Model Soleil-PJ2 Machine Codes: Y033/Y034/Y036

Field Service Manual

Important Safety Notices

Lead-Free Solder

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

⚠ WARNING

• This product is manufactured using lead free solder. DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT! The melting temperature of lead-free solder is higher than that of leaded solder by 86 °F to 104 °F (30 °C to 40 °C). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product – especially when soldering large components, through-hole pins, and on PCBs - as the level of heat required to melt lead-free solder is high.

Prevention of Physical Injury

- Before disassembling or assembling parts of the machine and peripherals, make sure that the machine power cord is unplugged.
- 2. The wall outlet should be near the machine and easily accessible.
- 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.
- 4. The machine drives some of its components when it completes the warm-up period. Be careful to keep hands away from the mechanical and electrical components as the machine starts operation.
- 5. Use brackets that are strong enough to support the projector. The projector weighs about 3.1 kg (6.9 lb.).
- The projector must be installed in a location that is sturdy enough to support the full weight of the projector and brackets.

Observance of Electrical Safety Standards

The 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

1. Dispose of replaced parts in accordance with local regulations.

MARNING

• To prevent a fire or explosion, keep the machine away from flammable liquids, gases, and aerosols. A fire or an explosion might occur.

This product contains substances which are harmful to humans and the environment.

• The lamp contains mercury.

Please dispose of this product or used lamps in accordance with local regulations.

The following information is only for EU-member states:



The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office or your household waste disposal service.

Symbols and Trademarks

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

•	See or Refer to
ê	Screw
	Connector

Trademarks

Microsoft®, Windows®, and Excel are registered trademarks of Microsoft Corporation in the United States and /or other countries.

Other product names used herein are for identification purposes only and may be trademarks of their respective companies. We disclaim any and all rights involved with those marks.

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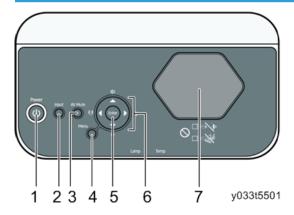
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1. Product Information

Overview

Projector Parts and Their Functions

Control Panel (Top View)



1. [Power] button

Turns the projector on and off. You can confirm the status of the projector with the indicator.

- On: Power is on.
- Off: Power is off.
- Flashing at long intervals: Standby.
- Flashing at short intervals: Starting up or cooling.

2. [Input] button

Switches the signal input. For details about how to switch the input signal.

3. [AV Mute] button

Temporarily blanks the screen and mutes the audio.

4. [Menu] button

Displays the menu screen. Press it again to close the menu screen.

5. [Enter] button

Enters the selected item or mode.

6. Arrow buttons

1

The \blacktriangleleft and \blacktriangleright buttons are used to adjust the keystone distortion. The \blacktriangle and \blacktriangledown buttons are used to adjust the volume. These buttons are also used to operate the menu screen and the value bar.

7. Projection window

Enlarges and projects the image.

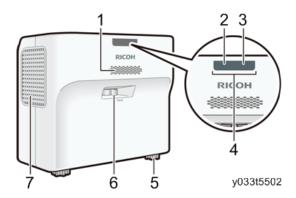


• The top of the projector is covered with a protective film when it is shipped. Remove the film before using the projector.

Front and Left-Side View

MARNING

• Do not obstruct the machine's vents. Doing so risks fire caused by overheated internal components.



1. Speaker

Outputs the audio input from an external device.

2. Lamp indicator

Shows the status of the lamp. For details, see page 139 "Indicator Display List".

3. Temp indicator

Shows the status of the temperature inside the projector.

4. Remote control receiver

Receives the signal from the remote control.

5. Adjustable feet

Adjusts the angle of the projection.

6. Focus lever

Adjusts the focus of the image.

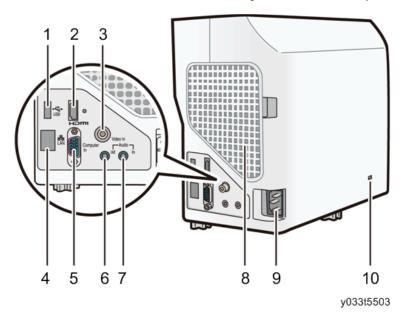
7. Exhaust vents

Releases hot air from inside the projector.

Rear and Right-Side View

ACAUTION

• Do not obstruct the machine's vents. Doing so risks fire caused by overheated internal components.



1. USB port

For connecting a USB memory device or USB device cable.

2. HDMITM port

For inputting HDMI signals from a computer or video player.

3. Video In port

For inputting image signals from a video player.

4. LAN port

For connecting an Ethernet cable.

5. Computer In port (Y/Pb/Pr)

For inputting RGB signals from a computer or component image signals (Y/Pb/Pr) from a video player.

6. Audio Out port

For outputting audio signals to an external speaker.

7. Audio In port

For inputting audio signals from a computer or video player.

8. Intake vents

For circulating air from the outside to cool the projector.

9. AC In socket

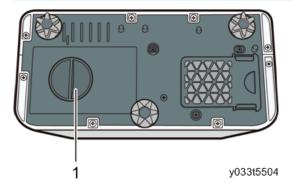
1

For connecting the power cord provided with the projector.

10. Security slot (Kensington slot)

For connecting an anti-theft cable.

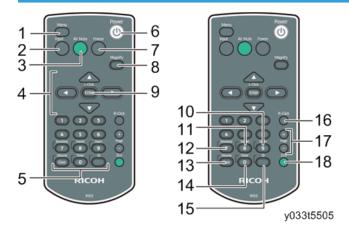
Bottom View



1. Lamp cover

Remove to replace the lamp.

Remote Control



1. [Menu] button

Displays the menu screen. Press it again to close the menu screen.

2. [Input] button

Switches the signal input. The signal that is input changes each time the button is pressed.

3. [AV Mute] button

Temporarily blanks the screen and mutes the audio.

4. Arrow buttons

Used to operate the menu screen and the value bar.

5. Number buttons

Used to enter numbers.

6. [Power] button

Turns the projector on and off.

7. [Freeze] button

Temporarily freezes the image.

8. [Magnify] button

Displays the magnification ratio bar. Press it, and then specify the magnification ratio using the and buttons.

9. [Enter] button

Enters the selected item or mode.

10. [Zoom] button

Displays the digital zoom bar. Press it, and then adjust the size of the projected image using the and buttons.

11. [Sound]] button

Displays the sound quality selection screen. Press it, and then select the sound quality using the and buttons.

12. [Keystone] button

Displays the keystone adjustment bar. Press it, and then adjust the keystone distortion using the and buttons.

13. [Volume] button

Displays the volume control bar. Press it, and then adjust the volume of the speaker using the \triangle and ∇ buttons.

14. [Timer] button

Displays the presentation timer.

15. [ID] button

Registers the remote control ID.

16. [R-Click] button

This button is not used.

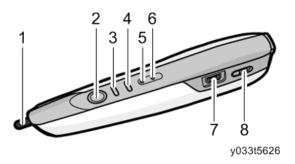
17. [Page] buttons

Changes slides, such as in a PowerPoint presentation. Press [-] to go to the next page. Press [+] to go to the previous page. These buttons can be used when the mouse remote control receiver is connected to a computer.

18. [Eco] button

Displays the [Eco Mode] screen. On the [Eco Mode] screen, you can specify the energy saving settings for the lamp.

Electronic Pen (PJ WX4141NI)



1. Pen nib switch

Used to write, draw, and select operations on the projected screen. This switch is functionally equivalent to the left button of a computer mouse.

2. Left button

Similar to the left button of a computer mouse.

3. Right button

Similar to the right button of a computer mouse.

4. Point adjustment button

Used to adjust the point position of the pen nib when the pen is held in a different way. The standard position of the point is the center of the pen, and it moves each time this button is pressed. The order in which the point moves is as follows: up, down, and to the center.

5. Battery indicator

Indicates the battery status of the electronic pen.

The battery indicator keeps lighting while charging and goes off when the charge is completed.

6. Communication indicator

Indicates the communication status of the electronic pen.

This indicator flickers in red until the projector recognizes the electronic pen.

When the projector recognizes the electronic pen, the indicator lights up in green or flickers rapidly.

7. USB connecter

Used to connect the electronic pen charge cable.

8. Power switch

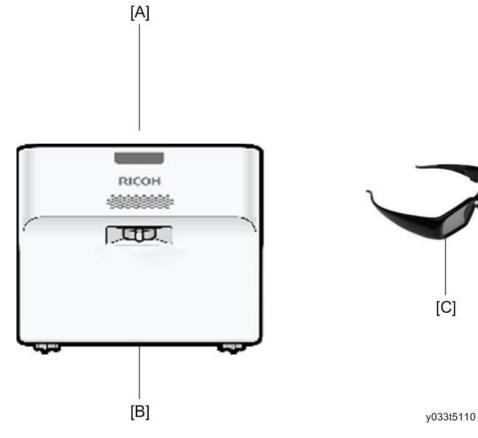
Switches the power of the electronic pen between on and off.

Machine Code and Peripherals Configuration

Machine Code

Model name	Product code	Machine code	Product management code	Remarks
PJ WX4141	512625	Y03300	666157	
PJ WX4141N	512626	Y03400	666158	
PJ WX4141NI	512627	Y03600	666159	
IPSiO PJ Cradles Type l	308960	Y10800	666420	
IPSiO PJ Smart Stand Type 1	308961	Y10900	666420	
RICOH PJ Replacement Lamp Type 1	512628	Y21600	666600	
RICOH PJ Replacement Filter Type4	512629	Y21700	666610	

Peripherals Configuration



- [A] PJ Wall Mount Bracket Type 1
- [B] PJ WX4141/WX4141N/WX4141NI
- [C] PJ 3D Glasses Type 2

General Specifications

List of General Specifications

Component	Specifications		
Power consumption	Standard mode: 312 W		
	Eco mode: 208 W		
Power consumption	Regular standby mode: 0.23 W		
(Standby mode)	Network standby mode (Wired LAN): 0.51 W		
	Network standby mode (Wired/Wireless LAN): 0.80 W		
Weight	Approx. 3.0 kg (6.7 lb.)		
External dimensions	257 x 144 x 221 mm (10.1 x 5.7 x 8.7 inches)		
(not including protruding parts)			
Operating environment	Temperature: 5 to 35°C (73 to 95°F), Humidity: 30 to 70%		
Power requirements	Europe and Asia		
	220–240 V, 1.7 A, 50/60Hz		
	• NA		
	120 V, 3.7 A, 60Hz		
Display element	Display method		
	Single-chip DLP®		
	Panel size		
	0.65 inches		
	Pixels		
	1,024,000 pixels (1280 H x 800 V)		
Projection method	Ultra short-focus lens/mirror projection method		
Lamp	High-pressure mercury lamp (Standard mode: 250 W, Eco mode: 150 W)		
Projection screen size	48 to 80 inches		
Projection distance	12 to 25 cm (4.6 to 9.8 inches)		

Component	Specifications
Speaker	2 W (Mono)
Connection ports	Computer In port
	Mini D-Sub15 x 1
	HDMI port (HDCP compliant)*
	HDMI x 1
	Video In port
	RCA_1 pin x 1
	Audio In port
	Mini Jack x 1
	Audio Out port
	Mini Jack x 1
	Control port
	USB TYPE-mini-B x 1
	USB port
	TYPE-A x 1
	USB 2.0 High-speed
	Output voltage: DC 5 V
	Supply current: 500 mA
	LAN port
	RJ-45
	10BASE-T/100BASE-TX/1000BASE-T
Wireless LAN	Based on IEEE 802.11a/b/g/n

^{*} HDCP (High-bandwidth Digital Content Protection) is a copyright protection method to encrypt digital signals across the DVI/HDMI interface and prevent unauthorized copying. The HDCP specification was developed and is licensed by Digital Content Protection, LLC. The HDMI port on this projector is HDCP compliant and can project digital video content protected by HDCP. Updates to the HDCP specification may void this compliance and prevent access to protected data. If this occurs, it is not caused by the projector.

List of Supported Signals

This projector supports the following RGB signals. Note, however, that depending on the computer model, the screen may show flicker or streaking. Please adjust the projector if this happens.

Note

• Images with a resolution greater than 1280 x 800 are compressed when displayed, so some of the information may be lost or the image may deteriorate.

Video Input

Supported mode

NTSC, PAL, SECAM, PAL-M, PAL-N, PAL60, NTSC4.43

Y/Pb/Pr Input

Supported mode

480i, 480p, 576i, 576p, 720 / 50p, 720 / 60p, 1080 / 50i, 1080 / 60i, 1080 / 50p, 1080 / 60p

Computer Input

Mode	Resolution		Frequency		
	Horizontal (pixel)	Vertical (pixel)	Vertical (Hz)	Horizontal (kHz)	Clock (MHz)
640 x 480 64		(40	59.93	31.46	25.17
	640 480		72.81	37.86	31.50
		400	75.00	37.50	31.50
			85.01	43.27	36.00
720 x 400	720	400	85.04	37.93	35.50

	Resolution		Frequency		
Mode	Horizontal (pixel)	Vertical (pixel)	Vertical (Hz)	Horizontal (kHz)	Clock (MHz)
			56.25	35.16	36.00
			60.32	37.88	40.00
800 x 600	800	600	72.19	48.08	50.00
			75.00	46.88	49.50
			85.06	53.67	56.25
848 x 480	848	480	60.00	31.02	33.75
			60.00	48.36	65.00
1024 x 768	1024	768	70.07	56.48	75.00
1024 x / 68	1024		75.03	60.02	78.75
			85.00	68.68	94.50
1152 x 864	1152	864	75.00	67.50	108.00
1280 x 720	1280	720	60.00	45.00	74.25
		768	59.99	47.40	68.25
1280 x 768	1280		59.87	47.78	79.50
1260 x 706			74.89	60.29	102.25
			84.84	68.63	117.50
			59.91	49.31	71.00
1200 000	1200		59.81	49.70	83.50
1280 x 800	1280	800	74.93	62.79	106.50
			84.88	71.55	122.50
1280 x 960	1280	0.40	60.00	60.00	108.00
1260 X 900	1200	960	85.00	85.94	148.50

	Resolution			Frequency	
Mode	Horizontal (pixel)	Vertical (pixel)	Vertical (Hz)	Horizontal (kHz)	Clock (MHz)
			60.02	63.98	108.00
1280 x 1024	1280	1024	75.02	79.98	135.00
			85.02	91.15	157.50
1360 x 768	1360	768	60.02	47.71	85.50
1366 x 768	1366	768	60.00	48.00	72.00
1300 X / 08	1300	708	59.79	47.71	85.50
			59.95	64.74	101.00
1400 x 1050	1.400	1400 1050	59.98	65.32	121.75
			74.87	82.28	156.00
			59.90	55.47	88.75
1440 x 900	1440		59.89	55.93	106.50
1440 x 900	1440	900	74.98	70.64	136.75
			84.84	80.43	157.00
1600 x 900	1600	900	60.00	60.00	108.00
1600 x 1200	1600	1200	60.00	75.00	162.00
1680 x	1/00	1050	59.88	64.67	119.00
1050	1680 1050	1030	59.95	65.29	146.25

HDMI Input

	Reso	lution		Frequency	
Mode	Horizontal (pixel)	Vertical (pixel)	Vertical (Hz)	Horizontal (kHz)	Clock (MHz)
480i	720	242.5	59.940	15.734	13.500
576i	720	288	50.000	15.625	13.500
480p	720	483	59.940	31.469	27.000
576p	720	576	50.000	31.250	27.000
720 / 50p	1280	720	50.000	37.500	74.250
720 / 60p	1280	720	60.000	45.000	74.250
1080 / 50i	1920	540	50.000	28.125	74.250
1080 / 60i	1920	540	60.000	33.750	74.250
1080 / 24p	1920	1080	24.000	27.000	74.250
1080 / 30p	1920	1080	30.000	33.750	74.250
1080 / 50p	1920	1080	50.000	56.250	148.500
1080 / 60p	1920	1080	60.000	67.500	148.500
			59.93	31.46	25.17
4.40 400	640	400	72.81	37.86	31.50
640 x 480	040	480	75.00	37.50	31.50
			85.01	43.27	36.00
			56.25	35.16	36.00
			60.32	37.88	40.00
800 x 600	800	600	72.19	48.08	50.00
			75.00	46.88	49.50
			85.06	53.67	56.25
848 x 480	848	480	60.00	31.02	33.75

	Reso	lution		Frequency	
Mode	Mode Horizontal Vertical (pixel)		Vertical (Hz)	Horizontal (kHz)	Clock (MHz)
			60.00	48.36	65.00
	1024	740	70.07	56.48	75.00
1024 x 768	1024	768	75.03	60.02	78.75
			85.00	68.68	94.50
1152 x 864	1152	864	75.00	67.50	108.00
1280 x 720	1280	720	60.00	45.00	74.25
			59.99	47.40	68.25
1000 740	1000	768	59.87	47.78	79.50
1280 x 768	1280		74.89	60.29	102.25
			84.84	68.63	117.50
		1280 800	59.91	49.31	71.00
1200 000	1000		59.81	49.70	83.50
1280 x 800	1280		74.93	62.79	106.50
			84.88	71.55	122.50
1280 x 960	1280	040	60.00	60.00	108.00
1280 X 900	1280	960	85.00	85.94	148.50
			60.02	63.98	108.00
1280 x 1024	1280	1024	75.02	79.98	135.00
			85.02	91.15	157.50
1360 x 768	1360	768	60.02	47.71	85.50
1044 740	10//	7/0	60.00	48.00	72.00
1366 x 768	1366	768	59.79	47.71	85.50

	Resolution		Resolution Frequency		
Mode	Horizontal (pixel)	Vertical (pixel)	Vertical (Hz)	Horizontal (kHz)	Clock (MHz)
			59.95	64.74	101.00
1400 x 1050	1400	1050	Vertical (Hz) (kHz) Clock (MHz)		
		74.87	82.28	156.00	
			59.90	55.47	88.75
1440 x 900	1440	900	59.89	55.93	
1440 x 900	1440	900	74.98	136.75	
			84.84	80.43	157.00
1600 x 900	1600	900	60.00	60.00	108.00
1680 x	1400	1050	59.88	64.67	119.00
1050	1680	1050	59.95	65.29	146.25

