Acer P1165E & P5260E Service Manual

FORWORD

For your convenience, all service parts, identified in this manual are available through Acer's normal distribution channels.

In addition to service part number, the generic description has been given, where possible, to allow your service technicians to substitute equivalent components which might be available from other sources.

All orders for service parts will be honored. However, on instance where generic components are considered to be available from several common sources, as would be the case with an industry standard fuse, resistor, or semiconductor, it may be more economical and expeditious to purchase the part locally.



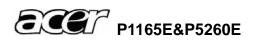
100% Recycled Paper

Date: 2007/10/05



Update History

2007/10/05 First edition completed



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SAFETY PRECAUTIONS

WARNING:

The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

- An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.
- Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.
- When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark \triangle in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.

Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages(15kV - 25kV) at its starts.

Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.



DO NOT ATTEMPT TO SERVICING THE REMOTE CONTROL UNIT.

Laser Beam may be leaked out when in disassemble the Unit. As the Laser Beam used in this Remote control unit is harmful to the eyes.



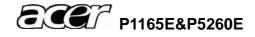
Conventions

The following conventions are used in this manual

Screen Messages	Denote actual messages that appear on screen.
Note	Give bits and pieces of additional information related to
11000	the current topic.
Warning	Alert you any damage that might result form doing or not
wannig	doing specific actions.
Conting	Give precautionary measures to avoid possible hardware
Caution	or software problems.
Tunan curto art	Remind you doing specific actions relevant to the
Important	accomplishment of procedures.

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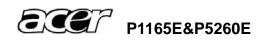


1 System Introduction

1.1 Technical Specification

	P1165E	P5260E
Display Type	0.5 DMD/ 12 °/ LVDS	
Resolution(Pixels)	SVGA(800*600)	XGA (1024 *768)
Lens	Manual Zoom (1.17X)	
	F=2.5~2.74 f=22~25.5mm	
	Screen Size 34 – 307 inches	
Contrast Ratio	2000:1	2000:1
Uniformity	> 54%	
Lamp	Osram E20.6N, 200W	Osram E20.6, 230W
Projection Type	Front, Rear,	
Input Source	D-Sub (15 pin), S-Video,	D-Sub (15 pin), S-Video,
	Composite Video, YPbPr,	Composite Video, YPbPr,
	Audio in(Stereo phone jack),	Audio in(Stereo phone jack),
	USB,	USB, HDMI
Video Compatibility	NTSC 4.43, NTSC-M,PAL-60, PAL-M, N, (B, D, G, H, I), SECAM	
Scanning Frequency		
Horizontal Frequency	15 -80 KHz	
Vertical Frequency	50 – 85 Hz	
Digital Keystone Correction	Vertical + / - 16°	
Integrated Speaker	1(4Ω*2W)	
Noise Level	Less than 35 dBA in Normal mo	de, or 32 dBA in lamp saver mode
Environment	Operating:	
	Temperature:+5°C ~ +35°C (41	oF-95oF)
	Humidity:10% ~ 90%	
	Storage:	
	Temperature:-20°C to 60°C	
	Humidity:90% maximum (No condensation)	
Power Requirement	AC 88-264V, 50/60 Hz	
Power Consumption	240W	270W
	Standby mode: less than 10W	Standby mode: less than 10W
Dimension	309 x 229 x 131mm(without elevator foot)	
Weight	< 3 lb	

Note: Designs and specifications are subject to change without prior notice



1.2 Lamp Specification

1.2.1 Lamp for P1165E

Product Type: Short arc mercury lamp with reflector.

The product is a lamp system consisting of a short arc burner within a reflector and an electronic lamp driver.

Type lamp P-VIP 200/1.0 E20.6n

Identcode: A 503 31E

Type driver PT VIP O3 MID (200W)

Identcode: A 493 438

The lamp must be operated with the OSRAM lamp driver only.

Initial Characteristics

Lamp power: 200 W

Measurement: U sphere

Aperture: 5.0 x 3.8 mm

Radiated Power

UV-output	UVC	248-280 nm	0.01 W typical
	UVB	280-315 nm	TBD
	UVA	315-380 nm	TBD
Total visible flux		380-780 nm	TBD
IR		780-1650 nm	TBD

1.2.2 Lamp for P5260E

Product Type: Short arc mercury lamp with reflector.

The product is a lamp system consisting of a short arc burner within a reflector and an electronic lamp driver.

Type lamp P-VIP 180-230/1.0 20.6

Identcode: A494 90E

Type driver PT VIP O3 MID – UNISHAPE

Identcode: A516 93D (lock type)

The lamp must be operated with the OSRAM lamp driver only.

Initial Characteristics

Lamp power: 230 W

Measurement: Integrating sphere

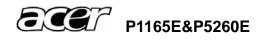
Aperture: 5.0 x 3.8 mm

Power consumption

UV-output	UVC	248-280 nm	0.01 W typical
	UVB	280-315 nm	0.05 W
	UVA	315-380 nm	3 W
Total visible flux		380-780 nm	49 W typical
IR		780-1650 nm	5 W typical

Note: More information about lamp replacement procedure, resetting lamp timer and lamp part number, please check the page 18.

3

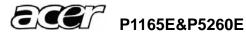


Attention for handling

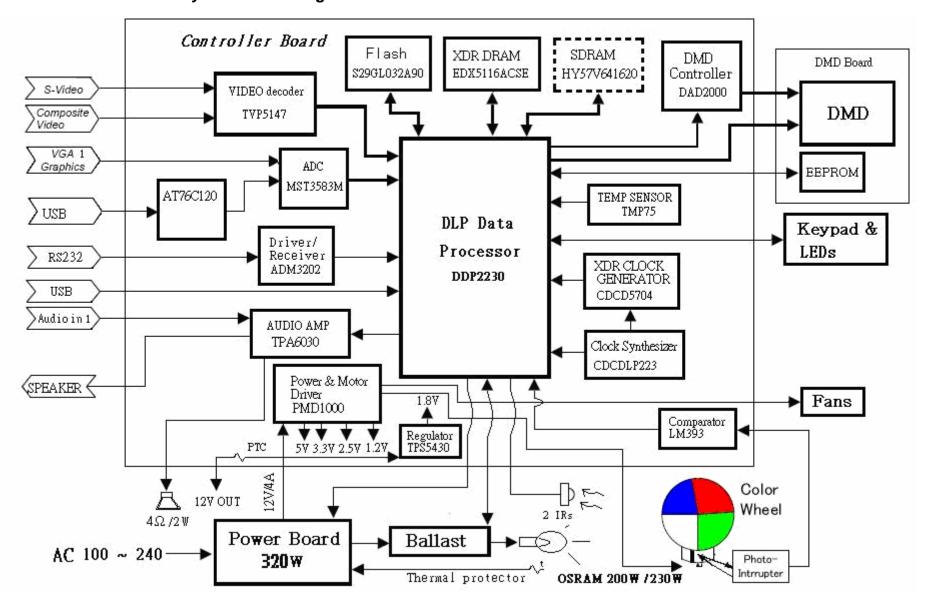
- Do not touch the lamp until it has cooled completely, because the lamp is very hot during operation and immediately after turned off.
- The lamp has to be fixed firmly to the base or socket.
- Turn off the power supply during maintenance.
- Do not hold the lamp except outer surface of the reflector.
- Wear protective gloves and eyeglasses when handling the lamp.
- Any unusual shock or vibration to the lamp should be avoided.
- The lamp contains the mercury. Its breakage might cause mercury to flow out of the reflector. Please manage provision at the customer's product.
- Do not pull the lead wire and plug by more than 24.5N.
- Please be careful of handling the lamp because it is made of glass.
- Please notice for keeping or handling the lamp, because there is a projection of this lamp with reflector ahead.
- Do not touch the bulb and the mirror area of the reflector.

