Kaus-PJ1

RICOH PJ RICOH PJ WXC1110

Machine Codes: Y0AB

Field Service Manual

May, 2016

Important Safety Notices

Important Safety Notices

Prevention of physical injury

1. Before disassembling or assembling parts of the main machine and peripherals, make sure that the power cord of the main machine is unplugged.

2. The wall outlet should be near the machine and easily accessible.

3. If any adjustment or operation check has to be made with exterior covers off or open while the main switch is turned on, keep hands away from electrified or mechanically driven components.

⚠ WARNING

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

Health safety conditions

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

Observance of electrical safety standards

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

Safety and Ecological Notes for Disposal

Dispose of replaced parts in accordance with local regulations.

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4. Adjustment

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1. Product Information

Overview

Main Unit

y0abm0105

y0abm0106

1. Control panel

2. Focus ring

3. Lens

4. Adjustable foot

5. Lens cap

6. Ventilation (inlet)

7. Infrared remote sensor

8. Connection ports

9. Ventilation (outlet)

Control Panel

y0abm0506
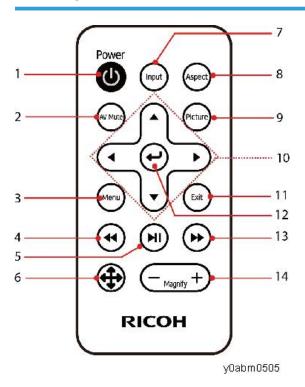
Ind.	Part Name	Description
1	Power	Turns the projector on/off.
2	Temp LED	Indicate the projector's temperature status.
3	Error LED	Indicate the projector's error status.
4	Menu	Press this key to launch the Onscreen display (OSD).
5	Four Directional Select Keys	Use ▲, ▼, ◀, or ▶ to select items or make adjustments to your selection.
6	Enter	Confirm your section of items in sub menu operation. When the OSD menu appears, select "Input Source" to choose VGA, HDMI/MHL, and Media.

Connection Ports

y0abm0108

1. Anti-theft lock hole

2. Micro SD card slot

3. USB Type A terminal

4. DC IN plugged jack

5. Headphone jack

6. HDMI / MHL terminal

7. Computer In terminal

1

Remote Control

y0abm0505

Ind.	Part Name	Description
1	Power	Turns the projector on/off.
2	AV Mute	Mutes/unmutes audio and/or video depending on the chosen mute option in the OSD menu ("Setup" > "Advanced" > "Mute").
3	Menu	Turns the main menu on/off or returns to upper level in the menu operations.
4	Rewind	Searches backward.
5	Play/Pause	Plays/pauses media file.
6	Moving mode	Enters Moving mode.
7	Input	Select input source.
8	Aspect	Use this function to choose your desired aspect ratio for the screen.
9	Picture	Select the preset picture mode.

Ind.	Part Name	Description
10	Four Directional Select	Uses to operate menu.
11	Exit	Returns to the previous page.
12	Enter	Confirms your section of items in menu system.
13	Fast Forward	Searches forward.
14	Magnify +/-	Enlarge part of the screen image. Reduce the enlarged part of the image. (Digital Zoom)

Specifications

Product Highlights

- RICOH PJ WXC1110 is a portable data projector with Multimedia playback function & Office viewer native to deliver min.

- 600 lumens with WXGA (1280*800) resolution & 1.5 Watts mono speaker. With expandable memory from micro SD card slot, it can display photo, video, music, PDF & Microsoft Office documents directly via embedded multimedia module.

- The complete I/O connection, Wireless display (with optional WiFi dongle) presents the portable business functionality.

- One panel 0.45 " DMD for WXGA projection system

- 40W LED dimmable to 10W

- Net weight: < 1lbs (DVT weight is about 435g with lens cap)

- Manual focus projection w/Fixed zoom lens

- True 1280X800(WXGA) resolution,16.7M for High colors

- With up, down, left, and right screen reverse

- Build-in full screen NTSC/PAL video capability with component through D-sub terminals

- 1080P/ WSXGA+ / WXGA/ SXGA+/ SXGA/ XGA/ SVGA/ VGA/ MAC compatibility.

- Auto image re-sizing to 1280X800(WXGA) full screen

- Auto detection of computer signal input

- Auto Image synchronization (Auto-tracking /frequency /position adjustment)

- Support Zoom-in and Zoom-out function

- Automatically saves adjustments for future use

- On-screen menu with 16 languages

- Adaptive voltage control fan speed

- Auto vertical keystone

- Support MHL display via mobile phone

General Specifications

No.	Item	Description
1	Dimensions (W x D x H)	W112.5 x D105 x H40.5mm (not including focus ring, rubber foot & protruding parts)
2	Weight	< 460g
3	Power Supply	• Auto-ranging: AC100–240V ±10%, 50–60Hz • DC Output: 19V/3.42A, 65W (max.)
4	Engine Platform	2nd Gen. D51 Plus
5	Resolution	WXGA 1280*800
6	ASIC	• DLP Pico Processor DPP 6401 w/ DLP-Link 3D/120Hz support • Multimedia: AM8250
7	LED Type	RGB LED
8	LED Life	20,000 Hours Bright Mode @ 40W ±10%
9	Altitude	• Operating: 0–2,500 ft, for 5–40°C 2,500–5,000 ft, for 5–35°C 5,000–10,000 ft, for 5–30°C
10	Technology	TI" DMD, 0.45" WXGA DMD
11	Power Consumption	• Full Mode: AC input < 77 W @ 110–240VAC, DC output < 19V/3.35A; 64W @ 110VAC • Standby Mode < = 0.5W
12	LED Power	Bright Mode: 40W ±10% (Typ.)
13	Component Video (via VGA connector)	480i, 480p, 576i, 576p, 720p, 1080i
14	Throw Ratio	0.8 ±5%

