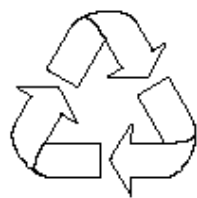

Acer PH-112 Service Guide

Service guide files and updates are available on the CSD web; for more information, please refer to <http://csd.acer.com.tw>



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Conventions

The following conventions are used in this manual

Screen messages	Denotes actual messages that appear on screen.
Note	Gives bits and pieces of additional information related to the current topic.
Warning	Alerts you to any damage that might result from doing or not doing specific actions.
Caution	Gives precautionary measures to avoid possible hardware or software problems.
Important	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.

2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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System Introduction

Technical Specification

Item	Description
Display Type	Single Chip DLP Projector
Lamp Type	200 W User Replaceable Lamp
Brightness	1600 Lumen
Contrast Ratio	2000 : 1(Full on / off) (Min)
Resolution(Pixels)	854 x 480
Uniformity	90%
Optical Compensation	Light Tunnel
Focal Length	20.2 ~ 24.2 mm
Screen Size	27~324 inches Diagonal
Throw Distance	1.2 ~ 12 Meter
Compatibility	"Horizontal frequency (31~79KHz")
	"Vertical frequency (50~85Hz")
Operation Humidity	80%
Operation Temperature	+5 ~ +35C
Sound Noise	30dB(A)(standard mode)/28db(A) (ECO mode)
Power Requirement	100~240v, 50~60Hz
Dimensions (W x H x D)	256 x 198 x 92 mm
Weight	2.3 KG (<4.5 lb)
Certification	CE Class B, FCC Class B , VCCI-II , UL , cUL, TUV-GS, C-tick, PSB, PSE, CB Report, CCC

Lamp Specification

1.Product Scope

The product is a lamp system consisting of a short arc burner in a reflector, and a lamp driver.

Lamp type UHP 200W-150W 1.0

Driver type EUC 200V/01 TopValue

2. SYSTEM SPECIFICATIONS

2.1 Driver conditions

See driver specifications for more information
EUC 200V/01

<u>PARAMETER</u>	<u>CONDITIONS</u>	<u>MIN.</u>	<u>TYP.</u>	<u>MAX.</u>	<u>UNIT</u>
Output lamp power		190	200	210	W
Lamp current frequency	Free running	48	88	150	Hz
Ignition voltage	Peak		2.3	3.5	kV
Shut-down voltage		<35*		>140**	V
Voltage range @ 200W		62.5		140	V
Voltage range @ 150W		47		140	V
Minimum dim level	Minimum dim level	135	150	165	W
Pulse height	Lamp voltage: 62.5-140V		3.8		A, peak
Pulse width	Of half-period time	6			%

* If the lamp voltage is below 35V continued over 90s, the driver shuts down.

** If the lamp voltage reaches over 140V, the driver shuts down immediately.

2.2 Run-up time

Run-up time to 80% of the stabilised luminous output is < 60s.

2.3 Ignition

2.3.1 Cold ignition

The criterion for reliable ignition is defined as a maximum of three ignition failures on 30 attempts per amp however none of these ignition failures may occur subsequently.

During the ignition phase of the lamp (run-up-time), no cooling of the burner recommended. Cooling of the burner can lead to ignition failure.

It is known that asymmetric cooling after switching the lamp off, can lead to ignition failure in the next attempt due to condensed mercury on 1 of the electrodes. Therefore Philips advises to build in multiple attempts (max. 5 for safety reasons) to start the lamp. Between 2 attempts one has to wait 15s.

Philips suggests after a successful starting attempt to keep the lamp burning for at least 15 minutes.

The cable has an isolation value of 2.5kV

To limit voltage loss of the ignition pulse, the mutual capacity of the cables may not exceed 40pF.