Attention for use

- Do not close or cover the lamp with any flammable stuff.
- During operation, the lamp is under extremely high pressure. Please manage provision at the customer's product to prevent fragments of bulb and mercury from flowing out of it. If the lamp bursts in case of an emergency, the sound will be occurred.
- Lamp operation should be with the specified lamp driver and the system ONLY.
- Do not look at the lamp directly during operations.
- Do not expose your skin directly. We recommend to you to put on something for protection for your skin. For example, long sleeve shirt, gloves, glassed and so on.
- Do not modify the lamp and never use a lamp that has been modified.
- Any unusual shock or vibration to the lamp should be avoided during operation.
- Do not use any broken lamps.
- Dispose of used lamps according to your local instruction.
- Do not turn on the lamp while the system is opened.
- The lamp contains mercury. If the lamp bursts during operation ventilate the area sufficiently to avoid inhaling harmful mercury fumes.
- Use the lead below 200°C to prevent a deterioration of cladding clad of the fluorocarbon resin.
- The lead wire insulation clad shouldn't touch the reflector.
- Exchange the lamp that has already passed the life time immediately.



1.3 P1165E & P5260E System Block Diagram



2 Firmware Upgraded Flow

This chapter provides the information regarding relevant equipments and upgrading procedure for firmware upgrade.

Note:

Please check the firmware and composer version before any firmware upgrade procedures. During firmware download period, please do not shut down PC or projector, this will cause flash memory's damage. And need to return the unit to manufacturer for flash memory recovery.

2.1 Setup Tool/Equipment

- Computer
- USB Cable (See the picture)
- Power Cord



2.2 Upgrading Procedure

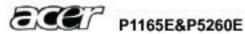
Installing [DLP Composer (TM) Lite]

- Double-click [DLP Composer Lite v7.1 Setup.exe].
- Installation starts. Click [Next] to continue the installation process.
- 3. On the [License Agreement] screen, move the scroll bar on the right to the bottom, select [I accept and agree to be bound by all the terms and conditions of this License Agreement], and click Next to continue the installation process.
- 4. On the Select [Installation Type] screen, select [ALL] and click [Next] to continue the installation process.



When the installation is finished, click [Finish] and reboot the PC. (A shortcut to DLP Composer (TM) Lite is created on the desktop.) Note: Please notice the version is 7.1 not 6.0.



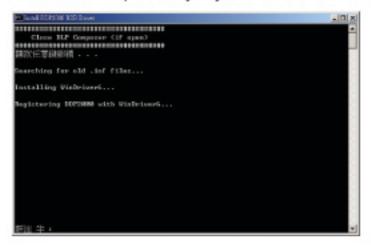


USB Support - Installation (All Platforms)

This release includes support for a USB communications interface to DDP2230-based projectors. The setup program includes the files needed to install USB support (for Windows 98/Me/2000/XP only -- Win95, WinNT and Windows Vista are not supported). After DLP Composer™ Lite is installed, to install the USB support, choose the "Install DDP2230 USB Driver" icon under "DLP Composer™ Lite" in your Start menu. Note: The version is 7.1 not 6.0



Follow the instruction on the screen to press any key and wait for the installation done.

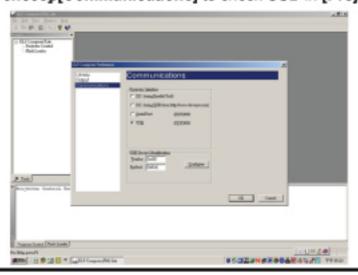


Operating procedure

- Connect the Projector and PC via USB cable.
- Double-click [DLP Composer (TM) Lite]. The following screen will appear.

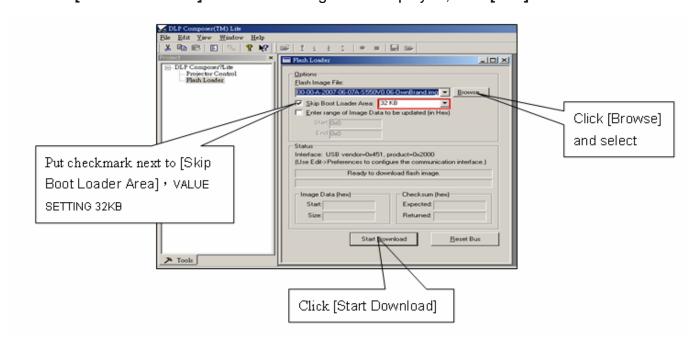


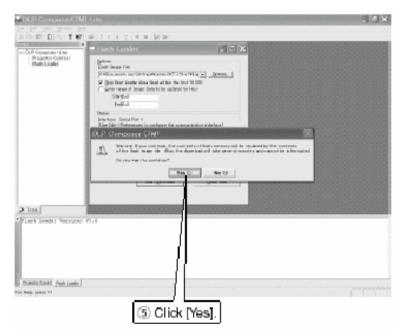
Select [Edit]/[Preferences]/[Communications] to check USB in [Projector Interface].





- 4. Click [USB Device Identification].
- 5. Set the items on the [Vendor 0x451, Product 0x2000].
- 6. Click [OK]
- 7. Move the cursor to [Flash Loader] on the Project window of [DLP Composer Lite]. (The [Flash Loader] screen will appear.)
- 8. Click [Browse] and select where the firmware [xxxxxxxxx.img] is for download.
- 9. Make sure [Skip Boot Loader Area] is with a check.
- 10. Press Menu and Power buttons constantly and then give power supply (switch power on). Power LED and Lamp LED will become amber. That indicates the projector is in the download mode. At this moment, you can release these two buttons.
- 11. Click [Start Download]. When the dialog box is displayed, click [Yes].







12. Wait for the Completion of Burning and then remove Power Cord and Burning Cord
Note: In case, the device manager can't recognize the DDP2230 as blow, please disable this device. This will not affect upgrade procedure.

3 Machine Disassembly and Replacement

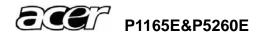
3.1 Tools

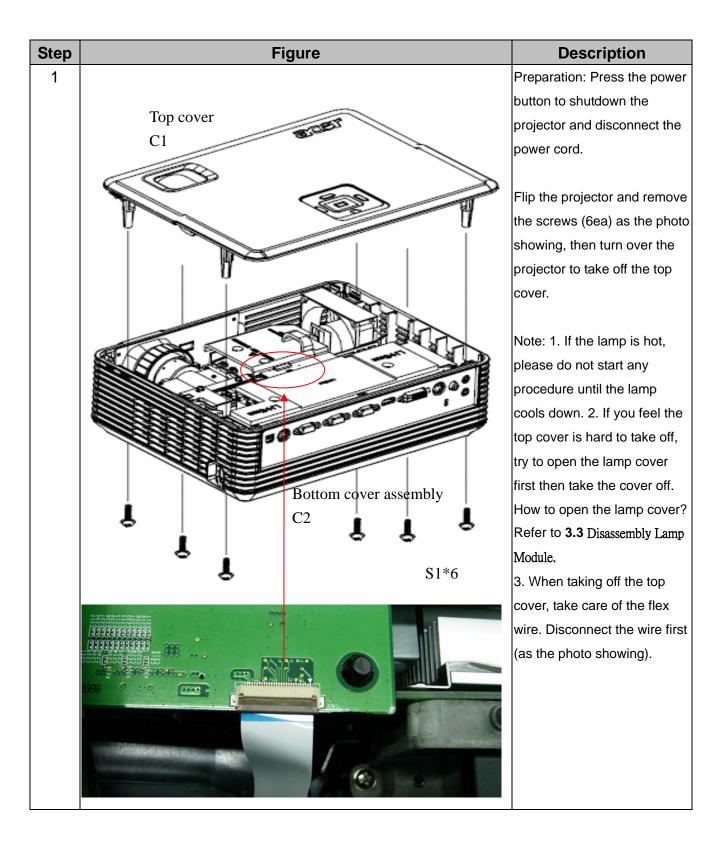
Item	Photo
Long Nose Nipper	
Hex Sleeves 5mm	
Screw Bit(+):107 Screw Bit(+):101 Screw Bit(+):102	
Anti-static wrist strap	2004 14 TA
Anti-static wrist gloves	100 CO 14

