## **Model Hadar-PJ1**

**Machine Codes:** 

Y088/089/090/091

**Field Service Manual** 

## **Important Safety Notices**

#### **Important Safety Notices**

#### Prevention of physical injury

- 1. Before disassembling or assembling parts of the main machine and peripherals, make sure that the power cord of the main machine is unplugged.
- 2. The wall outlet should be near the machine and easily accessible.
- 3. If any adjustment or operation check has to be made with exterior covers off or open while the main switch is turned on, keep hands away from electrified or mechanically driven components.

#### **⚠ WARNING**

 To prevent a fire or explosion, keep the machine away from flammable liquids, gases, and aerosols.

#### Health safety conditions

This machine, which uses a high voltage power source, can generate ozone gas. High ozone
density is harmful to human health. Therefore, the machine must be installed in a well-ventilated
room.

#### Observance of electrical safety standards

• This machine and its peripherals must be serviced by a customer service representative who has completed the training course on those models.

#### Safety and Ecological Notes for Disposal

• Dispose of replaced parts in accordance with local regulations.

## Symbols, Abbreviations and Trademarks

This manual uses several symbols and abbreviations. The meaning of those symbols and abbreviations are as follows:

OPP	Screw
De.	Shoulder screw
(C)	Black screw (TCRU)
<b>F</b>	Connector
	FFC (Flat Film Connector)
<b>\$</b>	Harness clamp
W	Clip
<b>®</b>	E-ring
Ø	C-ring
0	Timing belt
	Spring

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# **TABLE OF CONTENTS**

Important Safety Notices	1
Important Safety Notices	1
Prevention of physical injury	1
Health safety conditions	1
Observance of electrical safety standards	1
Safety and Ecological Notes for Disposal	1
Symbols, Abbreviations and Trademarks	2
Trademarks	2
1. Product Information	
Overview	9
Main Unit	9
Control Panel	10
LED Indicators	11
Connection Ports	11
Specifications	13
General Specifications	13
Compatible Mode	15
VGA Analog	15
HDMI	18
2. Installation	
Installation Requirements	23
Environment/Power Requirements	23
Machine Dimensions	23
Main Machine Installation	24
Accessory Check	24
Precautions	25
Do	29
Do not	29
3. Replacement and Adjustment	
Special Tools	31
Equipment Needed	32
Parts List	33
Service Parts List	33

Replaceable Part Hierarchy	35
Part Replacement	36
Lens Cap	36
Adjustable Foot	36
Lamp Cover / Lamp Module	37
Top Cover Unit	37
Top cover unit	37
LED board	39
Keypad board	40
Control panel / Top cover	42
Front Cover	42
Left Cover	44
Blower Fan	45
Main Board Assembly	47
Connector list	47
Main board assembly	49
Sub board	50
LVPS	51
PSU	53
System Fan	54
Lamp Cable / Lamp Cable Holder	56
Optical System Unit	57
Optical system unit	57
Lens shift lever	58
Interlock switch	59
Color wheel module	59
Photo sensor board	60
Thermistor	61
Motor sensor board harness	62
Right Cover	62
Speaker (inside the right cover)	64
Rear Cover	64
Speaker (inside the rear cover)	65

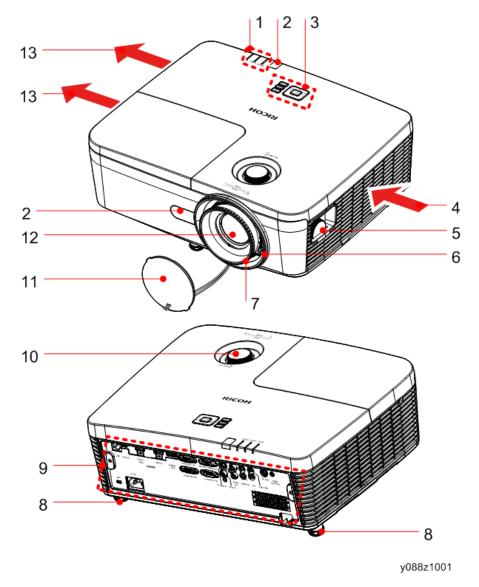
AC Inlet	65
DMD Fan	67
Bottom Cover	67
Required Action After Replacing Parts	70
4. Troubleshooting	
LED Display	
Main Procedures	72
Rod Adjustment	75
5. Test & Inspection	
Service Mode	77
How to Enter the Service Mode	77
Service Mode Settings	77
Test Equipment and Conditions	82
Test Equipment Needed	82
Recommended Test Condition	82
Calibration	83
Waveform Download and Fan Calibration	83
Re-write Lamp Hours	84
Color Wheel Index	87
Test Inspection Procedure	89
Check points	89
OSD Reset	89
6. Update	
Firmware Update	91
Equipment Needed	91
Firmware Update Procedure	92
DLP composer lite setup procedure	92
Get into firmware download mode	94
USB driver update procedure	95
Connect the projector to the PC	97
Firmware update procedure	98
Check system firmware version	102
Network Firmware Undate	103

Equ	ipment Needed	103
Net	work Firmware Update Procedure	104
	Confirm the projector IP	104
	PC network setting	105
	Network firmware update procedure	106

# 1. Product Information

## Overview

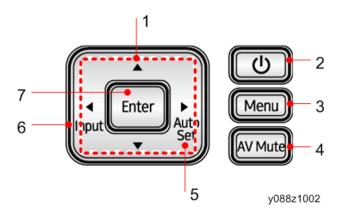
## Main Unit



- 1. LED indicators
- 2. Remote receiver

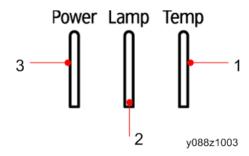
- 3. Control panel
- 4. Ventilation (inlet)
- 5. Lens shift lever (left/right)
- 6. Zoom lever
- 7. Focus ring
- 8. Adjustable feet
- 9. Connection ports
- 10. Lens shift lever (up/down)
- 11. Lens cap
- 12. Lens
- 13. Ventilation (outlet)

#### Control Panel



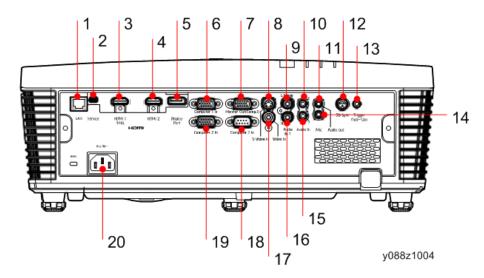
- 1. Four directional select keys
- 2. Power
- 3. Menu
- 4. AV Mute
- 5. Auto Set
- 6. Input
- 7. Enter

#### **LED Indicators**



- 1. Temp indicator
- 2. Lamp indicator
- 3. Power indicator

#### **Connection Ports**



- 1. LAN terminal
- 2. Service terminal
- 3. HDMI 1/MHL In terminal
- 4. HDMI 2 In terminal
- 5. DisplayPort terminal
- 6. Computer 1 In terminal
- 7. Monitor Out terminal
- 8. S-Video In terminal

- 9. Composite Audio Input (left) terminal
- 10. Audio 2 In terminal
- 11. Audio Out terminal
- 12. 3D Sync terminal
- 13. Trigger Out (+12v) terminal
- 14. Microphone jack
- 15. Audio 3 In terminal
- 16. Composite Audio Input (right) terminal
- 17. Video In terminal
- 18. PC Control terminal
- 19. Computer 2 In terminal
- 20. AC In socket



• The interface is subject to model's specifications.

#### ſ

# **Specifications**

## **General Specifications**

No	ltem	Description	
1	Dimensions (W x D x H)	<ul> <li>424.0 x 351.8 x 145.0 mm (without feet)</li> <li>424.0 x 351.8 x 155.5 mm (with feet)</li> </ul>	
2	Weight	6.0 ±0.5 kg	
3	Power supply	Universal AC: 100V - 240V ±10%, 50 - 60Hz	
4	Power consumption	<ul> <li>Bright mode:     Typical 450W, MAX 495W @110VAC     Typical 425W, MAX 470W @220VAC</li> <li>ECO mode:     Typical 360W, MAX 395W @110VAC     Typical 350W, MAX 385W @220VAC</li> <li>Standby mode &lt; 0.5W @110V/220VAC</li> </ul>	
5	Keystone correction	±30 degree	
6	Throw ratio	<ul> <li>1.241 - 2.222 (D/W) (for XGA)</li> <li>1.197 - 2.161 (D/W) (for WUXGA)</li> </ul>	
7	Projection lens	F# 2.46 - 3.2, f=21.85 - 24 mm, 1.8X Mechanical Zoom Lens	
8	Offset	<ul> <li>95% - 105% ±10% (for XGA)</li> <li>100% - 120% ±10% (for WUXGA)</li> </ul>	
9	Lamp life	Bright mode: 2500 hours     ECO mode: 3000 hours	

No	ltem	Description
10	DMD chip & Number of active dots	<ul> <li>For XGA: <ul> <li>0.7", DMD 1 chip 2xLVDS (FTP), DDP4421, S600 HB type</li> <li>Number of active dots: 1024x768</li> </ul> </li> <li>For WUXGA: <ul> <li>0.67", DMD 1 chip 2xLVDS (FTP), DDP4421, S600 HB type</li> <li>Number of active dots: 1920x1200</li> </ul> </li> </ul>
11	System controller	<ul><li>TI DDP4421-HV (for XGA)</li><li>TI DDP4422-HV (for WUXGA)</li></ul>
12	Video compatibility	<ul> <li>NTSC: M (3.58MHz), 4.43MHz</li> <li>PAL: B, D, G, H, I, M, N</li> <li>SECAM: B, D, G, K, K1, L</li> <li>SDTV: 480i/p, 576i/p</li> <li>HDTV: 720p (50/60Hz), 1080i/p (50/60Hz)</li> </ul>
13	Aspect ratio	<ul><li>4:3, 16:9, LBX, Native, Auto</li><li>4:3, 16:9 or 16:10, LBX, Native, Auto</li></ul>