3D Format

Yes: Supported

No: Not Supported

Computer Input

	Frequency		y 3D format			
Mode	Vertical (Hz)	Clock (MHz)	Frame Sequential	Side by Side	Top and Bottom	
640 x 480	59.93	25.17	Yes	Yes	Yes	
800 x 600	60.32	40.00	Yes	Yes	Yes	
1024 x 768	60.00	65.00	Yes	Yes	Yes	
1280 x 960	60.00	108.00	Yes	Yes	Yes	
1280 x 1024	60.02	108.00	Yes	Yes	Yes	

Y/Pb/Pr Input

Mode	3D format				
Mode	Frame Sequential	Side by Side	Top and Bottom		
480i	Yes	Yes	Yes		
576i	Yes	Yes	Yes		
480p	No	Yes	Yes		
576p	No	Yes	Yes		
720 / 60p	No	Yes	Yes		
1080 / 60i	No	Yes	Yes		
1080 / 60p	No	Yes	Yes		

Video Input

M. J.	3D format				
Mode	Frame Sequential	Side by Side	Top and Bottom		
NTSC	Yes	No	No		
PAL	Yes	No	No		

HDMI Input

	Frequency			3D fo	ormat	
Mode	Vertical (Hz)	Clock (MHz)	Frame Sequential	Side by Side	Top and Bottom	Frame Packing
640 x 480	59.93	25.17	Yes	Yes	Yes	No
800 x 600	60.32	40.00	Yes	Yes	Yes	No
1024 x 768	60.00	65.00	Yes	Yes	Yes	No
1280 x 960	60.00	108.00	Yes	Yes	Yes	No
1280 x 1024	60.02	108.00	Yes	Yes	Yes	No
1360 x 768	60.02	85.50	Yes	Yes	Yes	No
1366 x 768	60.00	72.00	Yes	Yes	Yes	No
1300 X / 08	59.79	85.50	Yes	Yes	Yes	No
1440 x 900	59.90	88.75	Yes	Yes	Yes	No
1440 x 900	59.89	106.50	Yes	Yes	Yes	No
1600 x 900	60.00	108.00	Yes	Yes	Yes	No
1600 x 1200	60.00	162.00	Yes	Yes	Yes	No
1680 x 1050	59.88	119.00	Yes	Yes	Yes	No
1080 X 1050	59.95	146.25	Yes	Yes	Yes	No
480i	59.94	13.50	Yes	Yes	Yes	No

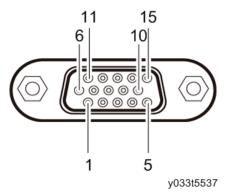
1

	Frequ	Frequency		3D fo	ormat	
Mode	Vertical (Hz)	Clock (MHz)	Frame Sequential	Side by Side	Top and	Frame Packing
576i	50.00	13.50	Yes	Yes	Yes	No
480p	59.94	27.00	No	Yes	Yes	No
576p	50.00	27.00	No	Yes	Yes	No
720 / 60p	60.00	74.25	No	Yes	Yes	No
1080 / 60i	60.00	74.25	No	Yes	Yes	No
1080 / 60p	60.00	148.50	No	Yes	Yes	No
720 / 50p (Frame Packing)	50.00	148.50	No	No	No	Yes
720 / 60p (Frame Packing)	59.94/60.0	148.35/14 8.50	No	No	No	Yes
1080 / 24p (Frame Packing)	23.976/24.	148.350/1 48.50	No	No	No	Yes
1080 / 50i (Side by Side)	50.00	74.25	No	Yes	No	No
1080 / 60i (Side by Side)	59.940/60. 000	74.176/74. 250	No	Yes	No	No
720 / 50p (Top and Bottom)	50.00	74.25	No	No	Yes	No
720 / 60p (Top and Bottom)	59.940/60. 000	74.176/74. 250	No	No	Yes	No
1080 / 24p (Top and Bottom)	23.976/24. 000	74.176/74. 250	No	No	Yes	No

Specifications for Ports

Computer In Port

Pin assignment



Dis. N.L.	Pin description			
Pin No.	During RGB input	During Y/Pb/Pr input		
1	Video signal (R)	Color difference signal (Pr)		
2	Video signal (G)	Luminance signal (Y)		
3	Video signal (B)	Color difference signal (Pb)		
4	N.C	-		
5	GND	-		
6	GND(R)	GND(Pr)		
7	GND(G)	GND(Y)		
8	GND(B)	GND(Pb)		
9	N.C	-		
10	GND	-		
11	N.C	-		
12	I ² C Data	-		
13	Horizontal sync signal	-		

Pin No.	Pin description				
FIII INO.	During RGB input	During Y/Pb/Pr input			
14	Vertical sync signal	-			
15	I ² C CLOCK	-			

Input Signal

• RGB input

RGB signals: 0.7V (p-p), 75Ω

Horizontal sync signal: TTL level (Pos/neg polarity)

Vertical sync signal: TTL level (Pos/neg polarity)

• Y/Pb/Pr input

Y signal: 1.0V(p-p), 75Ω

Pb, Pr signals :0.7V(p-p),75 Ω

Control Port



- The control port is for service representatives or administrators of the projector.
- A USB driver must be installed to control the projector using the control port. For details, contact your service representative.

Interface format

ltem	Outline	
Communication method	RS-232C, 115,200bps, No Parity, Data Length: 8 bits; Stop Bit Length: 1bit	
Communication format	#(23h)' + Command + CR (ODh)	
	Only 1 command valid per communication.	
	For the available commands, see "Main commands".	
Data format	For input commands, only ASCII-compliant all-uppercase alphanumeric characters supported.	

ltem	Outline	
Replies	Acknowledge (Aborted)	
	'=(3Dh)' + Command(3byte) + ':(3Ah)' + 'E(45h)' + 'R(52h)' + 'O(30h)' + CR(0Dh)	
	No acknowledge	
	'=(3Dh)' + 'E(45h)' + 'R(52h)' + 'O(30h)' + CR(0Dh)	
	For details of Acknowledge (Normally ended), see "Main commands".	

Main Commands

ltem	Command	Acknowledge (Normally ended) *
Power on	PON	=PON:SC0
Power off	POF	=POF:SC0
Guidance display on	ICN:1	=ICN:1
Guidance display off	ICN:0	=ICN:0
Auto setting (RGB input)	PAT	=PAT:SCO
Status display on	DON	=DON:SC0
Status display off	DOF	=DOF:SC0
Computer input	INP:1	=INP:1
HDMI input	INP:5	=INP:5
Network input (PJ WX4141N/WX4141NI)	INP:12	=INP:12

 $^{^{\}star}$ CR is added to the end of "Acknowledge (Normally ended)".

2. Installation

Installation Requirements

- Do not place vases, plant pots, cups, toiletries, medicines, small metal objects, or containers holding water or any other liquids, on or close to this machine. Fire or electric shock could result from spillage or if such objects or substances fall inside this machine.
- Keep the product and attachments out of the reach of children. If the product is near children, it
 might fall over and cause an injury.
- Keep the machine away from humidity and dust. Otherwise a fire or an electric shock might occur.
- Do not place the machine on an unstable or tilted surface. If it topples over, an injury might occur.
- Do not place the product or use it in an environment where it might get wet such as from snow, rain, or being near water. Doing so could result in fire or electric shock.
- Do not use the product on soft material such as paper or cloth that might get sucked into the intake vents. Doing so may cause heat buildup inside the product, resulting in malfunction, burns, or fire.
- Do not place the power cord and connection cable in a way that might cause someone to trip and fall. The product might fall over and cause an injury.
- Do not place the product in a location where air flow is poor. Doing so may cause fire due to internal components becoming overheated.
- Do not place or store the product in a location where direct sunlight or heat generation might occur. The heat may deform or wear out the exterior parts or negatively affect internal parts. Doing so could result in fire.
- Do not place low heat resistant material near the exhaust vents. Hot air may come from the exhaust vents, resulting in damage to the product or an accident.
- Do not expose the product to salt air or corrosive gas. Also, do not place the product in a laboratory or other location where a chemical reaction might occur. Doing so may cause the product to malfunction.
- Do not obstruct the machine's vents. Doing so risks fire caused by overheated internal components.
- Do not use any power sources other than those that match the specifications shown. Doing so could result in fire or electric shock.
- Do not use any frequencies other than those that match the specifications shown. Doing so could result in fire or electric shock.
- Do not damage, break, or modify the power cord. Also, do not place heavy objects on the power cord, or pull the cord or bend it severely. Doing so could result in fire or electric shock.
- When using an extension cord or power strip, only connect equipment whose total power
 consumption is within the power rating for the extension cord or power strip. If the power rating is
 exceeded, it may cause heat buildup and result in fire.

- Push the power plug all the way into the power outlet. Do not use a power outlet with a loose connection. Doing so may result in heat buildup. Plug the power cord in the correct direction into the base. If they are not plugged in correctly, it could result in smoke, fire, or electric shock.
- Do not place the product on other equipment or vice versa. Doing so may cause heat buildup inside the product or cause the other equipment to malfunction.
- Do not use the product in an upright position. Doing so may cause injury if it falls over.

Pattern of Installation

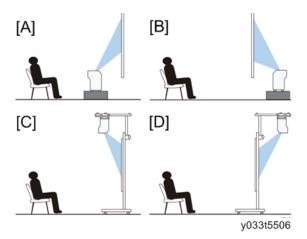
MARNING

- 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.

You can position the projector in one of four ways.

Select the setting according to the position of the projector in Projection Mode under "Default Settings 2".

Position	Position of the projector
1. Standard	The projector is placed in front of a screen onto which the images are projected.
2. Rear	The projector is placed behind a screen onto which the images are projected.
3. Ceiling	The projector is mounted on the ceiling in front of a screen onto which the images are projected.
4. Rear Ceiling	The projector is mounted on the ceiling behind a screen onto which the images are projected.

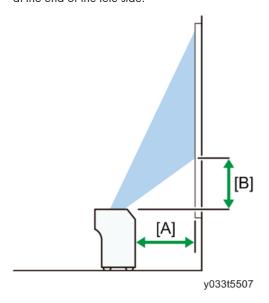


- [A] 1. Standard
- [B] 2. Rear
- [C] 3. Ceiling
- [D] 4. Rear Ceiling

Relationship Between the Projection Distance and the Screen Size

The size of the projected image varies according to the distance from the projector to the screen.

Refer to the following tables to position the projector in a suitable position. The projection sizes presented in tables are for a full size image without keystone adjustment. The projection distance becomes shortest when the zoom lever is at the end of the wide side, and longest when the zoom lever is at the end of the tele side.

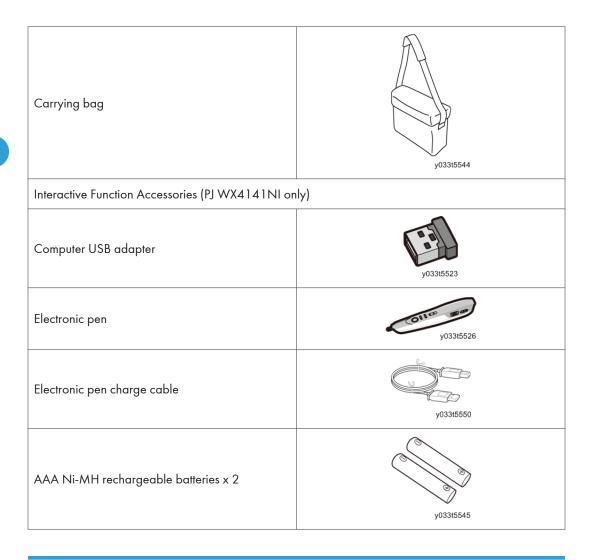


Projection size	[A] Projection distance	[B] Projection height
48 inches	12cm(4.6 inches)	9cm(3.6 inches)
60 inches	17cm(6.5 inches)	12cm(4.5 inches)
80 inches	25cm(9.8 inches)	16cm(6.1 inches)

Projector Installation

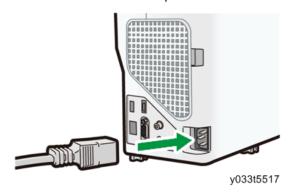
Accessories

Read This First Ultra Short Throw Projector Setting Guide Start Guide Start Guide (Interactive Function) (PJ WX4141NI only)	y033l5538
Remote control AAA battery LRO3 x 2	y03315539
CD-ROM	y03315540
RGB cable	y03315541
Power cord	y033t5628
Warranty card	y033t5543



Connecting the Power cord / Ground wire

1. Insert the connector of the power cord set into the AC In socket on the projector.



2. Connect the ground wire and insert the power plug into a power outlet.

Connecting Equipment to the Projector

ACAUTION

• Do not place the power cord and connection cable in a way that might cause someone to trip and fall. The product might fall over and cause an injury.

Various equipments can be connected to the projector.

Turn off the power to any equipment before connecting it to the projector. Be sure to read the manual for the applicable equipment before connecting it to the projector.

Connecting a Computer

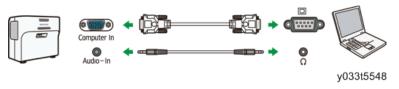
ACAUTION

• Do not place the power cord and connection cable in a way that might cause someone to trip and fall. The product might fall over and cause an injury.

Using an RGB cable

Connect an RGB cable to the Computer 1 In port of the projector and to the RGB output of a computer.

To output audio from the speaker on the projector, connect an audio cable to the Audio In port of the projector and to the audio output of a computer.





- Use the RGB cable provided with the projector.
- You can also use the Computer In/Monitor Out port to input RGB signals if [Computer 2 Terminal] in [Default Settings 2] is specified as [Input].

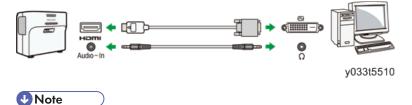
Using an HDMI cable

Connect an HDMI cable to the HDMI ports of the projector and the computer.



Using a DVI-to-HDMI cable

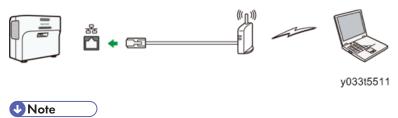
To input a DVI signal to the projector, connect a DVI-to-HDMI cable to the HDMI port of the projector and to the DVI output of a computer. To output audio from the speaker on the projector, connect an audio cable to the Audio In port of the projector and to the audio output of a computer.



• You can use a DVI-to-HDMI conversion adapter instead of a DVI-to-HDMI cable.

Using an Ethernet cable (PJ WX4141N/WX4141NI)

Connect an Ethernet cable to the Ethernet interface of the projector and to a network device such as a hub. To use the projector via a network, you must specify settings such as the IP address.



• Use an Ethernet cable that is shielded.

Using a wireless LAN (PJ WX4141NI/WX4141N)

PJ WX4141N/WX4141NI are equipped with a wireless connectivity function.



Connecting AV Equipment

Use a cable that supports the signal being input when connecting AV equipment.

Using an HDMI cable

Connect an HDMI cable to the HDMI ports of the projector and the AV equipment.





- Some devices may not operate properly when connected using HDMI.
- Use only an HDMI cable that has the HDMI logo. To input 1080p image signals, use a high-speed HDMI cable. A conventional HDMI cable may not work properly.

Using a video cable

Connect a video cable to the Video In port of the projector and to the video output of AV equipment. To output audio from the speaker on the projector, connect an audio cable to the Audio In Port of the projector and to the audio output of AV equipment.



Using a D-sub to component video cable

Connect a D-sub to component video cable to the Computer 1 In port of the projector and to the Y/Pb/Pr output of the AV equipment. To output audio from the speaker on the projector, connect an audio cable to the Audio In Port of the projector and to the audio output of AV equipment.



Connecting an External Speaker

You can output the audio signals to the external speaker. To connect an external speaker, connect an audio cable to the Audio Out port of the projector and the audio output of an external speaker.



- There is no sound output from the projector's speaker when an external speaker is connected.
- You can adjust the sound output from the external speaker by using the [Volume] button.

Using the Menus

This section explains the methods for changing the menu screen using the remote control.

1. Press the [Menu] button.

2. Select the menu tab using the ▲ and ▼ buttons.



w_y033t5551

If you select the Display Status tab, you can confirm the information in this step.

- 3. Press the button.
- 4. Select the item to be changed using the ▲ and ▼ buttons.
- 5. Press the [Enter] button.

If [To settings] is displayed on the right, the item has a submenu. Select an item on the submenu, and then press the [Enter] button.

If [Execute] is displayed to the right of the item you select, the function is executed in this step.

- 6. Change the settings.
 - Adjusting values using the values bar
 Change the value using the and buttons, and then press the Enter button.



W_y033t5552

Selecting the value from a list
 Change the value using the ▲, ▼, ◄ and ▶ buttons, and then press the [Enter] button.



w_y033t5553

Inputting numbers

Use the number buttons on the remote control to input numbers.



w_y033t5554

Inputting text (PJ WX4141N/WX4141NI)

Use the keyboard that is displayed on screen to input text. You can also use the number buttons on the remote control to input numbers.



w_y033t5630

- 7. If a confirmation screen appears, select [OK], and then press the [Enter] button.
- 8. Press the [Menu] button.
- 9. If a confirmation screen appears, select [Reflect], and then press the [Enter] button.



- The Network/USB Settings menu tab includes the USB Settings menu, Network Settings menu, and Network Application Settings menu. Open the menu according to the settings you want to change, and then go to Step 2 to change the settings.
- The menu screen closes automatically thirty seconds after the last operation. Changes to the settings

- are automatically applied when you close the menu screen. You do not need to press the [Enter] button.
- Settings in the Network/USB Settings menu are not applied until you select [Reflect] on the confirmation screen.
- The menu screen is not accessible if you are projecting images from a USB memory device or server. Stop projecting the images to open the menu screen.

Interactive Function

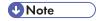


- To use the interactive function, you must use an RGB cable or an HDMI cable to connect the
 projector and computer. You cannot use the interactive function if another type of cable is used for
 the connection.
- The interactive function cannot be used when a screen is displayed on the Windows extended desktop.

Set the interactive function

The interactive function allows you to operate a computer connected to the projector directly on the projection screen. You can also write and draw on a projected screen using the included software "RICOH PJ Interactive Software".

To use the interactive function, the following settings are required.



- You only need to perform Steps 1 to 3 to use the electronic pen to operate the computer from its projected image.
- You must perform Steps 1 to 4 to write and draw on the screen.



Step	Setting Contents
1	Set Interactive Mode to [On].

Step	Setting Contents
2	Register the computer USB adapter to the projector.
3	Enable the projector to recognize the electronic pen.
4	Install RICOH PJ Interactive Software on a computer.