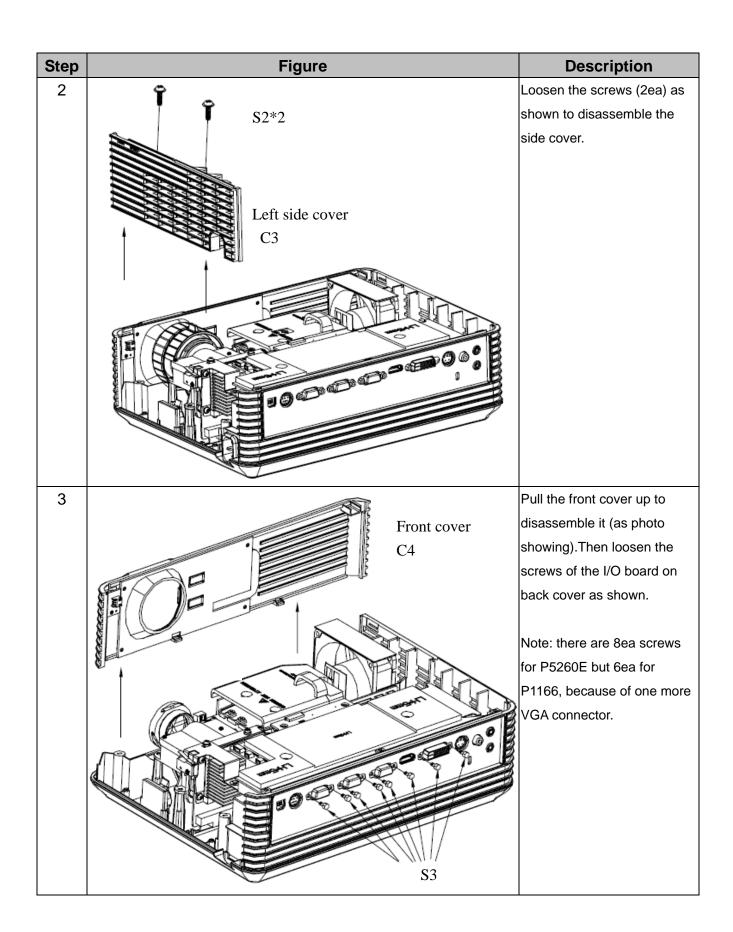
3.2 Disassembly Procedure

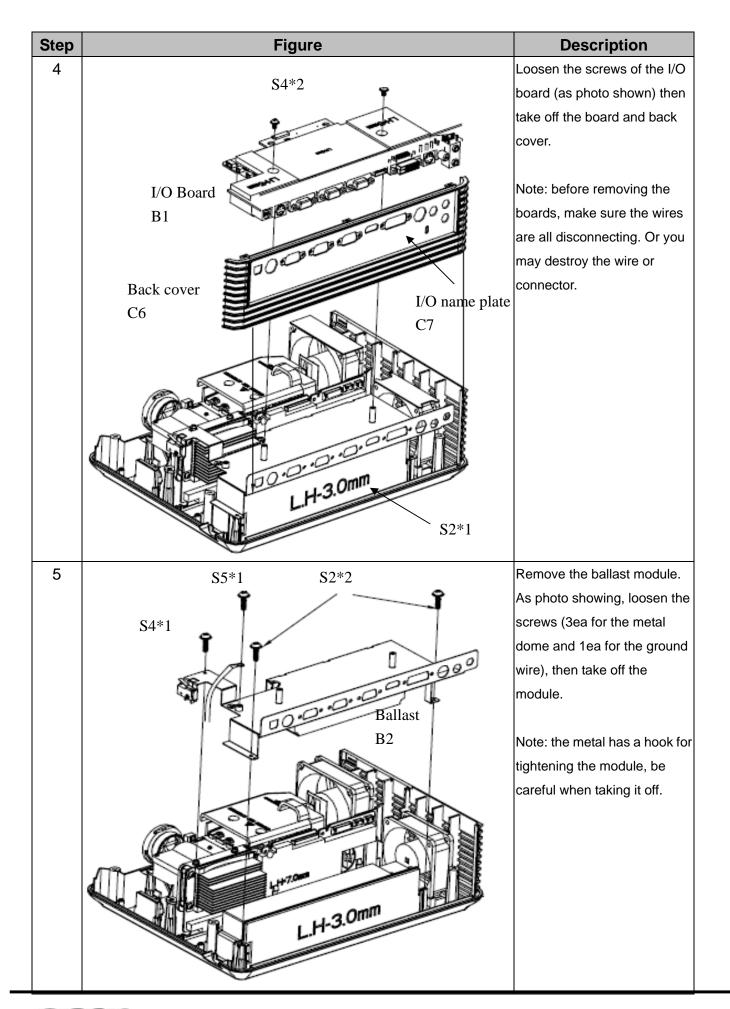
Warning

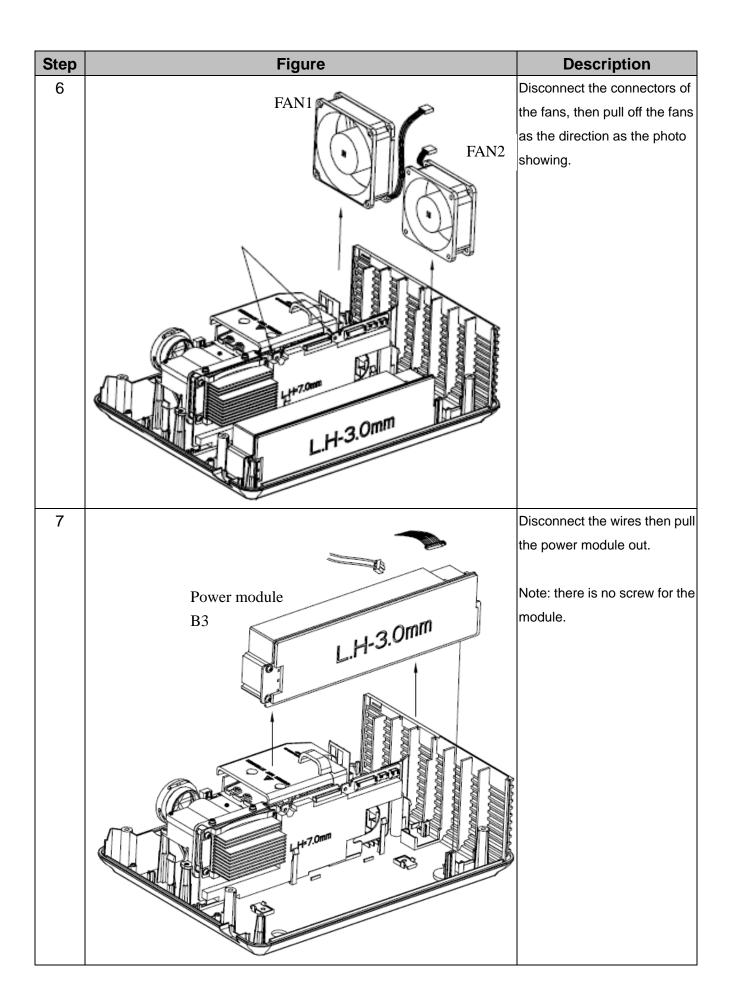
- Put on the Static Electricity Ring when starting for repair.
- ♦ Repair Environment suggest in Clean-room class 10000. Do not remove Optical Engine or DMD panel outside the clean room. Please return the optical engine to supplier if your repair condition can not meet the requirement.
- While screwing or unscrewing screws, please keep the screwdriver straight. Keeping screwdriver inclined will damage the screw holes.
- Please turn off the power before replacing any parts.
- Please wait for the projector lamp cooling down and turn off the power before changing it. Never touch or hit the lamp module when replacing the lamp.
- When you replace the projector lamp, never touch the new lamp with your bare hands. The invisible residue left by the oil on your hands may shorten the lamp life. Use lint-free gloves or finger cots are recommended.

