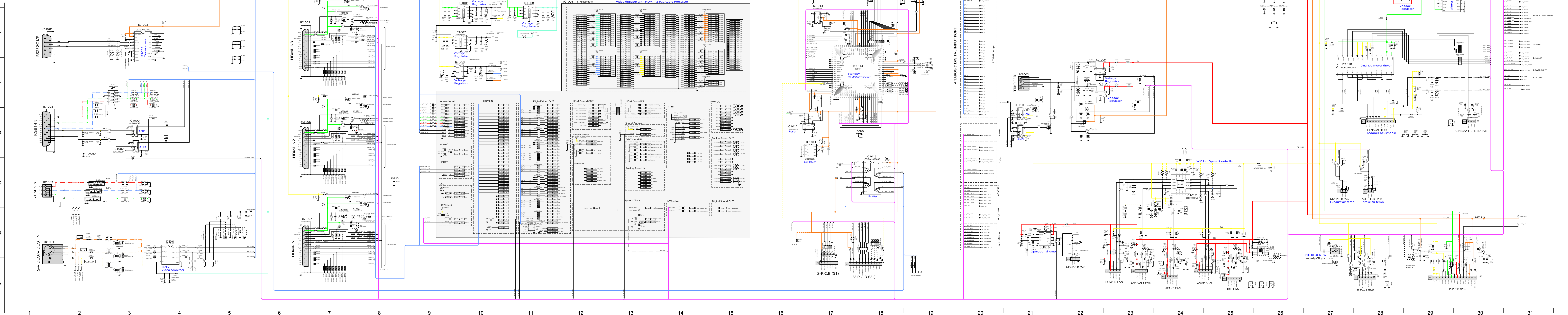


2. INTERCONNECTION BLOCK DIAGRAM

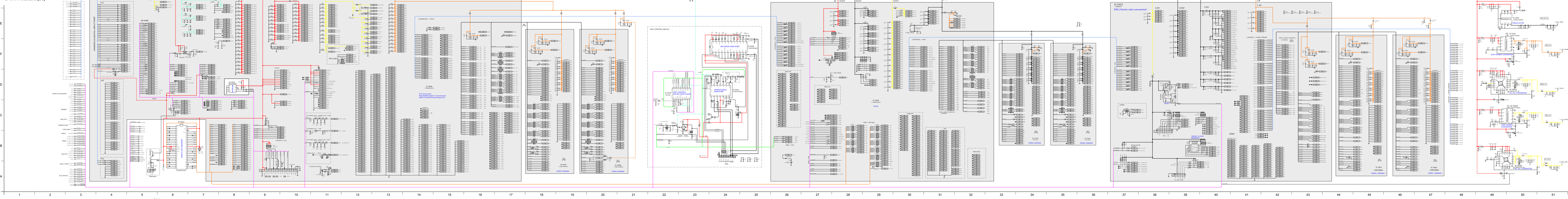


3. SCHEMATIC DIAGRAM

3. 1. A-P.C.Board (1/3)

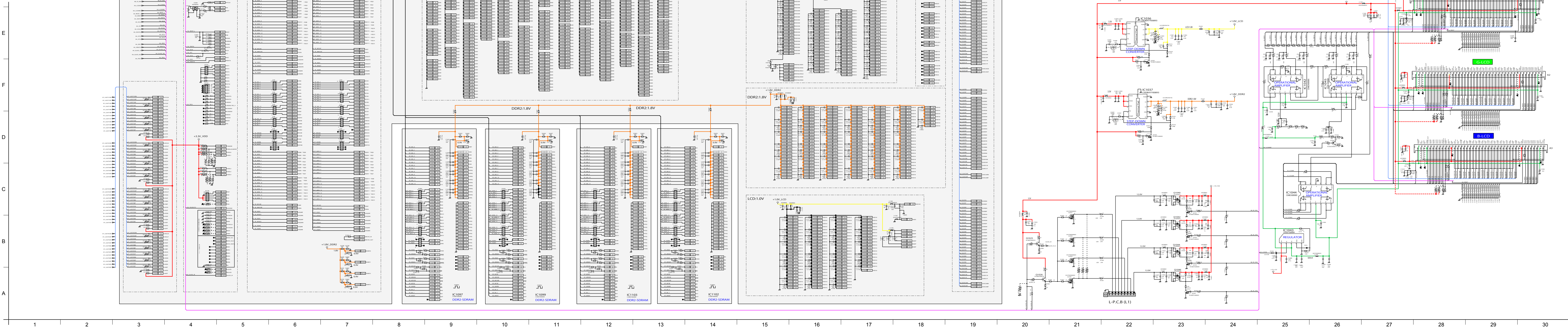


3. 1. A-P.C.Board (2/3)



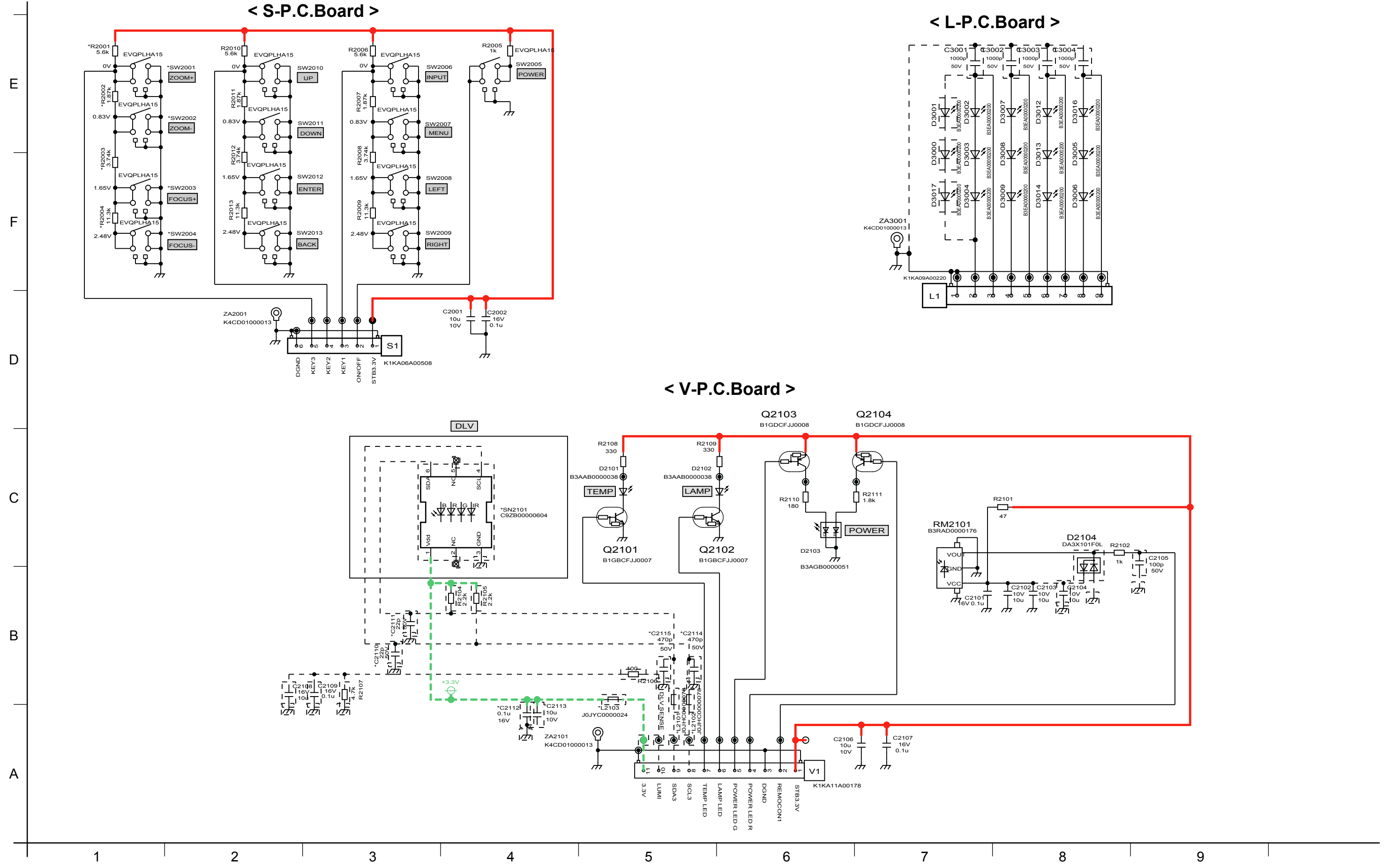
3. SCHEMATIC DIAGRAM

3. 1. A-P.C.Board (3/3)