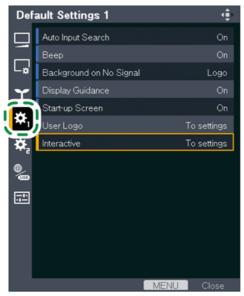
Enabling Interactive Mode

In Interactive Mode, the projector can recognize the electronic pen and the computer USB adapter.

We recommend disabling wireless LAN communication when you enable Interactive Mode.

To disable wireless LAN communication, select [Wired LAN] or [Disable] in [Network Interface] under [Network Settings].

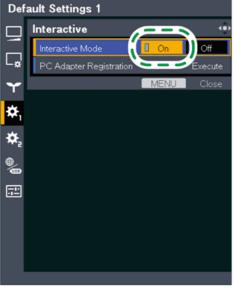
- 1. Turn on the projector to project the screen.
- 2. Press the [Menu] button.
- 3. Select [Default Settings 1], and then press the button.



w_y033t5521

- 4. Select [Interactive], and then press the [Enter] button.
- 5. Select [Interactive Mode], and then press the [Enter] button.

6. Select [On], and then press the [Enter] button.



w v033t5522

7. Press the [Menu] button twice to close the menu screen.

Registering the Computer USB Adapter

ACAUTION

 Keep computer USB adapter out of reach of children. If a child accidentally swallows a computer USB adapter, consult a doctor immediately.

To use the computer USB adapter in Interactive Mode, the adapter must be registered to the projector.

Once the computer USB adapter is registered to the projector, there is no need to register it again. You can use the computer USB adapter with any computer that is connected to the projector.

The following operating environment is required to use the computer USB adapter.

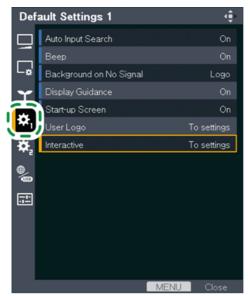
- PC Operating System: Windows 8/7/XP
- USB port: USB Type A *Do not use a USB hub.
- 1. Have a computer USB adapter at hand



y033t5523

2. Turn on the projector.

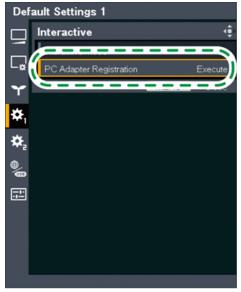
- 3. Connect the computer to the projector using an RGB cable or an HDMI cable.
- 4. Project the computer screen on the projector screen.
- 5. Press the [Menu] button.
- 6. Select [Default Settings 1], and then press the ▶ button.



w_y033t5521

- 7. Select [Interactive], and then press the [Enter] button.
- 8. Check that [Interactive Mode] is set to [On].

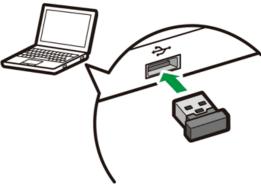
9. Select [PC Adapter Registration] and press the [Enter] button.



w_y033t5524

10. Install the computer USB adapter into the computer.

Upon being installed, the computer USB adapter flickers twice every 0.5 seconds.



y033t5525

• If registration succeeds

The message "Registration has completed." appears. The computer USB adapter flickers every two seconds. Press the [Enter] button to close the message.

• If registration fails

If there are any obstacles between the projector and computer, the attempt to perform registration will fail.

Registration should complete in under 2 minutes. If it does not complete after 2 minutes, remove the USB adapter from the computer, and then insert it again.

11. Press the [Menu] button twice to close the menu screen.

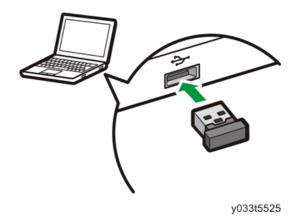


• Do not register computer USB adapters for multiple projectors at the same time. The computer USB adapter might not be registered correctly.

Enabling the Projector to Recognize the Electronic Pen

Once the projector recognizes the electronic pen, you can directly operate the computer display on the screen.

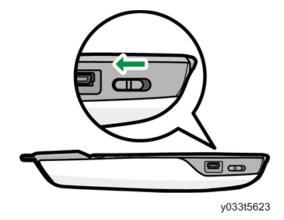
- 1. Turn on the projector.
- 2. Connect the computer to the projector using an RGB cable or an HDMI cable.
- 3. Project the computer screen on the projector screen.
- 4. Install the computer USB adapter into the computer.



U Note

• When the registered computer USB adapter is installed into the computer, the adapter flickers once every 0.5 seconds. Then, when the computer USB adapter is connected to the projector, the adapter flickers once every two seconds. If the adapter flickers twice every 0.5 seconds, you need to register it on the projector.

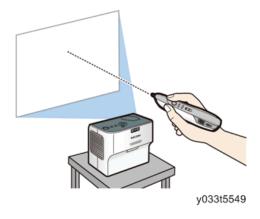
5. Turn the power switch of the electronic pen to "On".



The communication indicator on the electronic pen will then flicker.

If the communication indicator fails to flicker, check that the rechargeable battery is installed in the electronic pen. If a battery is installed, recharge it.

6. Point the pen nib toward the projected screen.



• If registration succeeds

The projected computer screen pointer moves according to the movements of the electronic pen. Also, the communication indicator on the electronic pen lights up or flickers green rapidly and the computer USB adapter lights up.

• If registration fails

- Check how you are holding the electronic pen. If you are holding the top or the bottom of the pen, the projector is unable to recognize the electronic pen correctly.
- Check that the pen nib is not pointing at a shadow. If the pen nib is pointing at a shadow or if it is not pointing at the screen, then the projector is unable to recognize the electronic pen correctly.

• If the electronic pen is not recognized correctly after the direction of the pen is corrected or even when you hold the electronic pen correctly, check the procedure from Step 1.

Installing RICOH PJ Interactive Software

RICOH PJ Interactive Software allows you to write and draw on a projection screen. When you use RICOH PJ Interactive Software, install it on a computer. For details about how to use RICOH PJ Interactive Software, see Operating Instructions (Interactive Function).

The following operating environment is required to use RICOH PJ Interactive Software.

ltem	Specifications
	Windows 8 / Pro / Enterprise (32 bit / 64 bit)
Operating System	Windows 7 Home Premium / Professional / Ultimate / Enterprise SP1 or later (32 bit / 64 bit)
	Windows XP Home / Professional SP3 or later (32 bit)
CDLI	Intel® Core TM 2 Duo 2 GHz or more recommended
CPU	(Minimum: Intel Core Solo U1300)
HDD	9 GB or more free space recommended (Minimum: 2 GB)
	Windows 8 / 7 (64 bit): 4 GB or more recommended (Minimum: 2 GB)
Memory	Windows 8 / 7 (32 bit): 3 GB or more recommended (Minimum: 1 GB)
	Windows XP: 2 GB or more recommended (Minimum: 512 MB)

- To install RICOH PJ Interactive Software on a computer, log on as a user with administrator privileges.
- 1. Insert the CD-ROM in the CD-ROM drive of your computer.
- 2. Specify a language and model name, and then click [Select].
- 3. Click [PJ Interactive Software].
- 4. Select the language for the installation, and then click [OK].
- 5. If .NET Framework 4 is not installed on your computer, click [Install].
 If .NET Framework 4 has already been installed, the message [Install] does not appear. Proceed to the next step.
- 6. Click [Next].
- 7. Select "I accept the terms in the license agreement", and then click [Next].

- 8. Specify the installation folder, and then click [Next].
- 9. Click [Install].
- 10. Click [Finish].



- If the [User Account Control] dialog box appears during the installation procedure, click [Yes] or [Continue].
- To uninstall RICOH PJ Interactive Software, use the program delete function in [Control Panel] to delete "RICOH PJ Interactive Software".

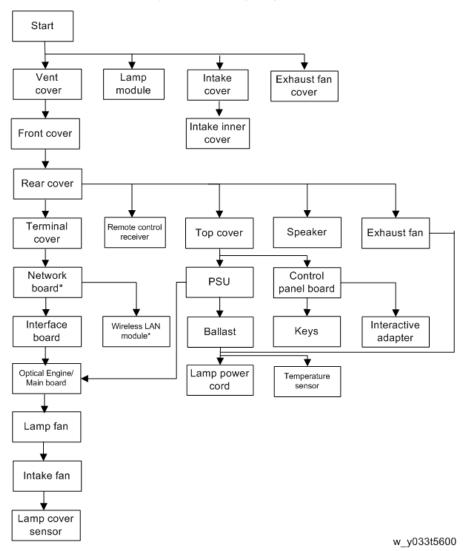
3. Replacement and Adjustment

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., Lamp module) 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.



Special Tools

Make sure that technicians are equipped with the following tools, which will be necessary in order to update the main firmware, and to perform adjustments that are necessary after replacing the optical engine or main board.

- 1. USB cable
- 2. PC
- 3. USB storage device

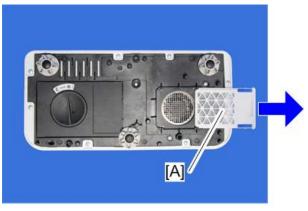
3

3

Parts Replacement

Vent Cover

1. Slide out the direction of blue arrow and remove the vent cover [A].



y033t5001

Lamp Unit

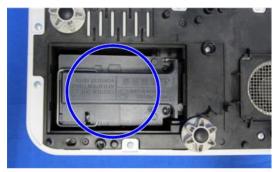
 Place a soft sheet such as a waste cloth on the flat surface to avoid damage and set the projector to be able to show the bottom.



- Since the lamp unit is still heated just after the power is turned off, make sure to replace the lamp unit at least one hour or more after the power cord is unplugged.
- 2. Turn the knob counterclockwise, and then open the lamp cover.

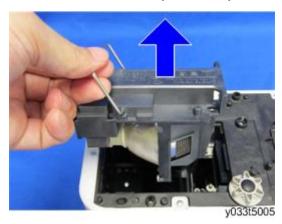


y033t5002



y033t5003

4. Hold the handle, and then pull the lamp unit out of the projector.



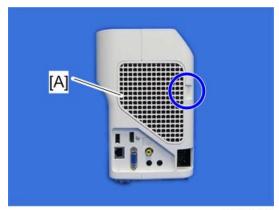
U Note

About processing the used lamp: This machine's lamp uses a very small amount of inorganic
mercury which is harmful for the environment. When handling the used lamp, take care to prevent
damage and ask the customer to process as required by local ordinances or regulations, or ask the
service representative.

3

Intake Cover

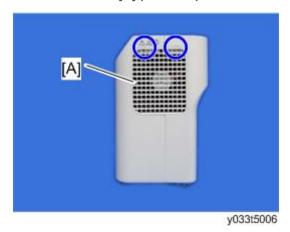
1. While pressing the tab on the right side, remove the intake cover [A].



y033t5098

Exhaust Fan Cover

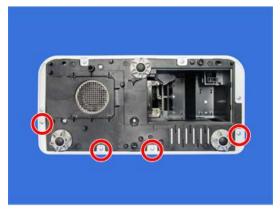
1. Exhaust fan cover [A] (Two tabs)



Front Cover

- 1. Lamp cover (page 53 "Lamp Unit")
- 2. Intake cover (page 55 "Intake Cover")
- 3. Exhaust fan cover (page 55 "Exhaust Fan Cover")

4. Remove four screws on the bottom.



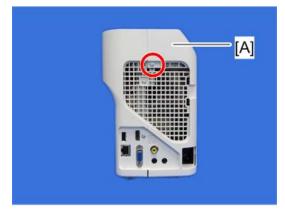
y033t5154

5. Remove a screw on the right side.



y033t5008

- 6. Remove a screw on the left side.
- 7. Front cover [A]



y033t5009

3

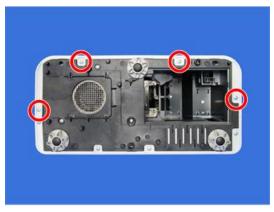
Intake Inner Cover

- 1. Front cover (page 55 "Front Cover")
- 2. Intake inner cover [A] (Fx1)



Rear Cover

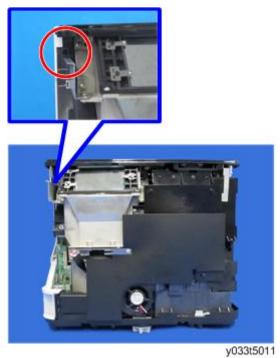
- 1. Front cover (page 55 "Front Cover")
- 2. Remove four screws.



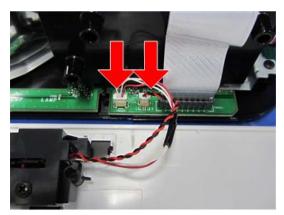
y033t5007



4. Remove a screw.



5. Rear cover (x2)



y033t5012

Top Cover

- 1. Front cover (page 55 "Front Cover")
- 2. Rear cover (page 57 "Rear Cover")
- 3. Top cover [A] (♠x1, ♣x1)



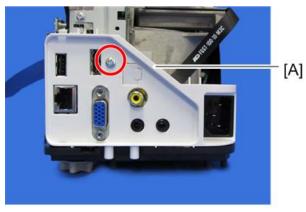
y033t5013





Terminal Cover

- 1. Rear cover (page 57 "Rear Cover")
- 2. Terminal cover [A] (Px1)

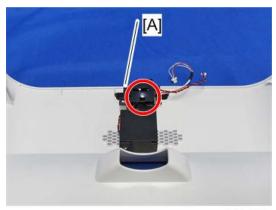


y033t5015

Remote Control Receiver Board

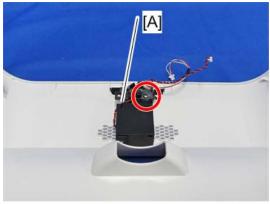
1. Rear cover (page 57 "Rear Cover")

2. Cover for remote control receiver [A] ($\Re x1$)



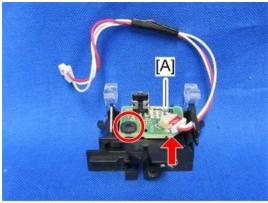
y033t5016

3. Remove the remote control receiver [A] with bracket ($\mathscr{F}x1$).



y033t5095

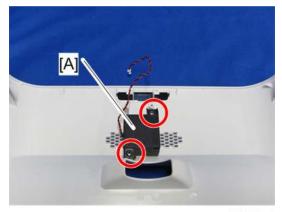
4. Remote control receiver board [A] (x1, x1)



y033t5017

Speaker

- 1. Rear cover (page 57 "Rear Cover")
- 2. Speaker [A] (🛱 x2)



y033t5018



y033t5019

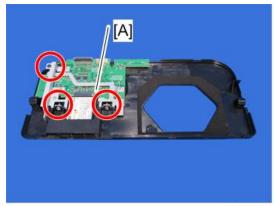
Control Panel Board

1. Top cover (page 59 " Top Cover")

2

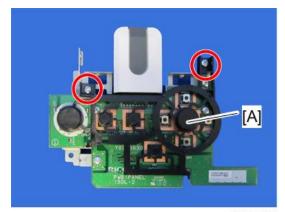
3

2. Control panel board with bracket [A] ($\mathscr{F}x3$)

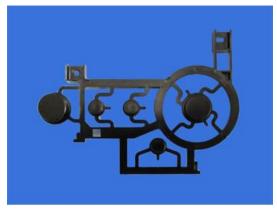


y033t5020

3. Key [A] (🖁 x2)

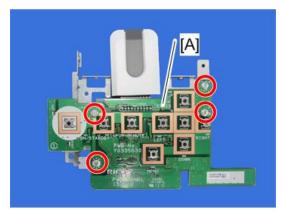


y033t5021

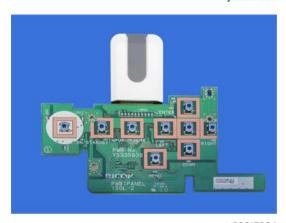


y033t5022

4. Control panel board [A] (Fx4)



y033t5023



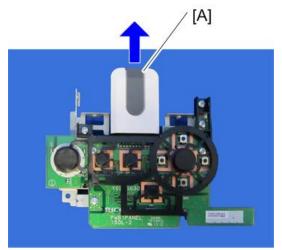
y033t5024

Interactive Adapter

- 1. Top cover (page 59 " Top Cover")
- 2. Control panel board with the bracket (** page 62 "Control Panel Board")

K

3. Interactive adapter [A]



y033t112



y033t5025

PSU

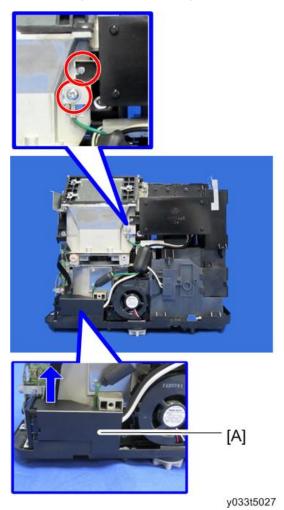
- 1. Rear cover (page 57 "Rear Cover")
- 2. Top cover (page 59 " Top Cover")



- 4. Remove a screw of the ground wire.
- 5. Remove a screw on the rear side of PSU.

3

6. Remove the power socket [A] upward.



7. Remove a connector.

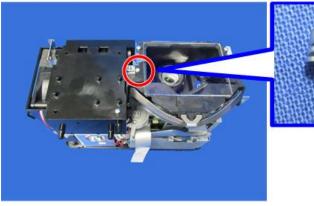


y033t5028

8. Remove two screws and connectors on the front side of the PSU.

• Remove the connector [A] with pushing the tab.