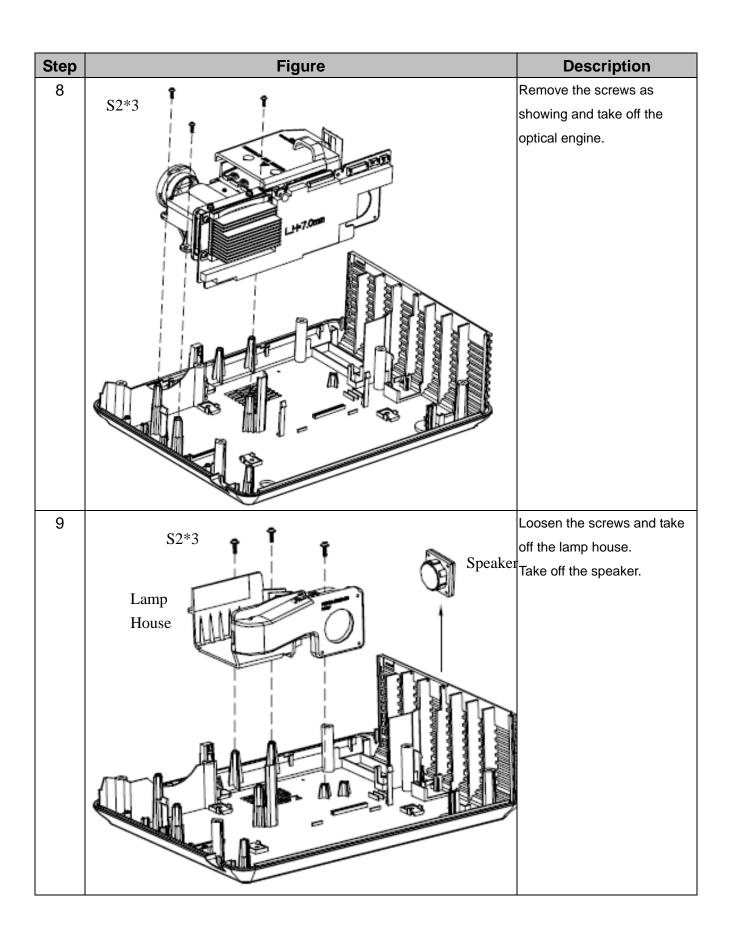




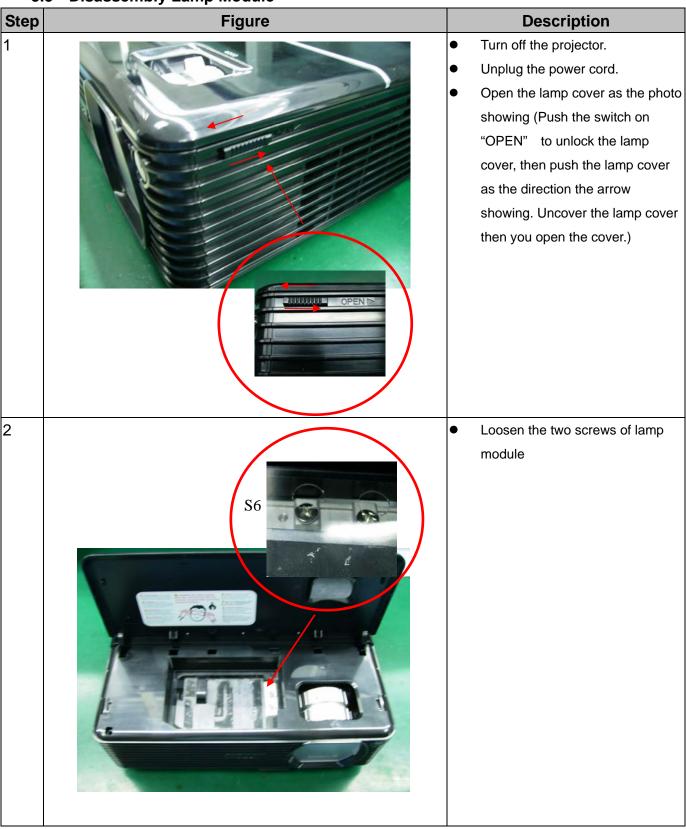


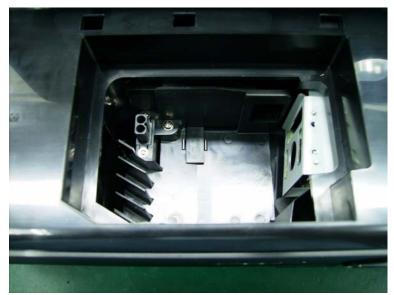


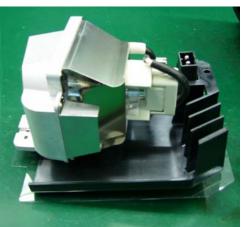




Disassembly Lamp Module 3.3





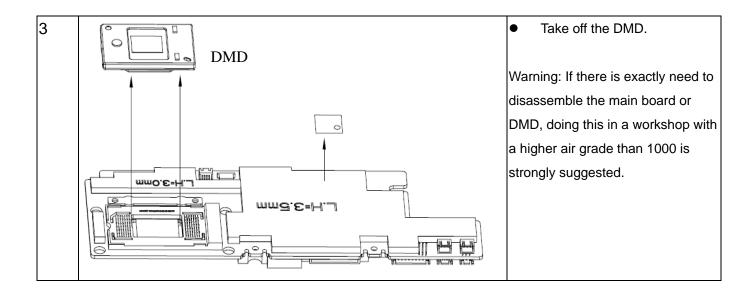


- Pull the lamp module out by lamp handle.
- Insert the new lamp module into the projector and tighten the screws.
- Replace the lamp cover and tighten the screws.
- Reset the lamp timer. Press MENU, go to Setup > Advanced setup > Reset lamp hours, and press **MENU**.

Note: Turn on the projector. If the lamp does not turn on after the warm-up period, please reinstall the lamp.

3.4 Disassembly the main board and DMD board

Step	Figure	Description
1	Heat sink	Prepare the optical engine disassembled just now. Remove the screws*4 Take the heat sink off. Take off the PCB pad and thermal pad carefully. Note: Remember the assembling direction of the heat sink. It will help you when you assemble the main board again.
2		 Take the main board off. Take off the DMD aperture. Note: Take attention to the shape of DMD apeture holes.



4 Troubleshooting and Verifying the Repair

This chapter provides technicians with electronic background how to maintain the product. Moreover, you can get the appropriate operation to solve some complicated problems of component repairing and professional problems.

4.1 Troubleshooting

Warning

- Do not directly look into the lens to avoid eyesight damages.
- The projector is equipped with ventilation holes (intake) and ventilation holes (exhaust). Do not block or place anything near these slots, or internal heat build-up may occur, causing picture degradation or damage to the projector.