1

No.	Item	Description
15	Throw Distance	• 0.43–3.44m (mechanical travel range); • 0.86–1.72m (optical travel range)
16	Image Size	• 25–200" (mechanical travel range) • 50–100" (optical travel range) optimize at 60"
17	Contrast Ratio	• Typical: 800:1 • Minimum: 600:1
18	Uniformity (JBMA standard)	• Typical: 88% • Minimum: 80%

Computer Compatibility

PC (HDMI and VGA) and Macintosh compatible			
Mode	Resolution	Refresh rate [Hz]	Notes for Mac
VGA	640 x 480	60/75	60/75
SVGA	800 x 600	60/75/120[*1]	60/75
XGA	1024 x 768	60/75/120[*1] [*2]	60/75
SXGA	1280 x 1024	60/75	60
WXGA	1280 x 768	60/75	-
WXGA	1280 x 800	60	60
WXGA	1366 x 768	60	60
WXGA+	1440 x 900	60/75	-
SXGA+	1400 x 1050	60	60
WSXGA+	1680 x 1050	60	60

PC (HDMI and VGA) and Macintosh compatible			
Mode	Resolution	Refresh rate [Hz]	Notes for Mac
HDMI, YPbPr(via VGA port)	480i/480p	60	-
	576i/576p	50	
	720p	50/60	60
	1080i	50/60	-
	1080p	24/50/60	60

*1 3D timing for TI DLP 3D

*2 Down-scaling from 1024x768 to 800x600 to fit the front-end output specification, and then up-scaling into DPP6401

Lens

F#1.9, F=8.02 mm (at 60" screen)

Supported Multi-Media Formats

Photo Format

File Format	Sub Type	Encode Type	Max Size
Jpeg / Jpg	Baseline	YUV420	6000 x 4000 = 24,000,000 pixel
		YUV422	
		YUV440	
		YUV444	
	Progressive	YUV420	6000 x 4000 = 24,000,000 pixel
		YUV422	
		YUV440	
		YUV444	
BMP	-	-	6000 x 4000 = 24,000,000 pixel

Video Formats

File Format	Video Codec	Decode Max. Resolution	Max Bit Rate (bps)	Audio Codec	Profile
MPG, MPEG	MPEG1/2	1920 x 1080 30fps	30M bps	MPEG1 L1-3, LPCM	-
AVI, MOV, MP4, MKV	H.264	1920 x 1080 30fps	30M bps	MPEG1 L1-3, AAC, LPCM	BP(Baseline Profile)/ MP(Main Profile)/ HP(High Profile)
AVI, MOV, MP4	MPEG4	1920 x 1080 30fps	30M bps		SP(Simple Profile)/ ASP(Advanced Simple Profile)
AVI, MOV, MP4	Xvid	1920 x 1080 30fps	30M bps		
AVI	MJPGE	1920 x 1080 30fps	30M bps		BP(Baseline Profile)
WMV	VC-1	1920 x 1080 30fps	30M bps	WMA8/9	SP(Simple Profile)/ MP(Main Profile)

Audio Formats

File Format	Sample Rate (kHz)	Bit Rate (kbps)
MP3	8-48	8-320
WMA	22-48	5-320
WMV (ADPCM-WAV)	8-48	32-384
WMV (PCM-WAV)	8-48	128-1536
AAC	8-48	8-320
M4A	8-48	8-320

Office Viewer Formats

File Format	Supported Version	Page/Lines Limitation	Size Limitation
Adobe PDF	PDF 1.0, 1.1, 1.2, 1.3, 1.4	Up to 360 pages (One File)	Up to 32 MB
Microsoft Word	British Word 95	Because office viewer does not load all pages of MS/Word file at the same time, there are not obvious limitations of page and line.	Up to 20 MB
	Word 97, 2000, 2002, 2003		
	Word 2007(.docx)		Up to 30 MB
	Word 2010(.docx)		
Microsoft Excel	Excel 5, 95	Row Limit: up to 300(*) Column Limit: up to 100(*) Sheets: Up to 50(*)	Up to 14 MB
	Excel 97, 2000, 2002, 2003		
	Excel 2007(.xlsx)		
	Excel 2010(.xlsx)		
	Office XP Excel		
Microsoft PowerPoint	PowerPoint 97	Up to 100 pages (One File)	Up to 19 MB
	PowerPoint 2000, 2002, 2003		
	PowerPoint 2007(.pptx)		
	PowerPoint 2010(.pptx)		
	Office XP PowerPoint		
	PowerPoint presentation 2003 and earlier (.ppx)		
	PowerPoint presentation 2007 and 2010 (.ppsx)		

- (*) Row limit, column limit, and sheet limit can not appear in one Excel file simultaneously.

