

This training course provides service technician training for the Furud-PJ1 series.



This section provides an overview of the machine, and the options that can be installed.

What Models are there in the Series?



- Furud-PJ1cw (Y0A5, Y0A7): PJ WXL4540, PJ LW3000ST
 - 3000 lumens, WUXGA resolution
- Furud-PJ1w (Y0A4, Y0A6): PJ XL4540, PJ LX3000ST
 3000 lumens, WXGA resolution
- The models in red are for the China market.
- These are short-throw projectors using a laser light source.
- There is no network connectivity for this model.

See the specifications table in the service manual for more details.

Service Features

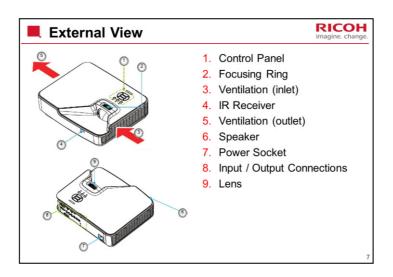


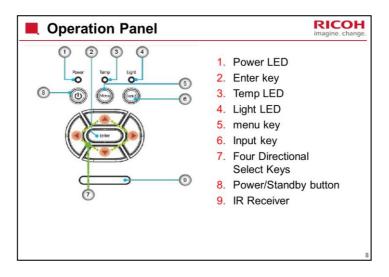
- This product can be installed by users, except when mounted on a ceiling or wall.
- This product is designed for user maintenance.
 Regular on-site maintenance is not needed.
- LEDs show the machine status and symptoms for troubleshooting.
- A service mode is available.

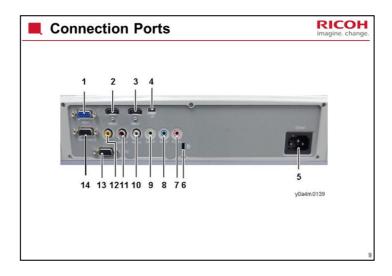
■ Major Selling Points



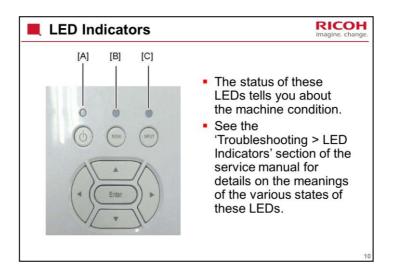
- 3,000lm short throw laser projector, WXGA and WUXGA
- 20,000 hours ultra long life (using eco-mode)
 - 10,000 hours in normal mode
 - Thanks to the laser light source, lamp-free design allows continuous operation, maintenance-free

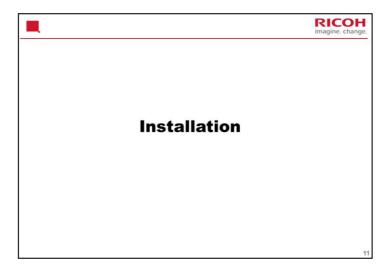






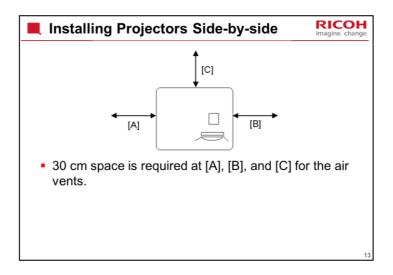
- 1. Computer-In/YPbPr Connector (PC Analog Signal/Component Video Input/HDTV/YPbPr)
- 2. HDMI2 Input Connector
- 3. HDMI1 Input Connector
- 4. USB socket for firmware update
- 5. Power Socket
- 6. Kensington Lock Port
- 7. Microphone Input Connector
- 8. Audio Input 1 Connector (3.5mm mini jack)
- 9. Audio Output Connector (3.5mm mini jack)
- 10. Audio Input 2 (left) Connector
- 11. Audio Input 2 (right) Connector
- 12. Video Input Connector
- 13. PC Control (9-pin DIN Type)
- 14. Monitor-Out Connector



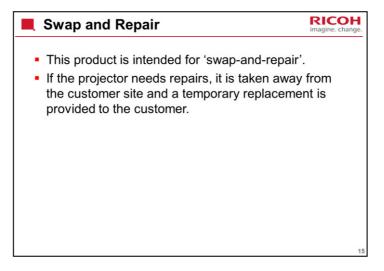


This projector is installed by the customer. However, please study the installation procedure in the user's guide to be familiar with the procedure, because some customers may need help.