Confirm Software and hardware

- (1) Confirm FW version and lamp using hours(version and lamp hours in the help menu)
- (2) Confirm LED indicator

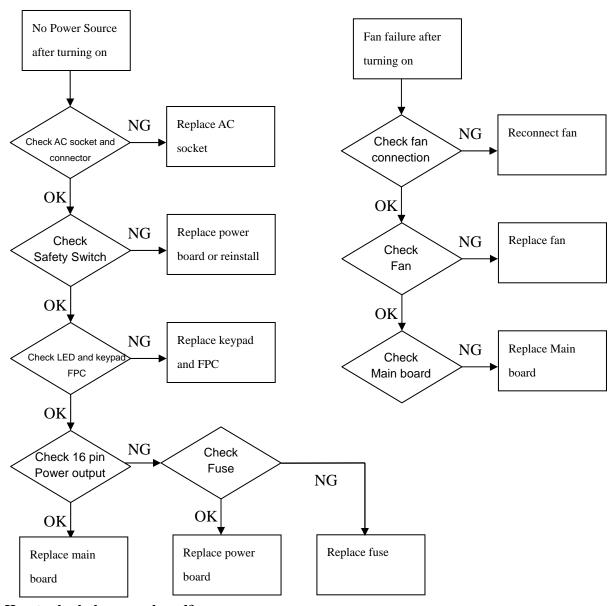
State/ Problems	Icon/ Messages	Close Messages	LED Indicators	
State/ Problems			TEMP	LAMP
Environment overheat	\$\$\$\$ (On	
Fan lock	₹.			
System error	= 0		F2	F2
Lamp life time	The lamp life is ending.	Press any key		
Lamp error				On

F2: Flash 2Hz

- (3) Confirm cable connection well.
- (4) Confirm Main-board version

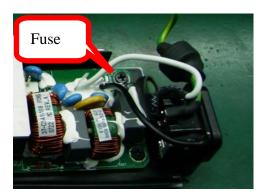
Note: Swapping modules that may be defective with others known to be good is generally an ideal way to find the module responsible for the problem. A failure symptom is rarely caused by more than one module, so you will not usually need to replace more than one to correct a particular failure. Whatever main board, ballast, IR board, power board, lamp module or optical engine are all suitable to check by swapping modules.

Power Source Troubleshooting:



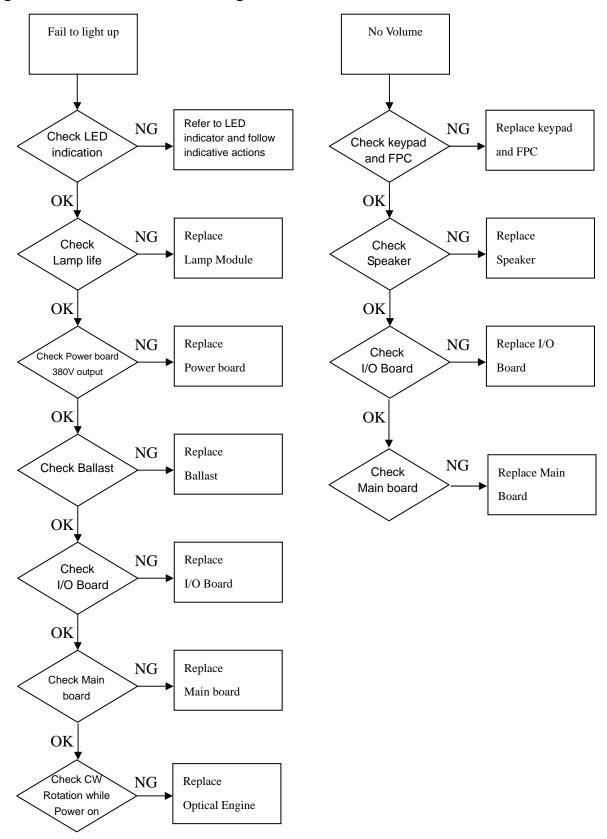
How to check the power board?



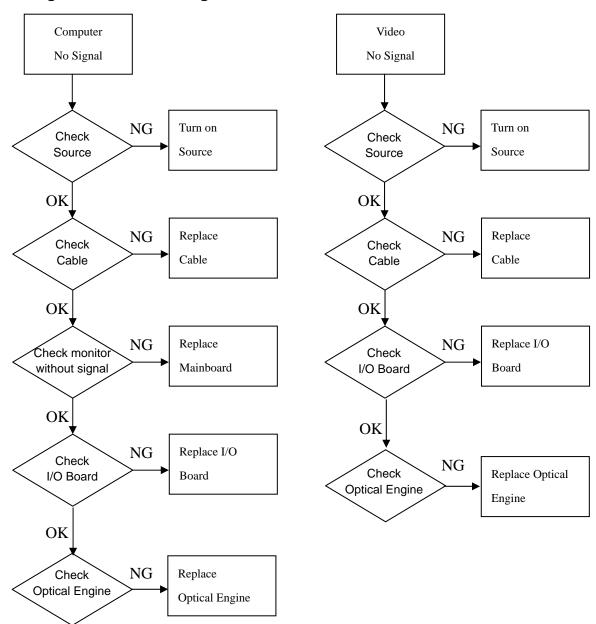


- check the 380v output on connector 3 (see ballast board page 35)
- check the fuse on the power board

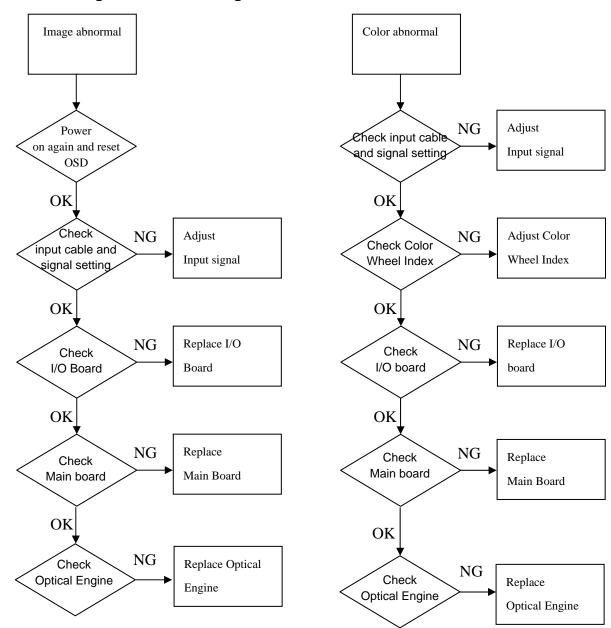
Light and Sound Troubleshooting



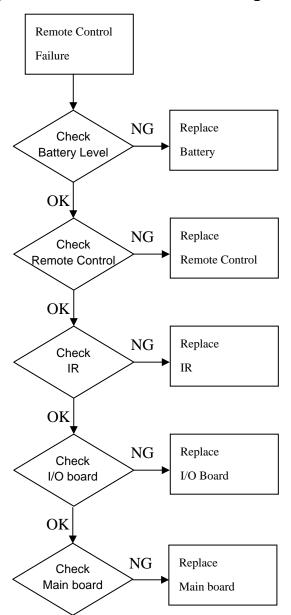
Video Signal Troubleshooting

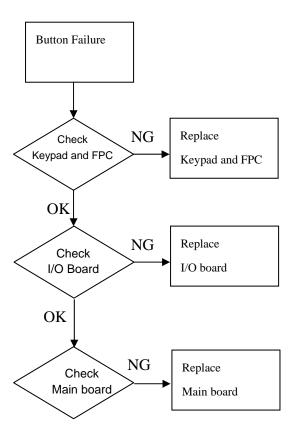


Abnormal Image Troubleshooting



Operation Function Troubleshooting





4.2 Verifying the Repair

After repairing projector (Dissembling and assembling projector), Repair center should verify the quality of repaired unit.

(1) Signal test (Each I/O can function normally)

Connect all connector to the jacks one after another to check whether each channel can project normally

I/O port	Monitor In (VGA)
Test Equipment	Standard Pattern generator (Ex. Quantum data)
Signal format	1024*768 60Hz (800*600 for P1166)

I/O port	Video
Test Equipment	Standard Pattern generator (Ex. Quantum data) or DVD player
Signal format	NTSC

I/O port	S-Video
Test Equipment	Standard Pattern generator or DVD player
Signal format	480i

I/O port	USB
Test Equipment	PC and Remote controller
Test method	Connect PC (laptop) VGA output to projector.
	Set PC (laptop) output signal to projector
	2. Connect projector USB to PC.
	Press remote controller page up/down to scroll presentation file up and
	down (ex Microsoft office series)

I/O port	Audio input
Test Equipment	Connect audio input to audio output of DVD player
Signal format	480i

(2) Operation test

Buttons operation

Button description	Test criteria
Power button	1. Mechanical motion (Up & Down) should be free from getting stuck
	when pressing the button
	2. Press "power" button and projector will switch on
Menu/Enter	1. Mechanical motion (Up & Down) should be free from getting stuck
	when pressing the button.
	2. Press Menu/Enter button can make projector function normally.
4-way button	1. Mechanical motion (Up & Down) should be free from getting stuck
(Keystone/Auto/Source)	when pressing the 4-way button.
	2. Press Menu/Enter button can make projector function normally.