- Animations are not supported when viewing MS PowerPoint files.

- When projecting files, some documents may not be displayed the same as shown on the screen of a PC.

1

1

2. Installation

Installation Requirements

Environment/Power Requirements

Operating temperature

5°C to 40°C

20% to 80% humidity (no condensation)
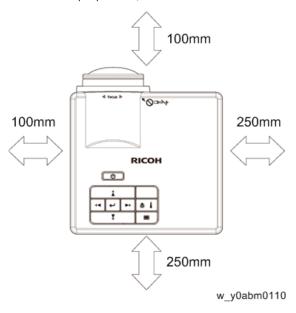
Power supply

100 to 240VAC ± 10%, 50 to 60Hz

19V/3.42A, 65W (Auto-ranging and DC Output)

Machine Space Requirements

Do not block projector in/out air vents. Leave at least the following space.

w_y0abm0110

Machine Dimensions

112.5 (W) x 105 mm (D) x 40.5 mm (H) (excluding protruding parts)
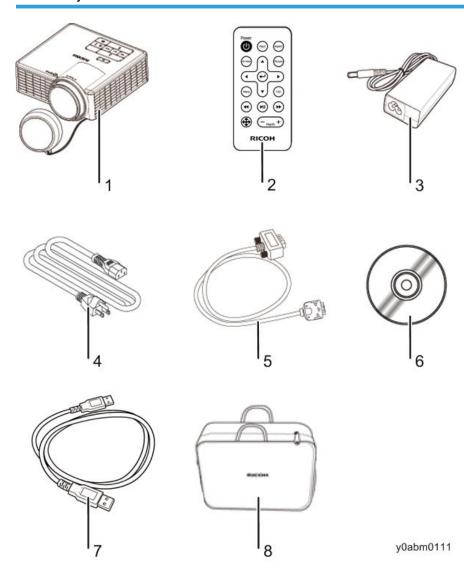
Main Machine Installation

The user must set this projector up.

⭐ **Important**

- About the handling of this machine, follow the contents with reference to Safety Information in the user manual.

Accessory Check

y0abm0111

No	Description	Q'ty
1	Projector with lens cap	1
2	Remote controller (CR2025 battery is included)	1
3	AC adapter	1
4	Power cord	1
5	RGB cable	1
6	CD-ROM (User's Guide)	1
7	USB A to A cable	1
8	Carry Bag	1

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

Precautions

- Do not look into the lens while the LED lamp is on. The strong light from the LED lamp may cause damage to your eyesight.
- Do not use the lens cap when the projector is powered on.
- Do not place the machine in a location where air flow is poor. Doing so may cause fire due to internal components becoming overheated.

2

3. Replacement

Equipment Needed

1. Screw Driver (+): No.00

2. Screw Driver (+): No.1

3. Screw Driver (-): 2.5mm

4. Projector

1   2   3   4   y0abm0502

Parts List

Service Parts List

1. FPC cable
2. Users guide (CD-ROM)
3. Quick start card (sheet)
4. Power cord
5. VGA cable
6. USB Type A to A cable
7. Remote controller
8. AC adapter
9. Focus ring
10. String (for lens cap)
11. Bottom cover
12. Keypad
13. Lens cap
14. Adjustable foot
15. Rubber leg
16. Heat dissipation sheet (attach to top cover)
17. Carry bag
18. Top cover
19. Left Fan
20. Front Fan
21. Rear Fan
22. Engine module
23. Speaker
24. IO cover
25. Main board
26. Multimedia board

Part Replacement

⭐ **Important**

- Before you start: This process is protective level II. Operators should wear electrostatic chains.

- If you need to replace the main board, you have to get into service mode and record the LED usage hour (page 41 "Service Mode ").

Exterior Cover

Top Cover

1. **Remove screws on the Bottom Cover (M1.6x5🔩x4).**

y0abm0005

2. **Remove screws on the I/O cover (M1.6x5🔩x3).**

y0abm0006
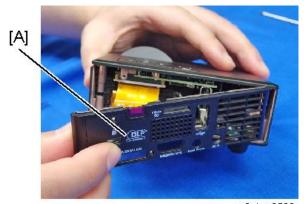
3. **Insert a flathead screwdriver from the area indicated by a blue circle and release the I/O cover's hooks (indicated by red arrows).**
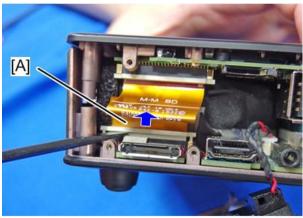
y0abm0157

4. **Open the I/O cover [A]**

[A]
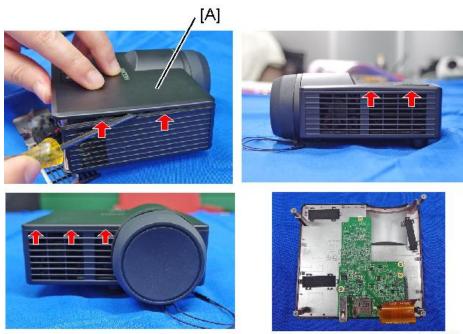
y0abm0508

5. Release the lock of the FPC [A], and disconnect the bottom of the FPC.

y0abm0156

6. Insert a flathead screwdriver under the top cover [A], remove 7 hooks (indicated by red arrows), and then remove the top cover [A].