No	ltem	Description
14	I/O Terminal	<ul> <li>D-Sub 15-pin female connector (VGA/Component video) x2</li> <li>Mini DIN 4-pin (S-Video) x1</li> <li>RCA Jack (Composite Video) x1</li> <li>D-SUB 9-pin RS-232 port x1</li> <li>RJ45 x1</li> <li>D-Sub 15-pin female connector (VGA output) x1</li> <li>3.5mm phone jack (Audio input) x2</li> <li>3.5mm phone jack (Audio out) x1</li> <li>3.5mm phone jack (Mic input) x1</li> <li>RCA audio jack (Audio input) x2</li> <li>HDMI x2</li> <li>Displayport x1</li> <li>USB, Type B (mini) x1</li> <li>Mini DIN 3-pin (VESA 3D sync output) x1</li> <li>3.5mm jack for 12V triggers output x1</li> </ul>
15	Temperature	Operating: 5°C to 40 °C    Non-operation: -20°C to 60°C
16	Altitude & Temperature	Operating:  • 0 to 2,500 ft, 5°C to 40°C  • 2,500 to 5,000 ft, 5°C to 35°C  • 5,000 to 10,000 ft, 5°C to 30°C

# Compatible Mode

## **VGA Analog**

Compatibility	Resolution	Refresh Rate [Hz]
PC Signal		

Compatibility	Resolution	Refresh Rate [Hz]
	440 400	60
VGA		72
VGA	640 x 480	75
		85
		56
		60
SVGA	800 x 600	72
		75
		85
		60
XGA	1024 x 768	70
XGA		75
		85
	1152 x 864	70
		75
		85
SXGA	1280 x 1024	60
		72
		75
		85
Own IVCA	1000 040	60
Quad VGA	1280 x 960	75
SXGA+	1400 x 1050	60
UXGA	1600 x 1200	60
WUXGA (RB)	1920 x 1200	60

Compatibility	Resolution	Refresh Rate [Hz]	
	(40, 400	60	
	640 x 480	66.6 (67)	
PowerBook G4	800 x 600	60	
rowerbook G4	1024 x 768	60	
	1152 x 870	75	
	1280 x 960	75	
i Mac DV (G3)	1024 x 768	75	
Extended Wide Timing			
WSVGA	1024 x 600	60	
		60	
	1280 x 768	75	
WXGA		85	
WXGA	1280 x 720	60	
	1280 x 800	60	
	1366 x 768	60	
WXGA+	1440 x 900	60	
WSXGA	1680 x 1050	60	
	1920 x 1080-RB	60	
WUXGA	1920 x 1080-EIA	60	
Component Signal			
480i	720 x 480	59.94 (29.97)	
480p	720 x 480	59.94	
576i	720 x 576	50 (25)	
576p	720 x 576	50	

Ш

Compatibility	Resolution	Refresh Rate [Hz]
720-	1280 x 720	60
720p		50
1000:	1920 x 1080	60 (30)
1080i		50 (25)
1000	1920 x 1080	60
1080p		50

#### **HDMI**

Compatibility	Resolution	Refresh Rate [Hz]
PC Signal		
	640 x 480	60
VGA		72
VGA		75
		85
		56
	800 x 600	60
SVGA		72
		75
		85
		60
VCA	1024 x 768	70
XGA		75
		85

Compatibility	Resolution	Refresh Rate [Hz]
	1152 x 864	70
		75
		85
SXGA		60
		72
	1280 x 1024	75
		85
O. IVOA	1000 040	60
Quad VGA	1280 x 960	75
SXGA+	1400 x 1050	60
UXGA	1600 x 1200	60
WUXGA (RB)	1920 x 1200	60
	640 x 480	60
		66.6 (67)
D D L C 4	800 x 600	60
PowerBook G4	1024 x 768	60
	1152 x 870	75
	1280 x 960	75
i Mac DV (G3)	1024 x 768	75
Extended Wide Timing		
WSVGA	1024 x 600	60

Compatibility	Resolution	Refresh Rate [Hz]
	1280 x 768	60
		75
NAME A		85
WXGA	1280 x 720	60
	1280 x 800	60
	1366 x 768	60
WXGA+	1440 x 900	60
WSXGA	1680 x 1050	60
	1920 x 1080-RB	60
WUXGA	1920 x 1080-EIA	60
	1920 x 1200-RB	59.95
Video Signal		
480i	720 x 480	59.94 (29.97)
480p	720 x 480	59.94
576i	720 x 576	50 (25)
576p	720 x 576	50
720-	1280 x 720	60
720p		50
1000:	1920 x 1080	60 (30)
1080i		50 (25)
	1920 x 1080	60
1080p		50
		23.97/24



• If the computer compatibility supportive signal is different from the User's Manual, refer to the User's Manual.

## 2. Installation

## **Installation Requirements**

### **Environment/Power Requirements**

#### Operating temperature

 $5^{\circ}$ C to  $40^{\circ}$ C /  $41^{\circ}$ F to  $104^{\circ}$ F

#### Power supply

100 - 240VAC ± 10%, 50 - 60Hz (Auto-ranging and power factor correction)

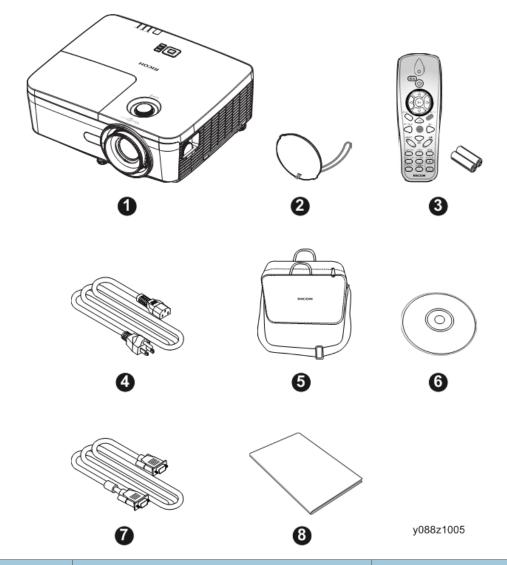
#### **Machine Dimensions**

- With feet:  $424.0 \times 351.8 \times 155.5 \text{ mm}$  (W x D x H)
- Without feet: 424.0 x 351.8 x 145.0 mm (W x D x H)

# Main Machine Installation

The user must set this projector up.

## Accessory Check



No	Description	Q'ty
1	Projector	1
2	Lens Cap	1

2

No	Description	Q'ty
3	Remote Control (with batteries)	1
4	Power Cord	1
5	Carrying Bag	1
6	CD-ROM (*)	1
7	RGB Cable	1
8	Read This First	1

(\*) This supplied CD-ROM contains a user's manual in PDF format.



• Due to different applications in each country, some regions may have different accessories.

#### **Precautions**

Please follow all warnings, precautions and maintenance as recommended in this manual to maximize the life of your unit.

### **WARNING**

• This apparatus must be earthed.

## **WARNING**

• Do not look into the projector's lens when the lamp is on. The bright light may hurt your eyes.

### **MARNING**

• To reduce the risk of fire or electric shock, do not expose this projector to rain or moisture.

#### **WARNING**

• Do not open or disassemble the projector as this may cause electric shock.

#### **MARNING**

 When replacing the lamp, allow unit to cool down at least 60 minutes, and follow all replacement instructions.

### **MARNING**

• Do not use lens cap when projector is powered on.

#### **WARNING**

When the lamp reaches the end of its life, it will burn out and may make a loud popping sound. If
this happens, the projector will not turn back on until the lamp module has been replaced. To
replace the lamp, follow the procedures listed under "Lamp Cover / Lamp Module" in "Part
Replacement".

#### **WARNING**

• Do not remove the cabinet cover, or you may be exposed to dangerous voltage. Refer servicing to qualified service personnel only.

#### **WARNING**

This product should be operated only from the type of power source which does not exceed the
voltage range specified on the rating label and the power cord. If you are not sure of the type of
power supply to your home, consult your sales representative or local power company.

#### **WARNING**

• Do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely with three wire grounding type to prevent blade exposure. Failure to follow these instructions may result in fire or electric shock.

#### **WARNING**

Plastic bags can be dangerous; please do not leave near babies and young children. To avoid the
threat of suffocation, please keep away from their nose and mouth.

### **<b>∴** WARNING

Do not ingest battery, Chemical Burn Hazard. Keep new and used batteries away from children. If
the battery compartment does not close securely, stop using the product and keep it away from
children. If you think batteries might have been swallowed or placed inside any part of the body,
seek immediate medical attention.

### **⚠WARNING**

- Installing the Projector on a Wall or Ceiling:
  - 1. Do not attempt to clean or replace parts for a machine that is installed in a high location on a wall or ceiling. Doing so may cause it to fall down, resulting in an injury.
  - Do not open the lamp cover of a machine that is installed on a wall or ceiling. Doing so may cause the lamp cover to fall down. If the lamp is broken, pieces of glass may fall and cause an injury.
  - Contact your sales or service representative to clean or replace parts for a machine that is installed on a wall or ceiling.