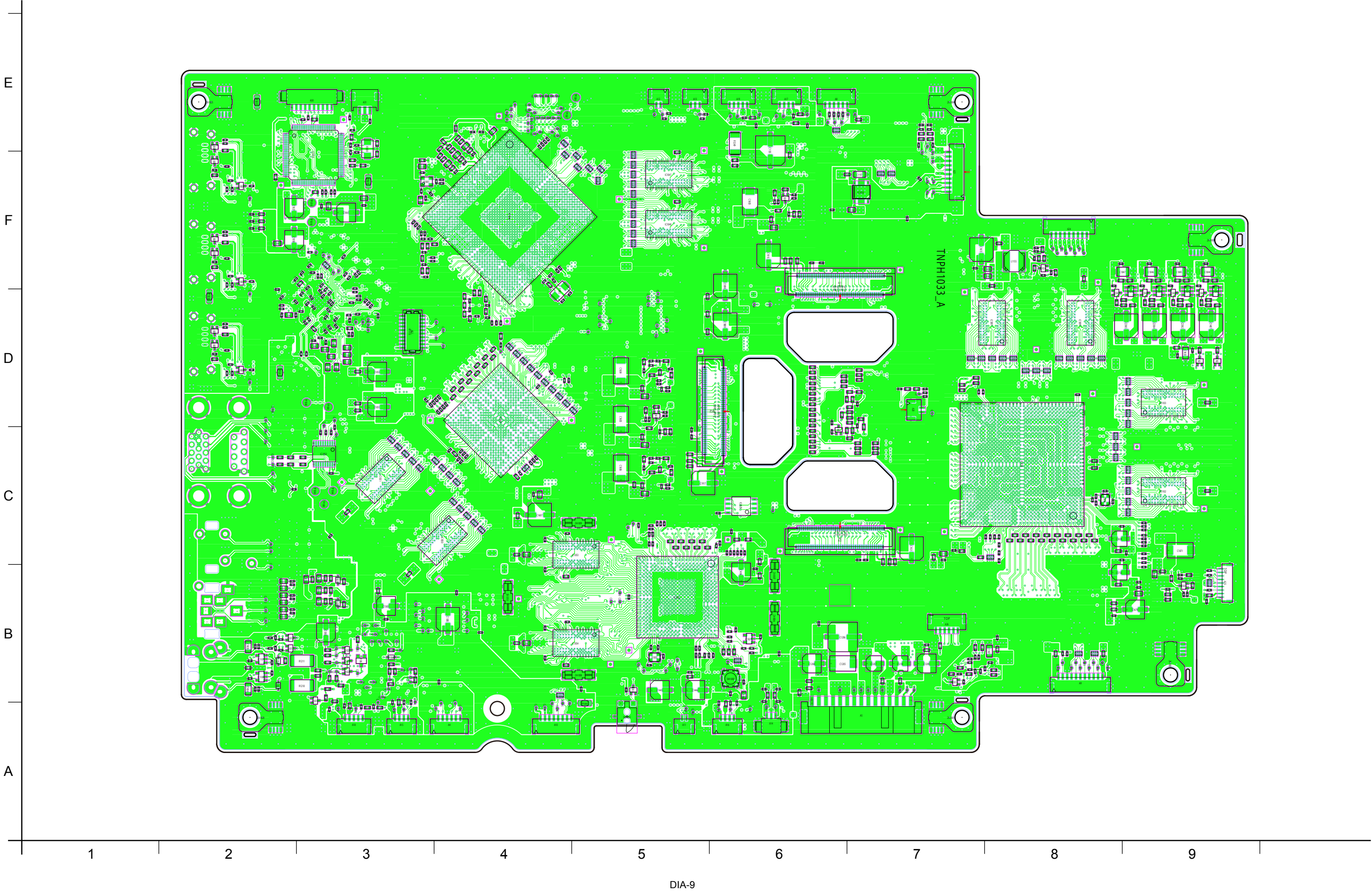
3. SCHEMATIC DIAGRAM

3. 2. S-P.C.Board / L-P.C.Board / V-P.C.Board



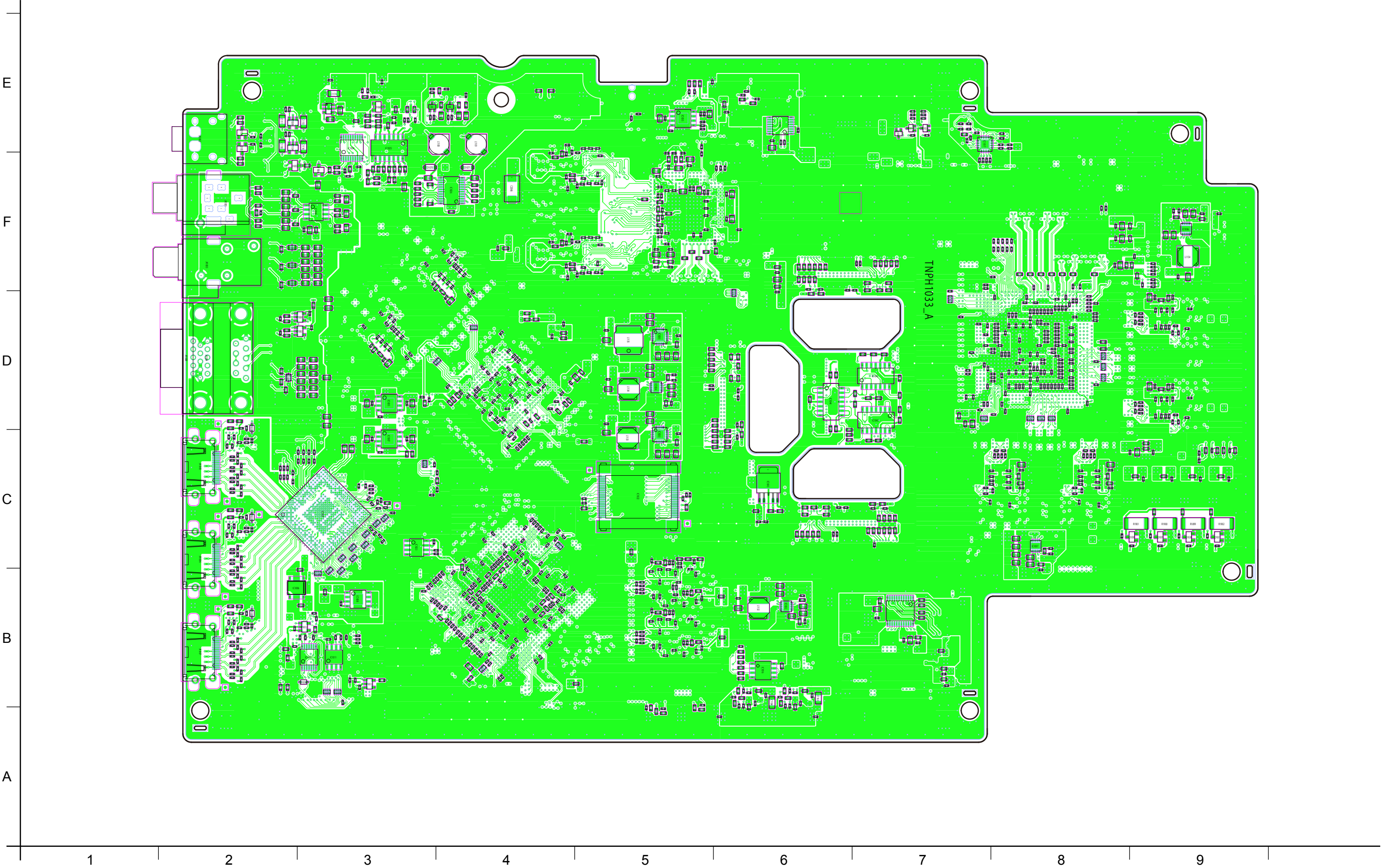
4. CIRCUIT BOARDS DIAGRAM

4. 1. A-P.C.Board (A_Side)



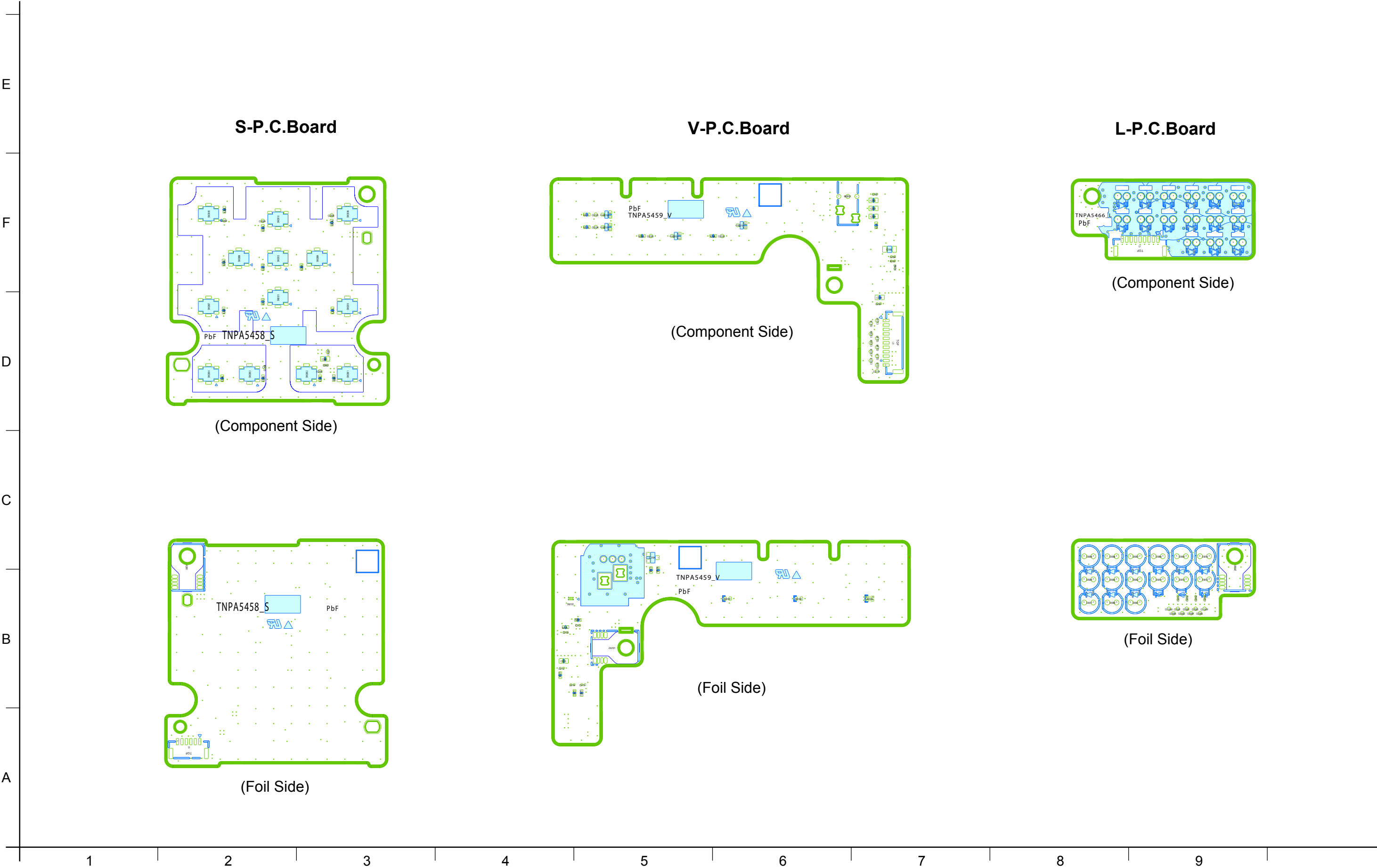
4. CIRCUIT BOARDS DIAGRAM

4. 1. A-P.C.Board (B_Side)



4. CIRCUIT BOARDS DIAGRAM

4. 2. S-P.C.Board / V-P.C.Board / L-P.C.Board



SECTION 5

< Exploded Views & Parts List >

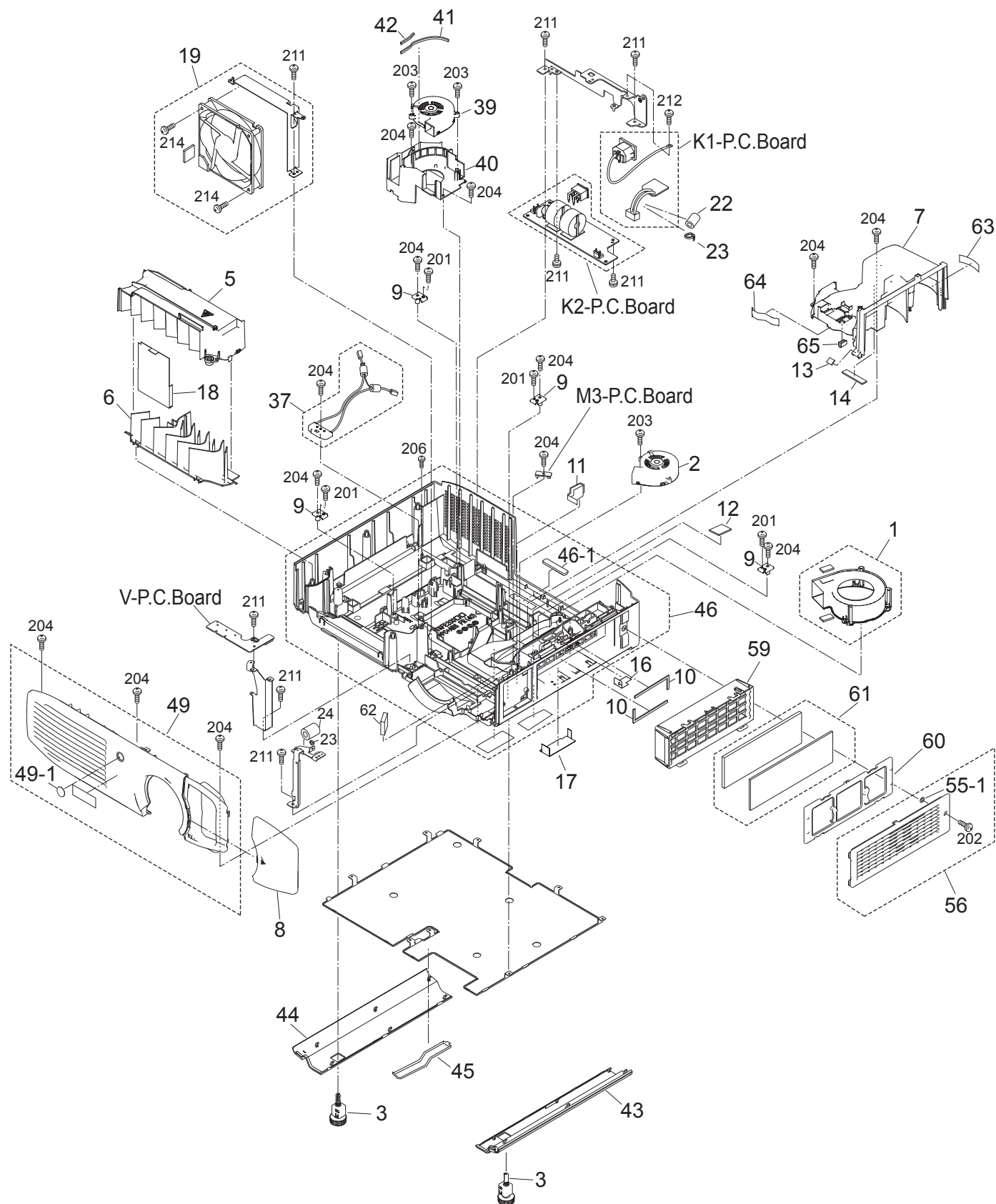
Model No. PT-AE8000U
PT-AT6000E
PT-AE8000EA / AE8000EH / AE8000EZ