y0abm0155

I/O Cover

1. Top cover (**page 25**)

2. **Unplug one connector to remove the I/O cover (🖘x1).**
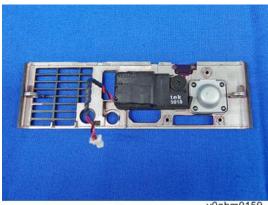
y0abm0158
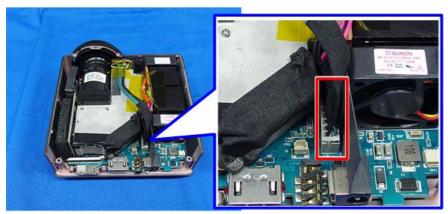
y0abm0159

Bottom Cover
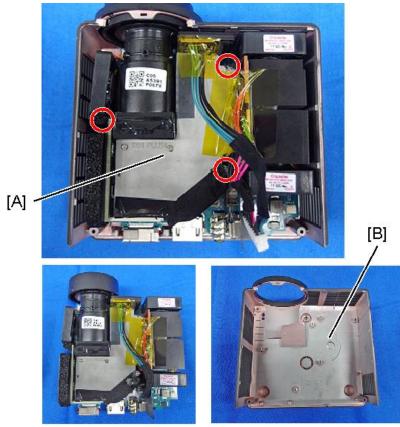
1. Top Cover (**page 25**)
2. I/O Cover (**page 27**)

3. Disconnect the connector (🖑 x1)

y0abm0021
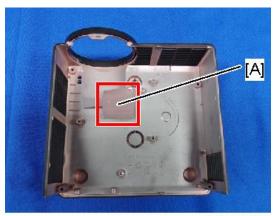
4. Remove the Engine module with the Main board [A] (M1.6*4 🖑 x3).

5. Bottom cover [B]

[A]

[B]

y0abm0124

❖Note
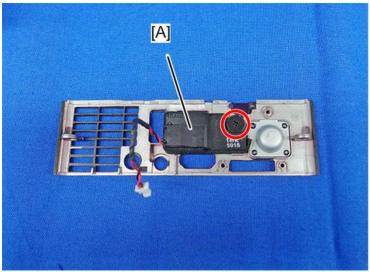
* When installing the new bottom cover, be sure to apply a new dissipation sheet [A].

y0abm0169

Speaker

1. I/O Cover (page 27)
2. Speaker [A] (M2.0🔩x1).

y0abm0015

FPC Cable

1. Top Cover (page 25)

2. FPC cable [A]

y0abm0161
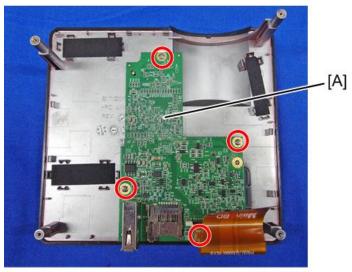
y0abm0009

Multimedia Board
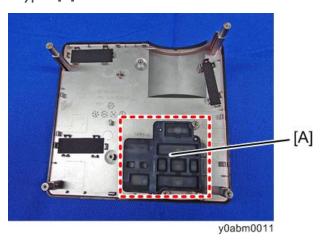
1. Top Cover (page 25)
2. FPC Cable (page 30)

3. Multimedia Board [A] (4 1.6🔩x4).

y0abm0008

Keypad

1. Top Cover (page 25)
2. Multimedia Board (page 31)
3. Keypad [A]

y0abm0011

y0abm0013
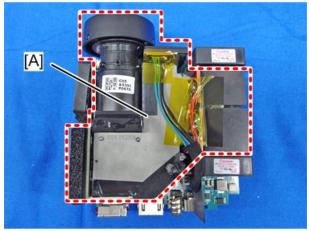
Engine Module

1. **Bottom Cover (page 28)**
2. **Remove screws (M1.6*4 x3).**
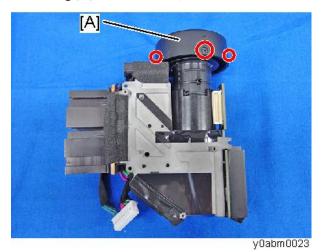
y0abm0125

3. **Engine Module with Focus Ring [A]**

y0abm0164

4. **Focus Ring [A] (M1.7*4⌷x3).**
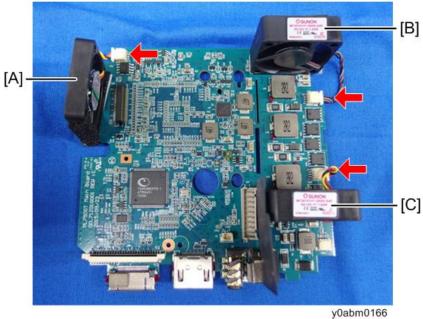
y0abm0023
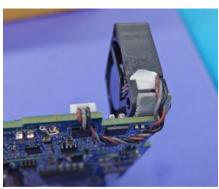
Fans

1. **Engine Module (page 33)**

2. Fans

y0abm0166

[A]: Left Fan ($\mathbb{GF}$x1)

[B]: Front Fan ($\mathbb{GF}$x1)
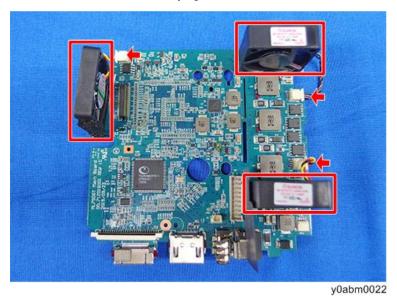
[C]: Rear Fan ($\mathbb{GF}$x1)

- All fans are fastened by a double-sided adhesive tape.

