

Notice



CORRECTION

PRODUCTION CHANGE

SERVICE FLASH

ADD INFORMATION

FILE NO.

REVISION-1

Please add this notice to the Service Manual listed below.

Category : Multi-media Projector

Issued Date : December / 2005

Model : PLV-Z4

Effective from : Chassis No. M4W-Z400

Destination : U.S.A.,Canada,
Europe,Asia,Africa

REF. NO. : SM5110744

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Chassis No. does not match the unit's, additional Service Literature is required. Only the Difference Service Information is given in this manual. For detail Service Information, Refer to the Original Service Manual SM5110744-00, issued in October 2005, for Model PLV-Z4.

Differences:

There are some miss-prints on the service manual SM5110744-00, see the next pages for correction.

FILE WITH ORIGINAL SERVICE MANUAL (SM5110744)

PRODUCT CODE

PLV-Z4 1 122 316 00 (M4WA)

PLV-Z4 1 122 317 00 (P4WA)

PLV-Z4 1 122 317 02 (P4WC)

REFERENCE NO. SM5110744-01

- NOTE -

Any information not contained in this manual will be found in the original model's service manual **SM5110744-00** for model **PLV-Z4**.

MAJOR CHANGES as below:

- Mechanical disassemblies
- Electrical adjustments
- Troubleshooting (No Power)

● On Page 22 about "Main power ass'y disassemblies-3"

Amend the following information; - the screws-B for correction

7-4 Main power ass'y disassemblies-3.

1. Remove the 3 screws-A(M3x6) and remove the Power board.
2. Remove the 4 screws-B(T3x8), remove the Ballast unit and remove the Holder.

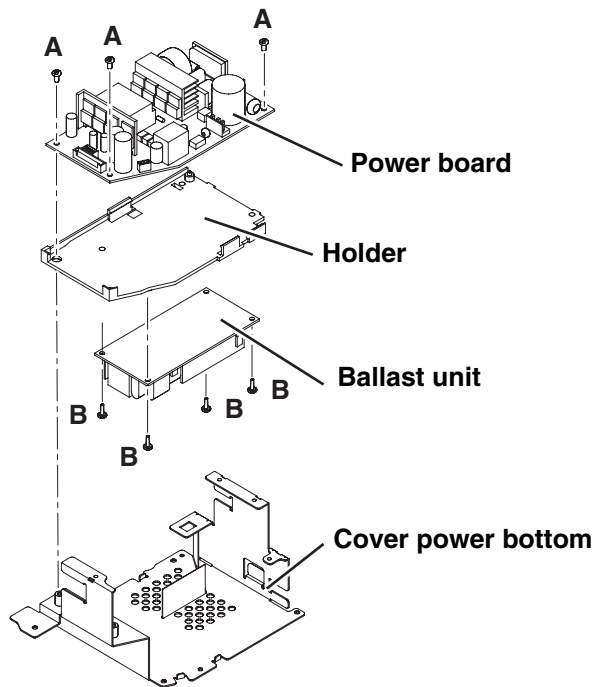


Fig. 7-4

● On Pages from 23 to 25 about the order of mechanical disassemblies

Amend the following information; - the order for correction

the order in the original service manual		the corrected order	
8-1	Optical base lamp ass'y removal	8-1	Lamp duct ass'y removal
8-2	Optical base lamp ass'y disassemblies	8-2	Lamp cooling Fan(FN902) ass'y removal
9	Lamp ass'y and filters removal	9-1	Optical base lamp ass'y removal
10-1	Lamp duct ass'y removal	9-2	Optical base lamp ass'y disassemblies
10-2	Lamp cooling Fan(FN902) ass'y removal	10	Lamp ass'y and filters removal

● On Page 26 about "Filter board removal"

Amend the following information; - the screw-C and the spacer sheet for correction

12 Filter board removal.

1. Remove the screw-C(T3x10) and remove the spacer sheet.
2. Remove the 4 screws-A(T3x8), remove the screw-B(M3x6) and remove the Filter board.