To ensure this, Philips recommends to:

- Avoid twisted cables

- Never tie the cables together

- Avoid contact to conductive plates, especially if those are connected to ground (e.g. via PE)

- If possible keep the cables straightened having a mutual distance (of 1 to 2 cm between the

A suitable electrical enclosure should be provided in the end-product. Creepage and clearance distances to high voltage parts and traces have to be evaluated in the end-product. Special consideration has to be given to the distances from earthed mounting screws to hazardous voltage traces on the lamp driver PCB.

2.3.2 Hot restrike

At max. bulb temperature of 300 °C+ -25°C : 98% ignition reliability of the total number of switches.

At max. bulb temperature of 300 °C+ -25°C : 99.9% ignition reliability of the total number of switches.

A restrike of the system can be applied 15 seconds after shut down.

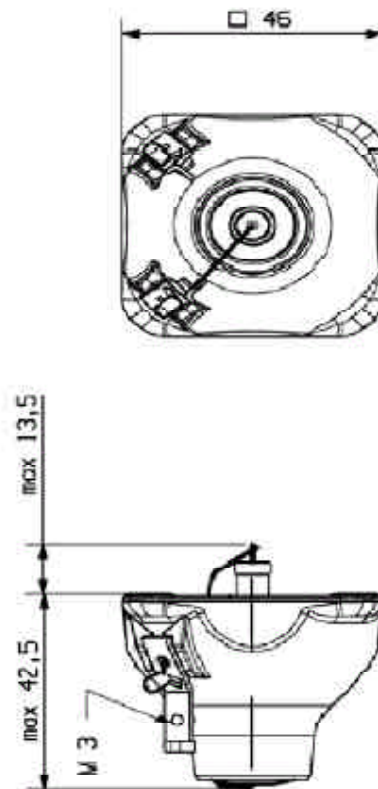
Restrikes of the system can be repeated up to max. 5 times, if the lamp has not successfully started from the first time.

Philips suggests after a successful starting attempt to keep the lamp burning for at least 15 minutes.

3 LAMP SPECIFICATIONS

3.1 Dimensions

Reflector type E19



3 Average lamp life and lumen maintenance

(on test & operational conditions see 4.4 and based upon a large sample population)

When driven at 200W on ballast type EUC 200V/01 and temperature conditions are fulfilled

(AN 2002-002)

> 85% 500h

> 50% 2000h According to the light specification table (see paragraph 4.5.2)

When driven at 150W on ballast type EUC 200V/01 and temperature conditions are fulfilled

(AN 2002-002)

> 85% 500h

> 50% 2500h According to the light specification table (see paragraph 4.5.2)

4 INSTRUCTION FOR USE

- To replace the lamp, the power should be switched off.
- The burning position is horizontal $\pm 20^\circ$.
- Never touch the burner or reflector mirror with bare hands. If bare hands have touched it, it should be cleaned with a lint free towel before installing the lamp.
- The lamp should be operated on the lamp driver as mentioned in paragraph 1.
- Fast switching cycles will reduce lamp life (e.g. 10min on 10min off).
- Max torque on the side and centre connector: 0.8Nm.
- The screw, which connects the cable with the side connector, may not touch the reflector surface.
- The set maker must design a lamp house to keep glass pieces in the lamp house.
- Visible arc instability has to be suppressed by set optics.

5 ENVIRONMENTAL LAWS

EU

At end of service life, UHP Lamps should be treated as chemical waste (in view of mercury content), and be disposed of in compliance with national regulations/law.