- Direction of the ventilation: See "page 5 "Main Unit"".

- Route the Front Fan [B] cable through the back side of the board as shown below.

y0abm0172

3

Main Board

1. Engine Module (page 33)

2. Remove three fans (🗇x3). (page 34 "Fans")

y0abm0022

3. Main Board [A]

[A]

y0abm0165

3

Adjustable Foot

1. **Adjustable foot [A]**

y0abm0131

3

4. Adjustment

Required Action after Replacing Parts

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

Required Action	Changed parts			Software	Description page
	Main Board	Multimedia Board	Engine Module	Firmware	
ADC calibration	✓	-	-	✓	page 43 "ADC Calibration"
Factory Reset	✓	-	-	✓	page 47 "Factory Reset"

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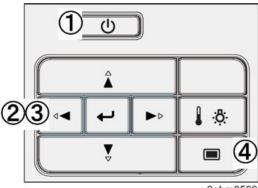
Make sure that engineers are equipped with the following tools, which will be necessary in order to update the firmware, and to perform adjustments that are necessary after replacing the optical engine or main board.

- RS232 cable (9-pin to 9-pin)
- USB cable (Type A to Mini)
- USB cable (Type A to B)

Service Mode

How to enter the Service Mode

1. Turn on the projector.

2. Press the "Power [1]", "Left [2]", "Left [3]", and "Menu [4]" keys sequentially.

y0abm0509

3. The service mode menu appears.

y0abm0501

Note

- You can use the remote controller to enter the service mode in the same way.

• To exit from the service mode or return to the previous menu, select "Exit".

Service Mode Settings

Setting Item	Description
System Hours	The projector's cumulative time that it has been switched on.
LED Hours	The LED's cumulative operation time.
LED Hours (low)	The LED's cumulative operation time in low power mode.
Factory Reset	Use this to reset all the settings in the OSD menu (except for the service mode and network settings).
Burn In Test	Choose this option and press the Enter key to go into the Burn in test menu.
Failure Log	Records the times of failures, such as excessive temperature.
Analog Settings	To execute PC Calibration.
LED Calibration Settings	To execute LED Calibration.
Optical Settings	Execute Spoke mode and test patterns.
Thermal Settings	Shows thermal status.
Other Settings	For RD testing only.
G Sensor Calibration	Use this to calibrate the sensor that detects the projector's orientation.
Security Password	Show the Security password.
Exit	Exit the service mode.

Calibration

🔽 **Note**

- If you don't have professional equipment such as Quantum Data 802B or Chroma 2327, please use a PC that supports HDTV resolution and has an independent graphic card to output the corresponding PC pattern. You can download the "test pattern by PC" from SERES as shown below.

y0abm0045

ADC Calibration
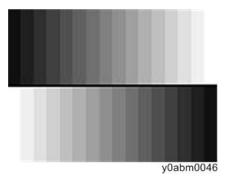
To adjust the white/black value of the VGA signal, after replacing the main board or updating firmware, ADC calibration is needed.

Environment

- Test equipment: Video generator
- Test signal: 1280 x 800 @60HZ
- Test pattern: Full black / Full white

y0abm0046

⬇Note

4
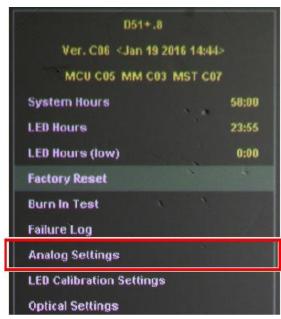
* The calibration pattern should be in full screen mode.

Procedure
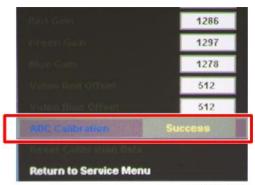
1. **Project the test pattern.**

2. **Get into the service mode. (page 41 "Service Mode ")**

3. **Select "Analog Settings".**

y0abm0171

4. **Select "ADC Calibration".**

When the calibration has finished, "Success" appears.

y0abm0174

5. Execute "Factory Reset". (page 47 "Factory Reset")

6. After the ADC Calibration, project the test Pattern (64 gray RGBW with 1280 X 800 @60HZ) and check the following criteria.

64 gray RGBW

y0abm0047
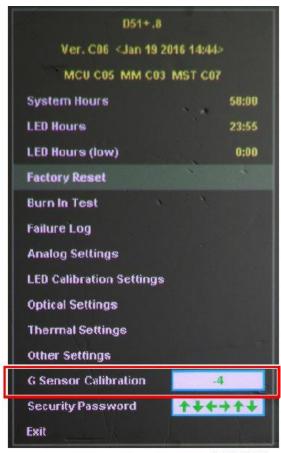
Criteria

- The screen must appear normal, without abnormalities such as lines. (The unidentified color levels on both left and right sides should not be over 8 color levels.)