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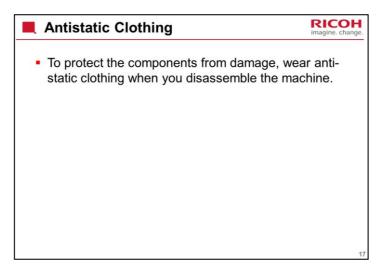






Special Tools Needed RS-232C cable (cross) USB cable (Type A to Mini B) Laptop (with terminal emulation software, which is required for collecting error logs and updating firmware) DLP composer Lite software (will be delivered with firmware) nuMicro ISP Programming Tool (will be delivered with firmware)

An example of terminal emulation software is Tera Term.

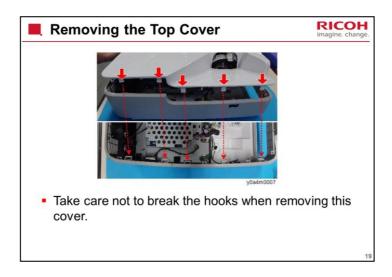


Parts Replacement



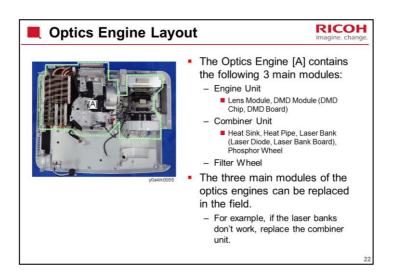
- After replacing parts, some adjustments may be needed. See the table in the following section of the service manual: Replacement and Adjustment -Required Action After Replacing Parts
 - Whenever you replace a component, check this table to see if you have to do any of these procedures.
 - The service manual says that the ADC Calibration procedure should be done after updating firmware.
 However, it is not necessary to do this.

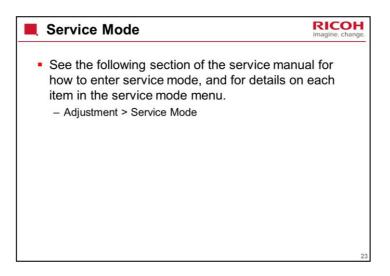
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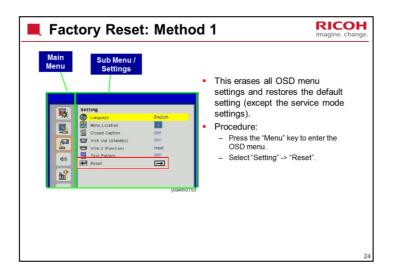


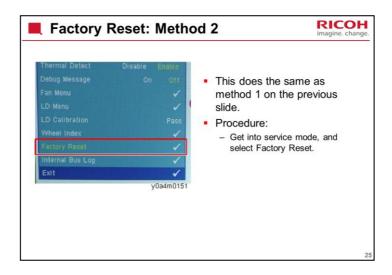








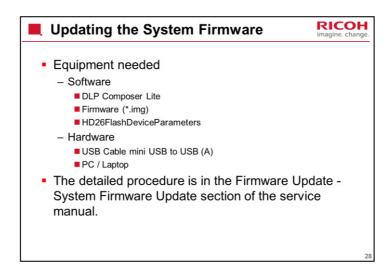






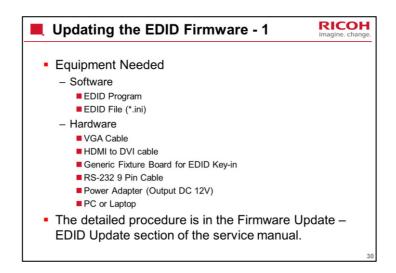
This section explains the basic points about updating the firmware.

■ Three Types of Firmware	RICOH imagine. change.
System Firmware	
MCU Firmware	
EDID Firmware	
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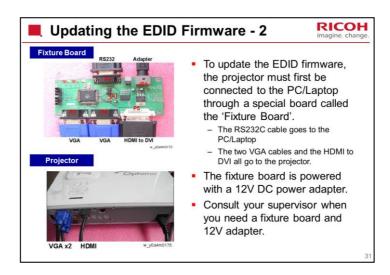


Download "DLP Composer Lite" and "HD26FlashDeviceParameters" from the website that provides the relevant tools for maintenance.