Foot adjuster operation

Foot adjuster.	Test criteria
Foot adjuster button	Foot adjusters should stretch downward smoothly by pressing the foot
	adjuster buttons on the two sides

Zoom ring and Focus ring

Ring	Test criteria
Zoom ring	Mechanical motion of rotating Zoom ring to the end of right and left by
	hand should be free from getting stuck.
Focus ring	The feeling of rotating Focus ring to the end of right and left by hand
	should free from seizing

(3) Image Quality

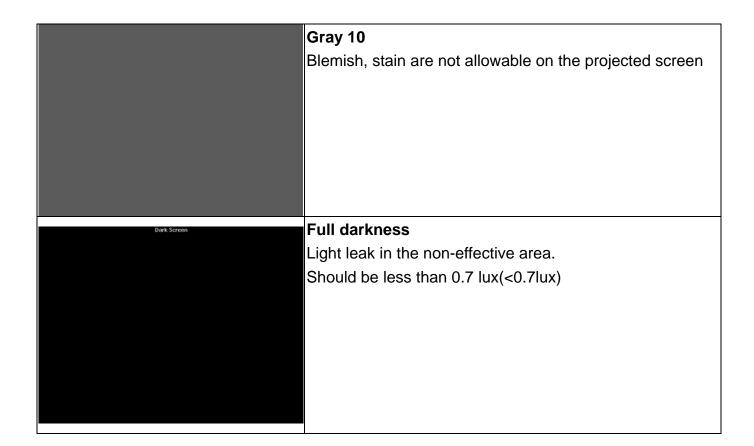
Projected image size: 60 inches (diagonal length)

Zoom ring: Adjust zoom ring to wide (Maximum projection size)

VGA

I/O port	onitor In (VGA)	
Test Equipment	Standard Pattern generator (Ex. Quantum data)	
Signal format	1024*768 60Hz (800*600 for P1166)	
Projected image size	60" in diagonal length	

Test Pattern	Test criteria
	Full white Apparent color strip, bend and streak corner on the projected image are not allowable
	 256 level RGB 256 level of RGB color should be distinguishable, at least Red color scales should be. For each RGB 256 levels, Noise or color deviation in R, G, and B single level respectively are acceptable.
	16 gray level16 level of gray level color should be distinguishableWhen Gamma selected to "RGB" Not distinguishable of 2 brightest levels /2 darkest levels are acceptable.



S-Video

I/O port	S-Video
Test Equipment	Standard Pattern generator (Ex. Quantum data)&DVD player
Signal format	480i
Criteria	No apparent color deviation on the projected image

<u>Video</u>

I/O port	Video
Test Equipment	Standard Pattern generator (Ex. Quantum data)&DVD player
Criteria	No apparent color deviation on the projected image

(4) Resolution

I/O port	VGA	
Test Equipment	PC	
Test Method	 Rotate Zoom ring to wide mode (Maximum projected image) Fix projector to set diagonal length of projected image to 60". Adjust focus ring to make resolution of 4 corners and center 	
with a first of the control of the c	are balanced. 4. Check he characters should be recognized easily. 5. Rotate Zoom ring to tele mode (Minimum projected image) 6. Adjust focus ring to make resolution of 4 corners and center are balanced. 7. Check the characters should be recognized easily.	

(5) Front and Rear infrared sensor

Device	Front and Rear infrared	
Test Equipment	Remote controller	
Test method	Cover front sensor and operate remote controller to test rear	
	sensor	
	2. Cover rear sensor and operate remote controller to test front	
	sensor	

(6) Brightness measurements

Test items	Brightness measurements	
Test Equipment	Chroma automatic system (The alternative is CL-200)	
Test method	Measure 9 points	
Criteria	Marketing spec 20% off	

(7) Safety test equipments

Test items	Safety test		
Test Equipment	Safety analyzer		
Test method	Clamp the metal shell of VGA connector		
	2. Plug the power cord to socket		
	CASE CLAMP POWER CORD		
Test criteria	GND 30A 3sec 100m Ω		
	DCW 2506V 1sec 250uA		
	Single Step OFF		

(8) Cosmetic standard for repaired projector

Follow cosmetic standard of repair center.

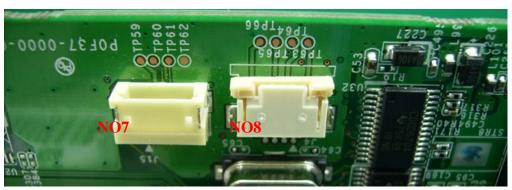
5 **Connector Information**

This section provides each connector location on boards and function of each board. They will be useful for your detecting the defective boards.

Main Board





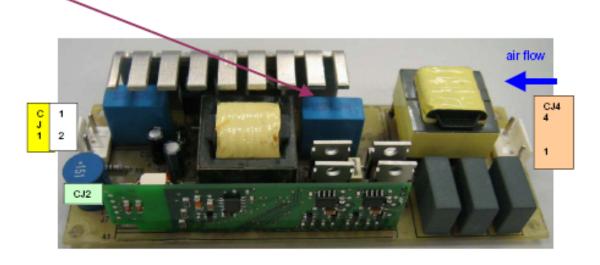


Connector	Description	
No 1	Connect to I/O board	
No 2	Power supply	
No 3	Ballast control	
No 4	Fan2	
No 5	Fan1	
No 6	Fan3	
No 7	C/W sensor	
No 8	Color wheel control	

5.2 **Ballast Board**

BALLAST FOR P1165E

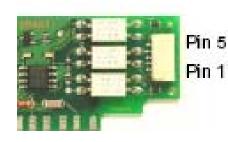
Tc1 switch point (NTC SMD resistor at bottom side of pcb): tbd°C +/- 5°C



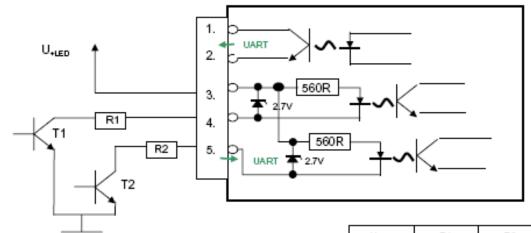
GND pin 1 powersupply + 380V DC connector CJ1 pin 2

lamp output pin 1 lamp output connector CJ4 pin 2 lamp output

Control board interface of ballast (CJ2)



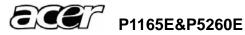
PIN 1	Flag / TxD+ (collector)
PIN 2	Flag / TxD- (emitter)
PIN 3	Common LED+ (anodes)
	SCI / Sync. (cathode LED)
	DIM / RxD (cathode LED)



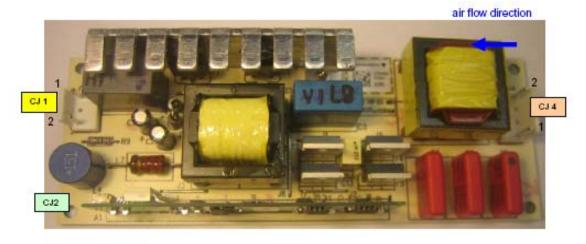
Dimensioning of LED series resistors R1, R2 @ 6mA: LED interface current level requirement