- Check that the projection is the same as displayed on the monitor.

G Sensor Calibration

1. Put the Projector on a horizontal surface.

2. Get into the service mode. (page 41 "Service Mode ")

3. Select "G Sensor Calibration".

y0abm0170

💧**Note**
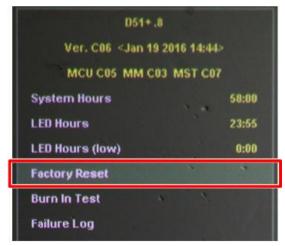
- "G Sensor Calibration" must have a value; it must not be blank.

Factory Reset

Factory Reset allows you to erase all OSD menu, restore the default setting, and clear the Failure Log.

Factory Reset Procedure

1. **Get into the service mode (page 41 "Service Mode ")**

2. **Select "Factory Reset".**

y0abm0503

3. **Select "Yes".**

y0abm0504

When the factory reset has finished, "Success!!" appears.

y0abm0173

4

5. Troubleshooting

Troubleshooting

Main Procedure

```
                    Start
                      |
                      v
          ┌──────────────────────┐
          │ Connect power cord,   │
          │ analog or digital     │
          │ signal cable properly │
          └──────────────────────┘
                      |
                      v
            Does the power LED ──No──>  ┌──────────────────────┐
                light?                  │ A. No Power           │
                      |                 │ Troubleshooting       │
                     Yes                └──────────────────────┘
                      |
                      v
          ┌──────────────────────┐
          │ Turn on the projector │
          └──────────────────────┘
                      |
                      v
            Does the lamp ignite? ──No──>  ┌──────────────────────┐
                      |                    │ B. Power             │
                     Yes                   │ Troubleshooting      │
                      |                    └──────────────────────┘
                      v
               Is image OK? ──No──>  ┌──────────────────────────┐
                      |              │ C. Image Performance      │
                     Yes            │ Troubleshooting            │
                      |              └──────────────────────────┘
                      v
          Is remote control OK? ──No──>  ┌──────────────────────┐
                      |                   │ D. Remote Control     │
                     Yes                  │ Troubleshooting       │
                      |                   └──────────────────────┘
                      v
          ┌──────────────────────┐
          │ No fault found        │
          └──────────────────────┘
                      |
                     Yes
                      |
                      v
                    End
```

w_y0abm0555

No Power Troubleshooting

```
        ┌─────────────────┐
        │   No power       │
        │ Troubleshooting  │
        └─────────────────┘
                │
                ▼
        ◇ Is the power cord        ──No──►  ┌────────────────────────┐
          connected securely at the         │ Properly connect power  │
          unit and the power                │ cord at unit and AC     │
          source? ◇                         │ power source            │
                │                           └────────────────────────┘
               Yes
                ▼
        ◇ Is the power source      ──No──►  ┌────────────────────────┐
          providing AC voltage? ◇           │ Supply AC voltage       │
                │                           │ (100V-240V)             │
               Yes                          └────────────────────────┘
                ▼
        ◇ Check the FPC cable      ──No──►  ┌────────────────────────┐
          if it connected well? ◇           │ Re-connect or replace   │
                │                           │ the FPC cable between    │
               Yes                          │ multimedia board and    │
                ▼                           │ main board              │
        ◇ Does the poser LED       ──No──►  └────────────────────────┘
          light? ◇                          ┌────────────────────────┐
                │                           │ Replace the multimedia  │
               Yes                          │ board                   │
                ▼                           └────────────────────────┘
        ◇ Does the poser LED       ──No──►  ┌────────────────────────┐
          light? ◇                          │ Replace the main board  │
                │                           └────────────────────────┘
               Yes
                ▼
    ┌──────────────────────────────┐
    │ Continue function test and    │
    │ other troubleshooting once the│
    │ power LED light               │
    └──────────────────────────────┘
```

w_y0abm0556

Power Troubleshooting

w_y0abm0557

Image Performance Troubleshooting


```
Image performance
troubleshooting

Does the Light
project on the          No→   Change the
screen?                       engine module
    │
   Yes
    ↓
Does the PC        No→   Ensure signal      →   Test OK?   No→   Change Engine
image show on            cable and                              Module
the screen?              signal source
    │                    work fine              Yes                 ↓
   Yes                                            ↓            Test OK?
                    ←──── Yes ─────────────────────           No
    │                                                           ↓
   Yes                                                     Change main
    ↓                                                      board

Does Video image   No→   Ensure signal      →   Test OK?   No→   Change Engine
show on the              cable and                              Module
screen                   signal source
    │                    work fine              Yes                 ↓
   Yes                                            ↓            Test OK?
                    ←──── Yes ─────────────────────           No
    │                                                           ↓
   Yes                                                     Change main
    ↓                                                      board

Is Focus ok?       No→   Make sure the      →   Is the      No→  Use the soft cloth
                         projection              projection       to clean the lens
                         distance is in          lens clean?
                         spec and adjust
                         the Focus Ring        Yes→  Change engine
    │                                                module
   Yes
    ↓
  1-2                                           w_y0abm0558
```