CONTENTS

1. Exploded Views	SPL-2
1. 1. Parts Location	
1. 2. Packing Parts	
2. Replacement Parts List	SPL-6

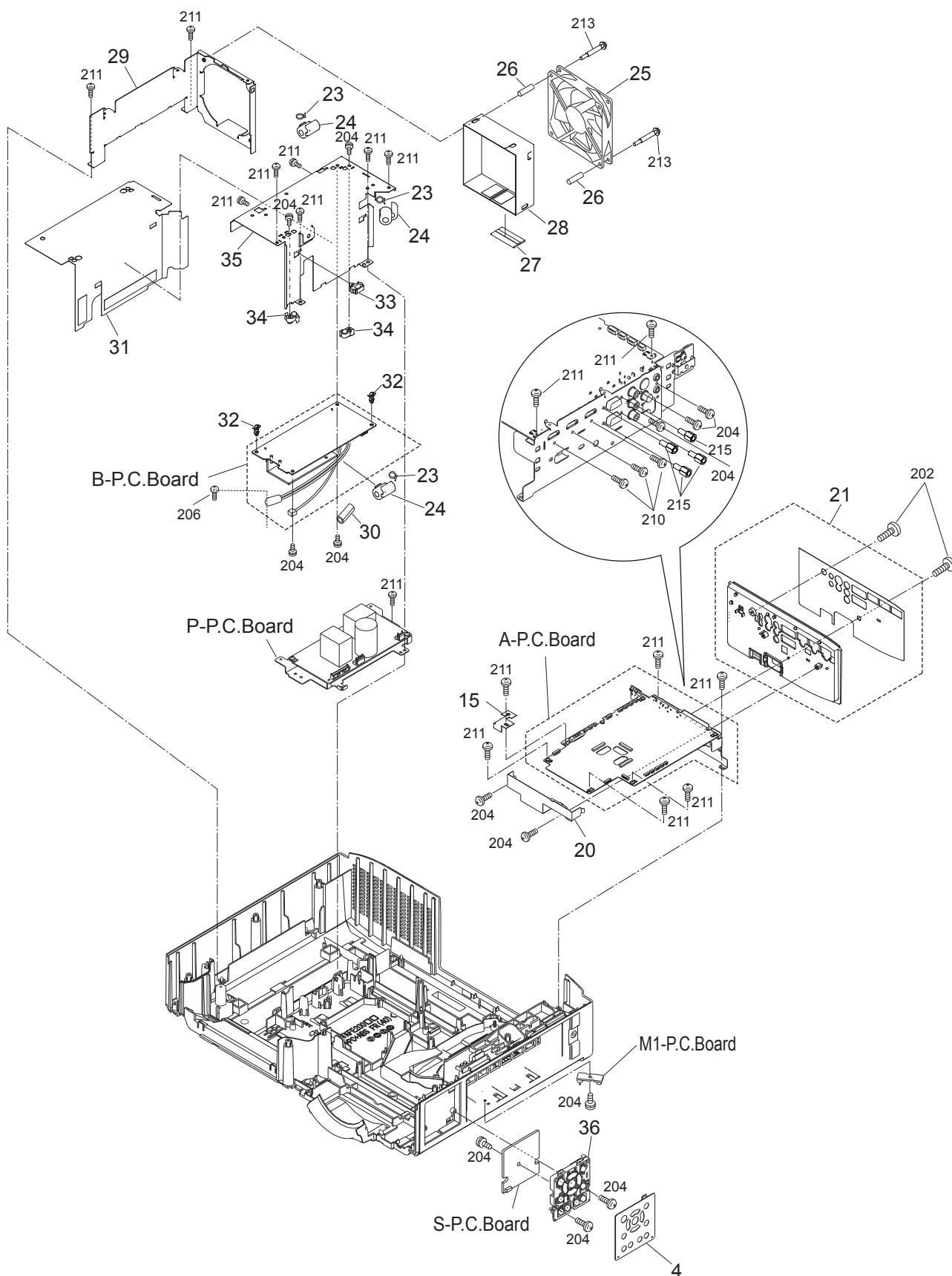
1. Exploded Views

1.1. Part Location (1/3)



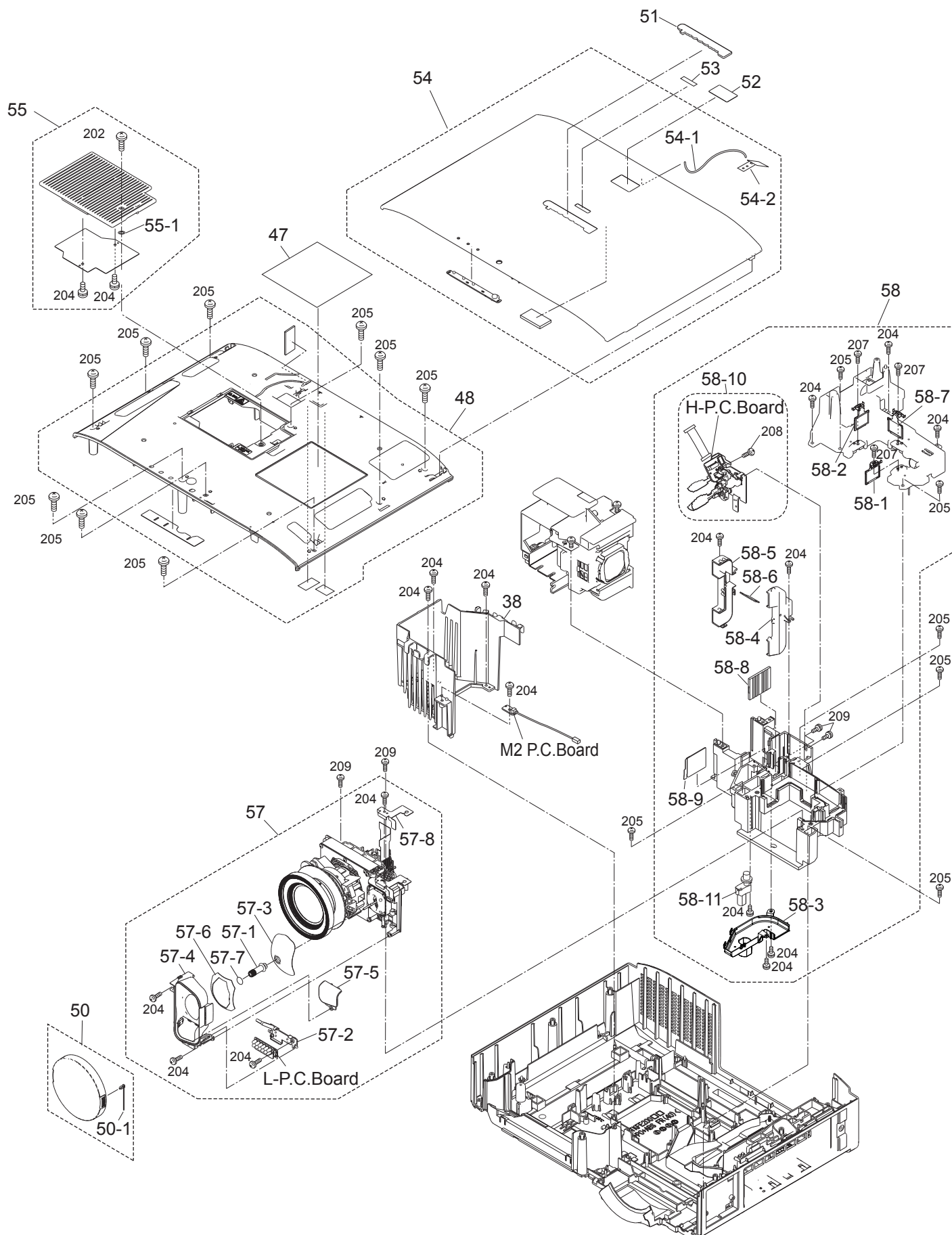
1. Exploded Views

1.1. Part Location (2/3)

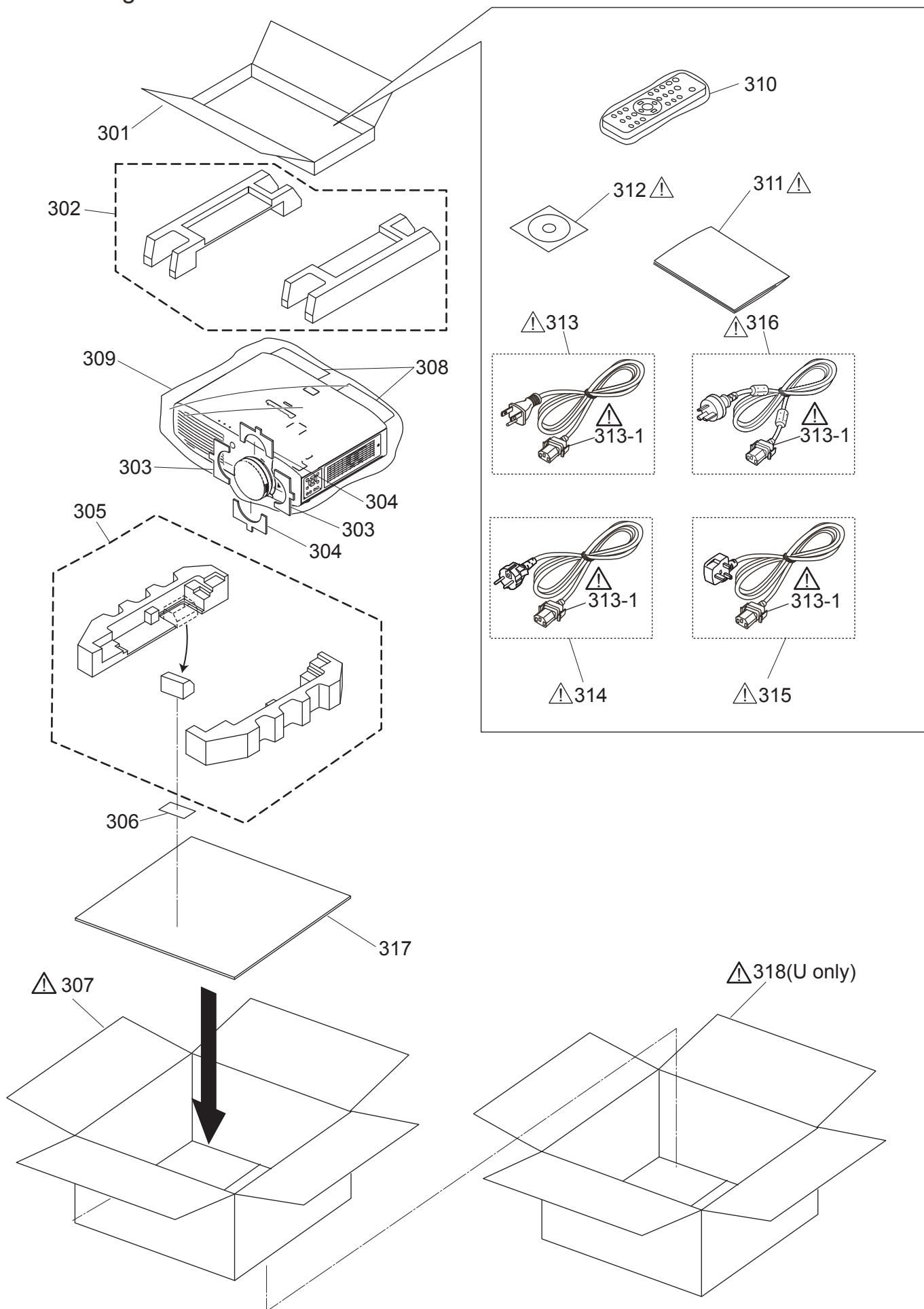


1. Exploded Views

1.1. Part Location (3/3)



1.2. Packing Parts



2. Replacement Parts List

Important Safety Notice

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

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

TYPE	ALLOWANCE
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide	J : $\pm 5\%$
Metal Film	K : $\pm 10\%$
S : Solid	M : $\pm 20\%$
W : Wire Wound	

2. Capacitor

Example:

ECKF1H103ZF C 0.01PF, Z, 50V

TYPE	ALLOWANCE
C : Ceramic	C : $\pm 0.25\text{ pF}$
E : Electrolytic	D : $\pm 0.5\text{ pF}$
P : Polyester	F : $\pm 1\text{ pF}$
PP : Polypropylene	J : $\pm 5\%$
S : Polystyrol	K : $\pm 10\%$
T : Tantalum	L : $\pm 15\%$
	M : $\pm 20\%$
	P : $+100\%, -0\%$
	Z : $+80\%, -20\%$

Notes:

Printed circuit board assembly with mark (RTL) is no longer available after production discontinuation of the complete set.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
					⚠ 46	TTFA0288	FRAME SUB ASSY	1	
		MECHANICAL PARTS			46-1	TBLG3090	RUBBER LEG (REAR)	1	
⚠ 1	TXFMK01THHZ	INTAKE FAN ASSY	1	Please order with 63,64	⚠ 47	TQFX301	LAMP EXCHANGE LABEL	1	
⚠ 2	L6FCYYYYH0071	IRIS FAN	1	Please order with 63,64	⚠ 48	TTFA0289	TOP COVER	1	
3	TBLB0095	ADJUSTER LEG	2		⚠ 49	TXFKF03THHZ	FRONT COVER ASSY	1	
4	TBMV292	OPERATION SHEET	1		49-1	TKKC5431	REMOTE CONTROL RECEIVER	1	
⚠ 5	TEEC5512	EXHAUST DUCT 1	1		50	TXFKK01THHZ	LENS CAP ASSY	1	
6	TEEC5513	EXHAUST DUCT 2	1		50-1	TKKX5109	LENS CAP STRAP	1	
7	TEEC5557	INTAKE DUCT	1	Please order with 63,64	51	TBMA449	PANASONIC BADGE	1	
8	TXFCA01THHZ	SHIFT COVER	1		52	TBMA450	3D LOGO BADGE	1	
9	TKZX5273	CEILING MOUNT BOSS METAL	4		53	TQFX302	MODEL NO. LABEL	1	
10	TMKH448	FILTER BASE SPONGE C	2		53	TQFX310	MODEL NO. LABEL	1	AT6000E
11	TMKH440	DUST SPONGE 4	1		54	TTFA0291	TOP PANEL SUB ASSY	1	
12	TMKH443	DUST SPONGE 7	1		54-1	TMKB241	HOOK STRING	1	
13	TMKH444	DUST SPONGE 8	1		54-2	TMKZ419	TOP PANEL HOOK	1	
14	TMKH445	VIBRATION PROOF SPONGE	1		⚠ 55	TXFKP02THHZ	LAMP COVER ASSY	1	
15	TMKZ406	WIRE PROTECTION SHEET	1		55-1	TMKZ420	WASHER	2	
16	TMKZ414	WIRE PROTECTION SHEET 2	1		⚠ 56	TXFMZ01THHZ	FILTER COVER ASSY	1	
17	TMKZ417	DUST SHEET	1		⚠ 57	TXFEC01THHZA	OPTICAL BLOCK A	1	*
18	TUCB5233	POWER BOX COVER METAL	1		⚠ 57	TXFEC01THHZA	OPTICAL BLOCK B	1	*
⚠ 19	TXAKZ01THHZ	EXHAUST FAN ASSY	1		57-1	TEEC5534	SHIFT LEVER	1	
20	TMKZ413	SHADING SHEET	1		57-2	TEEC5502	LED FIX TOOL	1	
⚠ 21	TTPA0586	TERMINAL COVER ASSY	1		57-3	TKYA47901	LENS SHIFT MASK	1	
22	6450856051	CLAMP CORE	1		57-4	TKYA48001	LED COVER	1	
23	6450027888	CLAMP	5		57-5	TKYA48101	LED COVER PLATE	1	
24	9450033835	CORE	4		57-6	TMKH438	MASK SHEET	1	
⚠ 25	L6FAYYYH0181	POWER FAN	1		57-7	TMKZ423	SHIFTCAP	1	
26	TUXK087	FAN SLEEVE	2		57-8	TMKZ415	WIRE PROTECTION SHEET 3	1	
27	TEWB898	GASKET	1		58	TXFEC02THHZ	ANALYSIS BLOCK	1	
28	TMKZ409	EXHAUST FAN EMC SHEET	1		58-1	TENC0192	POLARIZING PLATE / IN R	1	
29	TKZJ5102	POWER METAL	1		58-2	TENC0191	POLARIZING PLATE / IN B	1	
30	TMKH439	DUST SPONGE 3	1		58-3	TEEC5558	IRIS DUCT	1	
⚠ 31	TMKZ410	POWER INSULATION SHEET	1		58-4	TEEC5503	LAMP DUCT L	1	
32	TMME279	CIRCUIT BOARD SPACER	2		58-5	TEEC5504	LAMP DUCT R	1	
33	TMME363	CLAMP	1		58-6	TENC5689	LAMP AIR GUIDE A	1	
34	TMXE054	PWB TOOL	2		58-7	TENC0193	POLARIZING PLATE / IN G	1	
35	TUXX731	BALLAST METAL	1		58-8	TKGP5494	PBS ARRAY	1	
36	TBXA58001	OPERATION BUTTON	1		58-9	TXZEC04THHZ	CINEMA FILTER ASSY	1	
⚠ 37	TXFEE01RWDZ	K4-P1 CABLE ASSY	1	with THERMAL FUSE	58-10	TXZEN02RWDZ	IRIS UNIT ASSY	1	
⚠ 38	TEEC5492-1	LAMP HOUSE	1		⚠ 58-11	TEKH031	GEARED MOTOR	1	
⚠ 39	L6FCYYYYH0070	LAMP FAN	1		59	TMZX5200	FILTER CASE B	1	
40	TEEC5494	LAMP DUCT BASE	1		60	TEEC5489-1	CARTRIGE CASE	1	
41	TMKH436	DUST SPONGE 1	1		⚠ 61	TXFKN01RYNZP	FILTER UNIT	1	
42	TMKH437	DUST SPONGE 2	1		62	TMKH527	DUST SPONGE 12	1	
⚠ 43	TKFE20201A	BOTTOM COVER R	1		63	TMKH528	DUCT SHEET 1	1	
⚠ 44	TKFE20301A	BOTTOM COVER L	1		64	TMKH529	DUCT SHEET 2	1	
⚠ 45	TKFE23001	BOTTOM COVER C	1		65	TMKH530	DUCT SHEET 3	1	