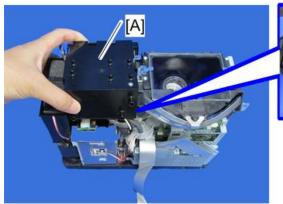




y033t5030

9. PSU [A] (Ballast side: 🕮 x1, PSU board side 🕮 x1)

Ballast side:





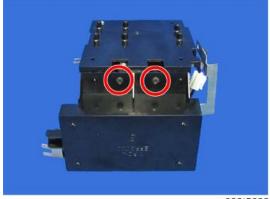
y033t5031

PSU board side



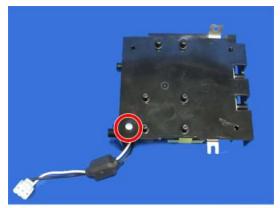
y033t532

10. Divide the PSU into main PSU and sub PSU (Px2).



y033t5033

11. Main PSU (🖟 x4)



y033t5036

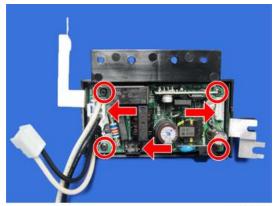


y033t50037



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12. Sub PSU (♠x4, 💖x3)



y033t5039



y033t5040

Network Board (PJ WX4141N/W4141NI)

- 1. Rear cover (page 57 "Rear Cover")
- 2. Top cover (page 59 " Top Cover")

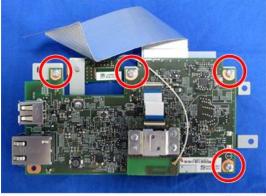
3. Network board [A] with the bracket (Fx4, 🕮 x1)



4. Network board (Fx5)

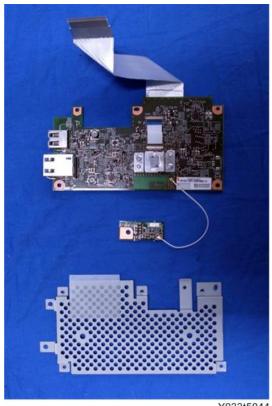


y033t5042



y033t5043

-5

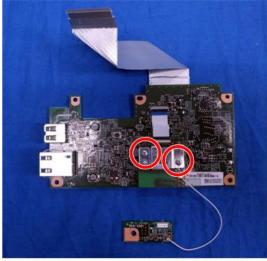


Y033t5044

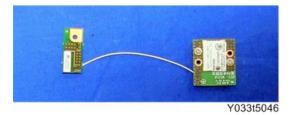
Wireless LAN Module (PJ WX4141N/W4141NI)

1. Network board (page 71 "Network Board (PJ WX4141N/W4141NI)")

2. Wireless LAN module (Fx2)



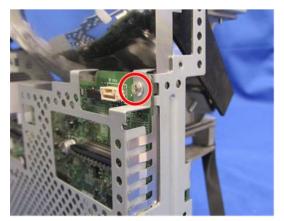
y033t5045



Interface Board

- 1. Intake fan (page 87 "Intake fan")
- 2. Network board (** page 71 "Network Board (PJ WX4141N/W4141NI)")

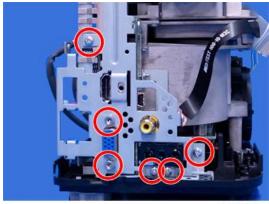
3. Interface board of the left side (🖟 x11, 🕮 x3)



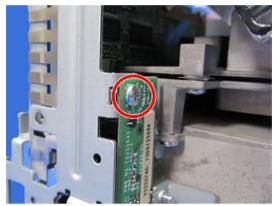
y033t5152



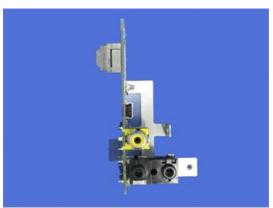
y033t5047



y033t5048



Y033t5049



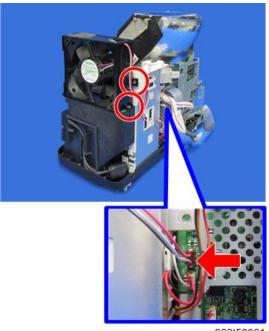
Y033t5051

Exhaust Fan

- 1. Rear cover (page 57 "Rear Cover")
- 2. Exhaust fan [A] (⋛x3, 🕮x1)



yoooloc



y033t50061

Lamp Ballast

- 1. PSU (**** page 65 "PSU")
- 2. Remove two screws and a connecter.



• Remove the connector with pushing the tab.



y033t5062



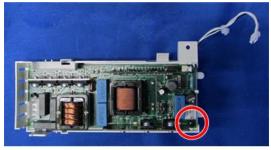
y033t5063

4. Lamp ballast unit (x1)

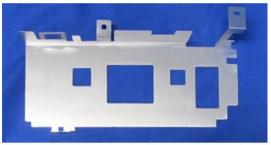


y033t5064

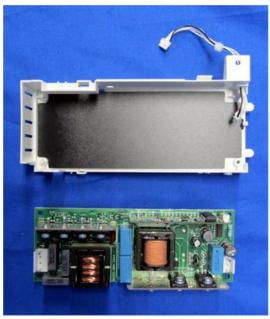
5. Lamp ballast [A] (*x1)



y033t5096



y033t5065

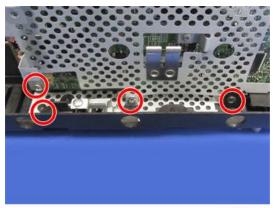


y033t5066

Main Board

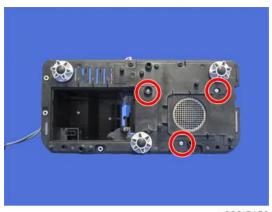


- When replacing the main board, you must enter the current value of color wheel index delay and adjust the keystone after installing the new board. (Papage 96 "Keystone Calibration"), (Papage 103 "Color Wheel Index Delay")
- The value of color wheel index delay can be confirmed by the label attached on the optical unit.
 (Page 83 "Optical Unit")
- 1. Interface board (page 74 "Interface Board")



y033t5155

3. Remove three screw of the bottom.



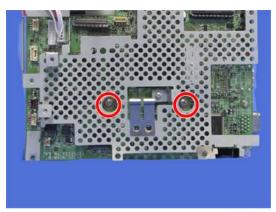
y033t5156

4. Remove the optical unit and main board upward.



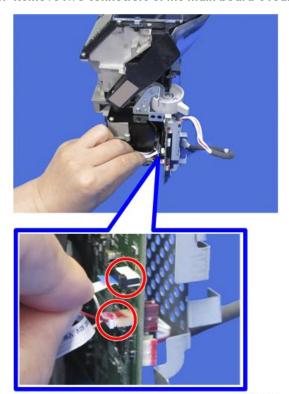
y033t5157

5. Remove two screws.



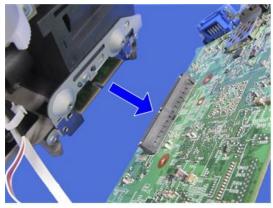
y033t5158

6. Remove two connectors of the main board's rear side.



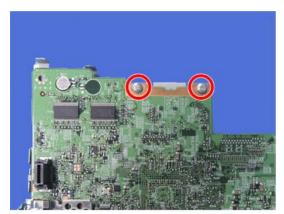
y033t5159

7. Remove the connector which connects the main board and the optical unit.

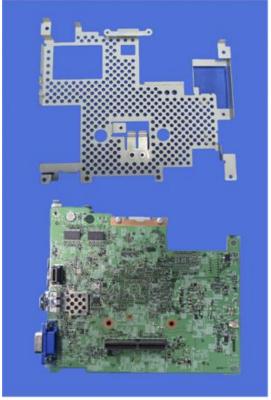


y033t5160

8. Remove the bracket (Fx2).



y033t5161



y033t5162

Optical Unit



- After replacing the optical unit, you must input the value of color wheel index delay that is specific
 to the new unit and do the keystone adjustment. (** page 96 "Keystone Calibration"), (** page 103 "Color Wheel Index Delay")
- The value is printed on the label attached to the unit. Make a note of the last three digits on the label shown in the figure, and enter it after replacement.
- 1. Remove with the main board (** page 79 "Main Board").
- 2. Divide the main board from the optical unit (** page 79 "Main Board").
- After replacing, input the value of color wheel index delay and the do the keystone adjustment.



- If placing the optical unit upside down, place it on the soft sheet like a waste cloth.
- When handling the optics unit, hold the metal parts shown in the figure.

• When installing the optics unit, make sure the cables are not trapped under the leg of the optical unit.





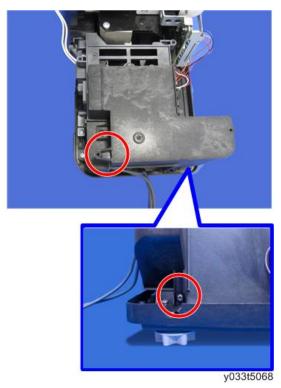
y033t5101

Lamp Power Cord

- 1. Exhaust fan (page 76 "Exhaust Fan")
- 2. Lamp ballast (page 77 "Lamp Ballast")
- 3. Upper part of Exhaust duct (Fx2)



4. Lower part of Exhaust duct (Fx2)

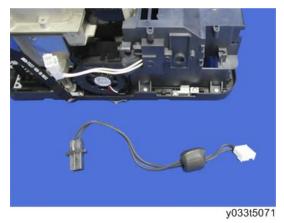


5. Lamp power cover [A] (\$\hat{p} x1)



6. Lamp power cord [A] (x1)



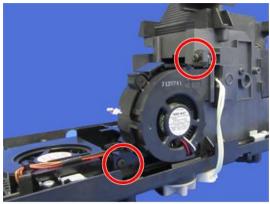


Lamp Fan

1. Optical unit (page 83 "Optical Unit")

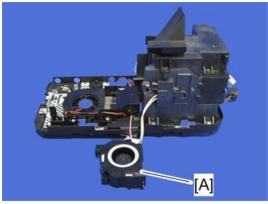
3

2. Remove the two screws.



y033t5076

- 3. Intake fan (Prage 87 "Intake fan")
- 4. Lamp fan [A] (🕮 x 1)

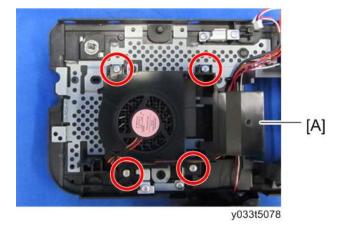


y033t5077

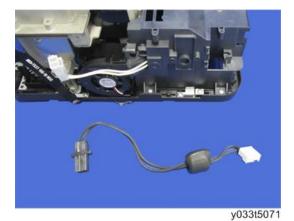
Intake fan

1. Remove the two screws on the lamp fan. (** page 86 "Lamp Fan")

2. Intake fan (🗗 x4)







Temperature Sensor (Thermistor)

1. PSU (*** page 65 "PSU")

K

2. Temperature sensor cover [A] (x1)



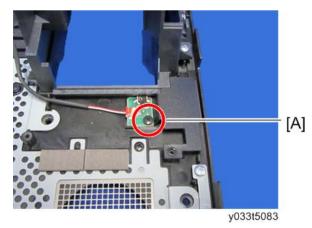
3. Temperature sensor [A] ($\mathscr{F}x2$)



Lamp Cover Open Sensor

1. Intake fan (page 87 "Intake fan")

2. Lamp cover open sensor [A] (Px1)

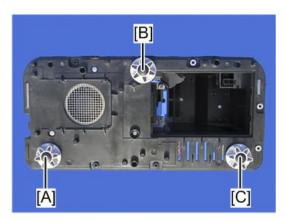




Foot adjuster

 When removing the front right foot adjuster [A], remove the ballast (page 77 "Lamp Ballast").

When removing the rear foot adjuster [B] and front left foot adjuster [C], remove the optical unit (Propage 83 "Optical Unit").



y033t5163

2. Foot adjuster (Two tabs)



y033t5085



y033t5086

Electrical Adjustment

Adjustment Points vs Part Replaced

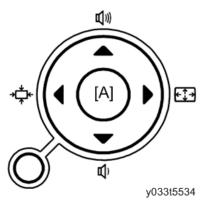
The table below shows you the items to be adjusted according to the type of part you replaced.

Part	Keystone	Sub Contrast	Color wheel index delay
Main board*	Yes	No	Yes
Control panel board	No	No	No
Optical unit	Yes	No	Yes

For this model, Sub Contrast is adjusted at the factory and no further adjustment is required.

Save Data to EEPROM (Common for all adjustments)

After performing adjustments, save the new settings to the EEPROM. Press the \triangle , ∇ , \triangleleft , and \triangleright buttons of the projector simultaneously.



[A] Enter

A beep sounds upon completion of saving data.

Preparation

Test equipment

1. PC (Personal computer)

^{*} When the main board is replaced, the set time will be cleared. Set the time as necessary.

(Windows PC, OS: Windows 8/7/Vista/XP)

2. Cables

RGB Cable and Control (USB A to mini-B) Cable

3. A protractor for Vertical Auto Keystone Calibration

Projector Setup

Plug in the power cord and press the [Power] button of the projector.

How to enter the Service Mode

 Press and hold the [Enter] and [Menu] buttons of the projector simultaneously for 2 seconds.

You will hear a short beep.



- When the setting of the [Beep] in the [Default Settings 1] is set to [Off], you will not hear
 it.
- 2. Press the \(\begin{aligned} \text{button on the projector.} \end{aligned} \)
- 3. Press the V button on the projector.
- 4. Press the **\Delta** button on the projector.
- 5. Press and hold the [Enter] button on the projector for longer than 2 seconds.

When the projector enters the Service Mode, the buzzer beeps for 3 seconds.

If it doesn't beep, repeat from the beginning.

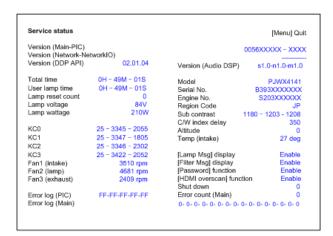
The projector remains in this mode until you disconnect the power cord.

How to display the Service status

After the projector has entered the service mode, press the [AV Mute] and \triangle buttons simultaneously. Then, the following "Service status" window appears.

When pressing the [Menu] button, it will quit.

If it doesn't appear, repeat from the beginning. This mode remains until you press the [Menu] button.



w_y033t5151

Total time: Total time that the projector has been used (Unit: hr/m/s)

*Total time that the lamp has been lighted (not reset by lamp replacement)

User lamp time: Time of the lamp has been used.

Lamp reset count: Reset count for the time that the lamp has been used.

Lamp voltage: Power voltage of the lamp

Lamp wattage: Wattages of the lamp

KCO: Value of keystone adjustment 0

KC1: Value of keystone adjustment 1

KC2: Value of keystone adjustment 2

KC3: Value of keystone adjustment 3

Fan 1 (intake): Rotation count of intake fan

Fan2 (lamp): Rotation count of exhaust fan

Fan3 (exhaust): Rotation count of exhaust fan

Error log (PIC): Display of the error ID log that is recorded by the standby micro computer.

Error log (Main): Display of the error ID log that is recorded by the main board software

Model: Model name

Serial No.: Serial number

Engine No.: Serial number of the optical engine

Region Code: Delivered area code

Sub contrast: Adjusted value of sub contrast

C/W index delay: Synchronized adjustment between the color wheel index and the video signals

Altitude: Adjustment of altitude

3

Temp (intake): Temperature of intake

[Lamp Msg] display: Display of the lamp message [Filter Msg] display: Display of the filter message

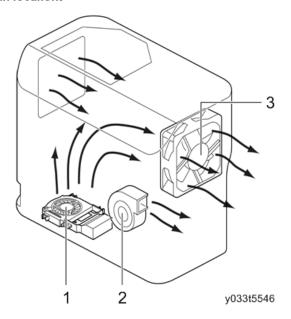
[Password] function: Enable/Disable of the password setting

[HDMI overscan] function: Enable/Disable of the use of HDMI over scan mode

Shut down: Number of the projector shut down

Error count (Main): Number of times errors have occurred (Sum of the counts for each error type)

Fan locations



- 1. Fan1 (Intake fan)
- 2. Fan2 (Lamp fan)
- 3. Fan3 (Exhaust fan)

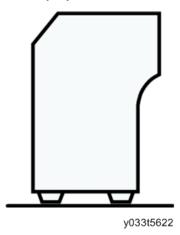
Keystone Calibration

 Press the [Input] button and buttons of the projector simultaneously in the service mode.

Adjustment(KC,C/W)		
KC0 (normal)	0 - 0 - 2048	
KC1 (back)	0 - 0 - 2048	
KC2 (front)	0 - 0 - 2048	
KC3 (30 min)	0 - 0 - 2048	
Sub contrast	512 - 512 - 512	
C/W index delay	50	
[MENU]Quit	[ENTER]Execute	

w_y033t5610

2. Set the projector on a level surface.



3. Press the [Input] button of the projector.

When the adjustment is successfully completed, the values changes from the default [0-0-2048]. (Example: See below)

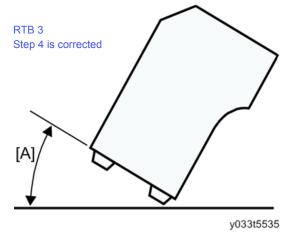
Adjustment(KC,C/W))
KC0 (normal)	25 - 3353 - 2051
KC1 (back)	0 - 0 - 2048
KC2 (front)	0 - 0 - 2048
KC3 (30 min)	0 - 0 - 2048
Sub contrast	512 - 512 - 512
C/W index delay	50
[MENU]Quit	[ENTER]Execute

w_y033t5611

If it fails, the values don't change from the default [0-0-2048].

4. Keep the projector at 20 degrees.

When the adjustment is successfully completed, the values changes from the default [0-0-2048]. (Example: See below)



[A] 20 degrees

5. Select the [KC1] item by pressing the ▼ button.

Adjustment(KC,C/W)	
KC0 (normal)	25 - 3353 - 2051
KC1 (back)	0 - 0 - 2048
KC2 (front)	0 - 0 - 2048
KC3 (30 min)	0 - 0 - 2048
Sub contrast	512 - 512 - 512
C/W index delay	50
[MENU]Quit	[ENTER]Execute

w_y033t5612

6. Press the [Input] button of the projector.

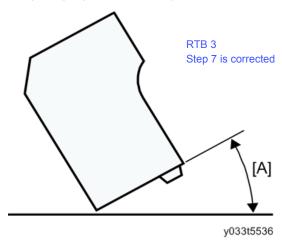
When the adjustment is successfully completed, the values changes from the default [0-0-2048]. (Example: See below)

Adjustment(KC,C/W)	
KC0 (normal)	25 - 3353 - 2051
KC1 (back)	25 - 3354 - 1802
KC2 (front)	0 - 0 - 2048
KC3 (30 min)	0 - 0 - 2048
Sub contrast	512 - 512 - 512
C/W index delay	50
[MENU]Quit	[ENTER]Execute

w_y033t5613

If it fails, the values don't change from the default [0-0-2048].