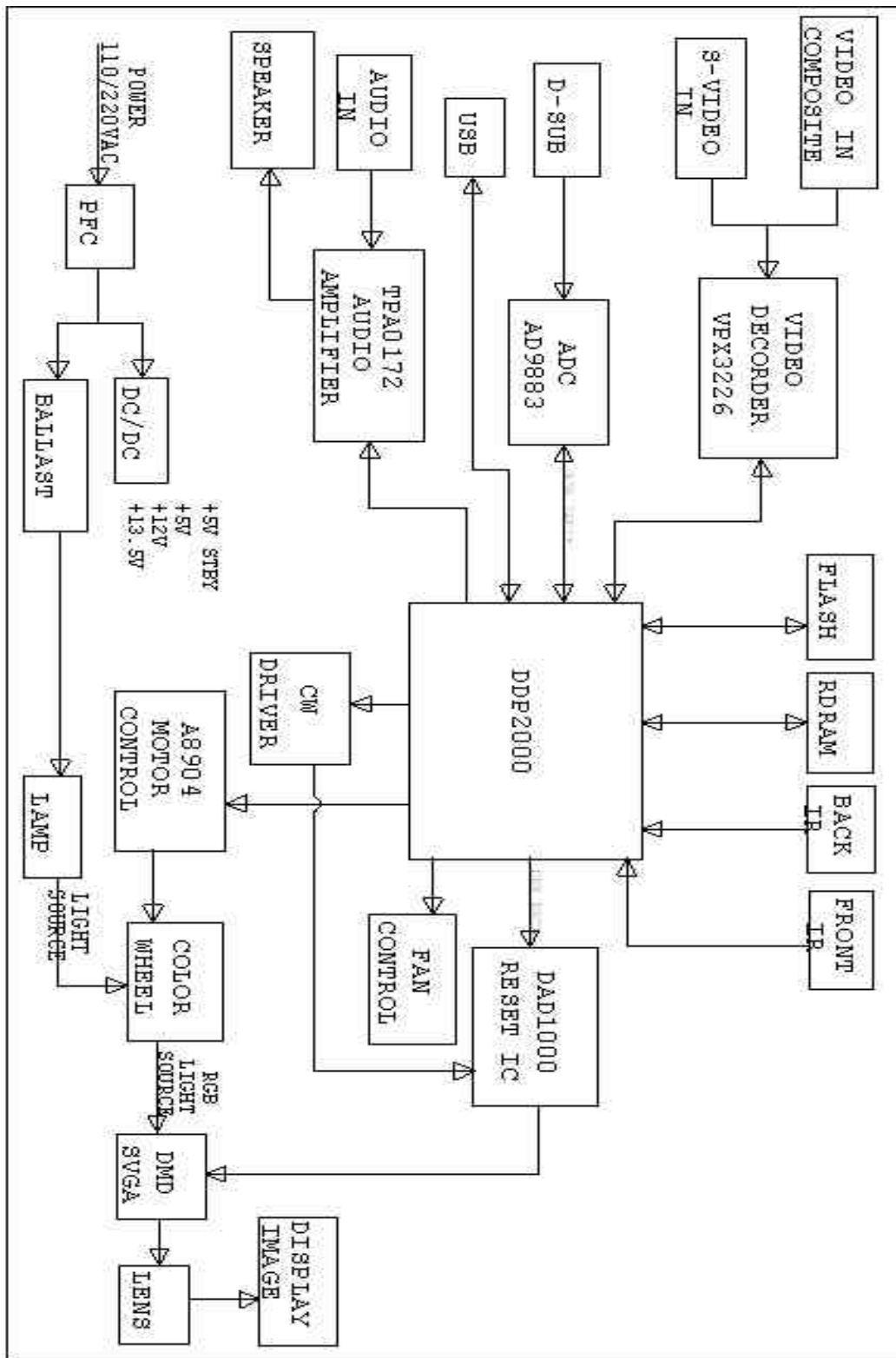
USA

To comply in accordance with the Law of Vermont, that obliges the visible notification on a lamp in case it contains mercury, a Hg logo will be added on the reflector of the lamp. Besides the reflector, also lamp packaging with destination USA needs to notify the customer that the packaging contains mercury added products.