- LED OFF current (Pin 4 or 5) 0 ... 0.1 mA
- LED ON current (Pin 4 or 5) 4..6..20 mA

U+LED	R1	R2
2,7V	0R	0R
3,3V	100R	100R
5V	390R	390R
10V	1k2	1k2
15V	2k2	2k2

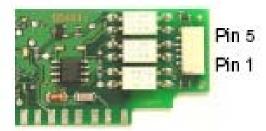


BALLAST FOR P5260E



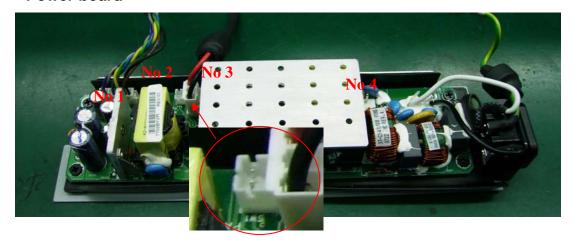
Power supply pin 1 GND connector CJ1 pin 2 + 380V DC lamp output lamp output pin 1 connector CJ4 pin 2 lamp output

Control board interface of ballast (CJ2)



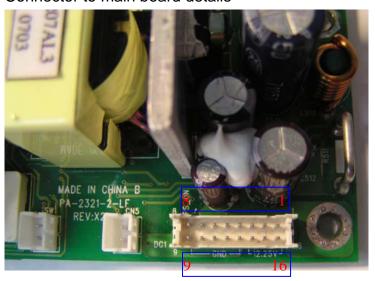
PIN 1	Flag / TxD+ (collector)
PIN 2	Flag / TxD- (emitter)
PIN 3	Common LED+ (anodes)
PIN 4	SCI / Sync. (cathode LED)
PIN 5	DIM / RxD (cathode LED)

5.3 **Power board**



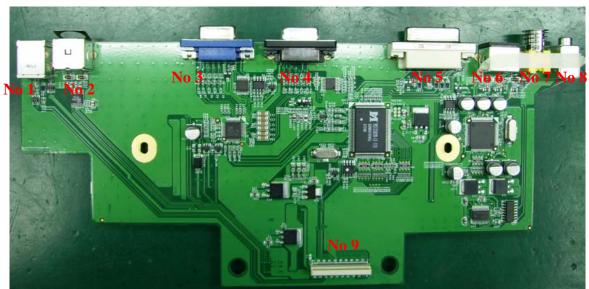
Connector	Description	
No 1	Connect to main board	
No 2	Safety switch	
No 3 Power supply for ballas		
No 4	Thermal sensor	

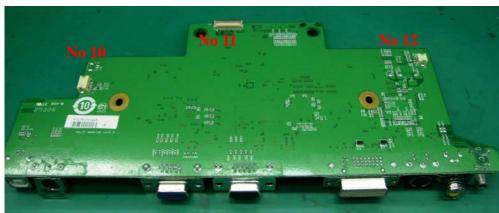
Connector to main board details



Pin	Signal	Pin	Signal
1	+12.25V	9	GND
2	+12.25V	10	GND
3	+12.25V	11	GND
4	GND	12	GND
5	GND	13	GND
6	GND	14	+12.25V
7	GND	15	+12.25V
8	8 PFC - ON		+12.25V

5.4 I/O Board





Connector	Description	
No 1	USB Connector	
No 2	RS232 Jack	
No 3	VGA Input	
No 4	VGA OUT	
No 5	DVI input	
No 6	S-VIDEO Jack	
No 7	VIDEO Jack	
No 8 Audio Jack		
No 9	I/O board connector	
No 10	Front IR board	
No 11	Keypad connector	
No 12	Speaker	

Notes: There is one more VGA connector for Model P5260E than Model P1165E, and also a HDMI connector. The description just takes Model P1165E as example.

6 FRU (Field Replaceable Unit) List

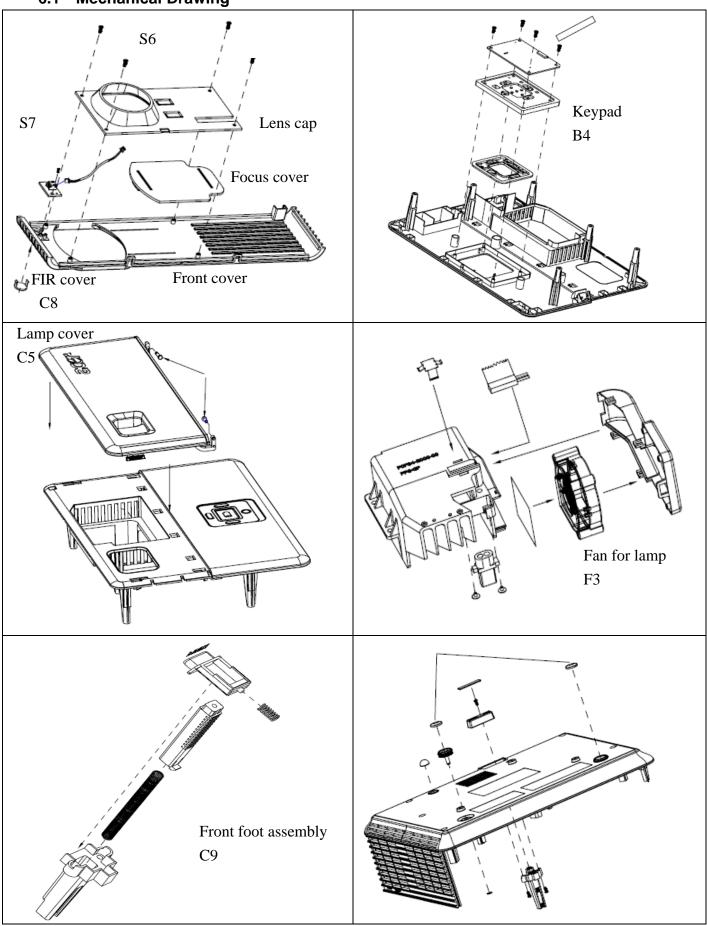
Introduction

This section is a list of all the FRU removal. Following the FRU table of contents is an enlarged view of the entire projector, which shows the primary FRUs in the projector.

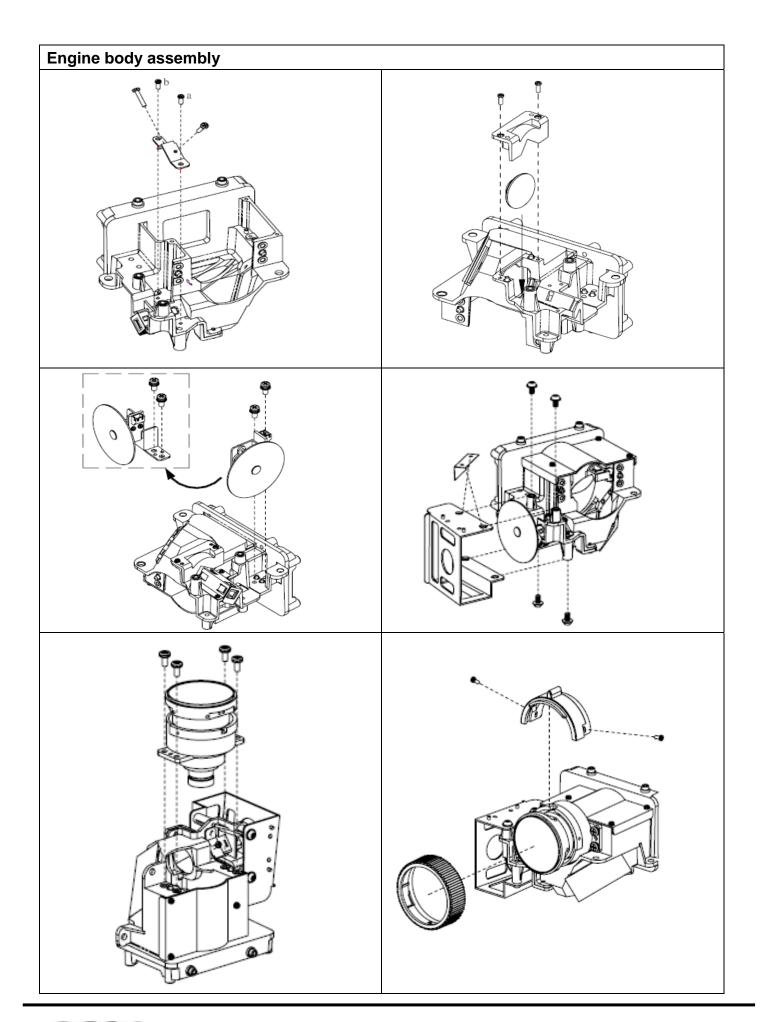
When working on the projector, use appropriate anti-static precautions such as anti-static mats, wrist straps and grounded work surfaces. Failure to do this can destroy static-sensitive components and make the product inoperable.