7. Keep the projector at -20 degrees after removing the stand in the front of projector.



[A] -20 degrees

8. Select the KC2 item by pressing the ∇ button.

Adjustment(KC,C/W) KC0 (normal)	25 - 3353 - 2051 25 - 3354 - 1802
KC1 (back) KC2 (front)	0 - 0 - 2048
KC3 (30 min)	0 - 0 - 2048
Sub contrast	512 - 512 - 512
C/W index delay	50
[MENU]Quit	[ENTER]Execute

w_y033t5614

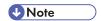
9. Press the [Input] button of the projector.

When the adjustment is successfully completed, the values changes from the default [0-0-2048]. (Example: See below)

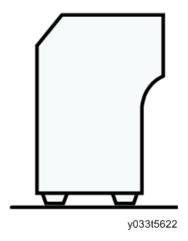
Adjustment(KC,C/W)		
KC0 (normal)	25 - 3353 - 2051	
KC1 (back)	25 - 3354 - 1802	
KC2 (front)	25 - 3353 - 2299	
KC3 (30 min)	0 - 0 - 2048	
Sub contrast	512 - 512 - 512	
C/W index delay	50	
[MENU]Quit	[ENTER]Execute	

w_y033t5615

If it fails, the values don't change from the default [0-0-2048].



- When the projector is not tilted accurately +/- 20 degrees, the adjustment values ([KC1] and [KC2]) do not change.
- 10. Set the projector on a level surface and turn on the projector to shine the lamp through it for 30 minutes or more.



11. Select the KC3 item by pressing the ▼ button.

Adjustment(KC,C/W)	
KC0 (normal)	25 - 3353 - 2051
KC1 (back)	25 - 3354 - 1802
KC2 (front)	25 - 3353 - 2299
KC3 (30 min)	0 - 0 - 2048
Sub contrast	512 - 512 - 512
C/W index delay	50
[MENU]Quit	[ENTER]Execute

w_y033t5616

12. Press the [Input] button of the projector

When the adjustment is successfully completed, the values changes from the default [0-0-2048].

Adjustment(KC,C/W)	
KC0 (normal)	25 - 3353 - 2051
KC1 (back)	25 - 3354 - 1802
KC2 (front)	25 - 3353 - 2299
KC3 (30 min)	24 - 3396 - 2049
Sub contrast	512 - 512 - 512
C/W index delay	50
[MENU]Quit	[ENTER]Execute

w_y033t5617

If it fails, the values don't change from the default [0-0-2048].



 This adjustment can also be done manually using the Backup/Restore Tool. (Parapage 110 "Data Backup/Restore")

Sub Contrast

1. Connect the projector to the PC and input the WXGA size and full-white video signal.

- 2. Press and hold the [Input] and \triangle buttons of the projector simultaneously in the service mode.
- 3. Select the Sub contrast item by pressing the ∇ button.

Adjustment(KC,C/W)	
KC0 (normal)	25 - 3353 - 2051
KC1 (back)	25 - 3354 - 1802
KC2 (front)	25 - 3353 - 2299
KC3 (30 min)	24 - 3396 - 2049
Sub contrast	512 - 512 - 512
C/W index delay	50
[MENU]Quit	[ENTER]Execute

w_y033t5618

- 4. Press the [Input] button of the projector.
 - When the adjustment is successfully completed, the values changes from the default [512-512-512]. If the input value does not change, it is out of the correct range. Input again.

(Example: See below)

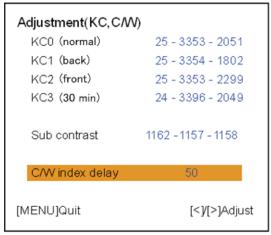
A II	
Adjustment(KC,C/M	<i>I</i>)
KC0 (normal)	25 - 3353 - 2051
KC1 (back)	25 - 3354 - 1802
KC2 (front)	25 - 3353 - 2299
KC3 (30 min)	24 - 3396 - 2049
Sub contrast	1162 - 1157 - 1158
C/W index delay	50
[MENU]Quit	[ENTER]Execute

w_y033t5619

Color Wheel Index Delay



- This adjustment is only needed when replacing the optical unit or the main board. Do not make this
 adjustment in other case.
- Press and hold the [Input] and buttons of the projector simultaneously in the service mode.
- 2. Select the C/W index delay item by pressing the ∇ button.



y033t5621

3. Adjust the value by pressing the \triangleleft or \triangleright button.

Altitude

This setting is effective only when [High Altitude Mode] is [On] (over 1,500m (4,921ft)).

 Press and hold the [Input] and \(\neg \) buttons of the projector simultaneously in the service mode.



w y033t5620

2. Select the correct value by pressing the ◀or ▶ button.

The factory setting value is [0] (30.0% up).

The value [1] (7.7% up) is for more than 500m (1,640ft) and under 1,000m (3,281ft).

The value [2] (15.4% up) is for more than 1,000m (3,281ft) and under 1,500m (4,921ft).

The value [3] (23.1% up) is for more than 1,500m (4,921ft) and under 2,000m (6,562ft).

The value [4] (30.8% up) is for more than 2,000m (6,562ft) and under 2,500m (8,202ft).

The value [5] (38.5% up) is for more than 2,500m (8,202ft) and under 3,000m (9,843ft).

The value [6] (46.2% up) is for more than 3,000m (9,843ft).

For example, in the case of 2,700m altitude, set the value to [5].

Resetting a password

A password is used to limit the use of the projector for anyone who does not know the password or when the projector is stolen. Keep this purpose in mind when resetting a password.

When using the operation panel on the projector

- 1. Connect the power cable and hold down the [Power] button to display the password input window.
- 2. Press and hold the [Enter] and [Menu] buttons of the projector simultaneously for two seconds.

- 3. Press the V button two times.
- 4. Press the button.
- 5. Press and hold the [Enter] button for two seconds.

The password will reset.

When using the remote control

- Connect the power cable and hold down the [ON/STANDBY] button to display the password input window.
- 2. Press the [Clear] button three times.
- 3. Press the [Enter] button four times.
- 4. Press the [Clear] button five times.
- 5. Press the [Enter] button four times.

The password will reset.



- If the password failed to be reset, repeat the procedure from step 1.
- The password will be "000000" after reset.

4. System Maintenance

Firmware Update

Updating the firmware using a USB memory device (PJ WX4141N/4141NI)

You can update the three firmware files (one for the main board and two for the network board) by using a USB memory device.

1. Copy the firmware data to the root directory of a USB memory device.



- Use a firmware file with the file extension "sfw".
- Do not put any other files in the root directory.
- 2. Check the power cord of the projector is disconnected.
- 3. Connect the USB memory device to the projector.
- 4. While holding down the [Power] and [Input] buttons, plug in the power cord.

After checking the firmware data, the projector starts writing the firmware.

When the writing process starts, the power button, the lamp indicator and the temperature indicator flash sequentially.

5. When update process is successfully completed, the [Power] button lights up blue and the lamp and temperature indicators light up red.



- When the power setting during standby is "Quick On", the projector will restart.
- Hold down the [Input] button while updating the firmware. The LED indicator will change the lightning pattern and you can confirm the progress of the firmware update.

0/3: The [Power] button and the lamp and temperature indicators light up.

1/3 finished: The [Power] button and the lamp indicators light up.

2/3 finished: The [Power] button light up.

"*/3" does not mean the time. It means the number of firmware that has been written.

When the update process fails, the [Power] button flashes blue and the lamp and temperature indicators flash red.

Check that the firmware is updated to the most recent version via the service status window. You can update the main board firmware by using the tool with a computer.

Before you begin firmware update, the SiLabs driver software must be installed on your computer.



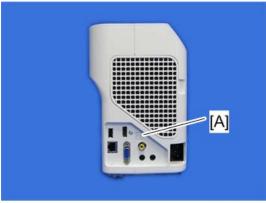
- You need the following tools when updating the firmware of the customer's projector.
- Ricoh Projector FW Update Tool (File name: ProjectorUpdateTool)
- Driver software
- Firmware to update
- USB cable (USB A / mini-B) to connect the projector and PC.
- Check the firmware release information how to get the most recent firmware.
- 1. Install the driver to a computer.

Double-click the CP210xVCPInstaller.exe icon and click the [Install] button.



w_y033t5556

- 2. Check the power cord of the projector is disconnected.
- 3. Remove the control terminal cover [A] (tabs x 2).

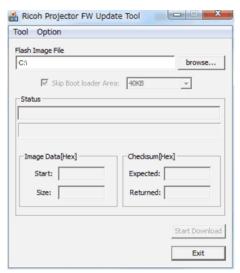


y033t5150

[A]: The control terminal cover

- 4. Connect the other end of the USB cable to your computer.
- 5. While holding down the [Input] and [AV Mute] buttons, plug in the power cord.

6. Start Ricoh Projector FW Update Tool on your computer.



w y033t5557

7. Click [browse...] and select the firmware data (*.img file) you want to install.



• "Skip Boot loader Area:" is selected by default. Do not change the setting unless otherwise indicated.

8. Click [Start Download].

When update is complete, the "Returned:" area under "Checksum[Hex]" on the Ricoh Projector FW Update Tool window displays the same value as the "Expected:" area.

9. Confirm the version of firmware.

How to check the firmware version:

Hold down the [Menu] buton at once and ∇ button several times on the default settings window, and select the Display Status tab.

Data Backup/Restore

When replacing the main board or the optical unit, the backup/restore tool can be used for backing up and restoring projector settings.



• This product requires that the backup/restore tool's version is Ver. 1.4.0.0 or later.

What to Do When Replacing Parts

When replacing the main board

Before replacement: Perform "Data Backup" and "Keystone Backup".

After replacement: Perform "Data Restore" and "Keystone Restore".

- If Backup/Restore is finished successfully, manual adjustments of the following items are unnecessary.
- If Backup/Restore cannot be executed (for example, when "Data backup" cannot be performed because a board is faulty), adjust the following items manually.

Items to be adjusted when replacing the main board

- 1. Color wheel index delay
- 2. Keystone Calibration
- 3. Serial number Setup (input the machine number)

When replacing the optical unit

Before replacement: Perform "Keystone Backup".

After replacement: Perform "Keystone Restore".

- If Backup/Restore is finished successfully, manual keystone calibration is unnecessary.
- If Backup/Restore cannot be executed, perform keystone calibration manually.

Items to be adjusted when replacing the optical unit

- 1. Color wheel index delay, which is specific to the new unit
- 2. Keystone Calibration

^{*}In both cases, color wheel index delay must be adjusted manually.

How to Use the Backup/Restore Tool

Downloading the tool

- 1. Download the "Backup Tool" from SRES-BB.
- 2. After extracting the package, Execute "Y0119100".exe". The following files will appear.
 - ServiceTool_DataBackupRestore.EXE (the backup/restore tool)
 - USB-Serial_Driver_XP-Vista-7.EXE (driver software required when connecting the projector and the computer)

Installing the USB Driver

- Execute "USB-Serial_Driver_XP-Vista-7.EXE" and open the "SiLabs_XP-Vista-7" folder that is created.
- 2. Open the folders in the following order: "SiLabs" "MCU" "CP210x" "Windows_XP_S2K3_Vista_7".
- 3. Execute "Windows_XP_S2K3_Vista_7.exe" in the "Windows_XP_S2K3_Vista_7" folder.
- 4. Click [Install] button.

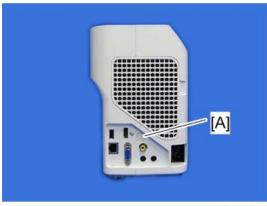


w y033t5556

5. Confirming that "Installation completed successfully" is displayed, and then click [OK].

Connecting the projector to a computer

- Turn on the projector and set "Power on Standby" in the "Energy Savings Settings Menu" to "Q'ck On".
 - * If it was set to "Eco", change it back to "Eco" after your work is done.
- 2. Press the [Power] button of the projector to set the projector in standby status.
 - *Standby status: The [Power] button flashes at 1 or 3 second intervals.

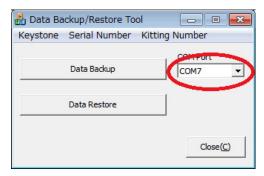


y033t5150

[A] USB port (Type mini-B)

Starting the Backup / Restore Tool

- Execute "ServiceTool_DataBackupRestore.EXE" and open the "ServiceTool_DataBackupRestore" folder.
- 2. Execute "ServiceTool.exe".
- 3. Select the COM port that is used for connection between the projector and the computer.



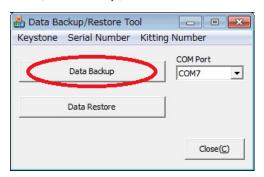
UNote

• How to determine the COM port: Right-click "Computer" and open "Device Manager" in "Properties". Check "Ports (COM & LPT)".

4

How to Perform Data Backup

1. Click [Data Backup].



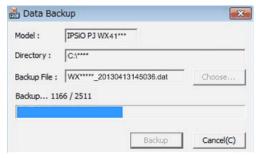
2. Only when changing the destination folder: Click [Choose], and then select where to save the file.



w_y033t5601

3. Click [Backup].

Backup will take 3 to 4 minutes.

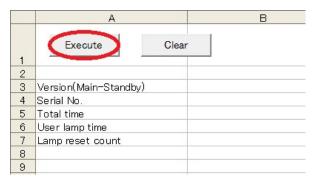


w_y033t5602



How to Check the Data Backup

- ${\bf 1. \ Open\ "Data_BackupRestore_"\ *}.xls"\ in\ the\ "ServiceTool_DataBackupRestore"\ folder.$
 - * Macros must be enabled.
- 2. Open the "Backup" worksheet and click [Execute] on the sheet.



3. Select the backup file "WX4141_***********.dat". (** indicate the date and time.)

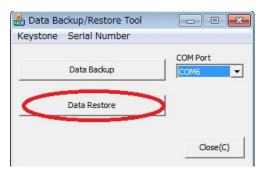
The file name above is an example. "WX4141_" may be either of the following, depending on the projector model.

- WX4141NI
- WX4141N
- WX4141
- 4. Acquired data will be displayed on the Excel Window.

4

How to Perform Data Restore

1. Click [Data Restore].



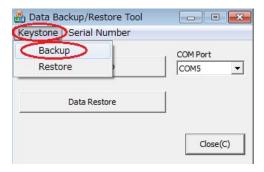
2. Click [Choose] and select the backup file "WX4141_" *** ** ** *** .dat".

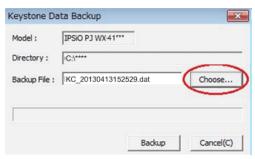
The file name above is an example. "WX4141_" may be either of the following, depending on the projector model.

- WX4141NI
- WX4141N
- WX4141
- 3. Click [Restore].
- 4. When "Restore Complete." is displayed, click [OK].

How to Perform Keystone Backup

1. Select [Keystone]-[Backup].





w y033t5603

3. Click [Backup].

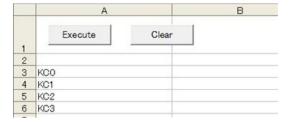
(Backup will take 1 to 2 minutes.)

4. When "Backup Complete." is displayed, click [OK].



How to Check the Keystone Backup

- Open "Data_BackupRestore_**.xls" in the "ServiceTool_DataBackupRestore" folder.
 Macros must be enabled.
- 2. Open the "Keystone" worksheet and click [Execute] on the sheet.



- 3. Select the backup file "KC_**********.dat". (** indicate the date and time.)
- 4. Acquired data will be displayed on the Excel Window.

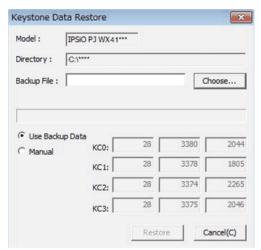
4

How to Perform Keystone Restore

1. Select [Keystone]-[Restore].



2. Make sure that [Use Backup Data] radio button is selected and click [Choose]. Then, select the backup file "KC_***********.dat".



w_y033t5604

If you cannot back up the settings from the old board, select [Manual] and enter the following values.

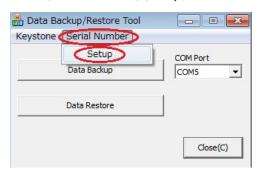
• KC0: 25 3375 2048

• KC1: 25 3375 1792

• KC2: 25 3375 2304

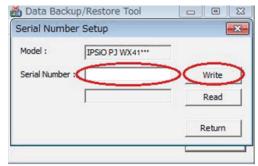
• KC3: 25 3375 2048

- 3. Click [Restore].
- 4. When "Restore Complete." is displayed, click [OK].



2. For "Serial Number", enter the serial number (11 digits including the hyphen). Then, click [Write].

Example: 47XA-111111



w_y033t5609

4

Network Service Menu

Displaying the Network Service Menu

- 1. Enter the service mode. (page 93 "Projector Setup")
- 2. Press the [MENU] button.
- 3. Press ▼ button five times to display the "Network/USB Settings" menu.
- 4. Press button.
- 5. Press ▼ button several times to display the "Network Application Settings" menu.