* Please confirm described No. on flexible cable of LCD panel (G). L3C07U-96G00 → Select "Type A" of optical block. L3C07U-95G00 → Select "Type B" of optical block.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1084	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1085	F1J1A106A043	CERAMIC 10U K	1	
C1086	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1087	F1J1A106A043	CERAMIC 10U K	1	
C1088-99	F1G1C104A077	CERAMIC 0.1U K 16V	12	
C1108,09	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1110,11	F1K1C106A116	CERAMIC 10U K	2	
C1112	F1H1C105A008	CERAMIC 1U Z	1	
C1113,14	F1K1C4750023	CERAMIC 4.7U K	2	
C1115	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1116	F1H1H562A219	CERAMIC 5600P K 50V	1	
C1117	F1H1A105A036	CERAMIC 1U K 10V	1	
C1118	F1H1A1050029	CERAMIC 1U Z 10V	1	
C1119	F1H1A225A051	CERAMIC 2.2U K 10V	1	
C1120	F1H1A1050029	CERAMIC 1U Z 10V	1	
C1121	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1123	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1124,25	F1H1A1050029	CERAMIC 1U Z 10V	2	
C1126	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1127-29	F1H1A1050029	CERAMIC 1U Z 10V	3	
C1132,33	F1H1H100A831	CERAMIC 10P D 50V	2	
C1134	F1H1H151A792	CERAMIC 150P J 50V	1	
C1136	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1137	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1138	F1G1H471A541	CERAMIC 470P J 50V	1	
C1140	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1141	F1G1C104A085	CERAMIC 0.1U K	1	
C1143-45	F1G1H331A541	CERAMIC 330P J 50V	3	
C1146,47	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1149	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1151	F1G1H331A541	CERAMIC 330P J 50V	1	
C1152	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1153,54	F1G1H331A541	CERAMIC 330P J 50V	2	
C1156,57	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1159	F1G1H331A541	CERAMIC 330P J 50V	1	
C1160	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1161,62	F1G1H331A541	CERAMIC 330P J 50V	2	
C1163	F1K1C106A116	CERAMIC 10U K	1	
C1164,65	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1167	F1K1C106A116	CERAMIC 10U K	1	
C1168,69	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1171-73	F1G1H331A541	CERAMIC 330P J 50V	3	
C1174	F1K1C106A116	CERAMIC 10U K	1	
C1175,76	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1178	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1180-82	F1G1H331A541	CERAMIC 330P J 50V	3	
C1183	F1H1A225A051	CERAMIC 2.2U K 10V	1	
C1184	F1K1C106A116	CERAMIC 10U K	1	
C1185	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1187	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1188	F1G1H471A541	CERAMIC 470P J 50V	1	
C1189	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1191	F1G1H471A541	CERAMIC 470P J 50V	1	
C1192	F1J1A106A043	CERAMIC 10U K	1	
C1193	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1194	F1G1H152A571	CERAMIC 1500P K	1	
C1195	F1J1A106A043	CERAMIC 10U K	1	
C1196	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1197	F1K1C106A116	CERAMIC 10U K	1	
C1198	F1J0J106A020	CERAMIC 10U K 6.3V	1	
C1199	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1200	F1H1A225A051	CERAMIC 2.2U K 10V	1	
C1201	F1G1C1030008	CERAMIC 0.01U K	1	
C1202,03	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1204	F2G0G1010017	ELECT 100U M 4V	1	
C1206	F2G1A101A029	ELECT 100U M 10V	1	
C1207	F2G1E4R70007	ELECT 4.7U M 25V	1	
C1208	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1209	F2G0G1010017	ELECT 100U M 4V	1	
C1210	F2G1E4R70007	ELECT 4.7U M 25V	1	
C1211	F1H1A225A051	CERAMIC 2.2U K 10V	1	
C1212	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1213	F1G1H1020008	CERAMIC 1000P K 50V	1	
C1214	F1G1H471A541	CERAMIC 470P J 50V	1	
C1215	F1J0J106A020	CERAMIC 10U K 6.3V	1	
C1216	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1217	F1G1H471A541	CERAMIC 470P J 50V	1	
C1218	F1G1C1030008	CERAMIC 0.01U K	1	
C1220	F1G1H102A808	CERAMIC 1000P J	1	
C1221,22	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1223-27	F1J1A106A043	CERAMIC 10U K	5	
C1228	F1G1C1030008	CERAMIC 0.01U K	1	
C1229-31	F1G1C104A077	CERAMIC 0.1U K 16V	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1232	F1H1A225A051	CERAMIC 2.2U K 10V	1	
C1233	F1G1H220A541	CERAMIC 22P J 50V	1	
C1234	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1235	F1G1H1020008	CERAMIC 1000P K 50V	1	
C1236	F1G1H560A541	CERAMIC 56P J 50V	1	
C1237-39	F1G1C104A077	CERAMIC 0.1U K 16V	3	
C1240	F1H1H153A219	CERAMIC 0.015U K 50V	1	
C1241	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1242	F1H1H151A792	CERAMIC 150P J 50V	1	
C1243-63	F1G1C104A077	CERAMIC 0.1U K 16V	21	
C1265-75	F1G1C104A077	CERAMIC 0.1U K 16V	11	
C1276	F1H1H1010005	CERAMIC 100P J 50V	1	
C1277-87	F1G1C104A077	CERAMIC 0.1U K 16V	11	
C1288	F1G1H390A541	CERAMIC 39P J 50V	1	
C1289	F1G1H102A808	CERAMIC 1000P J	1	
C1290	F1G1H220A541	CERAMIC 22P J 50V	1	
C1291	F1G1H100A541	CERAMIC 10P J 50V	1	
C1292	F1G1H121A541	CERAMIC 120P J	1	
C1293	F1G1H120A789	CERAMIC 12P J 50V	1	
C1294	F1G1H102A808	CERAMIC 1000P J	1	
C1295	F1G1H390A541	CERAMIC 39P J 50V	1	
C1296	F1G1H4710004	CERAMIC 470P K 50V	1	
C1297-08	F1G1C104A077	CERAMIC 0.1U K 16V	12	
C1310	F1G1H390A541	CERAMIC 39P J 50V	1	
C1313-77	F1G1C104A077	CERAMIC 0.1U K 16V	65	
C1378	F1G1H220A541	CERAMIC 22P J 50V	1	
C1379	F1H1A1050029	CERAMIC 1U Z 10V	1	
C1380	F2G0J4700010	ELECT 47U M 6.3V	1	
C1381,82	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1383	F2G0J4700010	ELECT 47U M 6.3V	1	
C1384	F1H1C105A008	CERAMIC 1U Z	1	
C1385	F2G1E3300010	ELECT 33U M 25V	1	
C1386,87	F1H1C105A008	CERAMIC 1U Z	2	
C1388	F1H1H221A792	CERAMIC 220P J 50V	1	
C1389	F1H1C105A008	CERAMIC 1U Z	1	
C1390	F1H1H8210002	CERAMIC 820P K 50V	1	
C1391	F1H1H152A219	CERAMIC 1500P K 50V	1	
C1392	F1H1H472A219	CERAMIC 4700P K 50V	1	
C1393	F1H1C105A008	CERAMIC 1U Z	1	
C1394	F1H1H332A219	CERAMIC 3300P K 50V	1	
C1395,96	F1H1C105A008	CERAMIC 1U Z	2	
C1397,98	F1J1C224A104	CERAMIC 0.22U K	2	
C1399,00	F1H1C474A008	CERAMIC 0.47U Z 16V	2	
C1401	F1G1H560A541	CERAMIC 56P J 50V	1	
C1403	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1404	F1J1A106A043	CERAMIC 10U K	1	
C1405-42	F1G1C104A077	CERAMIC 0.1U K 16V	38	
C1443	F1G1C1030008	CERAMIC 0.01U K	1	
C1444	F1J0J106A020	CERAMIC 10U K 6.3V	1	
C1445,46	F2G0G1010017	ELECT 100U M 4V	2	
C1447	F1G1H331A541	CERAMIC 330P J 50V	1	
C1448	F1J1A106A043	CERAMIC 10U K	1	
C1449-60	F1G1C104A077	CERAMIC 0.1U K 16V	12	
C1461	F1J1A106A043	CERAMIC 10U K	1	
C1462-73	F1G1C104A077	CERAMIC 0.1U K 16V	12	
C1475	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1476	F1G1C1030008	CERAMIC 0.01U K	1	
C1481	F1G1H120A789	CERAMIC 12P J 50V	1	
C1482	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1483	F1G1H100A541	CERAMIC 10P J 50V	1	
C1484-86	F1G1C104A077	CERAMIC 0.1U K 16V	3	
C1487	F2G1C4700014	ELECT 47U M 16V	1	
C1488-95	F1G1C104A077	CERAMIC 0.1U K 16V	8	
C1496	F2G0J4700010	ELECT 47U M 6.3V	1	
C1497-05	F1J0J106A020	CERAMIC 10U K 6.3V	9	
C1506-62	F1G1C104A077	CERAMIC 0.1U K 16V	57	
C1564-67	F1J1A106A043	CERAMIC 10U K	4	
C1568	F1G1H4700003	CERAMIC 47P J 50V	1	
C1569-72	F1J1A106A043	CERAMIC 10U K	4	
C1573	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1574,75	F1G1C1030008	CERAMIC 0.01U K	2	
C1576	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1578	F1G1H331A541	CERAMIC 330P J 50V	1	
C1583	F1G1H331A541	CERAMIC 330P J 50V	1	
C1584	F1G1H220A541	CERAMIC 22P J 50V	1	
C1585	F1G1H1020008	CERAMIC 1000P K 50V	1	
C1586	F1G1H220A541	CERAMIC 22P J 50V	1	
C1587	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1589-92	F1J0J2260004	CERAMIC 22U M 6.3V	4	
C1593	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1594-97	F1J0J2260004	CERAMIC 22U M 6.3V	4	
C1598	F1J0J106A020	CERAMIC 10U K 6.3V	1	
C1599-02	F1J0J2260004	CERAMIC 22U M 6.3V	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1603-06	EEFCX0D221R	EEFCX0D221R	4	
C1607	F2G0G2210009	ELECT 220U M 4V	1	
C1608-11	F1J0J2260004	CERAMIC 22U M 6.3V	4	
C1612	F1J1A106A043	CERAMIC 10U K	1	
C1613-17	F1G1C104A077	CERAMIC 0.1U K 16V	5	
C1618,19	F1G1H100A541	CERAMIC 10P J 50V	2	
C1620-23	F1G1C104A077	CERAMIC 0.1U K 16V	4	
C1624	F1J1A106A043	CERAMIC 10U K	1	
C1625-36	F1G1C104A077	CERAMIC 0.1U K 16V	12	
C1637	F1J1A106A043	CERAMIC 10U K	1	
C1638-49	F1G1C104A077	CERAMIC 0.1U K 16V	12	
C1650	F1J1A106A043	CERAMIC 10U K	1	
C1651-62	F1G1C104A077	CERAMIC 0.1U K 16V	12	
C1663	F1J1A106A043	CERAMIC 10U K	1	
C1664-75	F1G1C104A077	CERAMIC 0.1U K 16V	12	
C1676	F1G1H1020008	CERAMIC 1000P K 50V	1	
C1677	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1678	F1J1A106A043	CERAMIC 10U K	1	
C1679	F2G0G1010017	ELECT 100U M 4V	1	
C1680	F1J1A106A043	CERAMIC 10U K	1	
C1681,82	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1683	F1G1H221A571	CERAMIC 220P K	1	
C1684,85	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1686	F1G1H221A571	CERAMIC 220P K	1	
C1687,88	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1689	F1G1H221A571	CERAMIC 220P K	1	
C1690	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1691	F1G1H221A571	CERAMIC 220P K	1	
C1692	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1693	F1G1H221A571	CERAMIC 220P K	1	
C1694	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1695	F1G1H221A571	CERAMIC 220P K	1	
C1696	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1697	F1G1H221A571	CERAMIC 220P K	1	
C1698	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1699	F1G1H221A571	CERAMIC 220P K	1	
C1700,01	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1702	F1G1H221A571	CERAMIC 220P K	1	
C1703,04	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1705	F1G1H221A571	CERAMIC 220P K	1	
C1706,07	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1708	F1G1H221A571	CERAMIC 220P K	1	
C1709,10	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1711,12	F1J1A106A043	CERAMIC 10U K	2	