- If a machine is incorrectly installed on a wall or ceiling, it may fall down and cause an injury.
  Contact your sales or service representative if you want to install a machine on a wall or
  ceiling.
- 5. Do not obstruct the machine's vents. Doing so risks fire caused by overheated internal components.
- 6. For users, do not install the projector by yourself. Contact your sales or service representative if you want to install the projector on a wall or ceiling.
- 7. For sales or service representatives:
  - Use brackets that are strong enough to support the projector. The projector weighs about 6.0 kg (13.2 lb.).
  - The projector must be installed in a location that is sturdy enough to support the full weight of the projector and brackets.
  - Use only the screws (three M4×16 screws) provided with the projector to attach the brackets to the projector.
  - Use all three of the projector's screw holes to attach the brackets. The locations of the screw holes are shown in the illustration below. Make sure that the screws are tightened firmly.

#### **ACAUTION**

 This projector will detect the life of the lamp itself. Be sure to change the lamp when it shows warning messages.

### **CAUTION**

 Never operate this unit on AC power during a thunderstorm. If you see lightning or hear thunder, never touch the unit, cables and/or peripherals. An electric surge caused by the storm, may result in an electrical shock or damage to the unit.

### **ACAUTION**

Never push objects of any kind into this product through openings as they may touch dangerous
voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any
kind on the product.

## **CAUTION**

• Do not place or keep the projector within the reach of the children. It may fall or tip over, possibly causing serious injury.

### **ACAUTION**

Do not stack other equipment on this product and do not place this product on other equipment.
 The top and bottom surface of this product increase in temperature during normal use and may damage the other unit.

#### **ACAUTION**

Do not use attachments not recommended by RICOH. Use of incompatible attachments could
cause hazards or damage to the product.

### **ACAUTION**

• Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the product.

#### **ACAUTION**

- Unplug this product from the wall outlet and take the product to qualified service personnel if you
  encounter any of the following conditions:
  - 1. The power supply cord or plug is damaged.
  - 2. Liquid has been spilled, or objects have fallen into the product.
  - 3. The product has been exposed to rain or water.
  - 4. The product does not operate normally when following the operating instructions. Adjust only those controls that are covered by the operating instructions.
  - 5. The product has been dropped or damaged in any way. (If the cabinet should break, please handle with care to avoid injury.)

#### **ACAUTION**

This product incorporates glass components, including a lens and a lamp. If these should break,
please handle with care to avoid injury and contact your sales representative for repair service.
Avoid any broken pieces of glass since they may cause injury. In the unlikely event that the lamp
ruptures, thoroughly clean the area around the projector and discard any edible items placed in
that area since they may be contaminated.

### **CAUTION**

• Do not place anything in front of the lens while the projector is operating. Things placed in front of the lens may overheat and burn or start a fire.

## **ACAUTION**

 Unauthorized substitutions may result in fire, electric shock, or other hazards. (Only the replacement of the lamp should be made by users.)

## **CAUTION**

 Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to verify that the product is in proper operating condition.

### **ACAUTION**

• Do not leave thermal paper documents or easily deformed items on top of the unit or near the air exhaust for long periods of time.

#### **ACAUTION**

 The heat from the unit could erase the information on the thermal paper, or cause deformation or warping.

### **ACAUTION**

• Do not use the product in a closed installation location. Do not place the product in a box or in any other closed installation location. Otherwise it may overheat, which could result in a risk of fire.

#### Do

- After unpacking this product, read the manual carefully, and follow all the operating and other instructions.
- Turn off the product before cleaning.
- Use a soft cloth moistened with mild detergent to clean the display housing.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

#### Do not

- Block the slots and openings on the unit provided for ventilation.
- Use abrasive cleaners, waxes or solvents to clean the unit.
- Use under the following conditions:
  - Extremely heat, cold or humidity.
  - In areas susceptible to excessive dust and dirt.
  - Near any appliance generating a strong magnetic field.
  - In direct sunlight.

#### J

# 3. Replacement and Adjustment

## **Special Tools**

Make sure that engineers are equipped with the following tools, which will be necessary in order to update the firmware, and to perform adjustments that are necessary after replacing the main board (page 49 "Main board assembly").

- 1. USB Cable mini USB to USB (A)
- 2. Laptop
- 3. LAN Cable

# **Equipment Needed**

- 1. Screw bit (+): +No.2 or +No.1
- 2. Screw bit (+): +No.0
- 3. Hex sleeves 5 mm
- 4. Projector



3

## **Parts List**

#### **Service Parts List**

- Lens cap
- Adjustable foot x3
- Lamp cover
- Lamp module
- Top cover
- LED board
- FFC cable (Main board to LED board)
- Keypad board
- FFC cable (Main board to Keypad board)
- Control panel
- Control panel (Enter key)
- Front cover (including IR sensor board)
- Left cover
- Blower fan
- Screw (for Blower fan)
- Rubber pad (for Blower fan)
- Harness clamp (for Blower fan)
- Main board
- Sub board
- LVPS
- Harness (Main board to LVPS)
- PSU
- Harness (Main board to PSU)
- Harness (LVPS to PSU)
- System fan x2
- Lamp cable
- Lamp cable holder
- Optical system unit
- Hex screw (for Optical system unit)

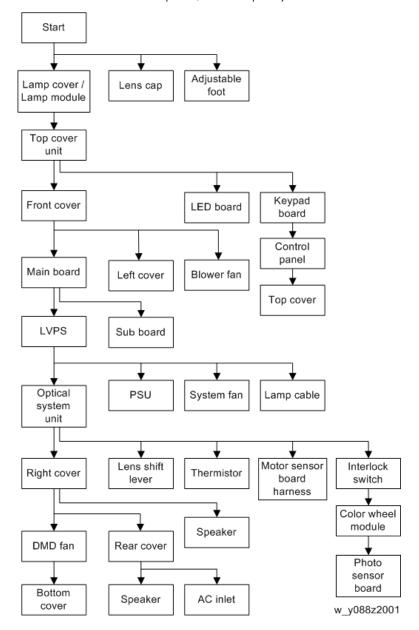
- Lens shift lever (up/down)
- Lens shift lever (left/right)
- Interlock switch
- Color wheel module
- Photo sensor board
- Thermistor
- Harness clamp (for Thermistor)
- Harness (Main board to Motor sensor board)
- Right cover
- Rear cover
- AC inlet
- Speaker x2
- DMD fan
- Screw (for DMD fan)
- Rubber pad (for DMD fan)
- Bottom cover
- Tape (for Keypad board, LED board)
- Fixing wire
- Band

# Replaceable Part Hierarchy

The flow chart below shows what parts must be removed to access each replaceable part in the projector.

The parts on the first level (e.g., Lens cap) are accessible without removing any other parts.

The more levels down that a part is, the more parts you need to remove in order to access it.



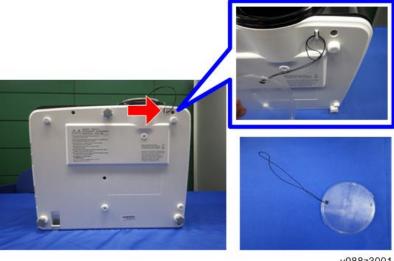
# **Part Replacement**



• This process is protective level II. Operators should wear electrostatic chains.

### **Lens Cap**

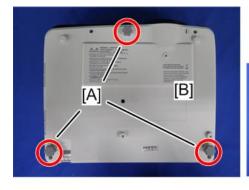
1. Untie the string of the lens cap from the bottom cover.



#### y088z3001

## Adjustable Foot

1. Remove the 3 adjustable feet [A] from the bottom cover [B].

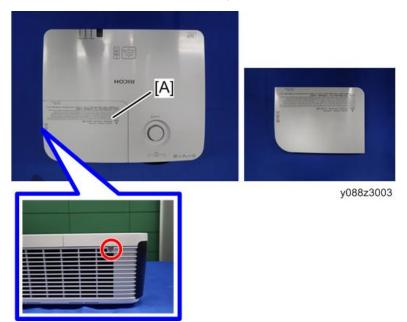




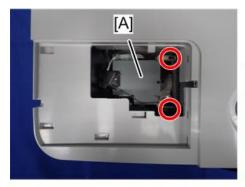
y088z3002

# Lamp Cover / Lamp Module

1. Loosen the screw and remove the lamp cover [A]. ( \*\*1)



Loosen the screws, and then lift up the lamp handle and remove the lamp module [A]. (\$\mathbb{O}^{\mathcal{O}}\$ x2)





y088z3004

# **Top Cover Unit**

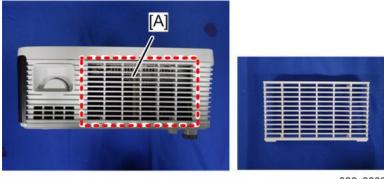
### Top cover unit

1. Lamp cover and lamp module (page 37 "Lamp Cover / Lamp Module")



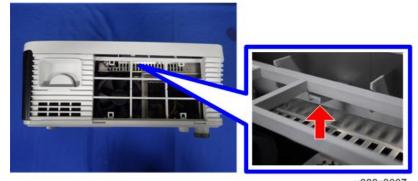
y088z3005

3. Remove the filter cover [A] from the right cover.



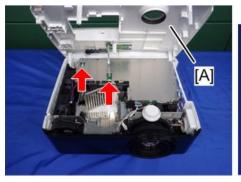
y088z3006

4. Release the hook at the inside of the top cover.



y088z3007

5. Disconnect the FFC cables and remove the top cover unit [A]. (\*\*x2)

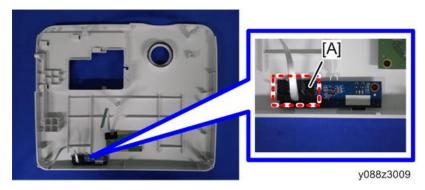




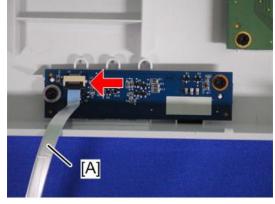
y088z3008

### LED board

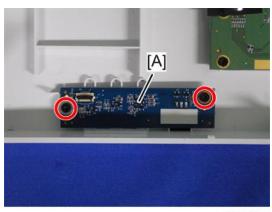
- 1. Top cover unit (page 37 "Top cover unit")
- 2. Remove the tape [A] on the connector.