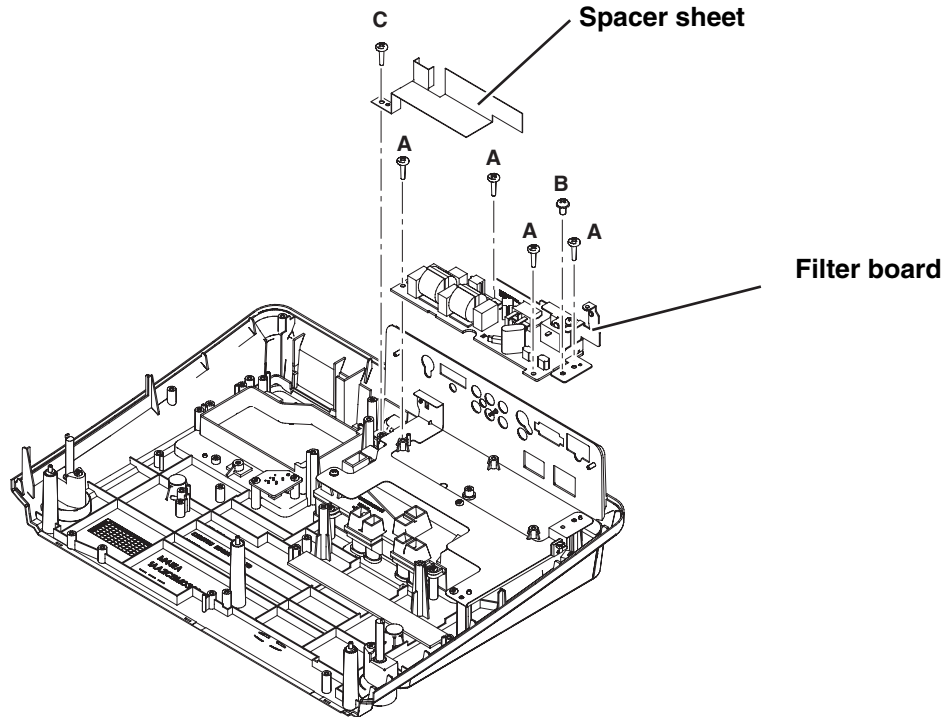


Fig. 12

● On Page 27 about "Duct cover removal"

Amend the following information; - the screw-A for correction

13 Duct cover removal.

1. Remove the screw-A(T3x8), remove the screw-B(M2x4), and remove the Duct cover.

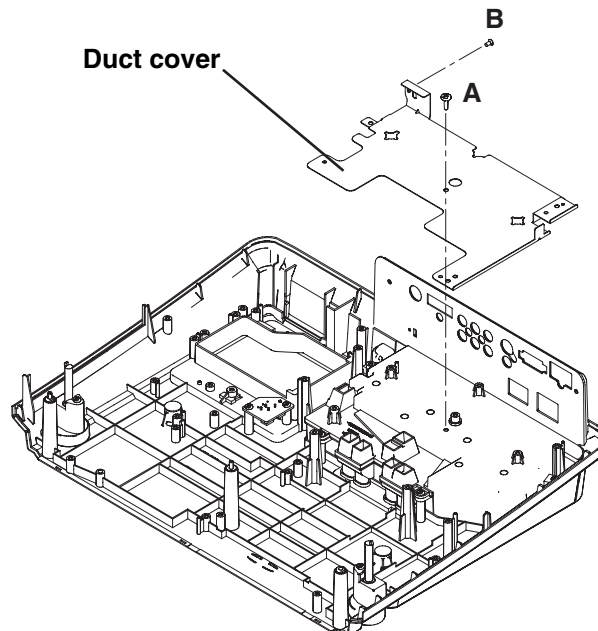


Fig. 13

● On Page 38 about "Optical base top removal"

Amend the following information; - the screws-A for correction

26 Optical base top removal.

1.Remove the 7 screws-A(T3x10) and remove the Optical base top.

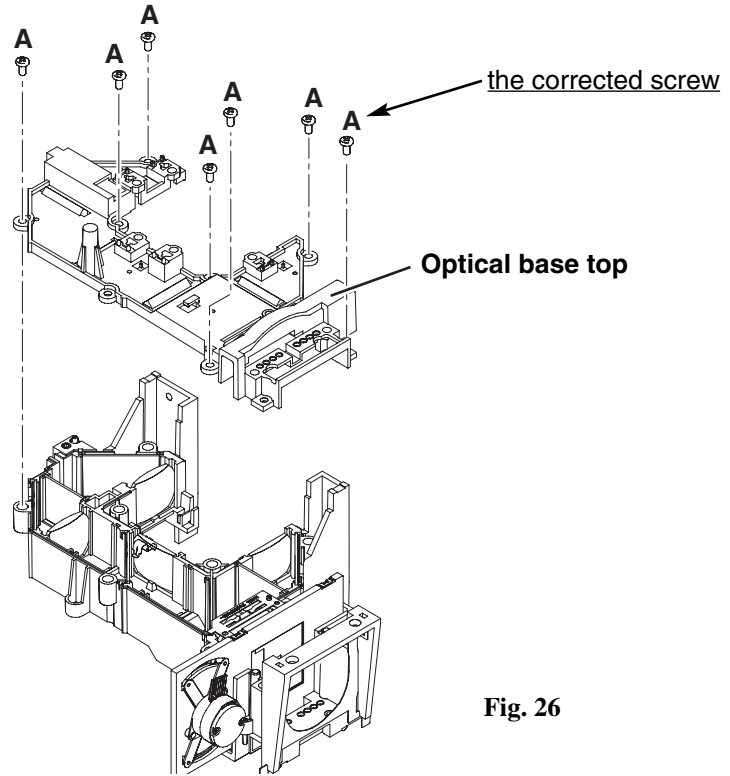


Fig. 26

● **On Page 55 about "Iris adjustment"**

Amend the following information; - the iris adjustment method for correction

2 **Iris adjustment**

Equipment NIL

After replacing or repairing the LAMP IRIS, this re-adjustment is needed.