C1713-15	F1G1C104A077	CERAMIC 0.1U K 16V	3	
C1716	F1G1H221A571	CERAMIC 220P K	1	
C1717,18	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1719	F1G1H221A571	CERAMIC 220P K	1	
C1720,21	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1722	F1G1H221A571	CERAMIC 220P K	1	
C1723	F1J1A106A043	CERAMIC 10U K	1	
C1724,25	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1726	F1G1H221A571	CERAMIC 220P K	1	
C1727,28	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1729	F1G1H221A571	CERAMIC 220P K	1	
C1730,31	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1732	F1G1H221A571	CERAMIC 220P K	1	
C1733	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1734	F1G1H221A571	CERAMIC 220P K	1	
C1735	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1736	F1G1H221A571	CERAMIC 220P K	1	
C1737	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1738	F1G1H221A571	CERAMIC 220P K	1	
C1739	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1740	F1G1H221A571	CERAMIC 220P K	1	
C1741	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1742	F1G1H221A571	CERAMIC 220P K	1	
C1743	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1744	F1J1A106A043	CERAMIC 10U K	1	
C1745,46	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1747	F1G1H221A571	CERAMIC 220P K	1	
C1748,49	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1750	F1G1H221A571	CERAMIC 220P K	1	
C1751,52	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1753	F1G1H221A571	CERAMIC 220P K	1	
C1754	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1755	F2G0J3300014	ELECT 33U M 6.3V	1	
C1756,57	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1758	F1G1H221A571	CERAMIC 220P K	1	
C1759,60	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1761	F1G1H221A571	CERAMIC 220P K	1	
C1762,63	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1764	F1G1H221A571	CERAMIC 220P K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1765	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1766	F1G1H221A571	CERAMIC 220P K	1	
C1767	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1768	F1G1H221A571	CERAMIC 220P K	1	
C1769	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1770	F1G1H221A571	CERAMIC 220P K	1	
C1771	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1772	F1G1H221A571	CERAMIC 220P K	1	
C1773	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1774	F1G1H221A571	CERAMIC 220P K	1	
C1775,76	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1777	F1G1H221A571	CERAMIC 220P K	1	
C1778,79	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1780	F1G1H221A571	CERAMIC 220P K	1	
C1781,82	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1783	F1G1H221A571	CERAMIC 220P K	1	
C1784,85	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1786	F1G1H221A571	CERAMIC 220P K	1	
C1787,88	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1789	F1G1H221A571	CERAMIC 220P K	1	
C1790,91	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1792	F1G1H221A571	CERAMIC 220P K	1	
C1793	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1794	F1G1H221A571	CERAMIC 220P K	1	
C1795	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1796	F1G1H221A571	CERAMIC 220P K	1	
C1797	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1798	F1G1H221A571	CERAMIC 220P K	1	
C1799	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1800	F1G1H221A571	CERAMIC 220P K	1	
C1801	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1802	F1G1H221A571	CERAMIC 220P K	1	
C1803	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1804	F1G1H221A571	CERAMIC 220P K	1	
C1805,06	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1807	F1G1H221A571	CERAMIC 220P K	1	
C1808,09	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1810	F1G1H221A571	CERAMIC 220P K	1	
C1811,12	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1813	F1G1H221A571	CERAMIC 220P K	1	
C1814	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1815	F1J1A106A043	CERAMIC 10U K	1	
C1816,17	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1818	F1G1H1020008	CERAMIC 1000P K 50V	1	
C1819-21	F1G1C104A077	CERAMIC 0.1U K 16V	3	
C1822	F1G1H221A571	CERAMIC 220P K	1	
C1823,24	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1825	F1G1H221A571	CERAMIC 220P K	1	
C1826,27	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1828	F1G1H221A571	CERAMIC 220P K	1	
C1829	F2G0J3300014	ELECT 33U M 6.3V	1	
C1830,31	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1832	F1G1H221A571	CERAMIC 220P K	1	
C1833	F1K1C106A116	CERAMIC 10U K	1	
C1834	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1837,38	F1G1H1020008	CERAMIC 1000P K 50V	2	
C1839-42	F1J1A106A043	CERAMIC 10U K	4	
C1844-47	F1L1C476A049	CERAMIC 47U K	4	
C1851-54	F1G1C104A077	CERAMIC 0.1U K 16V	4	
C1855,56	F1G1H220A541	CERAMIC 22P J 50V	2	
C1857-60	F1H1C105A008	CERAMIC 1U Z	4	
C1861-66	F1J0J2260004	CERAMIC 22U M 6.3V	6	
C1867-70	F1H1C105A008	CERAMIC 1U Z	4	
C1871	EEFCX0D221R	EEFCX0D221R	1	
C1872	F2G0G2210009	ELECT 220U M 4V	1	
C1873,74	F1J0J2260004	CERAMIC 22U M 6.3V	2	
C1875,76	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1877	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1878	F1H1E105A126	CERAMIC 1U Z	1	
C1879	F1H1C105A008	CERAMIC 1U Z	1	
C1880	F1H1E105A126	CERAMIC 1U Z	1	
C1881	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1882	F1H1C105A008	CERAMIC 1U Z	1	
C1883	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1884	F1H1C105A008	CERAMIC 1U Z	1	
C1885	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1886	F1H1E105A126	CERAMIC 1U Z	1	
C1887	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1888	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1889	F2G1E3300010	ELECT 33U M 25V	1	
C1890,91	F1H1E104A030	CERAMIC 0.1U Z 25V	2	
C1892	F1H1C105A008	CERAMIC 1U Z	1	
C1893,94	F1H1E105A126	CERAMIC 1U Z	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1895	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1896	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1897	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1898	F2G1E3300010	ELECT 33U M 25V	1	
C1899,00	F1H1C105A008	CERAMIC 1U Z	2	
C1901	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1902	F1H1E105A126	CERAMIC 1U Z	1	
C1903	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1904	F1H1C105A008	CERAMIC 1U Z	1	
C1905	F1G1H1020008	CERAMIC 1000P K 50V	1	
C1906	F1H1A225A051	CERAMIC 2.2U K 10V	1	
C1907	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1908	F1J1A106A043	CERAMIC 10U K	1	
C1909	F1H1A225A051	CERAMIC 2.2U K 10V	1	
C1910	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1911	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1912	F1H1A225A051	CERAMIC 2.2U K 10V	1	
C1913	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1914	F1H1A225A051	CERAMIC 2.2U K 10V	1	
C1915	F2G1E3300010	ELECT 33U M 25V	1	
C1916	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1917	F2G1E3300010	ELECT 33U M 25V	1	
C1918	F1H1E104A030	CERAMIC 0.1U Z 25V	1	
C1919	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1920	F1H1E105A126	CERAMIC 1U Z	1	
C1921	F2G1E3300010	ELECT 33U M 25V	1	
C1922,23	F1H1E105A126	CERAMIC 1U Z	2	
C1924-80	F1H1C105A008	CERAMIC 1U Z	57	
C1981-83	F1H1E105A126	CERAMIC 1U Z	3	
C1984,85	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C1986	F1G1H1020008	CERAMIC 1000P K 50V	1	
C1987	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1988	F1J0J106A020	CERAMIC 10U K 6.3V	1	
C1989	F1G1C1030008	CERAMIC 0.01U K	1	
C1990	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C1991-13	F1G1H471A541	CERAMIC 470P J 50V	23	
C2014	F1G1C103A082	CERAMIC 0.01U K	1	
C2016	F1G1H1020008	CERAMIC 1000P K 50V	1	
C2017	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C2020	F1J1A106A043	CERAMIC 10U K	1	
C2022-25	F1G1C104A077	CERAMIC 0.1U K 16V	4	
C2026	F1G1H222A571	CERAMIC 2200P K 50V	1	
C2029	F1G1H222A571	CERAMIC 2200P K 50V	1	
C2031,32	F1J1A106A043	CERAMIC 10U K	2	
C2033-37	F1G1H471A541	CERAMIC 470P J 50V	5	
C2040	F1J1A106A043	CERAMIC 10U K	1	
C2041,42	F1J0J2260004	CERAMIC 22U M 6.3V	2	
C2043-46	F1H0J4750004	CERAMIC 4.7U K 6.3V	4	
C2047-51	F1G1H471A541	CERAMIC 470P J 50V	5	
C2052,53	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C2054-58	F1G1H471A541	CERAMIC 470P J 50V	5	
C2059	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C2060,61	F1G1H471A541	CERAMIC 470P J 50V	2	
C2062	F2G1C4700014	ELECT 47U M 16V	1	
C2063	F1G1C1030008	CERAMIC 0.01U K	1	
C2064,65	F2G1C4700014	ELECT 47U M 16V	2	
C2066	EEFCX0D221R	EEFCX0D221R	1	
C2067,68	F1J0J106A020	CERAMIC 10U K 6.3V	2	
C2069,70	F1G1C104A077	CERAMIC 0.1U K 16V	2	
C2071	F1G1C1030008	CERAMIC 0.01U K	1	
C2072	F1J1A106A043	CERAMIC 10U K	1	
C2074-79	F1G1H471A541	CERAMIC 470P J 50V	6	
C2080-83	F1H1C2240011	CERAMIC 0.22U K 16V	4	
C2084	F1G1C1030008	CERAMIC 0.01U K	1	
C2085	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C2089	F1G1C104A077	CERAMIC 0.1U K 16V	1	
C2090,91	F1G1H471A541	CERAMIC 470P J 50V	2	
D1000-04	D4ED1270A008	SURGE-ABSORBER	5	
D1005,06	D4ED11200005	SURGE-ABSORBER	2	
D1007-10	D4ED1270A008	SURGE-ABSORBER	4	
D1015-17	B0ZBZ0000156	DIODE LXES15AAA1-017	3	
D1018,19	B0JCAE000001	DIODE RB751V-40TE-17	2	
D1020-49	B0ZBZ0000156	DIODE LXES15AAA1-017	30	
D1055	DA3X103E0L	DIODE DA3X103E0L	1	
D1056,57	B0JCMEE000087	DIODE PMEG4010CEJ,115	2	
D1058	B0JCAE000001	DIODE RB751V-40TE-17	1	
D1066	DA3X101F0L	DIODE DA3X101F0L	1	
D1067	DA3X103E0L	DIODE DA3X103E0L	1	
D1068	B0JCAE000001	DIODE RB751V-40TE-17	1	
D1069	DA3X103E0L	DIODE DA3X103E0L	1	
D1070,71	B0JCPE000048	DIODE PMEG4030ER,115	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D1072	B3AAB0000038	LED SML-310VTT86	1	
D1073-76	D4ED11200005	SURGE-ABSORBER	4	
FL1000-02	J0HABC000011	FILTER,EMI 200MHZ	3	
FL1003	J0HAYY000046	FILTER,EMI	1	
IC1000	C0JBAA000549	IC	1	
IC1001	C1AB00003048	IC	1	
IC1002	C0JBAA000549	IC	1	
IC1003	C0ZBZ0001867	IC	1	