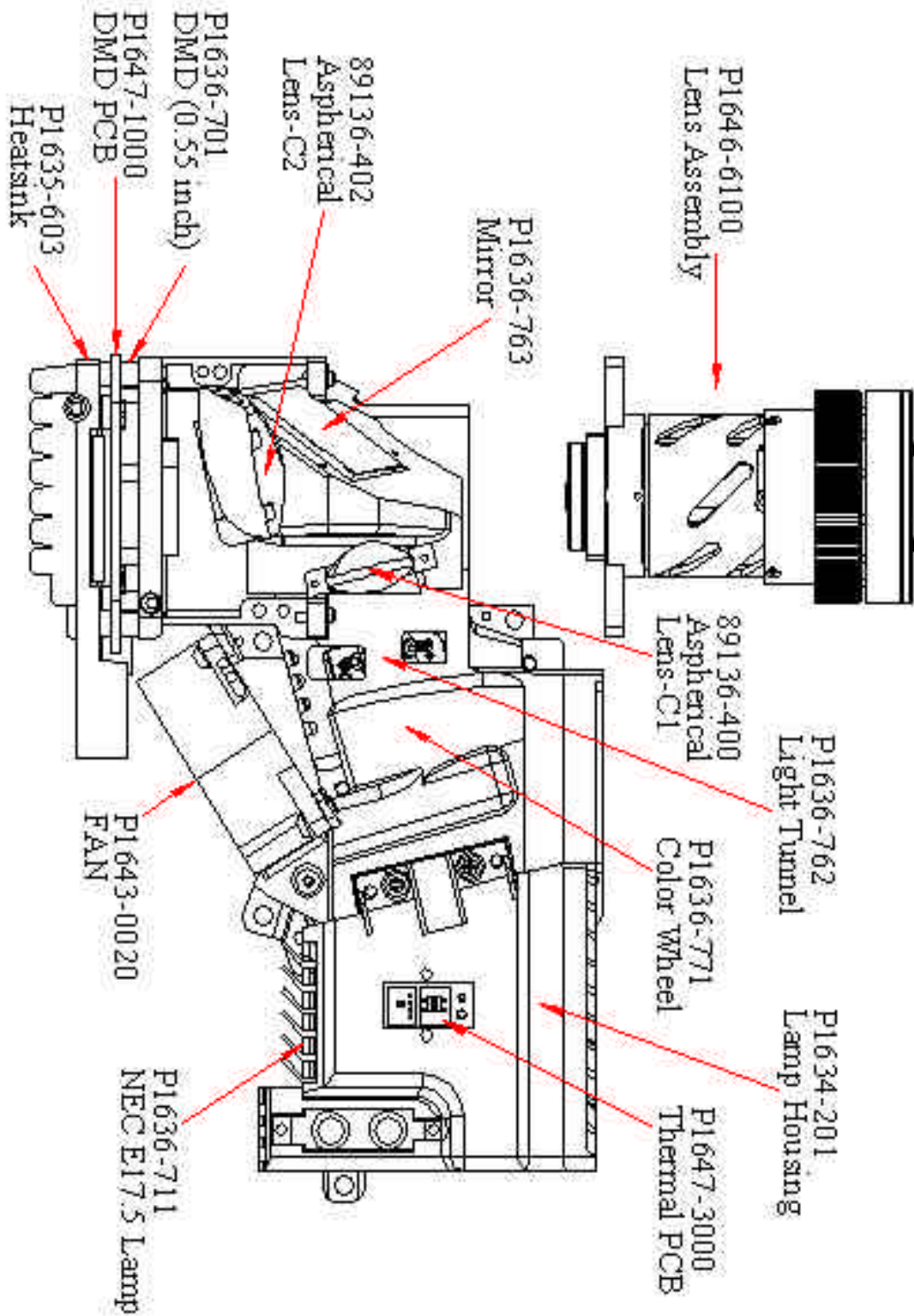
For more information about Hg marking, check the website of the Law of Vermont.

<http://www.anr.state.vt.us/dec/ead/mercury/labeling/manufact.htm>

System Block Diagram



Optics-Conceptual Drawing



Firmware Upgrade

This chapter provides the equipment needed, setup and upgrading procedure for Firmware upgrade.