3. Remove the FFC cable [A]. (\*\*\*1)



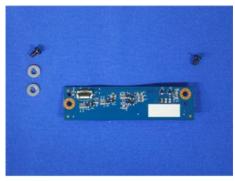
y088z3010



y088z3011



• There are two washers attached to the screw at the side of the FFC cable.



y088z3012

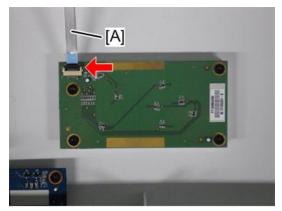
## Keypad board

1. Top cover unit (page 37 "Top cover unit")

### 2. Remove the tape [A] on the connector.

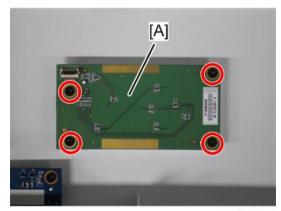


3. Remove the FFC cable [A]. (\*\*\*\*\*1)



y088z3014

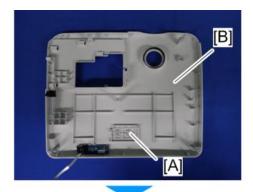
4. Remove the keypad board [A] from the top cover. (\$\mathbb{O}^{\times} \times 4)\$



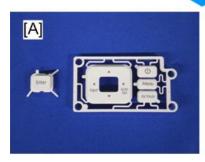
y088z3015

### Control panel / Top cover

- 1. Keypad board (page 40 "Keypad board")
- 2. Separate the control panel [A] and the top cover [B].



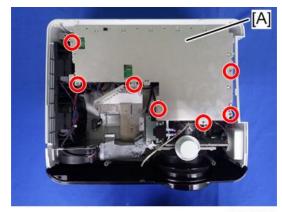
y088z3016





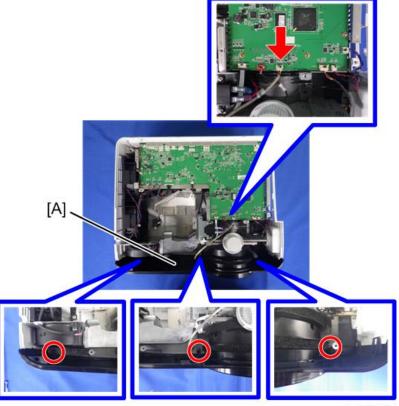
### Front Cover

- 1. Top cover unit (page 37 "Top cover unit")
- 2. Bracket [A] (@x7)



y088z3017

# 3. Front cover [A] (௸×3, ௸×1)



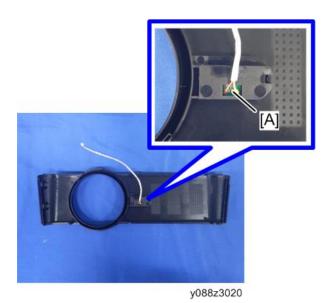
y088z3018



y088z3019

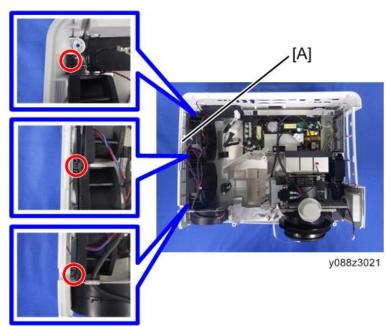
**U**Note

• The IR sensor board [A] is attached at the inside of the front cover. Replace the front cover including the IR sensor board.



## Left Cover

- 1. Front cover (page 42 "Front Cover")
- 2. Left cover [A] (\$\mathscr{O}^{\mathscr{O}} \times 3)

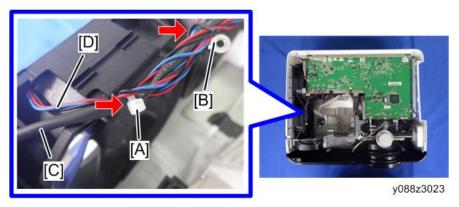




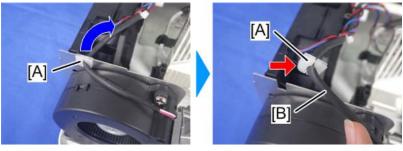
y088z3022

### **Blower Fan**

- 1. Front cover (page 42 "Front Cover")
- 2. Cut the band [A] and release the fixing wire [B] to separate the blower fan harness [C] and the system fan harnesses [D].

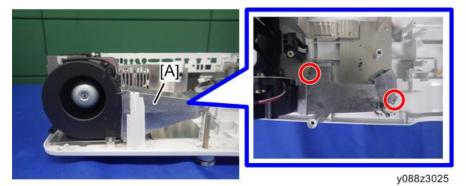


3. Remove the harness clamp [A] from the bracket and separate it from the blower fan harness [B]. (🕅×1)

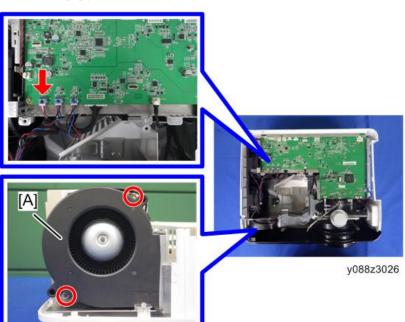


y088z3024

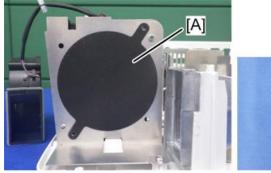
# 4. Remove the top blower duct [A]. (©×2)



5. Blower fan [A] (🖤×2, ❤️×1)



6. Separate the rubber pad [A] from the bracket.





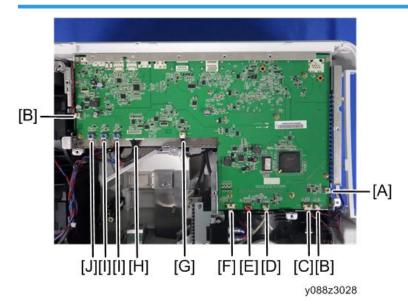
y088z3027

# Main Board Assembly



• If you need to replace the main board assembly, you have to get into service mode and record the lamp usage hour. (page 84 "Re-write Lamp Hours")

#### **Connector list**



Refer to the table as below for details of each connector.

Item	Connector on Main Board	Key Feature	Figure	
A*	DMD fan	Red/Blue/Black wire (3 pin)	y088z3073	
В	Speaker	Red/Black wire (2 pin)	y088z3074	
С	Motor sensor board	Red/Black/Red/Yellow/White wire, with black wire tube (5 pin)	y088z3075	
D*	IR sensor board	Red/Black/Yellow wire, with white wire tube (3 pin)	y088z3076	
E*	Photo sensor board	Red/Black/White wire, red connector and black wire tube (3 pin)	y088z3077	
F	Color wheel	FFC cable	y088z3078	
G	LVPS	Black wire tube (5 pin)	y088z3079	
Н	PSU	Black wire tube (16 pin)	y088z3080	

Item	Connector on Main Board	Key Feature	Figure
l*	System fan	Red/Blue/Black wire (3 pin)	y088z3073
J*	Blower fan	Red/White/Black wire, with black wire tube (3 pin)	y088z3081

<sup>\*</sup> Be careful not to connect the connectors A, D, E, I and J to the wrong position because they are the same in the pin shape which is 3-pin.

### Main board assembly

- 1. Top cover unit (page 37 "Top cover unit")
- 2. Bracket [A] (@x7)



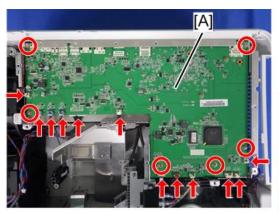
y088z3017





y088z3029

4. Main board assembly [A] (@×6, F×12)



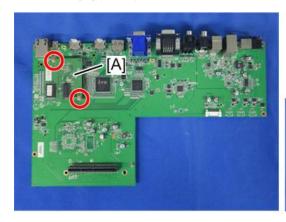


y088z3030

#### Sub board

1. Main board assembly (page 49 "Main board assembly")

# 2. Sub board [A] (5 ×2)

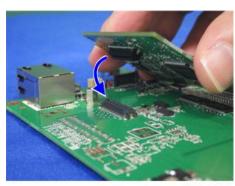




y088z3031



• Make sure that the orientation of the connector is correct when attaching the sub board.



y088z3032

# LVPS

1. Main board assembly (page 49 "Main board assembly")

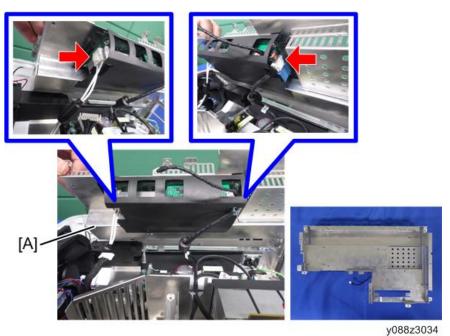
2. Remove the 2 screws (red circles) and 2 hex screws (yellow circles) from the bracket. ((3)° ×4)



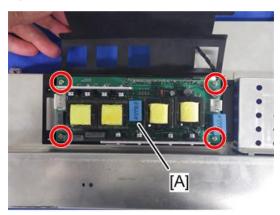
y088z3033

3. Bracket [A] (5 ×2)

The LVPS is attached to the bottom side of the bracket.