6.1 **Mechanical Drawing**



Lamp module assembly



6.2 Accessory

Key No.	P/N	Description	P1165E	P5260E
RC P0K00-RC01		ACER_REMOTE CONTROL_APD-X510_W/B_AAA2PCS	V	V

6.3 Board/Module

Key No.	P/N	Description	P1165E	P5260E
D4	P0L47-6100	IO_DIP_PCB_ASY_APD-S520_ROHS		V
B1	P0K47-6100	IO_DIP_PCB_ASY_APD-X510_ROHS	V	
B2	P0L43-1013	BALLAST-ASM_APD-S520_ROHS	V	
	P0K43-1013	BALLAST-ASM_APD-X510_ROHS		V
В3	P0K43-1018	LITEON-POWER-ASM_APD-X510_ROHS	V	V
B4	P0K43-1017	KEY-PAD-ASY_APD-X510_ROHS	V	V
B5	P0K47-5100	FIR SENSOR_DIP_PCB_ASY_APD-X510_ROHS	V	V
В6	P0F47-5000	CW SENSOR_SMT_PCB_ASY_PD-S550_ROHS	V	V

6.4 Case/Cover/Bracket Assembly

Key No.	P/N	Description	P1165E	P5260E
C 1	P0L43-1011	TOP COVER ASY_APD-S520_ROHS	V	
	P0K43-1011	TOP COVER ASY_APD-X510_ROHS		V
Ca	P0L43-1015	BOTTOM-COVER_ASY_APD-S520_ROHS	V	
C2	P0K43-1015	BOTTOM-COVER_ASY_APD-X510_ROHS		V
C3	P0K34-4550-00	LEFT-COVER_APD-X510_00_NO PAINTING_ROHS	V	V
C4	P0K43-1012	FRONT-COVER_ASY_APD-X510_ROHS	V	V
0.5	P0L43-1010	LAMP COVER ASY_APD-S520_ROHS	V	
C5	P0K43-1010	LAMP COVER ASY_APD-X510_ROHS		V
C6	P0L43-1014	BACK COVER ASY_APD-S520_ROHS	V	
	P0K43-1014	BACK COVER ASY_APD-X510_ROHS		V
С7	P0L38-1560-00	IO-NAME-PLATE_APD-S520_ROHS	V	
	P0K38-1560-00	IO-NAME-PLATE_APD-X510_ROHS		V
C8	P0P34-4610-00	FRONT IR COVER	V	V
C9	P0P43-1050	FRONT FOOT ASSY	V	V

6.5 Fans

Key No.	P/N	Description	P1165E	P5260E
F1	J2394-0074-00	FAN3110KL-04W-B39-S00(L=100MM)_NMB_ROHS	V	V
F2	J2394-0069-00	FANAUB0712M-R00(L=80)_DELTA_ROHS	V	V
F3	J2394-0087-00	FAN_BUB0512VHD-7T72(L=140MM)_DELTA_ROHS		V
	J2394-0070-00	FANBUB0512LD(L=60MM)_DELTA_ROHS	V	



6.6 Optical Device

Key No.	P/N	Description	P1165E	P5260E
01	P0L43-1002	OPTICAL ENGINE_APD-S520	V	
	P0K43-1002	OPTICAL ENGINE_APD-X510		V
O2	P0L43-1005	LAMP MODULE_APD-S520_ROHS	V	
	P0K43-1005	LAMP MODULE_APD-X510_ROHS		V
О3	P0F36-7010-00	DMD-0.55 X-TYPE_PD-S550_ROHS	V	
	P0G36-7010-00	DMD-0.55XGA X-TYPE_PD-X550_ROHS		V
04	P0K43-1006	COLORWHEEL MODULE_APD-X510_ROHS	V	V

6.7 Miscellaneous

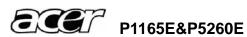
Key No.	P/N	Description	P1165E	P5260E
M1	J2413-0024-03	SPEAKER_P28KC04-9-7JS5_VECO_ROHS	V	V

6.8 Wire

Key No.	P/N	Description	P1165E	P5260E
W1	J2591-0014-01	FFC CABLEA28200C4466NB_ENTERY_0.5PITCH_28PIN	V	V
W2	J2595-0220-00	WIRE CON-CON_1102003-99_MSK_9PIN-2*8PIN_L105MM	V	V
W3	J2595-0231-00	WIRE ASSY_CON-SW	V	V
W4	J2595-0203-00	WIRE CON-CON_1102003-87_MSK_5PIN_L200MM	V	V
W5	J2595-0218-00	WIRE CON-CON_1102003-98_MSK_2PIN_L140MM		V
W6	J2595-0198-00	WIRE CON-MOTOR PROTECTOR	V	V
W7	J2595-0201-00	WIRE LAMP-BALA_2PIN_285MM	V	V
W8	J2595-0202-01	WIRE CON-CON_1102003-104_MSK_4PIN	V	V
W9	J2595-0208-00	WIRE ASSY_LAMP-BALA	V	V
W10	J2595-0066-00	WIRE CON-CON1102003-36_MSK_4PIN_L50MM	V	V

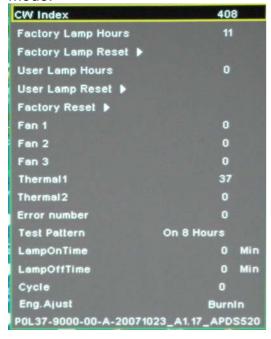
6.9 Screws

Key No.	P/N	Description	P1165E	P5260E
S1	P2535-7350-00	SCREW-TB-Q669D715-10_EMS-DX540	V	V
S2	J1635-A491-00	SCREW-WASHERTP_3_10_D_7_D=5.3	V	V
S3	82035-2510-00	HEXAGON-HEAT-BOLT-4.8_PJ-X900_3M	V	V
S4	J1635-3660-00	SCREW_M_3_5_D_2_D=5.5_NI	V	V
S5	J1635-D420-00	SCREW-WASHER_M_4_6_A_2.6_D=7	V	V
S6	J1635-3720-00	SCREW-WASHER_TP_2_4_D_1_D=3.2_NI	V	V
S 7	J1635-A020-00	SCREW-WASHER_TP_2_3_D_1_D=3.2_NI	V	V
S8	J1635-B730-00	SCREWM_3_5_E_1.2_D=6.5_BLACK	V	V
S9	J1635-3172-00	SCREW-WASHER_M_2_4_A_1.3_D=3.5_BLACK	V	V



Appendix: Service mode

- 1. Connect the power code and signal cable then turn on the "Power" button.
- 2. After PROJECTOR searched signal then press the "Left" button and "Power" button simultaneously. Keep 2~3 seconds then release 2 button. Press "MENU" button to enter the service mode.



3. "Factory Lamp Hours" is lamp hour record. Press "Down" button to choose "Factory Lamp Reset" then press the "Right" button to reset the lamp hours.