w_y0abm0559

Remote Control Troubleshooting


```
Remote control
troubleshooting
        │
        ▼
Is the remote          No→  Replace the battery
controller function         of remote controller
OK?                                │
                                   ▼
                         Is the problme      No→  Replace the
                         solved?                  remote controller
                              │                        │
        ←────────Yes──────────┘                        ▼
        ←──────────────Yes──────────────────  Is the problme
                                               solved?
                                                   │
                                                   No
                                                   ▼
                                         Replace the FPC cable
                                         between multimedia
                                         board and main board
                                                   │
                                                   ▼
        ←────────Yes──────────────────   Is the problme
 Yes                                      solved?
  │                                            │
  ▼                                            No
Continue function test and                     ▼
refer to other                           Replace the
troubleshooting                          multimedia board
```

w_y0abm0560

LED Lighting Message

y0abm0507

1. **Power LED**

2. **Temp LED**

3. **Error LED**

Message	Power LED	Power LED	Temp LED	Error LED
	Amber	Blue	Amber	Amber
Standby State (Input power cord)	Flashing	Off	Off	Off
Power on & LED lighting	Off	Steady light	Off	Off
Error (Fan failed)	Off	Off	Flashing 0.5 sec off 2 sec on	Off
Error (Over Temp)	Off	Off	Flashing 1 sec off 3 sec on	Off
LED failed (LED shutdown)	Off	Off	Off	Light amber

5

Error Log

Checking the Error Log

1. **Get into the service mode. (page 41 "Service Mode ")**
2. **Select [Failure Log].**

y0abm0513

3. **Check the error log information.**

y0abm0514

Error Codes

Error	Form	Description
AC unplug	No.[n] [System Hours] [Normal/Eco] [x] [x]	Indicates the projector was powered off due to a power loss.

Error	Form	Description
Fan lock	No.[n] [System Hours] [Normal/Eco] [fan id] [x]	Error log for fan failure. - Fan IDs - Left Fan: 2 Front Fan: 3 Rear Fan: 1
Over Heat	No.[n] [System Hours] [Normal/Eco] [temp.] [x]	Error log for over temp.

Note

- Errors logs can be cleared by "Factory Reset".

5

6. Firmware Update

Overview of the Firmware Update

There are two types of firmware as shown below. Perform their update individually.

Firmware	Function	Description	Update Procedure
System Firmware	Main system	OSD control, IR/ keypad input processing, fan control, and so on.	page 60
AM8250	Multi-media	All Multi-media functions.	page 69

🔽 **Note**

- Normally, a firmware update is not required. Update the firmware only if instructed to do so via RTB, techmail, or PMR.

6

System Firmware Upgrade
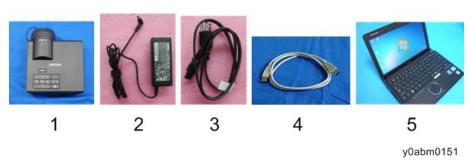
Equipment Needed

Software

1. DLP Composer Lite 11.2

2. Firmware file (*.img)

3. FlashDeviceParameters-20141125

Hardware

1. Projector

2. AC Adapter

3. Power Cord

4. USB Cable (USB type A to A)

5. PC

y0abm0151

Note

- During FW upgrade procedure, please select "32KB" in "Skip Boot Loader Area".

DLP Composer Lite Setup Procedure

1. **Choose "DLP Composer Lite V11.2 Setup" program.**

y0abm0526

2. Click "Next".

y0abm0527

3. Read "License Agreement".

1. Choose "I accept and agree to be bound by all the terms and conditions of this License Agreement".

2. Click "Next".
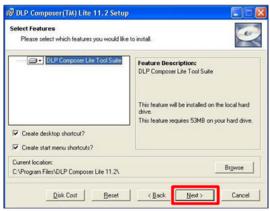
y0abm0528

4. **Click "Next".**
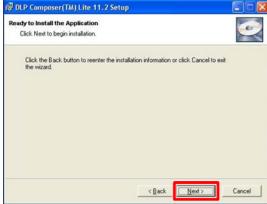
y0abm0529

5. **Click "Next".**
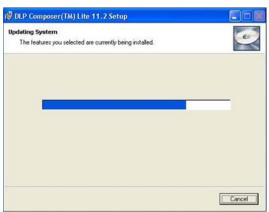
y0abm0530

6. **Click "Next".**

y0abm0531

7. The program is being installed.

y0abm0532
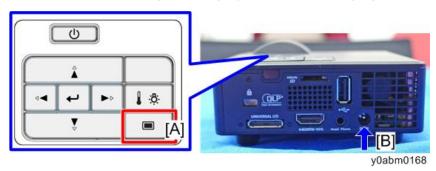
8. Click "Finish".

y0abm0533

Firmware Upgrade Procedure

1. Hold down the "Menu" key [A] then plug the DC [B] into the projector.

y0abm0168

6

2. When the "Power LED" lights purple, release the "Menu" key quickly.

y0abm0534

3. Connect the projector to the PC with a USB cable (USB type A to A).

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

y0abm0535

5. Select "Jungo WinDriver (WinXP), then click "Install".

y0abm0536

6. Click "Next".

y0abm0537

7. Click "Finish".

y0abm0538

8. Execute the "DLP Composer(TM) Lite 11.2" file.

y0abm0526
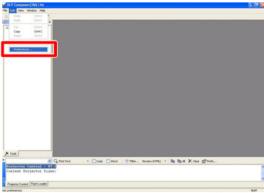
9. Setting "FlashDeviceParameters".