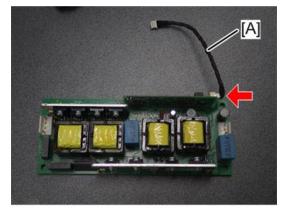


4. Open the black cover, and then remove the LVPS [A] from the holder. (50 ×4)



y088z3035

5. Separate the LVPS harness [A] from the LVPS. (5 ×1)

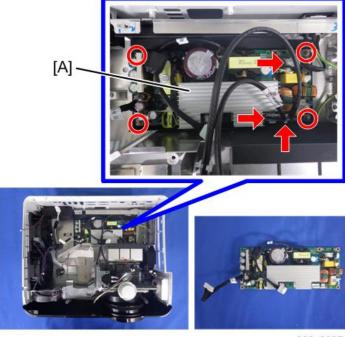


y088z3036

### PSU

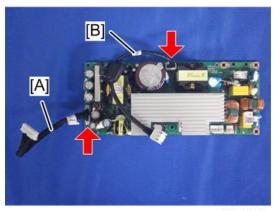
1. Remove the bracket including the LVPS. (page 51 "LVPS")

# 2. PSU [A] (\$\text{\$\ext{\$\text{\$\ext{\$\extilty}\$\$\$\text{\$\ext{\$\text{\$\text{\$\text{\$\text{\$\tinx{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exititt{\$\text{\$\text{\$\texi\\$}}}\$}\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitit\



y088z3037

3. Separate the PSU harness [A] and the LVPS connection harness [B] from the PSU. (%×2)

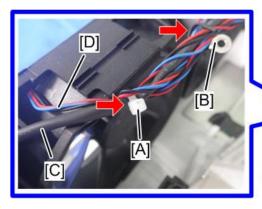


y088z3038

# System Fan

1. Remove the bracket including the LVPS. (page 51 "LVPS")

2. Cut the band [A] and release the fixing wire [B] to separate the blower fan harness [C] and the system fan harnesses [D].





y088z3039

3. Lift up the system fans [A] to remove them.



y088z3040

**U**Note

• Hold the fan module in the correct way.





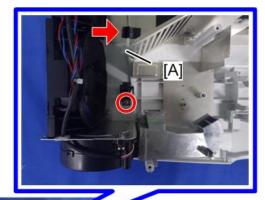




w\_y042m0021

# Lamp Cable / Lamp Cable Holder

- 1. Remove the bracket including the LVPS. (page 51 "LVPS")
- 2. Lamp cable [A] (@x1, tapex1)

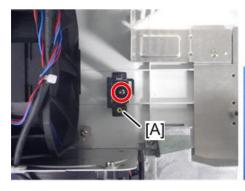


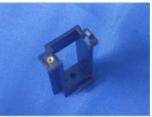




y088z3041

3. Lamp cable holder [A] (🎾×1)



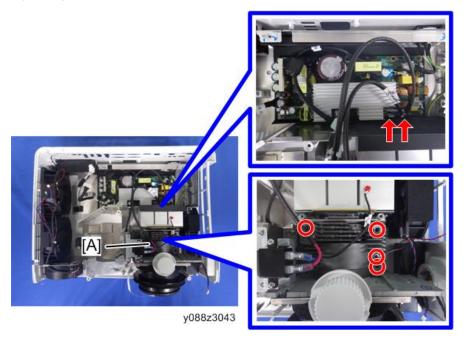


y088z3042

# **Optical System Unit**

### Optical system unit

- 1. Front cover (page 42 "Front Cover")
- 2. Remove the bracket including the LVPS. (page 51 "LVPS")
- 3. Optical system unit [A] (@×4, @×2)

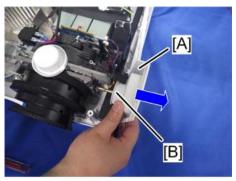




y088z3044



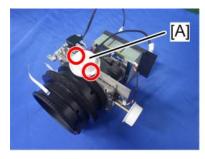
• When removing the optical system unit, pull out the right cover [A] to pull out the lens shift lever (left/right) [B] from the hole in the cover.



y088z3045

### Lens shift lever

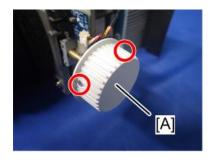
- 1. Optical system unit (page 57 "Optical system unit")
- 2. Lens shift lever (up/down) [A] (@x2)

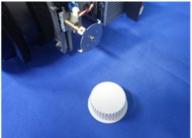




y088z3046

3. Lens shift lever (left/right) [A] (\$\mathscr{O}^{\mathscr{D}} \times 2)\$





y088z3047



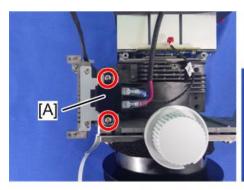
• The shapes of the two lens shift levers are different: the one for up/down [A] and the one for left/right [B].



y088z3048

#### Interlock switch

- 1. Optical system unit (page 57 "Optical system unit")
- 2. Interlock switch [A] (9 ×2)



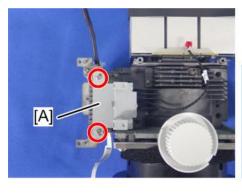


y088z3049

#### Color wheel module

1. Interlock switch (page 59 "Interlock switch")

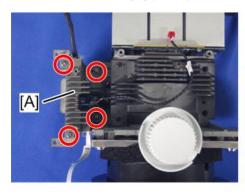
# 2. Bracket [A] (@x2)

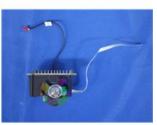




y088z3050

# 3. Color wheel module [A] (9°×4)

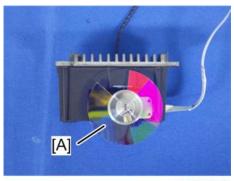




y088z3051

**U** Note

• Do not touch the color wheel [A] when removing the color wheel module.

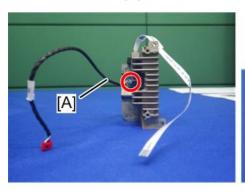


y088z3052

### Photo sensor board

1. Color wheel module (page 59 "Color wheel module")

# 2. Photo sensor board [A] ( \*\*1)

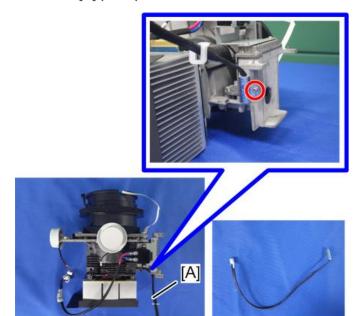




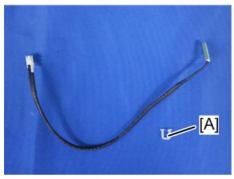
y088z3053

### **Thermistor**

- 1. Optical system unit (page 57 "Optical system unit")
- 2. Thermistor [A] (🏵×1)



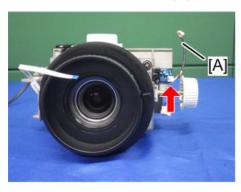
y088z3054



y088z3055

#### Motor sensor board harness

- 1. Optical system unit (page 57 "Optical system unit")
- 2. Motor sensor board harness [A] (\*\*1)



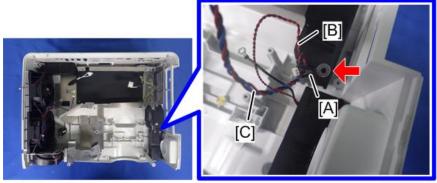


y088z3056

# **Right Cover**

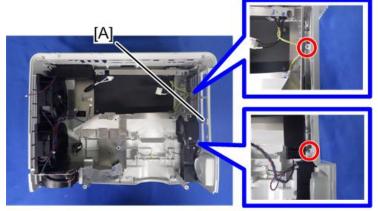
1. Optical system unit (page 57 "Optical system unit")

2. Release the fixing wire [A] to separate the speaker harness [B] from the DMD fan harness [C].



y088z3057

3. Right cover [A] ( ×2)



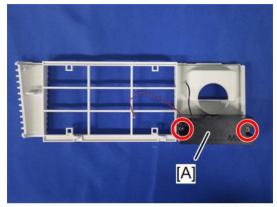
y088z3058



y088z3059

## Speaker (inside the right cover)

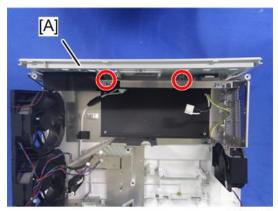
- 1. Right cover (page 62 "Right Cover")
- 2. Speaker [A] (@x2)



y088z3060

### Rear Cover

- 1. Left cover (page 44 "Left Cover")
- 2. Right cover (page 62 "Right Cover")
- 3. Rear cover [A] ( \$\mathbb{O}^{\mathbb{N}} \times 2 )