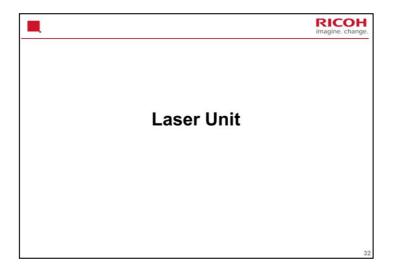
■ Updating the MCU Firmware ■ Equipment Needed — Software ■ NuMicro ISP Programming Tool ■ Firmware (*.isp) — Hardware ■ Female to female RS232 Cable ■ PC or Laptop ■ The detailed procedure is in the Firmware Update — MCU Firmware Update section of the service manual.



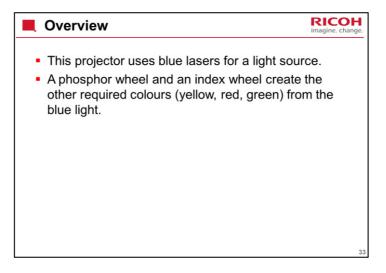
Fixture board, power adapter: See the next slide

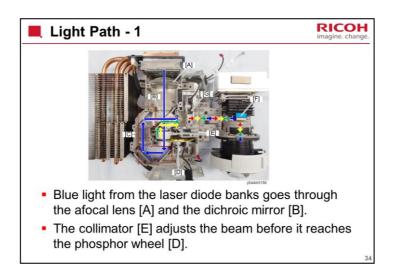


See the procedure in the service manual for details on how all this is connected up.

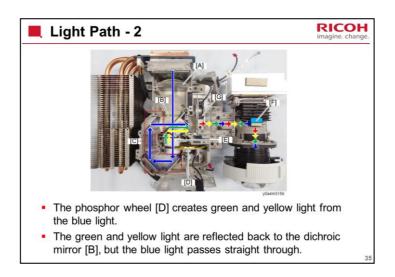


This section briefly describes the technology used in the laser diode units.

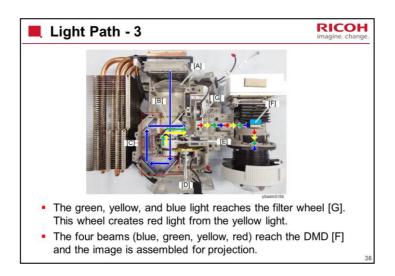




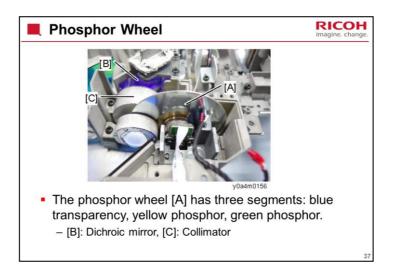
Afocal lens: No convergence, light is transmitted to a distant point as parallel rays.

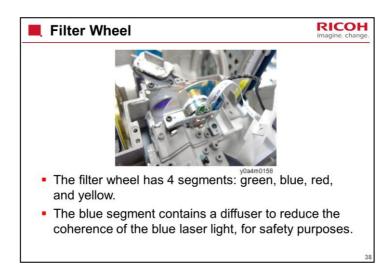


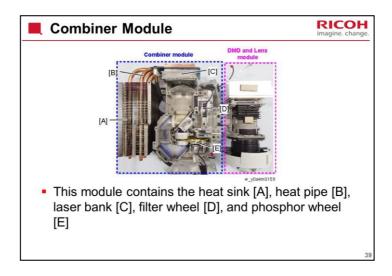
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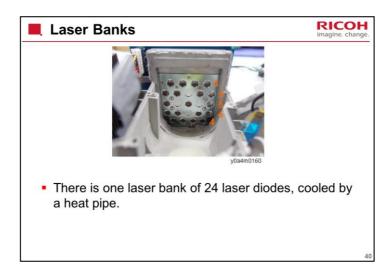


Afocal lens: No convergence, light is transmitted to a distant point as parallel rays.











The End