    1. Select the file "FlashDeviceParameters".

    2. Put the "FlashDeviceParameters" file into the folder where you setup "DLP Composer Lite 11.2".
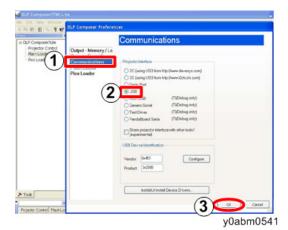
y0abm0539

10. Select "Preferences" in the "Edit" menu.
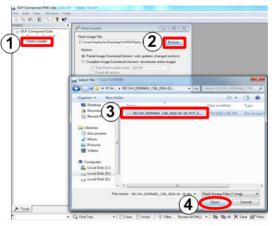
y0abm0540

11. Click "Communications" [1].

   - Select "USB" [2].

   - Click "OK" [3].

y0abm0541

12. **Choose "Flash Loader" [1].**
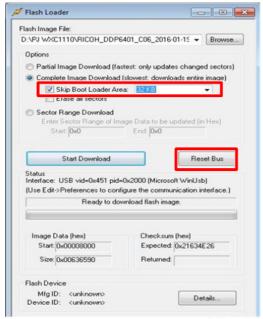
- Click "Browse" [2] to search the firmware file (*.img) [3].

- Click "Open" [4].

y0abm0542

13. **Select 'Skip Boot Loader Area'.**
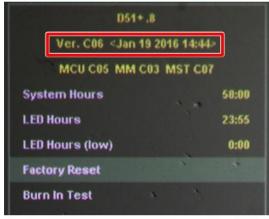
- Select "32KB".

- Click "Reset Bus" to erase the flash memory.

y0abm0543

14. Check the FW version.

Re-connect the power cord and power on the projector. Get into the service mode (power--left--left--menu) to check the system firmware version.

y097m0544

AM8250 Firmware Upgrade
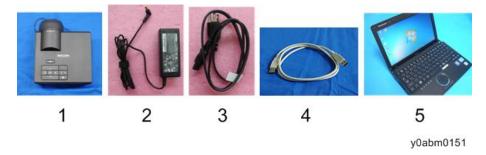
Equipment Needed

Software

1. Firmware file (*.bin)
2. ActionsMPUUpdate.zip

Hardware
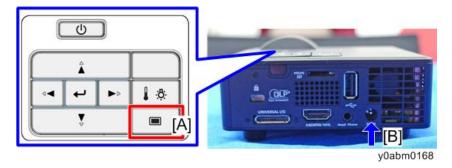
1. Projector
2. AC Adapter
3. Power Cord
4. USB Type A to A Cable
5. PC

1   2   3   4   5

y0abm0151

USB Driver Upgrade Procedure

1. Unzip the "ActionsMPUUpdate.zip" file.
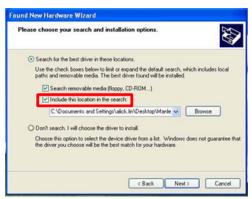2. Hold down the "Menu" key [A], then plug the power cord [B] into the projector.

y0abm0168

3. **When the "Power LED" lights purple, release the "Menu" key quickly, wait a minute, then press the "Menu" key again. The projector will power on.**

y0abm0534

4. **Connect the projector to the PC with a USB cable (USB type A to A).**

5. **The found new hardware wizard will appear on the screen.**

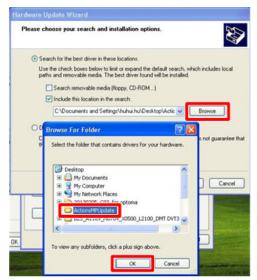   - Select "Install from a list or specific location (Advanced)".

   - Then click "Next".

y097m0545

6. Select "Include this location in the search".

y097m0546

7. Click "Browse" button to choose "ActionsMPUpdate".

- Select "OK".

- Then click "Next".

y097m0547

8. **Click "Continue Anyway".**

y097m0548

9. **Click "Finish" to end the installation.**

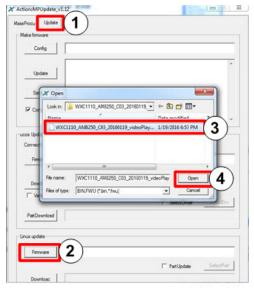y097m0549

AM8250 Firmware Upgrade Procedure

1. **Open the "ActionsMPUpdate" folder.**

    - Execute "ActionsMPUpdate.exe".

y097m0550

2. **Click "Update" [1].**

   - Click "Firmware" [2],

   - Select the FW upgrade file (*.Bin) [3].
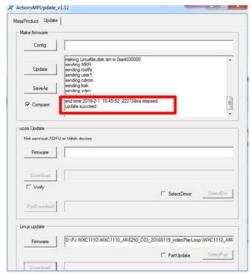
   - Click "Open" [4].

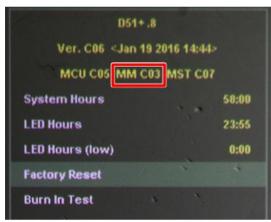y097m0551

3. Click "Download."

y097m0552

4. The success information will appear on screen.

y097m0553

5. **Restart the unit and enter the service mode (power--left--left--menu) to check the AM8250 firmware version.**

y097m0554

MEMO