1. Enter the service mode.
2. Select group/item no. "**105 - 14**", and press the "**POINT RIGHT**" button, then automatic iris adjustment will be done after about 30 sec. and the data value will be changed from "**0**" to "**1**" automatically.
3. After this adjustment, change this data value from "**1**" to "**0**" manually for normal operation.

● **On Page 57 about "Optical base top removal"**

Amend the following information; - from 1 line dot pattern to 50% whole-white pattern for correction

6 **Common Center adjustment**

Input mode **Computer [RGB(Analog)]**
Image mode Powerful
Input signal 50% whole-white pattern 720p computer signal

1. Enter the service mode.
2. Select group/item no. "**4 - 114**", and change data value from "**0**" to "**2**". (Flicker adjustment mode ...See Note)
3. Project only one color component to the screen.
4. Change data value to obtain **the minimum flicker** for each color on the screen.
5. After this adjustment, select group/item no. "**4 -114**", and change data value from "**2**" to "**0**" for normal operation.(Or turn off the projector, then this data value will be reset to "**0**" .)

<u>Item no.</u>	<u>Screen</u>
3 - 0	Only green color picture
3 - 1	Only blue color picture
3 - 2	Only red color picture

Note:

The FRP signal (common electrode reverse signal) works at 120Hz, so flicker is invisible for human eyes. The service mode "**4 - 114**" can change the FRP signal from 120Hz to 60Hz, and flicker can be seen.

● **On Pages 80 and 81 about "No Power"**
 Amend the following information; - Troubleshooting description for correction
 (with the underline)

● **No Power**

This projector provides a function which can be specified a defective area simply by indicating the LEDs on the control panel. Connect the AC cord and turn the projector on and then check the LED indication.

Indicators		Troubleshooting
POWER red/green	WARNING red	
●	●	<div style="border: 1px solid black; padding: 10px;"> <p>Does a indicator flash or light?</p> <p style="margin-left: 20px;">No → The primary power supply circuit does not operate properly.</p> <p style="margin-left: 20px;">Yes → Is fuse (F601) broken?</p> <p style="margin-left: 40px;">Yes → Check Varistor (VA611). Check Power Board.</p> <p style="margin-left: 40px;">No → Check SS5V power supply line. - <u>When the main power switch is ON, SS5V line is supplied to IC4801(Sub CPU).</u></p> </div>
⊘	⊘	<div style="border: 1px solid black; padding: 10px;"> <p><u>POWER (red) and WARNING (red) indicators are lighting?</u></p> <p style="margin-left: 20px;">Yes → The symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.</p> <p style="margin-left: 20px;">- POWER_FAIL (Error:L) signals are sent to IC301 via IC871 and IC1801, then IC301 shuts down the power supply circuit.</p> <p style="margin-left: 20px;">Check following items</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p>An abnormality occurs on the secondary power supply lines</p> </div> <div style="border: 1px solid black; padding: 5px; width: 65%;"> <p>Check power supply lines, S5V,S-5V, S16V, etc. on the Main board.</p> <p>- Refer to the diagram "Power Supply Lines".</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p>An abnormality occurs on the fan control circuits.</p> </div> <div style="border: 1px solid black; padding: 5px; width: 65%;"> <p>Power failure detection diodes detect the fan operation stop. Check FN901/902/903/904/905 and peripheral circuit. Check connectors K8E/K8F from TH901/TH902.</p> <p>- Refer to the diagram "Fan control circuit".</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p>An abnormality occurs on power starter signals.</p> </div> <div style="border: 1px solid black; padding: 5px; width: 65%;"> <p>Check power starter signals as follows:</p> <ul style="list-style-type: none"> - <u>PWR_SW signal (Power-on:H) is output from pin 12 of IC4801 and sent to the Power Board and S16V, S16V F, S6.5V, S5V, S-5V lines are supplied.</u> - <u>MAINON_SW signal (Power-on:H) is output from pin 80 of IC301 and sent to the Power Board and lamp ballast 375V line is supplied.</u> - 5V_SW signal (Power-on:H) is output from pin 336 of IC301 and sent to IC1581, IC8251, IC8281, Q4601, Q4603, then 12V, 3.3V_D, 3.3V_A, -5V, 6.5V lines are supplied. - 3.3V_SW signal (Power-on:H) is output from pin 76 of IC301 and sent to IC3601, then 3.3V, 1.2V lines are supplied. - 15V_SW signal (Power-on:H) is output from pin 79 of IC301 and sent to Q591, then 15.5V line is supplied. - FAN_SW signal (Power-on:H) is output from pin 81 of IC301 and applied to the Fan power supply circuit. </div> </div> <p style="text-align: center; margin-top: 20px;">↓ To next page</p> </div>