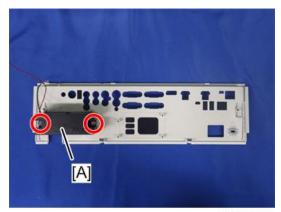
y088z3061



y088z3062

### Speaker (inside the rear cover)

- 1. Rear cover (page 64 "Rear Cover")
- 2. Speaker [A] (@x2)

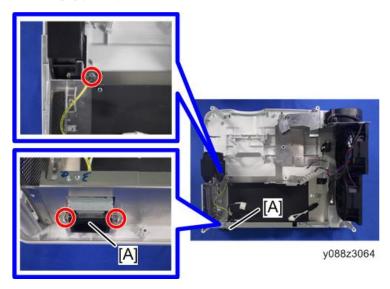


y088z3063

### AC Inlet

- 1. PSU (page 53 "PSU")
- 2. Rear cover (page 64 "Rear Cover")

# 3. AC inlet [A] (\$\mathbb{O}^{\text{x}} \times 3)

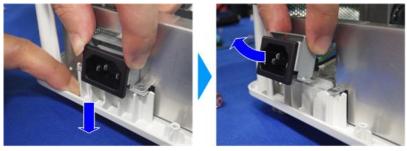




y088z3065

**U** Note

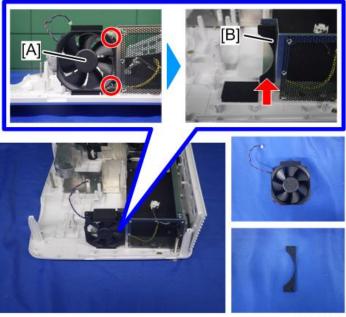
• Push the bottom cover downward, and then pull out the AC inlet.



y088z3066

### DMD Fan

- 1. Right cover (page 62 "Right Cover")
- 2. DMD fan [A] and rubber pad [B] (🍪 ×2)



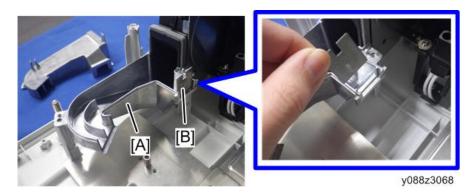
y088z3067

### **Bottom Cover**

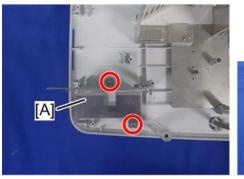
- 1. PSU (page 53 "PSU")
- 2. Blower fan (page 45 "Blower Fan")

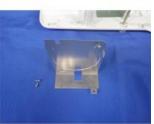


• Remove the bottom blower duct [A] and plate [B] after removing the blower fan. The plate is inserted into a groove and the front and rear surfaces are different.



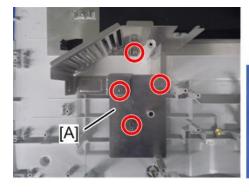
- 3. System fans (page 54 "System Fan")
- 4. DMD fan (page 67 "DMD Fan")
- 5. Rear cover (page 64 "Rear Cover")
- 6. AC inlet (page 65 "AC Inlet")
- 7. Lamp cable and lamp cable holder (page 56 "Lamp Cable / Lamp Cable Holder")
- 8. Remove the blower fan bracket [A]. (\$\mathbb{O}^\* \times 2\$)





y088z3069

9. Remove the lamp module bracket [A]. (5°×4)

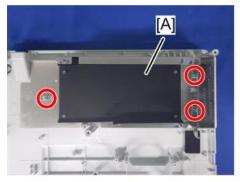




y088z3070

#### J

# 10. Remove the PSU holder [A]. (©×3)





y088z3071



y088z3072

### 11. Adjustable feet (page 36 "Adjustable Foot")

# **Required Action After Replacing Parts**

After replacing parts, please execute the related items shown in the table below.

	Changed parts				Software		
Action after repair	Main board	Lamp module	Blower fan	Color wheel	LVPS	After firmware update	Description page
Firmware update	٧					-	Chapter 6. (page 91 "Update")
Color wheel index	v			V			Chapter 5. (page 87 "Color Wheel Index")
OSD reset	V	v				V	Chapter 5. (page 89 "OSD Reset")
Re-write lamp usage hours	V						Chapter 5. (page 84 "Re-write Lamp Hours")
Fan calibration	v		v		V	v	Chapter 5.  (page 83  "Waveform  Download and  Fan  Calibration")



- After parts replacement or repair, check that the projector works properly.
- Project images on the screen and check that they are not faulty.
- If color appears abnormal after changing the main board, do the color wheel index adjustment. (page 87 "Color Wheel Index")

# 4. Troubleshooting

## **LED Display**

## LED status and meanings

AA	Power LED		Lamp LED	Temp LED
Message	Red	Blue	Red	Red
Standby state (Input power cord)	Steady light	-	-	-
Power on (Warming up)	-	Flashing	-	-
Power on & lamp lighting	-	Steady light	-	-
Power off (Cooling down)	Flashing	-	-	-
Programming	Steady light	Steady light	Steady light	Steady light
Temperature error (Over temperature)	-	Steady light	-	Steady light
Lamp error (Lamp failed)	-	Steady light	Steady light	-
Fan error (Fan failed)	-	Steady light	-	Flashing

# **Main Procedures**

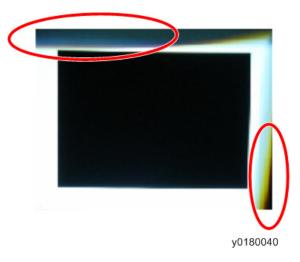
No.	Symptom	Procedure
1	No power	<ul> <li>Ensure the power cord and AC power outlet are securely connected</li> <li>Ensure all connectors are securely connected and aren't broken</li> <li>Check LVPS</li> <li>Check Main board</li> </ul>
2	Auto shutdown	<ul> <li>Ensure the projector is not put on a soft pad and the air vent is not blocked</li> <li>a. Lamp failed: Power LED (flashes red), Lamp LED (lights red)</li> <li>Check Lamp</li> <li>Check LVPS</li> <li>Check Main board</li> <li>b. Fan failed: Power LED (flashes red), Temp LED (flashes red)</li> <li>Check whether have execute "Fan Calibration" (page 83 "Waveform Download and Fan Calibration")</li> <li>Check System fan, Blower fan, and DMD fan</li> <li>Check Main board</li> <li>Check Color wheel module</li> <li>Check Photo sensor board</li> <li>C. Over Temp: Power LED (flashes red), Temp LED (light on red)</li> <li>Check Main board</li> <li>Check System fan, Blower fan, and DMD fan</li> <li>Check Main board</li> </ul>
3	No light on	<ul> <li>Ensure all connectors are securely connected and aren't broken</li> <li>Check Lamp cover, Interlock switch</li> <li>Check Lamp module</li> <li>Check LVPS</li> <li>Check Main board</li> <li>Check Color wheel</li> <li>Check Photo sensor board</li> </ul>

No.	Symptom	Procedure
4	No image	<ul> <li>Ensure the signal cables and source work (If you connect multiple sources at the same time, use the "Source" button switch)</li> <li>Ensure all connectors are securely connected and aren't broken</li> </ul>
	The image	Check Main board Check Optical engine Check Color wheel
5	Mechanical noise	Check Color wheel     Check System fan, Blower fan, and DMD fan
6	Line bar/Line defect	Check Main board
7	Image flicker	<ul> <li>Do "Reset" of the OSD menu (page 89 "OSD Reset")</li> <li>Ensure that the signal cables and source work as well</li> <li>Check Lamp module</li> <li>Check Color wheel</li> <li>Check Photo sensor and clean Photo sensor</li> <li>Check Main board</li> </ul>
8	Color abnormal	<ul> <li>Do "Reset" of the OSD menu (page 89 "OSD Reset")</li> <li>Adjust "Color Wheel Index" (page 87 "Color Wheel Index")</li> <li>Check Main board</li> <li>Check Color wheel</li> </ul>
9	Poor uniformity/ Shadow	<ul> <li>Ensure the projection screen without dirt</li> <li>Ensure the projection lens is clean</li> <li>Ensure the brightness is within spec</li> <li>Check rod alignment</li> <li>Check Optical engine</li> </ul>
10	Dead pixel/Dust (Out of spec.)	<ul> <li>Ensure the projection screen without dirt</li> <li>Ensure the projection lens is clean</li> <li>Clean Optical engine</li> <li>Check Optical engine</li> </ul>

No.	Symptom	Procedure
11	Garbage image	<ul><li>Ensure that the signal cables and source work as well</li><li>Check Main board</li></ul>
12	Remote controller failed	Remote controller     a. Check Battery     b. Check Remote controller     c. Check IR sensor board     d. Check Main board
13	Function abnormal	<ul><li>Do "Reset" of the OSD menu (page 89 "OSD Reset")</li><li>Check Main board</li></ul>
14	Audio abnormal	<ul> <li>Ensure that the signal cables and source work as well</li> <li>Ensure that your projector is not in "Mute" mode</li> <li>Check Main board</li> <li>Check Speaker</li> </ul>
15	3D image abnormal	<ul> <li>Ensure the using 3D glasses is good and you must face the projection</li> <li>Ensure the signal source is 3D format</li> <li>Ensure the 3D function of projector OSD is on and 3D sync invert is on</li> <li>Check Main board</li> </ul>

## **Rod Adjustment**

If either of the defects ringed in red appears when projecting an image, perform the adjustment described below.