Menu Items

The following items can be set or displayed in the network service menu.

ltem	Description
@Remote: Setup Status	Displays the setup status of @Remote function.
@Remote: Request No.	Input the request No. required for @Remote function setup.
@Remote: Service Test Call	Perform a test to check whether communication with the NRS (New Remote Service) gateway is possible.
@Remote: Perform Polling Manually	Perform communication server polling function manually.
@Remote: Perform Confirmation	Perform request No. confirmation to NRS (New Remote Service) gateway.

ltem	Description
@Remote:	Displays the result of request number confirmation.
Confirmation Response Result	0: Confirmation was successful.
	1: Request number error. Check the entered request number. If the entered number is correct, the installation information may not have been registered in the NRS (New Remote Service) gateway.
	3: Communication Error (proxy enabled).
	4: Communication Error (proxy disabled).
	5: Proxy error (authentication failure).
	6: Communication Error.
	8: Other errors. For details, see "@Remote: Display Error Code".
	9: Confirmation in progress. The request number is being confirmed between the gateway and the machine.
	10: Confirmation has not been done yet.
@Remote: Confirm Results Location	Displays the location notified from the NRS (New Remote Service) as response to request No. confirmation on @Remote function.
@Remote: Perform Registration	Perform @Remote registration.
@Remote:	Displays the result of registration.
Registration	0: Registration completed.
Response Result	1: Request number error. The information registered in the NRS (New Remote Service) gateway may be wrong.
	2: Registration has already been completed.
	3: Communication Error (proxy enabled).
	4: Communication Error (proxy disabled).
	5: Proxy error (authentication failure).
	8: Other errors. For details, see "@Remote: Display Error Code".
	9: Registration in progress. Registration is being done between the gateway and the machine.
	10: Registration has not been done yet.
@Remote: Clear @Remote Setup	Return the @Remote set device to the unset condition.
@Remote: CE Call	Performs the CE Call at the start or end of the service.

ltem	Description
@Remote: Display Error Code	Displays the error code, which shows the details of the error when the result of "@Remote: Confirmation Response Result", "@Remote: Registration Response Result", "@Remote: Scheduled Notify Result", or "@Remote: Error Notification Result" is "Other errors". Also, displays error codes for errors encountered when updating the certificate.
@Remote: Communication Permit	Select whether to allow @Remote communication or not.
@Remote: HTTP Proxy Usage	Set whether to use proxy on communication with NRS (New Remote Service) or not. HTTP=Hypertext Transfer Protocol
@Remote: Device ID2 Code	Displays device ID2 code.
@Remote: Common Certificate Write Operation	Performs the write operation of the common certificate for the @Remote function.
@Remote: Certificate Macro Version	Displays the macro version of the NRS (New Remote Service) certificate used on @Remote function.
@Remote: Certificate PAC Version	Displays the PAC version of the NRS (New Remote Service) certificate used on @Remote function.
@Remote: Certificate Subject	Displays the certificate subject of the NRS (New Remote Service) certificate used on @Remote function.
@Remote: Certificate Serial Number	Displays the certificate serial number of the NRS (New Remote Service) certificate used on @Remote function.
@Remote: Certificate Issuer	Displays the Common Name of NRS (New Remote Service) certificate Issuer used on @Remote function.
@Remote: Cert. Validity Not Before	Displays the validated date of the NRS (New Remote Service) certificate used on @Remote function. (The start date)
@Remote: Cert. Validity Not After	Displays the validated date of the NRS (New Remote Service) certificate used on @Remote function. (The end date)

ltem	Description
@Remote: Certificate Update Request ID	Displays the request ID for certificate update.
@Remote:	Certificate status for @Remote function.
Certificate Update Status	0: Normal state. No cause for update detected.
Status	1: Certificate update requested. notifyAuthKenChangeVer13 is sent to the regular gateway or rescue gateway, depending on the cause for update.
	2: Waiting for certificate reception. Waiting for reception of setAuthKey from the gateway by polling.
	3: Writing certificate. Saving the received certificate.
	4: Writing of the certificate completed. notifyAuthKeyChangeResult is sent to the regular gateway.
	5: Writing of the certificate failed. notifyAuthKeyChangeResult is sent to the regular or rescue gateway.
	6: Result notification failed. When SSL negotiation fails in the notification process in state 4, notifyAuthKeyChangeResult is sent to the rescue gateway.
@Remote: Certificate Abnormal Problem	Displays the cause for certificate update request notification for @Remote function.
	0: Normal state. Certificate update request not done.
	1: The date of expiry is drawing near.
	2: SSL error. An SSL error occurs when the certificate has expired.
	3: The common certificate must be replaced with an individual certificate.

ltem	Description
@Remote:	Displays the result of certificate check upon installation and startup.
Certificate Check	(ten's digit)
Result	0: Normal
	1: Serial number abnormality
	2: ID2/serial number inconsistency
	3: Individual certificate abnormality
	4: Common certificate abnormality
	5: Rescue certificate abnormality
	(one's digit)
	0: The period between the current time and expiration time is longer than the configured margin.
	1: The period between the current time and expiration time is shorter than the configured margin.
	2: The period between the current time and expiration time is shorter than 3/4 of the configured margin.
	3: The period between the current time and expiration time is shorter than 1/2 of the configured margin.
	4: Certificate expired.
	5: The current date is before the start of validity. (This does not happen usually.)
@Remote: Server Auth. CN Check	DFU
@Remote: Notification Timing Type	Displays the notification timing specified from the NRS (New Remote Service) gateway on @Remote function.
@Remote:	Displays the result of scheduled notification.
Scheduled Notify Result	O: Success (The date and time is displayed in "@Remote: Last Scheduled Notify Date".)
	3: Communication Error (proxy enabled).
	4: Communication Error (proxy disabled).
	5: Proxy error (authentication failure).
	8: Other errors. For details, see "@Remote: Display Error Code".

ltem	Description
@Remote: Error Notification Result	Displays the result of error auto notification. O: Success
	3: Communication Error (proxy enabled).
	4: Communication Error (proxy disabled).
	5: Proxy error (authentication failure).
	8: Other errors. For details, see "@Remote: Display Error Code".
@Remote: Next Scheduled Notify Date	Displays the next scheduled notification date set from the NRS (New Remote Service) gateway.
@Remote: Advance Notice of Expiry	Displays the criteria value (seconds) to judge the term of validity for certificate.
@Remote: Near Expiry Notify Date	Displays the date to notify near expiry of certificate.
@Remote: Last Scheduled Notify Date	Displays the previous scheduled notification date.
@Remote: Rescue Gateway URL Path	Displays the rescue gateway URL path used on @Remote function.
@Remote: Gateway URL Path	The gateway URL for design debug, evaluation used on @Remote function.
@Remote: Rescue Gateway SSL Usage	DFU
@Remote: Rescue GW Host	Displays the URL (IP address) of the rescue gateway.
@Remote: Rescue GW Port	DFU
@Remote: Communication Server Polling Interval	Set the polling interval to NRS (New Remote Service) gateway.

ltem	Description
@Remote: HTTP Connection Timeout	Connection timeout to NRS (New Remote Service) gateway.
@Remote: HTTP Transmission Timeout	Transmission timeout to NRS (New Remote Service) gateway.
@Remote: HTTP Reception Timeout	Reception timeout from NRS (New Remote Service) gateway.
@Remote: Retry Interval on HTTP Connection	Connection retry interval when unable to connect to NRS (New Remote Service) gateway.
@Remote: Number of Retries on HTTP Connection	Number of connection retries when unable to connect to NRS (New Remote Service) gateway.
@Remote: HTTP Connection Req. Transmission Delay	The wait time for notification after sending notification request to the communication module. Req.=request
@Remote: Maximum Number of Multipart	The maximum number of multipart messages sent and received with the NRS (New Remote Service) gateway.
@Remote: SSL Usage	DFU
@Remote: Gateway Port	DFU
@Remote: Gateway Host	To in-place the gateway host within the security device for design debug/evaluation.
Reset Administrator Password	Resets the administrator password.
Reset PJLink Password	Resets the PJLink password.



• Error codes displayed in "@Remote: Display Error Code" indicate the following:

- -12003 Registration has been attempted without confirmation.
- -12004 Installation attempted without certificate or machine serial number
- -12005 Confirmation or registration attempted but @remote communication is disabled or Cumin is malfunctioning.
- -12006 Performed confirmation even though the Box is already installed.
- -12007 The request No. used for registration does not match the last confirmed No.
- 1 NRS Center is outside office hours.
- -2385The international dialing prefix included in prefixboxTelNo is inappropriate.
- -2387 Unsupported by the center.
- -2389 DB failure.
- -2390 Program error
- -2391 One machine registered twice.
- -2392 Parameter error.
- -2393 An RC Gate not controlled.
- -2394 A device not controlled.
- -2395 RC Gate BoxID is incorrect.
- -2396 RC Gate DevicID is incorrect.
- -2397 ID2 is incorrect.
- -2398 Request No. format is incorrect.
- -2399 Timeout between center and gateway (Certificate update result notification)
- 3: Communication Error (proxy enabled).
- 4: Communication Error (proxy disabled).
- 5: Proxy error (authentication failure).
- 8: Other errors.

Menu List

Image Adjustment Menu

ltem	Default
Picture Mode	Standard
Select the picture mode.	
This function is not available when you select [On] in [3D Projection] under [Display/Sound Settings] or [On] in [Interactive Mode] under [Default Settings 1].	
Bright	
This image mode makes it easier to see the projection in bright locations. • Standard	
This is the standard image mode.	
• Photo	
Photos appear more natural in this mode.	
• Video	
Video is smoother in this mode.	
DICOM Sim. Mode	
In this image mode, the images are adjusted to simulate the DICOM format. DICOM is a global standard for storing and transmitting medical images. DICOM is used for computer tomography (CT), magnetic resonance imaging (MRI), and endoscope images.	
However, this mode only simulates these formats, so the image may be projected differently from the original DICOM format. Use this mode only for education. It should not be used for actual diagnoses.	
Contrast	0
Adjust the image contrast. The greater the value, the stronger the image contrast.	
Brightness	0
Adjust the image brightness. The greater the value, the brighter the image.	

ltem	Default
Sharpness	0
Adjust the sharpness of the image. The greater the value, the sharper the image.	
R-level	0
Adjust the level of red in the image. The greater the value, the stronger the color red is in the image.	
G-level	0
Adjust the level of green in the image. The greater the value, the stronger the color green is in the image.	
B-level	0
Adjust the level of blue in the image. The greater the value, the stronger the color blue is in the image.	
Color Saturation	0
Adjust the color saturation of the image. The greater the value, the richer the image.	
This function is available when you select [Y/Pb/Pr] or [Video] as an input signal.	
Tint	0
Adjust the tint of the image.	
This function is available when you select [Y/Pb/Pr], [HDMI] (Y/Pb/Pr signals), or [Video] as an input signal.	
Noise Reduction	Off
Specify whether or not to use the function to reduce the Y/Pb/Pr (480i/576i) or video signal noise.	
This function is available when you select [Y/Pb/Pr] (480i/576i) or	
[Video] as an input signal.	

ltem	Default
RGB Input Range	Auto
Select the RGB input range.	
This function is available when you select [HDMI] (RGB signals) as an input signal.	
Auto	
The projector switches RGB input range according to the settings of the connected equipment.	
Standard	
Select this mode when the color black in the image is light.	
• Full	
Select this mode when dark parts in the image are too dark.	
Auto Set Signals	-
Automatically adjust the items in [Detailed Signal Settings].	
This function is available when you select [Computer] as an input signal.	
Detailed Signal Settings > Phase	0 to 31 *1
Adjust to eliminate image flicker.	
This function is available when you select [Computer] as an input signal.	
Detailed Signal Settings > Frequency	0
Adjust to eliminate moiré patterns and flicker when you project images with thin vertical-stripes.	
This function is available when you select [Computer] as an input signal.	
Detailed Signal Settings > H-position	0
Adjust the horizontal position of the image.	
This function is available when you select [Computer] as an input signal.	
Detailed Signal Settings > V-position	0
Adjust the vertical position of the image.	
This function is available when you select [Computer] as an input signal.	
Detailed Signal Settings > Clamp Pulse 1	0 to 255 *1
Adjust the clamp pulse position.	
This function is available when you select [Computer] as an input signal.	

Display / Sound Settings Menu

Item	Default
Auto Keystone	On
Specify whether or not to implement keystone correction automatically depending on the angle of the projector's position.	
Keystone	0
Adjust for keystone distortion.	
To decrease the width of the bottom of the projected image, decrease the value. To decrease the width of the top of the projected image, increase the value.	
Zoom	100%
Reduce the size of the image if the projected image is larger than the screen. The image can be reduced in a range of 80 to 100% using the digital zoom function.	

^{*1} The default of [Phase], [Clamp Pulse 1], and [Clamp Pulse 2] is variable because the projector automatically adjusts these settings according to the input signal.

ltem	Default
Aspect	Normal
Select the aspect ratio of the image. This function is not available when you select [USB Memory] or [Server] as an input signal. When you select [Network PC] as an input signal, this function is available only while you are projecting a computer's screen using QuickProjection. Normal Display in full screen without changing the input signal aspect ratio. 16:9 Display using 16:9 aspect ratio (1280 x 720 resolution).	
Display using 1280 x 800 resolution. Native Display the image without changing the resolution of the input signal. This setting is available when you select [Computer], [HDMI] (RGB signals), or [Network PC] as an input signal. Zoom Display the image width as the projection screen	
Display Position Move the image if the projected image is smaller or larger than the projection screen size. You can move the image using the ▲, ▼, ◄, and ▶ buttons. This function is not available when you select [Network PC], [USB Memory], or [Server] as an input signal.	-
Wall Color Mode Select the image hue according to the projection surface when the image is being projected on something other than a screen. Off Whiteboard Beige Gray Blackboard (Green)	Off

ltem	Default
3D Projection > 3D Projection	Off
Specify whether or not to use 3D projection.	
The image will be slightly darker if this is set to [On].	
3D projection and interactive mode cannot be enabled simultaneously. If you change this setting to [On], [Interactive Mode] in [Default Settings 1] is switched to [Off].	
3D Projection > L/R Reverse	Normal
Specify whether or not to reverse left and right in a 3D image.	
Normal	
Reverse	
3D Projection > 3D Format	Auto
Select a 3D format.	
Select [Auto] when the 3D signals are input through HDMI. If the image does not project in 3D even if [Auto] is selected, change the setting to match the 3D format of the signal being input.	
Auto	
Frame Sequential	
Side by Side	
Top and Bottom	
Frame Packing	
Closed Caption	Off
The projector supports closed captioning, which allows subtitles to be displayed at the bottom of the picture. This is pursuant to the regulations set forth by the US Federal Communications Commission (FCC).	
Select [CC-1] to [CC-4] to display the dialogue and narration of TV programs and videos that are closed captioned.	
This function is available when you select [Video] as an input signal.	
• Off	
• CC-1	
• CC-2	
• CC-3	
• CC-4	

ltem	Default
Sound Quality	Standard
Select the sound quality of the audio that is playing. This function applies to the built-in speaker on the projector only. If you use an external speaker, you cannot change the sound quality with this function.	
• Standard	
Dialog and music are carefully balanced.	
Narration	
This mode is suitable for listening to dialog.	
Music	
This mode is suitable for listening to music.	

Energy Saving Settings Menu

ltem	Default
Lamp Power	Stnd.
Select the lamp power level.	
To save energy, select the eco mode. To make images brighter, select the standard mode.	
The lamp power is switched to the standard mode regardless of this setting when [DICOM Sim. Mode], [3D Projection], or [Interactive Mode] is enabled.	
• Eco	
• Stnd.	
Lamp Pwr on No Signal	Eco
Specify whether or not to lower the lamp power when there is no input signal. If you select [Eco], the projector lowers the lamp power thirty seconds after the input signal disappears.	
• Eco	
• Stnd.	

ltem	Default
Image Eco	On
Specify whether or not to switch the lamp power automatically depending on the brightness of the image.	
This function does not work when [DICOM Sim. Mode], [3D Projection], or [Interactive Mode] is enabled.	
Power Off on No Signal	20 min.
Select the amount of time from the last input signal or operation until the projector enters standby mode.	
• Off	
• 5 min.	
• 10 min.	
• 20 min.	
• 30 min.	
Power on Standby	Eco
Specify whether or not to save energy while in standby.	
• Eco	
You can save energy while in standby, but start-up time is slower.	
• Q'ck On	
You can turn on the projector quickly, but the standby energy level is higher.	

ltem	Default
NW Settings on Standby (PJ WX4141N/WX4141NI)	Wired LAN
Select a network function to be enabled while in standby. You can save energy by disabling the network function.	
This function is available when you select [Eco] in [Power on Standby].	
Do not Use	
Disable the wired LAN and the wireless LAN while in standby to save energy. To use the wired LAN or the wireless LAN, press the [Power] button to turn on the projector.	
Wired LAN	
You can turn on the projector from standby mode via a wired LAN.	
Wired/Wireless LAN	
You can turn on the projector from standby mode via a wired LAN or wireless LAN.	



- The image may flicker, depending on the characteristics of the lamp, when the lamp power is cut by the lamp settings. If this happens, specify the lamp settings as follows:
- Lamp Power: Stnd.
- Lamp Pwr on No Signal: Stnd.
- Image Eco: Off

Default Settings 1 Menu

ltem	Default
Auto Input Search	On
Specify whether or not to switch to another input signal that the projector detects when you press the [Input] button.	
Веер	On
Specify whether or not to beep during use.	

ltem	Default
Background on No Signal Select the image display when there is no input signal. • Logo • Blue	Logo
• None	
Display Guidance Specify whether or not to display the guidance for operating the projector.	On
Start-up Screen Specify whether or not to display the start-up screen when the projector is turned on.	On
User Logo > Register Logo Register a user logo. Project the image to be registered as a user logo, and then execute this function. User logos can be displayed in the start-up screen or as the background when there are no input signals. You can register an image with a resolution of up to 1280 x 800 pixels. This function is available when you select [Computer], [HDMI] (RGB signals), or [Network PC] as an input signal.	-
User Logo > Confirm Logo Display the registered user logo.	-
User Logo > Reset Logo Delete the registered user logo.	-
Interactive > Interactive Mode (PJ WX4141NI only) Specify whether or not to enable the interactive mode. For details about the interactive mode, see page 83 "Using the Interactive Function (RICOH PJ WX4141NI only)". The interactive mode and 3D projection cannot be enabled simultaneously. If you change this setting to [On], [3D Projection] in [Display/Sound Settings] is switched to [Off].	Off
Interactive > PC Adapter Registration (PJ WX4141NI only) Register the computer USB adapter to the projector to use the interactive mode. For details about how to register the computer USB adapter. This function is not available when you select [Video] as an input signal.	-

Default Settings 2 Menu

ltem	Default
Language	English
Select the display language.	
Available languages are as follows:	
English, Japanese, Spanish, Russian, French, Portuguese, German, Italian, Dutch, Polish, Czech, Swedish, Finnish, Hungarian, Norwegian, Danish, Romanian, Greek, Turkish, Arabic, Thai, Indonesian, Simplified Chinese, Traditional Chinese, Korean.	
Power Timer > Current Time	Sun. 0:00
Specify the current time and day of the week.	
Power Timer > Power Timer	Off
Specify whether or not to enable the power timer function.	
When you enable this function, the projector automatically starts	
projection and turns off at the specified time. If you select [On], specify [Projection Day] and [Projection Time] to enable this function.	
Power Timer > Projection Day	(Not programmed)
Select a day of the week to start projecting using the power time function.	
Power Timer > Projection Time	(Not programmed)
Specify the time to start and end projecting using the power timer function. An interval of at least ten minutes is required between the startup time and the end time.	

ltem	Default
Projection Mode	Standard
Select the projection method according to how the projector is positioned.	
• Standard	
Select this mode when the projector is placed in front of a screen.	
• Rear	
Select this mode when the projector is placed behind a screen.	
Ceiling	
Select this mode when the projector is mounted on the ceiling in front of a screen.	
Rear Ceiling	
Select this mode when the projector is mounted on the ceiling behind a screen.	
Remote Control ID	1
Select the projector remote control ID. Specify the ID for each projector when operating multiple projectors using one remote control.	
• 1	
• 2	
• 3	
• 4	
Power On Method	Manual
Select the power on method of the projector.	
Manual	
Turn the projector on when the [Power] button is pressed.	
Auto.	
Automatically turn on the projector when the power cord is connected.	
Start on Input Detection	On
Specify whether or not to start projecting automatically if the image signals are input while in standby.	

ltem	Default
High Altitude Mode	Off
The number of fan rotations is high when set to [On]. The air is thin at high elevations, so the cooling efficiency of the projector is reduced. Select [On] when using the projector at an altitude of more than 1,500 meters (4,921 feet). Do not select [On] when the altitude is less than 1,500 meters (4,921 feet).	
Key Lock	Off
Specify whether or not to lock the buttons on the control panel. You can change this setting to [Off] by pressing the [AV Mute] button on the projector's control panel for 10 seconds.	
Reset All	-
Reset all menus to their defaults.	
This function cannot restore the default settings of [User Logo] in [Default Settings 1], [Current Time] and [Startup Password] in [Default Settings 2], [Administrator Authentication] and [Administrator Password] in [Network Application Settings].	
Startup Password > Register Password	000000
Enter a 6-digit password. The current password is required to change the password.	
Startup Password > Password Protect	Off
Specify whether or not to enter a password when the projector is turned on. If this is selected, a password must be entered when the projector is turned on after the power cord has been unplugged. However, a password is not required when turning the projector on from the standby mode. A password is required to change this setting.	