IC1004	C1AB00003211	IC	1	
IC1005	C0CBCBF00009	IC	1	
IC1006	C0DBGYY01359	IC	1	
IC1007	C0CBCAF00007	IC	1	
IC1008	C0CBCBF00009	IC	1	
IC1009	C0DBGYY02646	IC	1	
IC1011	C3EBDC000067	IC	1	
IC1012,13	C0EBE0000348	IC	2	
IC1014	MNZSFH9GPE2	IC	1	
IC1015	C0JBAU000087	IC	1	
IC1016	C0ABBA000229	IC	1	
IC1017	C0GBY0000120	IC	1	
IC1018	C0GBG0000066	IC	1	
IC1020	C0DBGYY02198	IC	1	
IC1021	C0GBY0000164	IC	1	
IC1022	TVRT054	IC	1	
IC1023	C3EBLY000023	IC	1	
IC1024	TVRS395AA	IC	1	
IC1025	C0ABCA000085	IC	1	
IC1026	C1BB00000888	IC	1	
IC1027	C0EBE0000348	IC	1	
IC1029	TVRT055	IC	1	
IC1030	C1AB00003899	IC	1	
IC1032	C0DBAYY00893	IC	1	
IC1033	C0DBAYY01148	IC	1	
IC1034	C0DBAYY00893	IC	1	
IC1035	C0DBAYY01148	IC	1	
IC1036,37	C0DBAYY00893	IC	2	
IC1042	C0ABCA000085	IC	1	
IC1043	C0CBCY000004	IC	1	
IC1044,45	C0ABCA000085	IC	2	
IC1046	C1AB00003639	IC	1	
IC1047,48	C3ABTY000043	IC	2	
IC1049	C1ZBZ0003854	IC	1	
IC1050,51	C3ABSY000090	IC	2	
IC1052	C1AB00003761	IC	1	
IC1053,54	C3ABTY000043	IC	2	
IC1055	C0DBGFG000005	IC	1	
IC1097	C3ABSY000090	IC	1	
IC1099	C3ABSY000090	IC	1	
IC1100,01	C0JBAA000549	IC	2	
IC1102,03	C3ABSY000090	IC	2	
IC1104	C0DBGYY02646	IC	1	
JK1001	K1AY205B0002	SOCKET	1	
JK1002	K2HC204B0003	JACK,PHON D3.6	1	
JK1003	K2HA304B0020	JACK	1	
JK1004	K1FY109B0034	RECTANGULAR CONNECTORS FOR IF	1	
JK1005-07	K1FY119E0025	SOCKET TCX3285-711387	3	
JK1008	K1FY115B0030	SOCKET DZ11AA1-H4A6-4F	1	
JS1000-05	ERJ6GEY0R00	MT-GLAZE 0.000 ZA 1/10W	6	
JS1016,17	ERJ6GEY0R00	MT-GLAZE 0.000 ZA 1/10W	2	
L1000-05	J0JCC0000168	IMPEDANCE,120 OHM P	6	
L1006,07	J0JCC0000022	IMPEDANCE,30 OHM P	2	
L1008-10	J0JCC0000168	IMPEDANCE,120 OHM P	3	
L1011-17	J0JYC0000024	IMPEDANCE,60 OHM P	7	
L1018	J0JBC00000099	IMPEDANCE,47 OHM P	1	
L1020	J0JHC00000078	IMPEDANCE,220 OHM P	1	
L1023,24	J0JHC00000078	IMPEDANCE,220 OHM P	2	
L1026,27	J0JCC0000168	IMPEDANCE,120 OHM P	2	
L1029	J0JCC0000168	IMPEDANCE,120 OHM P	1	
L1030	J0JYC0000023	IMPEDANCE,30 OHM P	1	
L1031,32	J0JYC0000024	IMPEDANCE,60 OHM P	2	
L1033,34	J0JBC00000086	IMPEDANCE,120 OHM P	2	
L1035,36	J0JYC0000024	IMPEDANCE,60 OHM P	2	
L1037,38	J0JBC00000086	IMPEDANCE,120 OHM P	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L1039,40	J0JYC0000024	IMPEDANCE,60 OHM P	2		R1000,01	ERJ3GEYJ472	MT-GLAZE 4.7K JA 1/10W	2	
L1041,42	J0JBC0000086	IMPEDANCE,120 OHM P	2		R1002-07	ERJ6ENF75R0	MT-GLAZE 75 FA 1/8W	6	
L1043,44	J0JYC0000024	IMPEDANCE,60 OHM P	2		R1008,09	ERJ3GEYJ101	MT-GLAZE 100 JA 1/10W	2	
L1045,46	J0JBC0000086	IMPEDANCE,120 OHM P	2		R1010-15	ERJ6ENF75R0	MT-GLAZE 75 FA 1/8W	6	
L1047,48	J0JYC0000024	IMPEDANCE,60 OHM P	2		R1016,17	ERJ3GEYJ101	MT-GLAZE 100 JA 1/10W	2	
L1049,50	J0JBC0000086	IMPEDANCE,120 OHM P	2		R1018-29	ERJ6ENF36R0	MT-GLAZE 36 FA 1/8W	12	
L1051	J0JYC0000024	IMPEDANCE,60 OHM P	1		R1030	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
L1052	J0JYC0000023	IMPEDANCE,30 OHM P	1		R1031-42	ERJ6ENF1130	MT-GLAZE 113 FA 1/8W	12	
L1053-57	J0JYC0000024	IMPEDANCE,60 OHM P	5		R1043-45	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	3	
L1058	J0JGC0000059	IMPEDANCE,600 OHM P	1		R1046-48	ERJ3GEYJ220	MT-GLAZE 22 JA 1/10W	3	
L1059	J0JYC0000024	IMPEDANCE,60 OHM P	1		R1049-51	ERJ3GEYJ750	MT-GLAZE 75 JA 1/10W	3	
L1060,61	J0JGC0000059	IMPEDANCE,600 OHM P	2		R1052,53	ERJ3GEYJ103	MT-GLAZE 10K JA 1/10W	2	
L1062,63	J0JYC0000024	IMPEDANCE,60 OHM P	2		R1054,55	ERJ3GEYJ392	MT-GLAZE 3.9K JA 1/10W	2	
L1064	J0JGC0000059	IMPEDANCE,600 OHM P	1		R1056-59	ERJ3EKF3900	MT-GLAZE 390 FA 1/10W	4	
L1065,66	J0JYC0000024	IMPEDANCE,60 OHM P	2		R1060-83	ERJ2GEJ3R0	MT-GLAZE 3 JA 1/16W	24	
L1068,69	J0JYC0000024	IMPEDANCE,60 OHM P	2		R1084-86	ERJ3GEYJ470	MT-GLAZE 47 JA 1/10W	3	
L1070,71	J0JJC0000022	IMPEDANCE,30 OHM P	2		R1087-89	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	3	
L1072,73	J0JYC0000024	IMPEDANCE,60 OHM P	2		R1090-92	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	3	
L1074	J0JCC0000168	IMPEDANCE,120 OHM P	1		R1093-95	ERJ3GEYJ102	MT-GLAZE 1K JA 1/10W	3	
L1075	J0JYC0000024	IMPEDANCE,60 OHM P	1		R1096-98	ERJ3GEYJ393	MT-GLAZE 39K JA 1/10W	3	
L1076	J0JYC0000066	IMPEDANCE,56 OHM P	1		R1099-01	ERJ3GEYJ103	MT-GLAZE 10K JA 1/10W	3	
L1077	J0JYC0000023	IMPEDANCE,30 OHM P	1		R1102-04	ERJ2GEJ473	MT-GLAZE 47K JA 1/16W	3	
L1078-80	J0JJC0000022	IMPEDANCE,30 OHM P	3		R1105-07	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	3	
L1081	J0JBC0000116	IMPEDANCE,120 OHM P	1		R1111-16	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	6	
L1082	J0JYC0000023	IMPEDANCE,30 OHM P	1		R1117-22	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	6	
L1083	J0JJC0000022	IMPEDANCE,30 OHM P	1		R1123	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
L1084	J0JYC0000023	IMPEDANCE,30 OHM P	1		R1125,26	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	2	
L1085	J0JJC0000022	IMPEDANCE,30 OHM P	1		R1128,29	ERJ2GEJ473	MT-GLAZE 47K JA 1/16W	2	
L1086-88	J0JBC0000080	IMPEDANCE,300 OHM P	3		R1131	ERJ2GEJ473	MT-GLAZE 47K JA 1/16W	1	
L1089	J0JJC0000022	IMPEDANCE,30 OHM P	1		R1132-34	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	3	
L1091	J0JYC0000024	IMPEDANCE,60 OHM P	1		R1135-37	ERJ2GEJ473	MT-GLAZE 47K JA 1/16W	3	
L1092-95	J0JJC0000022	IMPEDANCE,30 OHM P	4		R1138-45	ERJ2GEJ100	MT-GLAZE 10 JA 1/16W	8	
L1096-99	J0JYC0000023	IMPEDANCE,30 OHM P	4		R1146	ERJ3GEYJ103	MT-GLAZE 10K JA 1/10W	1	
L1100,01	G1C330MA0218	INDUCTOR 33U M	2		R1147,48	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	2	
L1103,04	J0JYC0000023	IMPEDANCE,30 OHM P	2		R1149,50	ERJ2GEJ100	MT-GLAZE 10 JA 1/16W	2	
L1105-07	J0JJC0000022	IMPEDANCE,30 OHM P	3		R1151,52	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	2	
L1108	J0JYC0000023	IMPEDANCE,30 OHM P	1		R1155,56	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	2	
L1111,12	J0JJC0000022	IMPEDANCE,30 OHM P	2		R1157	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
L1116-25	J0JYC0000024	IMPEDANCE,60 OHM P	10		R1158	ERJ3EKF4990	MT-GLAZE 499 FA 1/10W	1	
L1127-30	J0JYC0000024	IMPEDANCE,60 OHM P	4		R1159-67	EXB28V220J	R-NETWORK 22X4	9	
L1131	J0JBC0000080	IMPEDANCE,300 OHM P	1		R1168	EXB28V560J	R-NETWORK 56X4	1	
L1132-34	G1C4R5ZA0156	INDUCTOR 4.5U	3		R1169	ERJ2GEJ330	MT-GLAZE 33 JA 1/16W	1	
L1135	G1C4R7ZA0119	INDUCTOR 4.7U	1		R1170	ERJ2GEJ560	MT-GLAZE 56 JA 1/16W	1	
L1136,37	J0JYC0000024	IMPEDANCE,60 OHM P	2		R1171,72	ERJ2GEJ473	MT-GLAZE 47K JA 1/16W	2	
L1138,39	J0JBC0000116	IMPEDANCE,120 OHM P	2		R1173	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
L1140-49	J0JYC0000024	IMPEDANCE,60 OHM P	10		R1174,75	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	2	
L1150	J0JJC0000022	IMPEDANCE,30 OHM P	1		R1176	EXB28V330J	R-NETWORK 33X4	1	
L1151-53	J0JYC0000024	IMPEDANCE,60 OHM P	3		R1177	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
L1154,55	G1C4R5ZA0156	INDUCTOR 4.5U	2		R1178	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
L1156-65	J0JYC0000023	IMPEDANCE,30 OHM P	10		R1179-84	ERJ2GEJ331	MT-GLAZE 330 JA 1/16W	6	
L1166,67	J0JJC0000022	IMPEDANCE,30 OHM P	2		R1185	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
L1168	J0JYC0000023	IMPEDANCE,30 OHM P	1		R1186,87	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	2	
L1169	J0JJC0000022	IMPEDANCE,30 OHM P	1		R1189	ERJ3EKF2002	MT-GLAZE 20K FA 1/10W	1	
L1170-72	J0JYC0000024	IMPEDANCE,60 OHM P	3		R1190,91	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	2	
L1173	J0JHC0000078	IMPEDANCE,220 OHM P	1		R1192	ERJ3EKF2001	MT-GLAZE 2K FA 1/10W	1	
L1174	J0JBC0000080	IMPEDANCE,300 OHM P	1		R1198	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
L1175	J0JYC0000023	IMPEDANCE,30 OHM P	1		R1199	ERJ3GEYJ300	MT-GLAZE 30 JA 1/10W	1	
L1176-81	J0JYC0000024	IMPEDANCE,60 OHM P	6		R1200	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
L1182	J0JBC0000116	IMPEDANCE,120 OHM P	1		R1201-03	ERJ3GEYJ300	MT-GLAZE 30 JA 1/10W	3	
					R1204,05	ERJ2GEJ333	MT-GLAZE 33K JA 1/16W	2	
					R1206,07	ERJ2GEJ123	MT-GLAZE 12K JA 1/16W	2	
					R1208,09	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	2	
Q1000-05	B1GBCFJJ0007	TR DTC114EUAT106	6		R1210,11	ERJ1TYJ150	MT-GLAZE 15 JA 1W	2	
Q1006-08	B1ABDF000018	TR MSD1819A-RT1G	3		R1212,13	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	2	
Q1011,12	B1ABDF000018	TR MSD1819A-RT1G	2		R1214,15	ERJ2GEJ560	MT-GLAZE 56 JA 1/16W	2	
Q1016,17	B1ABDF000018	TR MSD1819A-RT1G	2		R1216	ERJ3GEYJ222	MT-GLAZE 2.2K JA 1/10W	1	
Q1019-22	B1ABDF000018	TR MSD1819A-RT1G	4		R1217	ERJ3EKF6801	MT-GLAZE 6.8K FA 1/10W	1	
Q1023	B1ADCE000013	TR MSB1218A-RT1G	1		R1218	ERJ3GEYJ102	MT-GLAZE 1K JA 1/10W	1	
Q1025,26	B1ABDF000018	TR MSD1819A-RT1G	2		R1220	ERJ3GEYJ822	MT-GLAZE 8.2K JA 1/10W	1	
Q1027-30	B1CFND000005	TR RTR025N03TL	4		R1221	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
Q1031	B1ADCE000013	TR MSB1218A-RT1G	1		R1222	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	1	
Q1032,33	B1GBCFLM0003	TR DTC124XUAT106	2		R1223	EXB28V220J	R-NETWORK 22X4	1	
Q1035,36	B1GBCFLM0003	TR DTC124XUAT106	2		R1224	ERJ2GEJ560	MT-GLAZE 56 JA 1/16W	1	
Q1037,38	B1CFND000005	TR RTR025N03TL	2		R1225	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	1	
Q1039	B1GBCFLM0003	TR DTC124XUAT106	1		R1226-28	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	3	
Q1040	B1CHQD000010	TR UPA1914TE(2)-T1-AT	1		R1229	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
Q1041	B1GBCFLM0003	TR DTC124XUAT106	1		R1230	ERJ2GEJ273	MT-GLAZE 27K JA 1/16W	1	
Q1042	B1CHQD000010	TR UPA1914TE(2)-T1-AT	1		R1231	ERJ2GEJ333	MT-GLAZE 33K JA 1/16W	1	
Q1043	B1GBCFLM0003	TR DTC124XUAT106	1		R1232	ERJ2GEJ101	MT-GLAZE 100 JA 1/16W	1	
Q1044	B1CHQD000010	TR UPA1914TE(2)-T1-AT	1		R1233	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
Q1045	B1GBCFLM0003	TR DTC124XUAT106	1		R1234	EXB28V102J	R-NETWORK 1KX4	1	
Q1046	B1CHQD000010	TR UPA1914TE(2)-T1-AT	1		R1235	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
Q1047	B1GBCFLM0003	TR DTC124XUAT106	1						