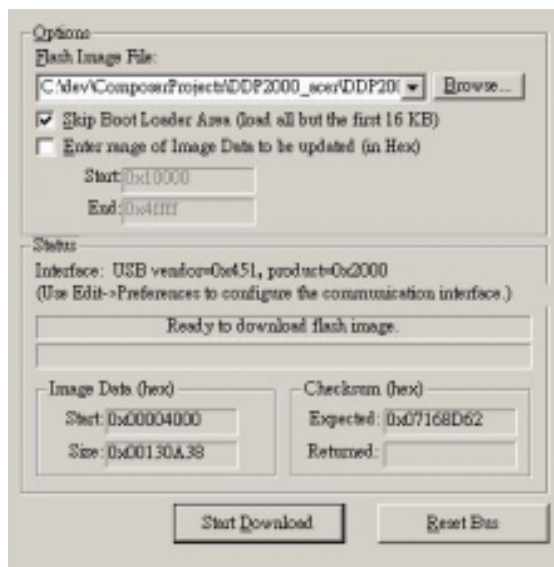
Setup Tool / Equipment

1. Computer
2. USB Cable (see right picture)
3. Power Coard

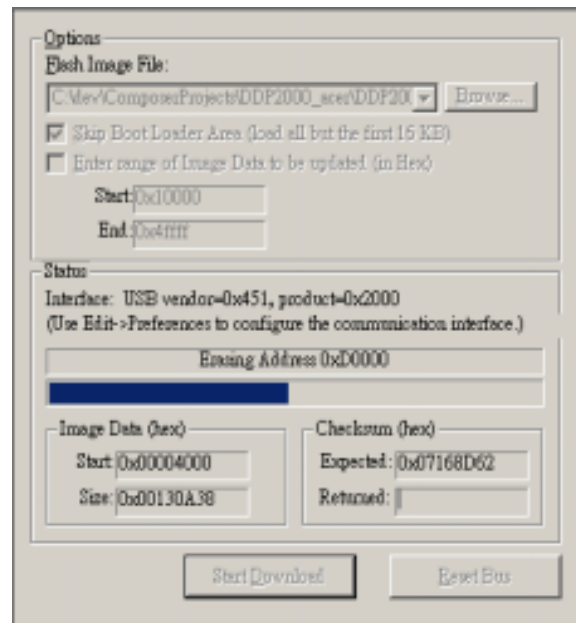


Upgrading Procedure

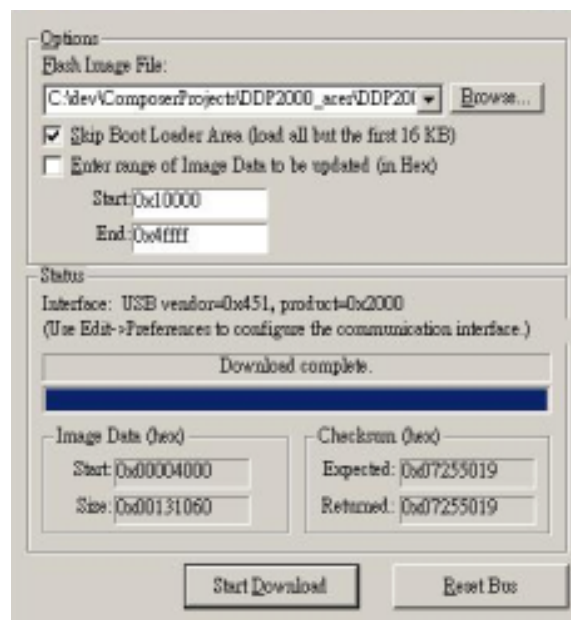
1. Connect Download Cable to projector
2. Open burning programma (DLP Composer Lite)



-
3. Press Power and Menu button together and connect the power cord into the projector . Than release these 2 bottoms .
 4. Click the **Start Download** button and then start to burning of program .





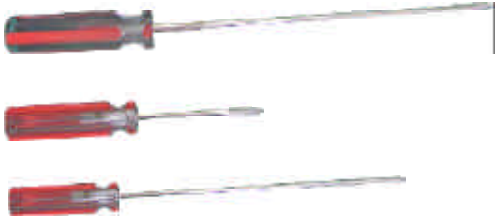
5. Completion of Burning than remove Power Cord and Burning Cord .