USB Settings Menu (PJ WX4141N/WX4141NI)

This section explains the items in the USB Settings menu under the Network/USB Settings menu tab.

You can also specify and check the items in the USB Settings menu using Web Image Monitor.

However, the following items are available only on the menu screen.

- [Remove USB Mem.] in [Settings]
- [USB Memory Free Space (KB)] and [USB Memory Access Status] in [Display Status]

On Web Image Monitor, you can check [Network/USB Func. Firmware Version] and [Energy Saving IO Firmware Version] on the top page.

Settings

Still Image

ltem	Default
Display Effect	None
Select the display effect for switching the image.	
• None	
• Push	
The current image is pushed off by the next image.	
• Wipe	
The current image is wiped off by the next image.	
• Fade	
The current image fades out and the next image fades in.	
Display Interval (sec.)	5 seconds
Enter the slide show switching interval from 5 to 999 seconds.	

Moving Image

ltem	Default
Repeat	Off
Specify whether or not to repeat video playback.	

${\sf Common}$

ltem	Default
Auto Start Slideshow	Off
Specify whether or not to start a slide show automatically when the projector is connected to the USB device.	
Remove USB Mem. The USB device can be removed when this command is executed.	-

Display Status

USB Memory

ltem	Default
USB Memory Free Space (KB)	-
Display the space available on the USB device (Displayed in KB).	
USB Memory Access Status	-
Display whether or not the USB device can be accessed.	

Firmware Version

ltem	Default
Network/USB Func. Firmware Version	-
Display the firmware version of the network and USB functions.	
Energy Saving IO Firmware Version	-
Display the energy-saving IO firmware version.	

Network Settings Menu (PJ WX4141N/WX4141NI)

This section explains the items in the Network Settings menu under the Network/USB Settings menu tab.

You can also specify and check the items in the Network Settings menu using Web Image Monitor.

However, the following items are available only on the menu screen.

- [Simple Wireless LAN Setup] and [Reset Wireless LAN Settings] in [Wireless LAN]
- [Import Device Certificate] and [Certificate List] in [LAN Common]
- [Network Setting Wizard] in [Setup Wizard]

On Web Image Monitor, you can check [Network/USB Func. Firmware Version] and [Energy SavingIO Firmware Version] on the top page.

Wired LAN

Wired LAN Settings

ltem	Default
Transmission Speed	Auto-Negotiation
Select a wired LAN speed that matches your network environment. It is recommended that [Auto-Negotiation] be selected.	
Auto-Negotiation	
10BASE-T Full Duplex	
10BASE-T Half Duplex	
100BASE-TX Full Duplex	
100BASE-TX Half Duplex	

TCP/IP Settings

Item	Default
DHCP	Enable
Specify whether to enable or disable DHCP.	
The IP address is allocated automatically from the DHCP server when [Enable] is selected. When [Disable] is selected, enter the IP address, subnet mask, and default gateway manually.	
IP Address	0.0.0.0
Enter the projector's IP address.	
Subnet Mask Enter the subnet mask.	0.0.0.0
Default Gateway	0.0.0.0
Enter the default gateway.	

Wireless LAN (PJ WX4141N/WX4141NI)

Simple Settings

ltem	Default
Simple Wireless LAN Setup	-
Acquire the wireless LAN settings registered in the access point, and specify infrastructure mode wireless LAN settings for the projector automatically.	
This function may not work depending on the access point.	

Wireless LAN Settings

ltem	Default
Communication Mode	Adhoc
Select the wireless LAN communication mode.	
Infrastructure	
Select this mode when you want to connect the projector to a wireless LAN network. You need to specify [SSID] and items in [Security] and [TCP/IP Settings] in this mode.	
Adhoc	
Select this mode when you want to connect the projector and the computer directly. The projector specifies [SSID] and items in [Security] and [TCP/IP Settings] automatically in this mode.	
SSID	(blank)
Enter the SSID to connect to a wireless LAN network when	
[Infrastructure] is selected. Enter up to 32 characters.	
Channel	11
Select the channel to use when [Adhoc] is selected.	
Select the channel that matches the type of wireless LAN being used.	
The channels available might differ depending on the country.	
• 2.4 GHz: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	

Security

ltem	Default
Authentication Method	Open System
Select the wireless LAN authentication method.	
Open System	
WEP Shared Key	
• WPA-PSK	
• WPA2-PSK	

ltem	Default
Encryption Method	No Encryption
Select the wireless LAN encryption method.	
If you select [No Encryption], the communication is not encrypted.	
[No Encryption] is selectable only when you select [Open System] in [Authentication Method].	
Select [WEP] when you select [Open System] or [WEP Shared Key] in [Authentication Method].	
Select [TKIP] or [CCMP] when you select [WPA-PSK] or [WPA2-PSK] in [Authentication Method].	
No Encryption	
• WEP	
• TKIP	
• CCMP	
Transmission WEP Key Number	1
Select the key number used to authenticate and encrypt transmissions when you select [WEP] in [Encryption Method].	
• 1	
• 2	
• 3	
• 4	
Network Key	(blank)
Enter the WEP key when you select [WEP Shared Key] or [Open	
System] in [Authentication Method] and select [WEP] in [Encryption Method].	
When using 64 bit WEP, up to 10 characters can be used for hexadecimal and up to 5 characters for ASCII. When using 128 bit WEP, up to 26 characters can be used for hexadecimal and up to 13 characters for ASCII.	
Enter PSK when [WPA-PSK] or [WPA2-PSK] is selected in [Authentication Method].	
When using a PSK, up to 64 characters can be used for hexadecimal and 8 to 63 characters for ASCII.	

TCP/IP Settings

ltem	Default
DHCP	Disable
Specify whether to enable or disable DHCP.	
The IP address is allocated automatically from the DHCP server when [Enable] is selected. If you select [Disable], manually enter the IP address, subnet mask, and default gateway.	
IP Address Enter the projector's IP address.	0.0.0.0
Subnet Mask Enter the subnet mask.	0.0.0.0
Default Gateway Enter the default gateway.	0.0.0.0

Reset Wireless LAN Settings

tem	Default
Reset Wireless LAN Settings	-
Restore all the wireless LAN settings to their defaults.	

LAN Common

Specify the wired LAN and wireless LAN settings.

Network Interface (PJ WX4141N/WX4141NI)

tem	Default
Network Interface	Wired LAN Priority
Select the network interface to be used.	
Wired LAN	
Wireless LAN	
Wired LAN Priority	
Give priority to wired LAN if connected to the network via an Ethernet cable. Disconnect the Ethernet cable when using a wireless LAN.	
Disable	

DNS Settings (PJ WX4141N/WX4141NI)

Item	Default
Primary DNS Server Address	0.0.0.0
Enter the IP address of the primary DNS server.	
Secondary DNS Server Address	0.0.0.0
Enter the IP address of the secondary DNS server.	
Host Name	-
Display the projector's host name.	
The [Projector Name] in [Projector ID] is used as the projector's host name.	
Domain Name	(blank)
Enter the projector's domain name. Enter up to 63 characters.	

Projector Search Settings (PJ WX4141N/WX4141NI)

ltem		Default
Projector Search	Enab	le
Specify whether or not to search for the projector automatically when he projector and the device connected to the projector are on the same network.		

HTTP Client Settings (PJ WX4141N/WX4141NI)

ltem	Default
HTTP Proxy Server Port	80
Enter an HTTP proxy server port that is between 1 and 65535.	
HTTP Proxy Server Name	(blank)
Enter an HTTP proxy server name that is up to 128 characters.	
HTTP Proxy User Name	(blank)
Enter an HTTP proxy user name that is up to 31 characters.	
HTTP Proxy Password	(blank)
Enter an HTTP proxy password that is up to 31 characters.	

HTTP Server Settings (PJ WX4141N/WX4141NI)

ltem	Default
HTTP Port	80
Enter an HTTP port that is between 1 and 65535.	

Manage Certificate

ltem	Default
Import Device Certificate	-
Import the device certificate saved on the USB memory device to the projector.	
Insert the USB memory device into the USB port on the projector to display the file list. Select the device certificate	
to be imported from the file list.	
Certificate List	-
The list of device certificates is displayed. You can confirm details about the device certificate or delete it in this screen.	

Projector ID (PJ WX4141N/WX4141NI)

ltem	Default
Projector Name	RPJxxxxxx * 1
Enter an ID to identify the projector on the network. Enter up to 16 characters. You can use alphanumeric characters, hyphens, and periods for projector names. Only a letter can be used for the first character of the projector's name. Hyphens and periods cannot be entered consecutively and cannot be used for the last character of the projector's name.	
Identification Code	0000 to 9999 *2
Enter the 4-digit identification code for connecting the projector and the computer using QuickProjection.	

^{* 1} xxxxxx is the last six digits of the wired LAN's MAC address.

^{*2} Each projector has a unique identification code as the default setting.

Setup Wizard (PJ WX4141N/WX4141NI)

ltem	Default
Network Setting Wizard	-
Open Network Setting Wizard. For details about Network Setting Wizard.	

Display Status

Wired LAN (PJ WX4141N/WX4141NI)

Item	Default
Current wired LAN settings are displayed. You can confirm the following items:	-
Connection Status, MAC Address, Transmission Speed, IP Address, Subnet Mask, Default Gateway	

Wireless LAN (PJ WX4141N/WX4141NI)

ltem	Default
Current wireless LAN settings are displayed. You can confirm the following items:	-
Connection Status, Radio Field Intensity, MAC Address, Access Point BSSID, Communication Mode, Transmission Speed, Channel, SSID, Authentication Method, Encryption Method, IP Address, Subnet Mask, Default Gateway	

Firmware Version

Item	Default
Network/USB Func. Firmware Version Display the firmware version of the network and USB functions.	-
Energy Saving IO Firmware Version	-
Display the energy-saving IO firmware version.	

Network Application Settings Menu (PJ WX4141N/WX4141NI)

This section explains the items in the Network Application Settings menu under the Network/USB Settings menu tab.

4

You can also specify and check the items in the Network Application Settings menu using Web Image Monitor. However, the following items are available only on the menu screen.

- [Crestron WebUI User Auth.], [Crestron WebUI User Password], [Crestron WebUI Admin. Auth.],
 [Crestron WebUI Admin. Password], [Control System IP Address], [Control System IP ID], and
 [Control System Port] in [Administration Tools]
- [DLNA Certification Mode] in [Server]
- [@Remote: Firmware Updating] in [Firmware Update]

On Web Image Monitor, you can check [Network/USB Func. Firmware Version] and [Energy Saving IO Firmware Version] on the top page.

Administration Tools

Web Image Monitor

ltem	Default
Web Image Monitor	Enable
Specify whether or not to allow the projector settings to be changed and checked using a web browser. To enable this setting, you must restart Web Image Monitor after making the change.	

AMX Device Discovery

ltem	Default
AMX Device Discovery	Disable
Specify whether or not to allow the projector to be controlled and monitored by AMX Device Discovery. To use this function, an AMX controller is required in your network environment. For details about AMX Device Discovery, see the AMX LLC website.	

Crestron RoomView

Item	Default
Crestron RoomView	Disable
Specify whether or not to allow the projector to be controlled and monitored by Crestron RoomView.	
Crestron WebUI User Auth.	Off
Specify whether or not to restrict access to Crestron WebUI with a password.	

ltem	Default
Crestron WebUI User Password	(blank)
Enter the password for Crestron WebUI user authentication up to 26 characters.	
Crestron WebUI Admin. Auth.	Off
Specify whether or not to restrict access to the tools screen on Crestron WebUI with a password.	
Crestron WebUI Admin. Password	(blank)
Enter the password for Crestron WebUI administrator authentication up to 26 characters.	
Control System IP Address	0.0.0.0
Enter the IP address of Crestron Control System.	
Control System IP ID	3
Enter the IP ID to connect to Crestron Control System.	
Control System Port	41794
Enter the port number for communicating to Crestron Control System.	

PJLink

ltem	Default
PJLink Authentication	Off
Specify whether or not to set PJLink authentication.	
PJLink Password	(blank)
Enter a password used when setting the PJLink authentication that Is up to 32 characters.	

Security

ltem	Default
Administrator Authentication	Off
Specify whether or not to set administrator authentication.	
A administrator password is required to change this setting.	
If administrator authentication is set, a password is required for the following operations:	
 Changing [Transmission WEP Key Number], [Network Key], [Crestron WebUI User Auth.], [Crestron WebUI User Password], [Crestron WebUI Admin. Auth.], [Crestron WebUI Admin. Password], [PJLink Authentication], and [PJLink Password] 	
Using the simple wireless LAN setup function and the [Network Setting Wizard] screen	
Importing or deleting device certificates	
Executing [@Remote: Firmware Updating]	
Turning the projector on or off via a network	
Changing the settings using Web Image Monitor	
Administrator Password	(blank)
Enter the administrator password up to 32 characters. The current password is required to change the administrator password.	

Server

Remote Projection Control

ltem	Default
Remote Projection Control	Enable
Specify whether or not to enable the Remote Projection Control function. The Remote Projection Control function allows you to project images from a tablet computer or a smartphone via a network.	

Projection Server Settings

ltem	Default
Server URL	(blank)
Enter the root URL of the server on which the files to be projected using the projection server functions are saved. Enter up to 128 characters.	
Index File	(blank)
Enter the name of the index file on the projection server. Enter up to 31 characters.	
HTTP Proxy Server Usage	No
Specify whether or not to use a proxy server.	
Access Restriction Type	None
Specify whether or not to display the access number input screen when you access the projection server.	
Select [Access No.] if access to the projection server is restricted by an access number.	
• None	
Access No.	

Still Image

ltem	Default
Display Effect	None
Select the display effect for switching the image.	
• None	
• Push	
The current image is pushed off by the next image.	
• Wipe	
The current image is wiped off by the next image.	
• Fade	
The current image fades out and the next image fades in.	
Display Interval (sec.)	5 seconds
Enter the slide show switching interval from 5 to 999 seconds.	

Moving Image

Item	Default
Repeat	Off
Specify whether or not to repeat video playback.	
DLNA Certification Mode	Disable
Specify whether the projector works as a DLNA-certified device.	
The projector is certified to DLNA 1.5 guidelines for still images.	
Enable	
The projector works as a DLNA-certified device. Of the video files sent from the DLNA server, those files that are not DLNA compatible are shown on the file list of the Server Projection screen.	
• Disable	
The projector works according to its own specifications. It does not work as a DLNA-certified device. All the video files delivered from the DLNA server appear in the file list of the Server Projection screen.	

Firmware Update

The following items are available only for users who sign up for the $@Remote\ service$.

Item	Default
@Remote: Notify Firmware Update	Yes
Specify whether or not to display a message for firmware update notification.	
@Remote: Firmware Updating	-
Execute firmware update via the @Remote service.	

Display Status

PJLink

Item	Default
PJLink Class	-
Display the PJLink class.	

Firmware Version

Item	Default
Network/USB Func. Firmware Version	-
Display the firmware version of the network and USB functions.	
Energy Saving IO Firmware Version	-
Display the energy-saving IO firmware version.	

5. Troubleshooting

Indicator Display

Problems are shown by a combination of LED Indicators and the beep sound.



- 'ameans the indicator is flashing.
- When an error occurs in the projector, the display shows the error window for ten seconds, and then the projector returns to the standby status for cooling the inside.
- Error window is only displayed in the following status.
- Fan error / Temperature error / Hardware error / Installation error (When the other errors are occurred, the projector will standby promptly)

Projector

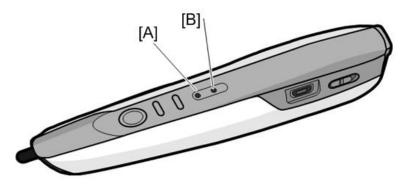
RTB 3a Table modified

Status of Indicator Lights	Trouble	Cause	Solution
The projector does not turn on. [A] [B] y03315528 [A] Lamp [B] Temp	Standby power is not on.	There is a problem with the power supply or the main board.	 Check the power supply. Check the connector. Check the main board.
[A] [B] y033t5529 [A] Lamp [B] Temp Flashing interval: 0.2 seconds	Hardware error Power went out during use.	There are problems with the main board.	Check the main board and the cable connections.