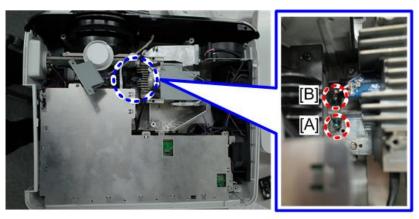


#### **Environment**

- The size of screen is 60.
- This process should be done in a dark environment (under 2 lux).

#### **Procedure**

- 1. Display a "white" pattern.
- Adjust the screws to readjust the image.
   Screw [A] should be adjusted first, and then screw [B]. Adjust until the yellowish or bluish parts disappear.



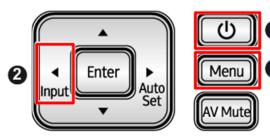
y088z3086

# 5. Test & Inspection

## Service Mode

#### How to Enter the Service Mode

- 1. Turn on the projector.
- 2. Press the "Power [1]", "Left [2]", "Left [2]" and "Menu [3]" keys sequentially.



y088z1006



- You can use the remote controller to enter the service mode in the same way.
- To exit from the service mode, press the "Power" key.

## Service Mode Settings



• Here is a summary of common terms.

Term	What It Means
DFU	Denotes "Design/Factory Use". Do not change this value.

#### Service Menu

Setting Item	Description
Model Name	Read only Shows the name of the projector.
DDP ver.	Read only Shows the present firmware version of the projector.

Setting Item	Description
MCU ver.	Read only Shows the present MCU firmware version of the projector.
Waveform ID	Read only
System Hours (total)	Read only
Lamp Hours (DD+ED)	Read only
Lamp Hours (full)	Read only
Lamp Hours (eco)	Read only
Factory Reset	DFU
Burn In Test	DFU
Failure Log	Records the times of the failure of power on of the projector such as excessive temperature, lamp failure or fan lock.
Analog Settings	See the below table.
Optical Settings	See the below table.
Other Settings	See the below table.
Read SNID	DFU
Color Wheel Index	Use this to adjust the R/G/B value to improve the image when the color reproduction is not correct. (page 87 "Color Wheel Index")
Factory Blower RPM	Read only Shows the factory blower RPM values of the projector.
Extreme Dimming Mode	DFU

#### **Analog Settings**

Setting Item	Description
PC Calibration	DFU
Video Calibration	DFU
PC Red Offset	DFU

Setting Item	Description
PC Green Offset	DFU
PC Blue Offset	DFU
Red Gain	DFU
Green Gain	DFU
Blue Gain	DFU
Video Red Offset	DFU
Video Blue Offset	DFU
Reset Calibration Data	DFU

## **Optical Settings**

Setting Item	Description
Waveform ID	Read only
Color Wheel Index	Use this to adjust the R/G/B value to improve the image when the color reproduction is not correct. (page 87 "Color Wheel Index")
Spoke On	DFU
Test Pattern	DFU
Waveform Index	DFU
Sequence Group	DFU
Gamma	DFU
Lamp Power Gain	DFU
Lamp Power Mode	DFU

## Other Settings

Setting Item	Description	
System Hours (total)	Use this to change operating hours of the projector. (page 84 "Re-write Lamp Hours")	

Setting Item	Description
Lamp Hours (DD+ED)	Use this to change the working hours of the projector in DD + ED. (page 84 "Re-write Lamp Hours")
Lamp Hours (full)	Use this to change the working hours of the projector in full mode. (page 84 "Re-write Lamp Hours")
Lamp Hours (eco)	Use this to change the working hours of the projector in eco mode. (page 84 "Re-write Lamp Hours")
Start LOGO	DFU
AC Plugin Auto Power On	DFU
VGA Out (Standby)	DFU
Closed Caption Select	DFU
SOG Slicer Threshold	DFU
Component Phase	DFU
Boot/Init access time(ns)	Read only
Thermal Setting	See the below table.
EQ Setting	See the below table.
Dust Chamber Test	DFU

## **Thermal Settings**

Setting Item	Description
System Fan Volt (1/10)	Read only
System Fan RPM	Read only
Factory Blower RPM	Read only
Lamp Blower Fan Volt (1/10)	Read only
Lamp Blower Fan RPM	Read only
Temperature Degree	Read only

Setting Item	Description
Current Lamp Voltage	Read only
Fan Zeta Value (1/100)	DFU
High Altitude	DFU
Lamp Power Mode	DFU

## **EQ Settings**

Setting Item	Description
Set EQ Value	DFU
Get EQ Value	Read only
EQ_Red	Read only
EQ_Green	Read only
EQ_Blue	Read only

## **Test Equipment and Conditions**

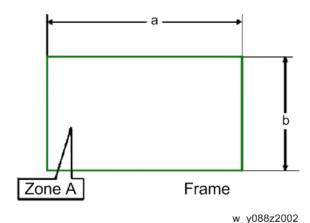
## **Test Equipment Needed**

- PC support HDTV resolution & Independent graphic card
- Blue- ray DVD player support "S-Video", "3D source files", "HDMI" and "Video"
- Illuminance meter
- Video generator

#### **Recommended Test Condition**

- Ambient brightness: Dark room less than 2 lux.
- Product must be warmed up for 3 minutes.
- Screen size: 60 inches diagonal.

#### **Zone Definition**



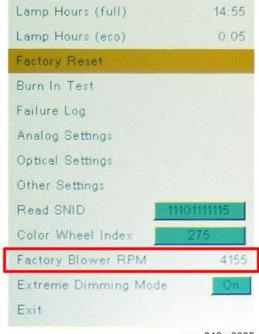
< Figure: Zone A (as green line) Definition >

## **Calibration**

#### Waveform Download and Fan Calibration

After replacing LVPS, the main board, the blower fan, or updating the firmware, do the following steps.

- 1. While pressing the "Power" key, plug in the power cord.
- 2. When the "Power LED" flashes blue, release the "Power" key.
- When the "Power LED" flashes red, press the "Power" key.
   The projector will run and finish fan calibration and waveform download automatically.
- After several minutes, the projector power will turn on automatically and the fan Information will appear on the screen, the fan calibration and auto waveform is finished.
- 5. Get into service mode. (page 77 "How to Enter the Service Mode")
- 6. Check "Factory Blower RPM".



w y042m0005



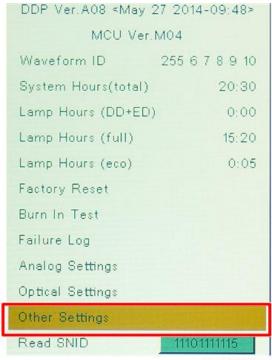
- If the factory fan value doesn't show in service mode, repeat the step 1-5 again.
- Make sure the "Factory Blower RPM" is 4000-4800.

## **Re-write Lamp Hours**

After replacing the main board, you must rewrite the lamp hours.

Write down the lamp hours before the replacement and put back the same value after replacing the board.

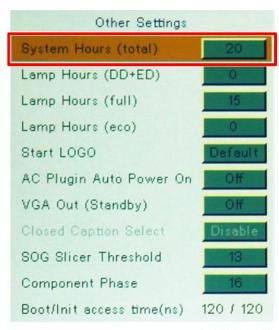
- 1. Get into service mode. (page 77 "How to Enter the Service Mode")
- 2. Select "Other Settings", and then press the "Enter" key.



w\_y042m1000

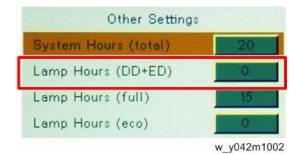
占

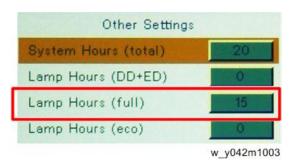
3. Select "System Hours (total)", then use the "Left" or "Right" keys to re-write the System Hours.



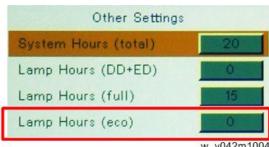
w y042m1001

4. Select "Lamp Hours (DD+ED)", then use the "Left" or "Right" keys to re-write the Lamp Hours.





6. Select "Lamp Hours (eco)", then use the "Left" or "Right" keys to re-write the Lamp Hours.



w\_y042m1004

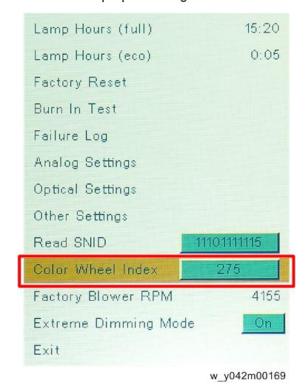


- "Left" key = decrease lamp hours
- "Right" key = increase lamp hours
- By repeatedly pressing the "Enter" key, you can select the order of magnitude. Each press steps to the next order in the sequence "1" to "10" to "100" to "1000" and back to "1".

## **Color Wheel Index**

After replacing the main board or color wheel, "Color Wheel Index" should be done.