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1236	EXB28V220J	R-NETWORK 22X4	1	
R1238	EXB28V220J	R-NETWORK 22X4	1	
R1239-41	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	3	
R1242,43	ERJ2GEJ473	MT-GLAZE 47K JA 1/16W	2	
R1244	ERJ2GEJ101	MT-GLAZE 100 JA 1/16W	1	
R1245,46	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	2	
R1247	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1249	D1BZ2700A012	MT-GLAZE 270 FA 1W	1	
R1250	ERJ3GEYJ220	MT-GLAZE 22 JA 1/10W	1	
R1251,52	ERJ3EKF8201	MT-GLAZE 8.2K FA 1/10W	2	
R1253,54	ERJ3EKF2701	MT-GLAZE 2.7K FA 1/10W	2	
R1255	ERJ3GEYJ220	MT-GLAZE 22 JA 1/10W	1	
R1256	ERJ2GEJ562	MT-GLAZE 5.6K JA 1/16W	1	
R1257	ERJ3GEYJ101	MT-GLAZE 100 JA 1/10W	1	
R1260	ERJ3GEYJ560	MT-GLAZE 56 JA 1/10W	1	
R1262,63	ERJ2GEJ562	MT-GLAZE 5.6K JA 1/16W	2	
R1264	ERJ3GEYJ560	MT-GLAZE 56 JA 1/10W	1	
R1265	ERJ3GEYJ101	MT-GLAZE 100 JA 1/10W	1	
R1267	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1270	ERJ2GEJ562	MT-GLAZE 5.6K JA 1/16W	1	
R1271	ERJ2GEJ823	MT-GLAZE 82K JA 1/16W	1	
R1272	ERJ2GEJ333	MT-GLAZE 33K JA 1/16W	1	
R1274	ERJ3GEYJ560	MT-GLAZE 56 JA 1/10W	1	
R1275	ERJ2GEJ333	MT-GLAZE 33K JA 1/16W	1	
R1276	ERJ3GEYJ101	MT-GLAZE 100 JA 1/10W	1	
R1277,78	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	2	
R1280	ERJ2GEJ562	MT-GLAZE 5.6K JA 1/16W	1	
R1281	ERJ3GEYJ560	MT-GLAZE 56 JA 1/10W	1	
R1282	ERJ3GEYJ101	MT-GLAZE 100 JA 1/10W	1	
R1284	ERJ3GEYJ560	MT-GLAZE 56 JA 1/10W	1	
R1285	ERJ2GEJ562X	MT-GLAZE 5.6K JA 1/16W	1	
R1286	ERJ3GEYJ101	MT-GLAZE 100 JA 1/10W	1	
R1289	ERJ3EKF6801	MT-GLAZE 6.8K FA 1/10W	1	
R1290	ERJ3GEYJ102	MT-GLAZE 1K JA 1/10W	1	
R1291	ERJ3EKF6801	MT-GLAZE 6.8K FA 1/10W	1	
R1292	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1293	ERJ2GEJ101	MT-GLAZE 100 JA 1/16W	1	
R1294	ERJ3GEYJ102	MT-GLAZE 1K JA 1/10W	1	
R1295	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1296	ERJ2GEJ562	MT-GLAZE 5.6K JA 1/16W	1	
R1297	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1298	ERJ6GEYJ100	MT-GLAZE 10 JA 1/8W	1	
R1299	ERJ2GEJ562	MT-GLAZE 5.6K JA 1/16W	1	
R1300	ERJ6GEYJ100	MT-GLAZE 10 JA 1/8W	1	
R1301,02	ERJ3EKF1000	MT-GLAZE 100 FA 1/10W	2	
R1303,04	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	2	
R1305	ERJ6GEYJ560	MT-GLAZE 56 JA 1/8W	1	
R1306	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1307	EXB28V103J	R-NETWORK 10KX4	1	
R1310	ERJ2GEJ562	MT-GLAZE 5.6K JA 1/16W	1	
R1311,12	ERJ3GEYJ473	MT-GLAZE 47K JA 1/10W	2	
R1313	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1314-16	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	3	
R1317	ERJ2GEJ562	MT-GLAZE 5.6K JA 1/16W	1	
R1318	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1319	ERJ2GEJ181	MT-GLAZE 180 JA 1/16W	1	
R1320	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1322	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1323	ERJ2GEJ222	MT-GLAZE 2.2K JA 1/16W	1	
R1324	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	1	
R1325	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1326,27	ERJ2GEJ102	MT-GLAZE 1K JA 1/16W	2	
R1328	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1329	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1330	ERJ3EKF3300	MT-GLAZE 330 FA 1/10W	1	
R1331,32	ERJ3EKF2400	MT-GLAZE 240 FA 1/10W	2	
R1333	ERJ3EKF3300	MT-GLAZE 330 FA 1/10W	1	
R1334	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1335,36	ERJ3EKF3300	MT-GLAZE 330 FA 1/10W	2	
R1337	ERJ2GEJ561	MT-GLAZE 560 JA 1/16W	1	
R1338-40	ERJ2GEJ153	MT-GLAZE 15K JA 1/16W	3	
R1343,44	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	2	
R1345,46	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	2	
R1347	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1349	EXB28V472J	R-NETWORK 4.7KX4	1	
R1350,51	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	2	
R1352	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1353,54	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	2	
R1355	ERJ3GEYJ473	MT-GLAZE 47K JA 1/10W	1	
R1356	ERJ3GEYJ223	MT-GLAZE 22K JA 1/10W	1	
R1357	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
R1358	ERJ2GEJ681	MT-GLAZE 680 JA 1/16W	1	
R1359	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1360,61	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	2	
R1362	ERJ3GEYJ102	MT-GLAZE 1K JA 1/10W	1	
R1363	ERJ3GEYJ470	MT-GLAZE 47 JA 1/10W	1	
R1365	ERJ3GEYJ102	MT-GLAZE 1K JA 1/10W	1	
R1366	ERJ3GEYJ392	MT-GLAZE 3.9K JA 1/10W	1	
R1367	ERJ3GEYJ470	MT-GLAZE 47 JA 1/10W	1	
R1368	ERJ3GEYJ100	MT-GLAZE 10 JA 1/10W	1	
R1369	ERJ3GEYJ331	MT-GLAZE 330 JA 1/10W	1	
R1370	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1371	ERJ3GEYJ392	MT-GLAZE 3.9K JA 1/10W	1	
R1372	ERJ3GEYJ820	MT-GLAZE 82 JA 1/10W	1	
R1374	ERJ3GEYJ680	MT-GLAZE 68 JA 1/10W	1	
R1375	EXB28V103J	R-NETWORK 10KX4	1	
R1376,77	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	2	
R1378	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1379,80	ERJ3EKF1000	MT-GLAZE 100 FA 1/10W	2	
R1381-87	EXB28V100J	R-NETWORK 10X4	7	
R1388	ERJ3EKF2400	MT-GLAZE 240 FA 1/10W	1	
R1391	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1392	ERJ2GEJ750	MT-GLAZE 75 JA 1/16W	1	
R1393,94	ERJ3EKF1000	MT-GLAZE 100 FA 1/10W	2	
R1395-99	EXB28VR000	R-NETWORK 0X4	5	
R1400-03	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	4	
R1405	ERJ3EKF2400	MT-GLAZE 240 FA 1/10W	1	
R1406,07	ERJ3EKF1000	MT-GLAZE 100 FA 1/10W	2	
R1408	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1413,14	ERJ3EKF1000	MT-GLAZE 100 FA 1/10W	2	
R1415-19	EXB28VR000	R-NETWORK 0X4	5	
R1420-23	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	4	
R1425	ERJ3EKF2400	MT-GLAZE 240 FA 1/10W	1	
R1426,27	ERJ3EKF1000	MT-GLAZE 100 FA 1/10W	2	
R1428	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1429	ERJ3GEYJ103	MT-GLAZE 10K JA 1/10W	1	
R1430	ERJ3GEYJ473	MT-GLAZE 47K JA 1/10W	1	
R1431	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1432	ERJ3GEYJ472	MT-GLAZE 4.7K JA 1/10W	1	
R1433	ERJ3GEYJ101	MT-GLAZE 100 JA 1/10W	1	
R1434	ERJ3GEYJ105	MT-GLAZE 1M JA 1/10W	1	
R1435	ERJ3GEYJ102	MT-GLAZE 1K JA 1/10W	1	
R1436	ERJ3GEYJ471	MT-GLAZE 470 JA 1/10W	1	
R1437	ERJ3GEYJ391	MT-GLAZE 390 JA 1/10W	1	
R1438	ERJ3GEYJ561	MT-GLAZE 560 JA 1/10W	1	
R1439,40	ERJ3EKF1101	MT-GLAZE 1.1K FA 1/10W	2	
R1441	ERJ3GEYJ473	MT-GLAZE 47K JA 1/10W	1	
R1442	ERJ3GEYJ471	MT-GLAZE 470 JA 1/10W	1	
R1443	ERJ3EKF5621	MT-GLAZE 5.62K FA 1/10W	1	
R1444	ERJ3EKF5903	MT-GLAZE 590K FA 1/10W	1	
R1445	ERJ3EKF1691	MT-GLAZE 1.69K FA 1/10W	1	
R1446	ERJ3EKF3923	MT-GLAZE 392K FA 1/10W	1	
R1447	ERJ3EKF1101	MT-GLAZE 1.1K FA 1/10W	1	
R1448	ERJ3EKF1002	MT-GLAZE 10K FA 1/10W	1	
R1449	ERJ3EKF3923	MT-GLAZE 392K FA 1/10W	1	
R1450	ERJ3EKF1803	MT-GLAZE 180K FA 1/10W	1	
R1451	ERJ3EKF1002	MT-GLAZE 10K FA 1/10W	1	
R1452	ERJ3EKF5621	MT-GLAZE 5.62K FA 1/10W	1	
R1453	ERJ3GEYJ124	MT-GLAZE 120K JA 1/10W	1	
R1454	EXB28V220J	R-NETWORK 22X4	1	
R1455	ERJ3GEYJ103	MT-GLAZE 10K JA 1/10W	1	
R1456	ERJ3GEYJ473	MT-GLAZE 47K JA 1/10W	1	
R1457	ERJ3GEYJ105	MT-GLAZE 1M JA 1/10W	1	
R1458,59	ERJ3GEYJ510	MT-GLAZE 51 JA 1/10W	2	
R1460	ERJ3GEYJ473	MT-GLAZE 47K JA 1/10W	1	
R1461	ERJ3GEYJ222	MT-GLAZE 2.2K JA 1/10W	1	
R1462	ERJ3GEYJ102	MT-GLAZE 1K JA 1/10W	1	
R1463	ERJ3GEYJ473	MT-GLAZE 47K JA 1/10W	1	
R1464	ERJ3GEYJ102	MT-GLAZE 1K JA 1/10W	1	
R1465	ERJ3GEYJ123	MT-GLAZE 12K JA 1/10W	1	
R1466-77	ERJ3EKF1000	MT-GLAZE 100 FA 1/10W	12	
R1478	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1479	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
R1480,81	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	2	
R1482	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
R1483	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	1	
R1485	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	1	
R1487	EXB28V103J	R-NETWORK 10KX4	1	
R1488	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
R1495	ERJ2GEJ102	MT-GLAZE 1K JA 1/16W	1	
R1496-99	EXB28V220J	R-NETWORK 22X4	4	
R1500-03	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	4	
R1507	ERJ2GEJ102	MT-GLAZE 1K JA 1/16W	1	
R1509	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
R1510-15	EXB28V220J	R-NETWORK 22X4	6	
R1517-22	EXB28V220J	R-NETWORK 22X4	6	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1523,24	ERJ2GEJ100	MT-GLAZE 10 JA 1/16W	2	
R1527	ERJ2GEJ470	MT-GLAZE 47 JA 1/16W	1	
R1528-32	EXB28VR000	R-NETWORK 0X4	5	
R1533	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1534	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	1	
R1535	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1536	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	1	
R1537	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1538,39	ERJ3EKF5600	MT-GLAZE 560 FA 1/10W	2	
R1540,41	ERJ2GEJ100	MT-GLAZE 10 JA 1/16W	2	
R1542,43	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	2	
R1544	ERJ2GEJ470	MT-GLAZE 47 JA 1/16W	1	
R1545-49	EXB28VR000	R-NETWORK 0X4	5	
R1550	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1552	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1554	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1555,56	ERJ3EKF5600	MT-GLAZE 560 FA 1/10W	2	
R1559-70	ERJ3EKF1000	MT-GLAZE 100 FA 1/10W	12	
R1571	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	1	
R1572	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1573	ERJ3GEYJ473	MT-GLAZE 47K JA 1/10W	1	
R1574	EXB28V472J	R-NETWORK 4.7KX4	1	
R1575	ERJ2GEJ101	MT-GLAZE 100 JA 1/16W	1	
R1577	ERJ2GEJ330	MT-GLAZE 33 JA 1/16W	1	
R1578	ERJ2GEJ102	MT-GLAZE 1K JA 1/16W	1	
R1580	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1582	ERJ3GEYJ223	MT-GLAZE 22K JA 1/10W	1	
R1583-87	ERJ2GEJ330	MT-GLAZE 33 JA 1/16W	5	
R1588	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1589	ERJ2GEJ102	MT-GLAZE 1K JA 1/16W	1	
R1590,91	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	2	
R1592	EXB28V472J	R-NETWORK 4.7KX4	1	
R1593-97	ERJ2GEJ330	MT-GLAZE 33 JA 1/16W	5	
R1598	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1599-02	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	4	
R1603	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1605,06	ERJ2GEJ330	MT-GLAZE 33 JA 1/16W	2	
R1607	ERJ3GEYJ473	MT-GLAZE 47K JA 1/10W	1	
R1608	ERJ3GEYJ223	MT-GLAZE 22K JA 1/10W	1	
R1609	ERJ3GEYJ473	MT-GLAZE 47K JA 1/10W	1	
R1610	ERJ3GEYJ223	MT-GLAZE 22K JA 1/10W	1	
R1612	EXB28V103J	R-NETWORK 10KX4	1	
R1614	ERJ3EKF2201	MT-GLAZE 2.2K FA 1/10W	1	
R1615	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1616,17	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	2	
R1620-23	ERJ3EKF1001	MT-GLAZE 1K FA 1/10W	4	
R1624	ERJ3EKF2400	MT-GLAZE 240 FA 1/10W	1	
R1625	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1627,28	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	2	
R1629,30	ERJ3EKF1001	MT-GLAZE 1K FA 1/10W	2	
R1632-36	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	5	
R1640	ERJ2GEJ221	MT-GLAZE 220 JA 1/16W	1	
R1641	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1642	ERJ3EKF2400	MT-GLAZE 240 FA 1/10W	1	
R1643,44	ERJ3EKF1001	MT-GLAZE 1K FA 1/10W	2	
R1645	ERJ2GEJ105	MT-GLAZE 1M JA 1/16W	1	
R1646,47	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	2	
R1648,49	ERJ2GEJ102	MT-GLAZE 1K JA 1/16W	2	
R1650,51	ERJ3EKF1001	MT-GLAZE 1K FA 1/10W	2	
R1652	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
R1653-56	ERJ2GEJ222	MT-GLAZE 2.2K JA 1/16W	4	
R1658	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1661	ERJ2GEJ221	MT-GLAZE 220 JA 1/16W	1	
R1662	ERJ3EKF2400	MT-GLAZE 240 FA 1/10W	1	
R1663,64	ERJ3EKF1001	MT-GLAZE 1K FA 1/10W	2	
R1666	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1667	ERJ3EKF2202	MT-GLAZE 22K FA 1/10W	1	
R1668	ERJ3EKF10R0	MT-GLAZE 10 FA 1/10W	1	
R1669	ERJ3EKF2202	MT-GLAZE 22K FA 1/10W	1	
R1670	ERJ3EKF6801	MT-GLAZE 6.8K FA 1/10W	1	
R1671	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1677	ERJ3EKF2403	MT-GLAZE 240K FA 1/10W	1	
R1678	ERJ3EKF6801	MT-GLAZE 6.8K FA 1/10W	1	
R1679	ERJ3EKF2403	MT-GLAZE 240K FA 1/10W	1	
R1680	ERJ3EKF10R0	MT-GLAZE 10 FA 1/10W	1	
R1682	ERJ2GEJ912	MT-GLAZE 9.1K JA 1/16W	1	
R1683	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1684	ERJ2GEJ103	MT-GLAZE 10K JA 1/16W	1	
R1690	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1691	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1693	ERJ3EKF2203	MT-GLAZE 220K FA 1/10W	1	
R1694	ERJ3EKF2403	MT-GLAZE 240K FA 1/10W	1	
R1695	ERJ3EKF5102	MT-GLAZE 51K FA 1/10W	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1696	ERJ3EKF1003	MT-GLAZE 100K FA 1/10W	1	
R1697	ERJ3EKF1303	MT-GLAZE 130K FA 1/10W	1	
R1698	ERJ3EKF2403	MT-GLAZE 240K FA 1/10W	1	
R1699	ERJ3EKF1502	MT-GLAZE 15K FA 1/10W	1	
R1700	ERJ3EKF3302	MT-GLAZE 33K FA 1/10W	1	
R1701-08	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	8	
R1709-32	ERJ3EKF1000	MT-GLAZE 100 FA 1/10W	24	
R1733	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1734	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1735	ERJ2GEJ222	MT-GLAZE 2.2K JA 1/16W	1	
R1736	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
R1737,38	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	2	
R1739,40	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	2	
R1741-50	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	10	
R1751	ERJ2GEJ223	MT-GLAZE 22K JA 1/16W	1	
R1752	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1753	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	1	
R1755	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
R1757-60	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	4	
R1761	EXB28VR000	R-NETWORK 0X4	1	
R1763-67	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	5	
R1775,76	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	2	
R1778	EXB28VR000	R-NETWORK 0X4	1	
R1779	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	1	
R1781,82	ERJ2GEJ472	MT-GLAZE 4.7K JA 1/16W	2	
R1783-88	EXB28V220J	R-NETWORK 22X4	6	
R1789-92	ERJ3EKF5600	MT-GLAZE 560 FA 1/10W	4	
R1793-98	EXB28V220J	R-NETWORK 22X4	6	
R1799-02	ERJ3EKF5600	MT-GLAZE 560 FA 1/10W	4	
R1803	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	1	
R1804,05	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	2	
R1806,07	ERJ2GEJ101	MT-GLAZE 100 JA 1/16W	2	
R1808	ERJ2GEJ121	MT-GLAZE 120 JA 1/16W	1	
R1809-13	EXB28VR000	R-NETWORK 0X4	5	
R1814-17	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	4	
R1818	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1819,20	ERJ3EKF5600	MT-GLAZE 560 FA 1/10W	2	
R1821,22	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	2	
R1823,24	ERJ2GEJ101	MT-GLAZE 100 JA 1/16W	2	
R1825	ERJ2GEJ121	MT-GLAZE 120 JA 1/16W	1	
R1826-30	EXB28VR000	R-NETWORK 0X4	5	
R1831-34	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	4	
R1835	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1836,37	ERJ3EKF5600	MT-GLAZE 560 FA 1/10W	2	
R1838,39	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	2	
R1840,41	ERJ2GEJ101	MT-GLAZE 100 JA 1/16W	2	
R1842	ERJ2GEJ121	MT-GLAZE 120 JA 1/16W	1	
R1843-47	EXB28VR000	R-NETWORK 0X4	5	
R1848-51	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	4	
R1852	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1853,54	ERJ3EKF5600	MT-GLAZE 560 FA 1/10W	2	
R1855,56	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	2	
R1857,58	ERJ2GEJ101	MT-GLAZE 100 JA 1/16W	2	
R1859	ERJ2GEJ121	MT-GLAZE 120 JA 1/16W	1	
R1860-64	EXB28VR000	R-NETWORK 0X4	5	
R1865-68	ERJ2GE0R00	MT-GLAZE 0.000 ZA 1/16W	4	
R1869	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1870,71	ERJ3EKF5600	MT-GLAZE 560 FA 1/10W	2	
R1872	ERJ3EKF8200	MT-GLAZE 820 FA 1/10W	1	
R1873	ERJ3EKF4700	MT-GLAZE 470 FA 1/10W	1	
R1886,87	ERJ3GEYJ101	MT-GLAZE 100 JA 1/10W	2	
R1888	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1889	ERJ3GEYJ181	MT-GLAZE 180 JA 1/10W	1	
R1890	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
R1891	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1892	ERJ3GEYJ181	MT-GLAZE 180 JA 1/10W	1	
R1893-97	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	5	
R1899-02	ERJ1TYJ7R5	MT-GLAZE 7.5 JA 1W	4	
R1906,07	ERJ3EKF2202	MT-GLAZE 22K FA 1/10W	2	
R1910	ERJ3EKF2403	MT-GLAZE 240K FA 1/10W	1	
R1911	ERJ2GEJ123	MT-GLAZE 12K JA 1/16W	1	
R1912	ERJ3EKF2403	MT-GLAZE 240K FA 1/10W	1	
R1914	ERJ2GEJ153	MT-GLAZE 15K JA 1/16W	1	
R1915	ERJ3EKF1003	MT-GLAZE 100K FA 1/10W	1	
R1916	ERJ3EKF3573	MT-GLAZE 357K FA 1/10W	1	
R1918	ERJ3EKF3163	MT-GLAZE 316K FA 1/10W	1	
R1919	ERJ3EKF2403	MT-GLAZE 240K FA 1/10W	1	
R1928-31	ERJ2GEJ560	MT-GLAZE 56 JA 1/16W	4	
R1932	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	
R1933	ERJ3EKF51R0	MT-GLAZE 51 FA 1/10W	1	
R1934	ERJ2GEJ220	MT-GLAZE 22 JA 1/16W	1	
R1935	ERJ3EKF51R0	MT-GLAZE 51 FA 1/10W	1	
R1936	ERJ3GEY0R00	MT-GLAZE 0.000 ZA 1/10W	1	

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