Status of Indicator Lights	Trouble	Cause	Solution
[A] [B] y033t5530 [A] Lamp [B] Temp	Lamp error Lamp went out during use, or won't come on.	 Lifetime of the lamp has ended. The rotation of the color wheel is not detected. The lamp ballast is defective. The temperature around the lamp ballast is high. 	 Replace the lamp. Clean the inside of the projector. Replace the optical unit. Replace the lamp ballast.
The lamp does not turn off. [A] [B] y033t5531 [A] Lamp [B] Temp Flashing interval: 2 seconds	The projector failed to turn off the lamp.	 The processor in the lamp ballast is malfunctioning. The main processor is malfunctioning. 	Disconnect the AC power cord, and then connect it again.
[A] [B] y033t5531 [A] Lamp [B] Temp Flashing interval: 1 second	Lamp cover error Power went out during use, or power won't come on.	The lamp cover is not installed correctly.	Disconnect the AC power cord and reinstall the lamp cover correctly. page 53 "Lamp Unit"
[A] [B] y033t5547 [A] Lamp [B] Temp	Temperature error Power went out during use.	 Internal overheating. The temperature around the intake fan is 42 degrees C or higher. Temperature sensor is defective. 	 Check the environment, e.g. whether there is any heat source near the projector. Check if the interface board is properly connected. Replace the interface board. Replace the main board.

Status of Indicator Lights	Trouble	Cause	Solution
[A] [B] y033t5532 [A] Lamp [B] Temp	Fan error Power went out during use.	Fan rotation speed is too low. Single flash repeated: FAN 1 (Intake Fan). DAC error of the fan IC. The number of flashes indicates the Fan No. Single flash repeated: FAN 1 (Intake Fan) 2 flashes repeated: FAN2 (Lamp Fan) 3 flashes repeated: FAN3 (Exhaust Fan)	 Check if the fan connector (intake fan: CN5, exhaust fan: CN7, lamp fan: CN8) is properly connected. Replace the fan. Replace the main board.
[A] [B] y03315533 [A] Lamp [B] Temp	Installation error Power went out during use, or power won't come on.	The projector is tilted at angle of 20 degrees or more.	 Check the Projector condition. Check if the control panel connector is properly connected.
[A] [B] y033t5533 [A] Lamp [B] Temp	Firmware update error	The firmware has not been properly written.	Perform the firmware update procedure again. If the problem persists, replace the network board and the main board.

Electronic Pen



y033t5201

[A]: LED1 [B]: LED2

Status	LED 1	LED2
Not registered by projector/ Currently being registered by projector	-	Flashes red.
Registration completed	-	Lights up in green or rapidly flashes.
Charging	Lights up in green.	-

Error Message

Error message of the projector (Service status)

The error message shown on the Service status display indicates the cause of the error.

Error ID	Meaning	Cause	Solution
1	Lamp turn on error	 Lifetime of the lamp has ended. The rotation of the color wheel is not detected. The lamp ballast is defective. The temperature around the lamp ballast is high. 	 Replace the lamp. Clean the inside of the projector. Replace the optical unit. Replace the lamp ballast.
2	Lamp cover error	 The lamp cover is not properly attached. The lamp cover open sensor is defective. 	 Check if the lamp cover is properly attached. Check the lamp cover open sensor.
3	Lamp turn off error	 The processor in the lamp ballast is malfunctioning. The main processor is malfunctioning. 	Disconnect the power cord (AC), and then connect it again.
4	Intake Fan (Fan1) speed error	 Fan rotation speed is too low. DAC error of the fan IC. 	 Check if the fan connector (CN5) is properly connected. Replace the intake fan. Replace the main board.
5	Lamp Fan (Fan2) speed error	 Fan rotation speed is too low. DAC error of the fan IC. 	 Check if the fan connector (CN8) is properly connected. Replace the lamp fan. Replace the main board.

Error ID	Meaning	Cause	Solution
6	Exhaust Fan (Fan3) speed error	 Fan rotation speed is too low. DAC error of the fan IC. 	 Check if the fan connector (CN7) is properly connected. Replace the exhaust fan. Replace the main board.
7	Temperature 1 error	 The temperature around the intake fan is 42 degrees C or higher. Temperature sensor is defective. 	 Check the environment, e.g. whether there is any heat source near the projector. Check if the interface board is properly connected. Replace the interface board. Replace the main board.
8	Installation angle error	The projector is tilted at angle of 20 degrees or more.	 Check the projector condition. Check if the control panel connector is properly connected.
9	System memory error	A data access error occurred while accessing the EEPROM on the main board.	Replace the main board.
10	Audio processor error	A data access error occurred while accessing the audio device.	Replace the main board.
11	Video decoder error	A data access error occurred while accessing the video decoder.	Replace the main board.
12	A/D converter error	A data access error occurred while accessing the A/D converter.	Replace the main board.
13	HDMI receiver error	A data access error occurred while accessing the HDMI receiver.	Replace the main board.

Error ID	Meaning	Cause	Solution
14	Tilt sensor error	A data access error occurred while accessing the tilt sensor.	 Check if the connector between the control panel board and the main board (CN3) is properly connected. Replace the control panel board.
15	Color wheel error	 The color wheel stopped after the lamp turned on. Color wheel rotation speed is too low after the lamp turned on. 	 Check if the color wheel sensor connector (CN2) is properly connected. Check if the color wheel motor connector (CN14) is properly connected. Clean the inside of the projector. Replace the main board. Replace the optics section.
16	DMD error	 DMD temperature is abnormal. DMD Drive voltage is too low. 	Replace the optical unit.
17	DDP error	The CPU is malfunctioning.	 Disconnect the power cord (AC) and then connect it again. Replace the main board.
18	Network communication error (WX4141N/ WX4141NI)	The communication with network board is malfunctioning.	 Check the connection with the network board. Reboot the network function. Replace the network board.
19	Network device error (WX4141N/ WX4141NI)	The network board is malfunctioning.	Replace the network board.

Error ID	Meaning	Cause	Solution
20	Network I/O device error (WX4141NI/ WX4141NI)	The communication function is malfunctioning.	Replace the network board.
21 to 25	Network error (reserved)	Not used	Not used
26	Lamp go out error	The lighted lamp is broken down or lifetime of lamp has ended. Power unit (PSU/Ballast) is broken down during output.	 Disconnect the power cord (AC), replace the lamp, and then connect it again. Disconnect the power cord (AC), cool the projector, and then connect it again.
27	Lamp voltage error	The lamp voltage is abnormal.	Disconnect the power cord (AC), replace the lamp, and then connect it again.
28	Ballast temp error	The ballast temperature is abnormal.	Disconnect the power cord (AC), cool the projector, and then connect it again.
29	Not used	-	-
30	Not used	-	-
31	Not used	-	-
32	Point blank error	The point blank is malfunctioning.	Disconnect the power cord (AC), and then connect it again.
33	Not used	-	-
34	RTC device error	The RTC device is malfunctioning.	Disconnect the power cord (AC), cool the projector, and then connect it again.

Error ID	Meaning	Cause	Solution
-	Temperature2 error	 The temperature around the lamp fan is abnormal. Temperature sensor is defective. 	Disconnect the power cord (AC), cool the projector, and then connect it again.
-	Auto focus error	Auto focus is malfunctioning.	-
-	Illuminance sensor	Illuminance sensor is malfunctioning.	Disconnect the power cord (AC), and then connect it again.
-	CPU boot error	CPU is malfunctioning.	Disconnect the power cord (AC), cool the projector, and then connect it again.
-	PSU temp error	The temperature around the PSU is abnormal.	Disconnect the power cord (AC), cool the projector, and then connect it again.
-	Firmware writing error	You can not update the firmware of the projector.	After checking the USB memory device and the updated firmware files, execute the program again.

Interactive Function Error Messages

Message	Cause	Solution
The PC USB adapter for the interactive function may not be connected yet.	The electronic pen has been registered to the projector before the computer USB adapter is registered to the projector.	Turn off the electronic pen, register the computer USB adapter to the projector, and then register the electronic pen again.

Message	Cause	Solution
The electronic pen is not working correctly.	The projector failed to register the computer USB adapter.	To try the registration process again, remove the computer USB adapter, and then click [OK].
		Make sure that the computer USB adapter is set correctly.
		 Make sure that there are no obstacles between the projector and the computer.
		Be sure to attach the computer USB adapter within five seconds of pressing the [Enter] button.
Please wait.	The channel for wireless connection is being switched automatically.	Wait until the message disappears.
	The message disappears when the wireless LAN connection channel is fixed.	

Check Point of Each Problem for Solution

Projector

Use this section to diagnose problems with the projector.

Problem	Solutions
Power does not turn on.	Make sure the power plug or connector is connected correctly.
	Make sure the lamp cover is mounted correctly.
	page 53 "Lamp Unit"
Power turns off during use.	Make sure the environment in which the projector is being used is within the acceptable temperature range.
	Make sure the vents are not blocked.
No image.	Make sure the input signal is switched correctly if [Auto Input Search] in [Default Settings 1] is set to [Off].
	Make sure the AV mute function is not turned on.
	Check the settings of [Brightness] in [Image Adjustment].
	 Make sure the computer or AV equipment is connected to the projector correctly.
	 Make sure the computer's image output is switched correctly.
	Make sure the computer or AV equipment is working properly.
No sound.	Make sure the input signal is switched correctly if [Auto
	 Input Search] in [Default Settings 1] is set to [Off]. For details about how to switch the input signal.
	Make sure the AV mute function is not turned on.
	Check the speaker's volume adjustment.
	 Make sure the computer or AV equipment is connected to the projector correctly.
	Make sure the computer or AV equipment is working properly.

Problem	Solutions
Image is not projected normally.	Make sure the input signal is compatible with the projector.
	Check the status of the video tape or other video source.
	Execute [Auto Set Signals] in [Image Adjustment].
	Check the settings of the computer's graphics driver. For details, see the manual provided with the computer.
Image is blurred.	Make sure the projection window is clean.
Image is partially out of focus.	For details, see the Operating Instructions.
	Check the focus adjustment.
	For details, see the Operating Instructions.
	Make sure the projection distance is within the projector's range.
	For details, see the Operating Instructions.
	Check the installation angles of the projector and screen.
	For details, see the Operating Instructions.
	Check the settings of [Sharpness] and [Phase] in [Image Adjustment]. For details, see the Operating Instructions.
Image is dark.	Check the settings of "Brightness" and "Contrast" in [Image Adjustment].
	For details, see the Operating Instructions.
	Make sure the lamp is not near the end of its service life.
	For details, see the Operating Instructions.
	Check the settings of [RGB Input Range] in [Image Adjustment].
	For details, see the Operating Instructions.
	Make sure [3D Projection] in [Default Settings] is set to [Off].
	For details, see the Operating Instructions.

Problem	Solutions
Color is faded. Tint is poor.	Check the settings of [Color Saturation], [R-level], [G-level], and [B-level] in [Image Adjustment].
	For details, see the Operating Instructions.
	Make sure the screen is clean.
	Check the settings of [Wall Color Correction] in [Display Settings].
	For details, see the Operating Instructions.
	Make sure the lamp is not near the end of its service life.
	For details, see the Operating Instructions.
The projector's operation keys do not respond.	Make sure [Key Lock] in [Default Settings] is not set to [On]
	For details, see the Operating Instructions.
The remote control does not respond.	Make sure the ID assigned to the remote control and in the settings of [emote Control ID] in [fault Settings] re the same.
	For details, see the Operating Instructions.
	Make sure the batteries in the remote control are not dead.
	Make sure the batteries are correctly loaded into the remote control.
	For details, see the Operating Instructions.
	Make sure the remote control is inside its effective range.
	 Make sure there is nothing placed between the remote control and the projector.
	Make sure the remote control receiver is not exposed to strong light.
Display language is unknown.	Press the [Menu] button, and then select the display language in [Language / XXX] (XXX indicates the current display language) on the tab.

Problem	Solutions
No images from USB devices. (WX4141N/WX4141NI)	Make sure the USB memory device is connected correctly.
	 Make sure the connected USB memory device is compatible with the projector.
	 Make sure there are JPEG or MPEG files saved on the USB memory device.
	 Make sure the compression format, file size, and other conditions are compatible with the projector.
	For details, see the Operating Instructions.
Wired LAN is disabled.	Check the settings of [Wired LAN Settings] in [Network
(WX4141N/WX4141NI)	Settings] under "Network/USB Settings".
	For details, see the Operating Instructions.
Wireless LAN is disabled. (WX4141N/WX4141NI)	Check the settings of [Wireless LAN Settings] in [Network Settings] under [Network/USB Settings].
	 Make sure there is nothing placed between the computer and the projector.
	 Make sure the operating system of the computer is compatible with QuickProjection.
	 To project images by ad hoc wireless communication, log on to the computer with administrator privileges.
	Make sure that the projector is not in standby.
	Move the projector and access points closer to each other.
	 Make sure the access point and projector are close to each other, and move devices that emit radio signals such as microwave ovens further away.

Interactive Function

If you cannot use the interactive function, follow the steps below in the specified order to troubleshoot the problem.

Step	Check item	Solutions
1	Check the projector to make sure that power is supplied to it.	If the projector is not supplied with power, check the power cord for connection and turn on the power.
2	Check to see whether the projector is in Interactive Mode.	If Interactive Mode is set to [Off], switch it to [On]. For details about how to check whether the projector is in Interactive Mode, as well as how to spec.
3	Check to see whether the computer USB adapter is connected to in the computer.	If the computer USB connector is not connected, connect it to one of the USB ports on the computer.
4	Check to see whether the computer USB adapter inserted in the computer is registered to the projector.	When registered, the computer USB adapter flickers once every 0.5 seconds. Then, when the projector and the computer USB adapter are recognized, the adapter flickers once every two seconds.
5	Check that the connected to the projector using RGB cables or an HDMI cable.	The interactive function becomes inoperable if anything other than RGB cables or an HDMI cable is used.
6	Check that the computer screen is projected on the projector screen.	The electronic pen is not recognized unless the computer screen is projected.
7	Check to see whether the power switch of the electronic pen is set to "On".	If the power switch of the electronic pen is set to "Off", turn it to "On".

Step	Check item	Solutions
8	Check to see whether the battery of the electronic pen is out of charge.	When the power switch on the electronic pen is turned on, the communication indicator on the electronic pen flickers. If the indicator fails to flicker, check that a rechargeable battery is installed in the electronic pen. If a rechargeable battery is installed, recharge it.
9	Point the electronic pen nib toward the projected screen and check to see whether the electronic pen is recognized by the projector.	If the electronic pen is recognized correctly, the pointer on the projection screen will move in unison with the movement of the electronic pen.

When the projected screen cannot be operated as wanted, do the following solutions.

Problem	Solutions
The location the pen nib points at does not correspond with what is displayed on the screen.	 Change the display settings using the computer's graphic driver, so that the screen projected is not scaled by the computer. (Example: Display > General Settings > Scaling > Maintain Display Scaling) Change the computer output settings so that only the projector screen is displayed. For details about settings, see the computer manual.

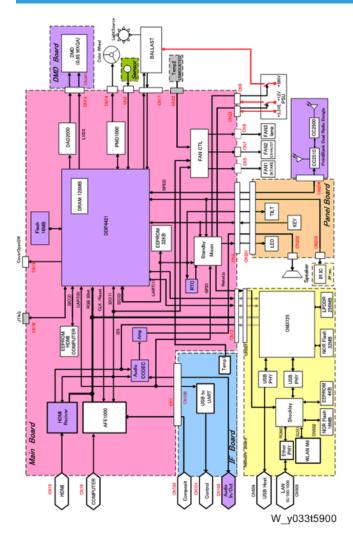
Electronic Pen

Problem	Solutions
The electronic pen is not working correctly.	The electronic pen may not work correctly if it is pointed at a shadowed area on the screen. Try to keep the screen from being shadowed and point it at an unshadowed area.
The electronic pen is not working correctly.	The electronic pen may not work correctly if the surrounding area is too bright. Dim the surrounding lights.
The electronic pen is not working correctly.	The Interactive Tool Kit may not work correctly if other Bluetooth/wireless LAN devices are used nearby. Try not to use the kit in the vicinity of such devices.

6. Appendices

Mechanism Outline

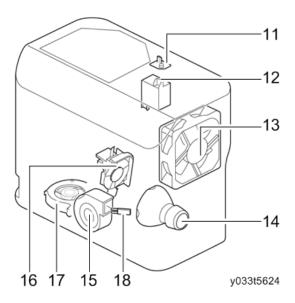
Block Diagram



Network board: PJ WX4141N/WX4141NI

Wireless LAN module: PJ WX4141N/WX4141NI

- 4
- 1. Control panel board
- 2. PSU (Main)
- 3. Lamp ballast
- 4. PSU (Sub)
- 5. DMD board
- 6. Interface board
- 7. Wireless LAN module (PJ WX4141N/ WX4141NI)
- 8. Network board (PJ WX4141N/ WX4141NI)
- 9. Main board
- 10. Lamp Cover Open Sensor



- 11. Remote control receiver board
- 12. Speaker
- 13. Exhaust fan
- 14. Lamp unit
- 15. Lamp fan
- 16. Color wheel motor
- 17. Intake fan
- 18. Temperature Sensor

Interactive Function

The interactive function consists of the electronic pen and PC USB adapter.

User can write images on the screen with the draw software and save it.



• The electronic pen can substitute a mouse. But, as it is difficult to attain the similar positional accuracy as a mouse, use a computer when you need to perform computer-side operations.



y033t5200

Features

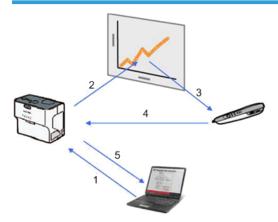
- 1. Supporting any projection screens.
- 2. Not need the calibration.
- 3. Not according to distance.

MARNING

- For safe operation, follow the warnings below regarding the batteries used in the pen. If you use the batteries incorrectly, it may result in fire or injury due to batteries leaking or exploding.
- Do not use batteries other than the ones specified.
- Correctly insert batteries according to the polarity (+ / -).
- Do not charge non-rechargeable batteries.
- Do not heat or throw the batteries into fire or water.
- · Do not connect the positive and negative terminals on a battery with a wire
- Remove the batteries that are past their suggested use period or that are depleted.
- Remove the batteries when they will not be used for extended periods.
- Keep the batteries out of the reach of children. Children may swallow or choke on the batteries. If this happens, contact a doctor immediately.
- Dispose of used batteries correctly at your local community waste collection/recycling centre.

6

System Configuration



y033t5202

- 1. Image sources (VGA, HDMI port).
- 2. Show the images embedded the pattern.
- 3. Electronic pen catch the light of image.
- 4. Send the measurements via 2.4 GHz wireless LAN.
- 5. Send the position of the electronic pen via 2.4 GHz wireless LAN (HD mouse).

MEMO