- 1. Get into service mode. (page 77 "How to Enter the Service Mode")
- 2. Select "Color Wheel Index", and then use the "Left" or "Right" keys to adjust the color balance of the projected image.





y058m5004



- By pressing the "Enter" key, the test pattern can be projected.
- This adjustment procedure can be executed as well in the following steps: Optical Settings > Color wheel Index

## **Test Inspection Procedure**

### **Check points**

Check item	Check point
Firmware version	All firmware version must be the latest version
TB implementation	Related TB must be implemented
Exterior	The exterior must be undamaged.
logo	Missing logo, missing prints and blurred prints are unacceptable
Lamp cover	It should be locked in the correct place.
Zoom in/out	The function should work smoothly
Keypad	All keypad keys must operate smoothly

#### **OSD Reset**

After the final QC step, we have to erase all saved change again and restore the OSD default setting. The following actions will allow you to erase all end-users' settings and restore the default setting:

- 1. Press the "Menu" key to enter the OSD menu.
- 2. Select "Setting" and then execute the "Reset" function.



y058m0173

# 6. Update

## Firmware Update

## **Equipment Needed**

#### Software

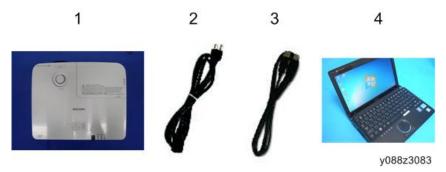
- DLP Composer Lite
- Firmware (\*.img)
- HD26FlashDeviceParameters



• Download "DLP Composer Lite" and "HD26FlashDeviceParameters" from website to update FW procedure.

#### Hardware

- 1. Projector
- 2. Power cord
- 3. USB Cable mini USB to USB (A)
- 4. PC / Laptop



### Firmware Update Procedure

#### DLP composer lite setup procedure

1. Execute "DLP Composer Lite v\*\* Setup" Program.



2. Click "Next".



w y042m0051

Read "License Agreement", and then choose "I accept and agree to be bound by all the terms and conditions of this License Agreement" and click "Next".



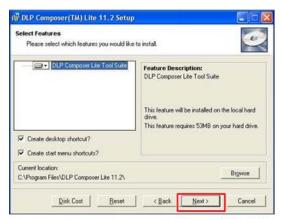
w\_y042m0052

#### 4. Click "Next".



w\_y042m0053

#### 5. Click "Next".



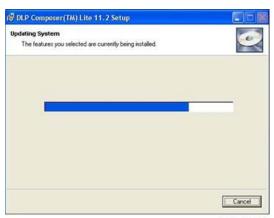
w\_y042m0054

#### 6. Click "Next".



w\_y042m0055

The program is executing "installing" status.



w\_y042m0056

7. Click "Finish".



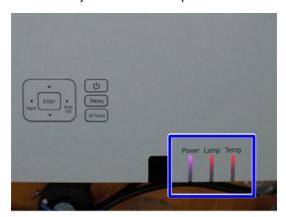
w\_y042m0057

#### Get into firmware download mode

Set up the following procedure.

1. While holding down the "Power" key, plug in the power cord.

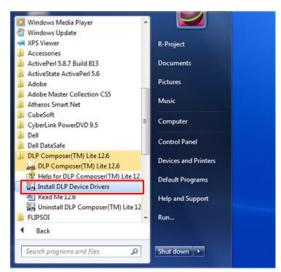
2. After the Power LED lights pink, and the Lamp and Temp LEDs light red, then release the "Power" key as shown in the photo below.



y088z3087

### USB driver update procedure

1. Execute "Install DLP Device Drivers" in the start menu.



w\_y042m1059



w y042m1060



• If OS is 64bit, select "Microsoft WinUSB".



w\_y042m0174

#### 3. Click "Next".



w\_y042m0061



4. Click "Finish".



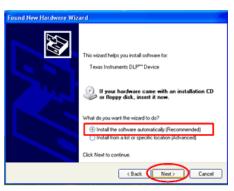
w y042m0062

#### Connect the projector to the PC

- 1. Get into firmware download mode. (page 94 "Get into firmware download mode")
- Connect the Projector and PC with a mini USB cable.The Found New Hardware Wizard appears.
- 3. Select "No, not this time", then click "Next".

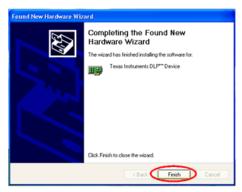


y0200036



y0200037

5. Click "Finish".



y0200038

## Firmware update procedure

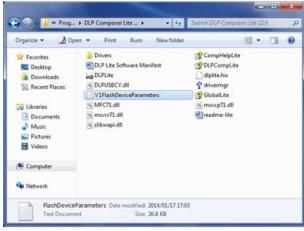
1. Execute the "DLP Composer<sup>TM</sup> Lite \*\*" file.



w\_y042m0064

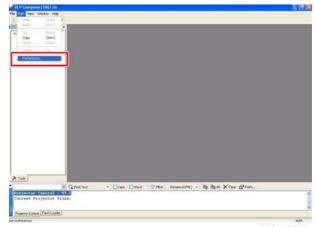
2. Select the file "V1FlashDeviceParameters".

3. Put "V1FlashDeviceParameters" file into the folder where you setup "DLP Composer Lite
\*\*"

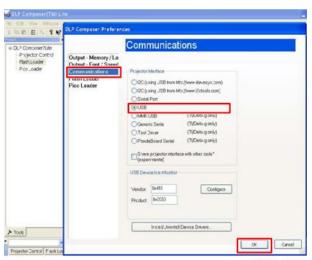


y058m1063

4. Click "Edit" and "Preferences".

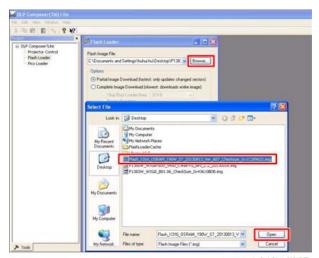


w\_y042m0065



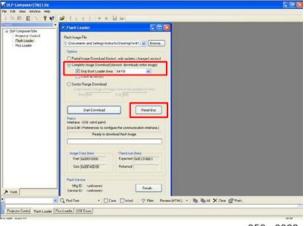
w\_y042m0066

6. Choose "Flash Loader" and click "Browse" to search the firmware file (\*.img) and click "Open".



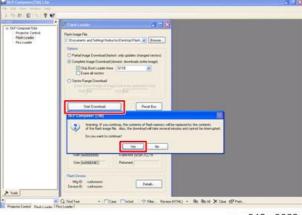
w\_y042m0067

7. Select the item "Skip Boot Loader Area" and select "64KB" then click "Reset Bus" to erase the flash memory.



y058m0068

- 8. If the firmware is ready, click "Start Download" to execute the firmware update.
- 9. Click "Yes" to erase the flash memory. .



w\_y042m0069

It takes about several minutes, the firmware update process is finished, "Download completed" will appear on the screen.

w\_y042m0070

10. Unplug the USB cable and power cord.

## Check system firmware version

- 1. Re-plug in the power cord, and then restart the projector.
- 2. Get into the Service Mode. (page 77 "How to Enter the Service Mode")
- 3. Check the system firmware version.



## Network Firmware Update

## **Equipment Needed**

#### Software

• \*\*\*\_Network firmware\_\*\*\*.bin (\*.bin)



• For updating Network firmware, use IE7.0 or a later version.

#### Hardware

- 1. Projector
- 2. Power cord
- 3. LAN Cable
- 4. PC / Laptop

## Network Firmware Update Procedure

### Confirm the projector IP

1. Plug the power cord and LAN cable into the projector.



y088z3085

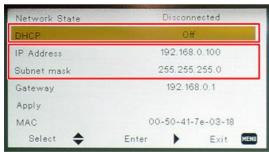
- 2. Turn on the projector, then press the "Menu" key to get into the OSD menu.
- 3. Use the down key to select "Setting".



y058m5013

4. Select "Network", and then press the "Enter" key.

5. Make sure that "DHCP" is "Off".



y058m5014

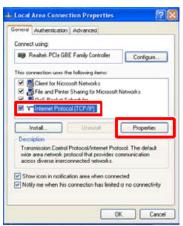
6. Write down the IP address and subnet mask: 192.168.0.100 and 255.255.255.0, in this example.

#### PC network setting

1. Double click "Local area connection", then choose "Properties".



w\_y041m0034



w\_y041m0035

3. Modify the IP address to 192.168.0.101, and modify the subnet mask to 255.255.255.0.



w\_y041m0036

The subnet mask of the PC must be the same as the projector.

The HOST ID or IP address (192.168.0.XXX) of the PC must be different from the projector IP address written down earlier.

- 4. Click "OK".
- 5. Click "Close" to quit the setting screen.

#### Network firmware update procedure

- 1. Execute "Internet Explorer".
- 2. Visit "http:// 192.168.0.100/firmwareUpdate.htm".

o

3. Click "Update".

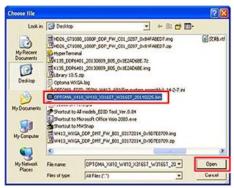


4. Click "Browse".



y058m5006

5. Select the network firmware file (\*.bin) which you saved, and then click "Open".



y058m5007

6. Click "Update" to start updating.



y058m5008

The following appears when the firmware update procedure is complete.



y058m5009

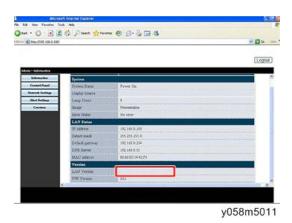
- 7. Click "Re Login".
- 8. Enter "admin" for password.



y058m5010

The projector network firmware version will appear.





MEMO

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MEMO