Machine Disassembly and Replacement

This section provides disassembly procedures for PH112 DLP Projector. Before you begin any of these procedures, be sure to turn off the power, computer system, and other attached devices; then disconnect the power cable from the electronically outlet. Moreover, when you disassemble the projector, be sure to put the screws in a safe place and separate them according to grouping.

Tool Needed

Item	PHOTO
Long Nose Nipper	
Hex Sleeves 5mm	
Screw Bit (+) : 107 Screw Bit (+) : 101 Screw Bit (+) : 102	

General Information

Before You Begin

Before proceeding with the disassembly procedure, make sure that you do the following:

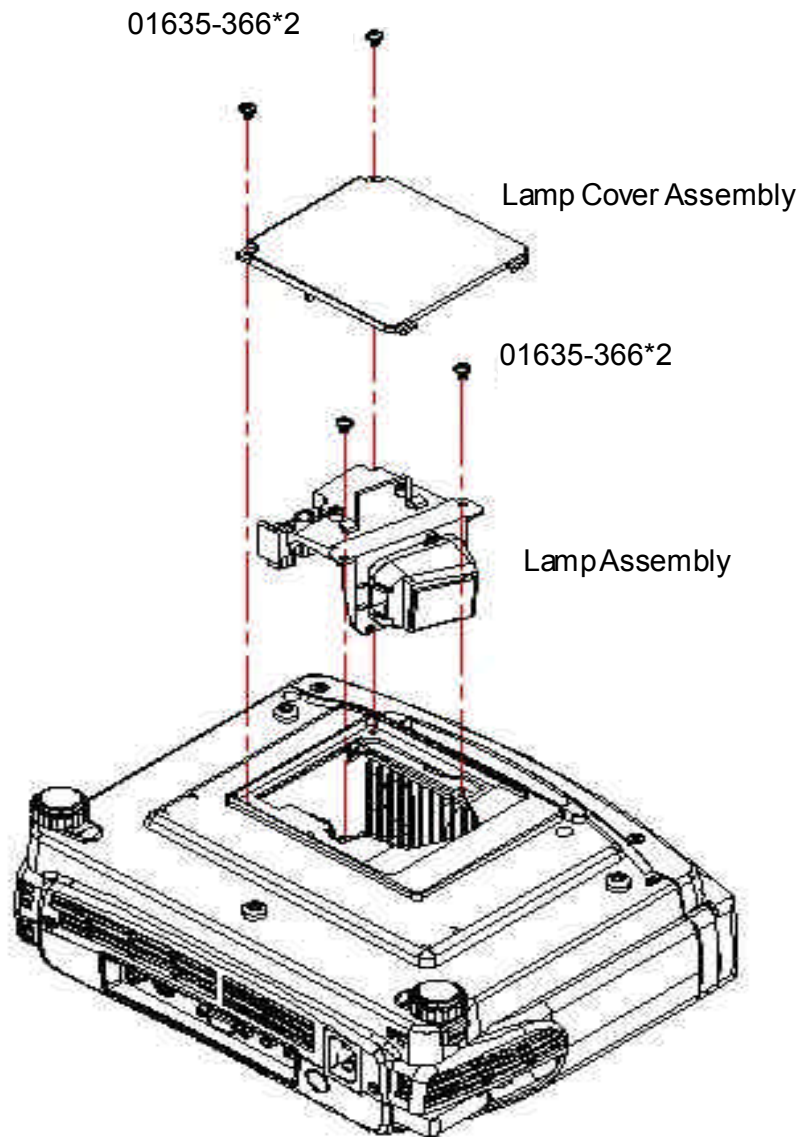
1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.
3. Wear Anti-static wrist strap.

Disassemble Lamp Module

1. Loosen two screws of Lamp Cover
2. Remove Lamp Cover
3. Loosen two screws of Lamp Module .
4. Grasp the lamp handle and pull out Lamp Module

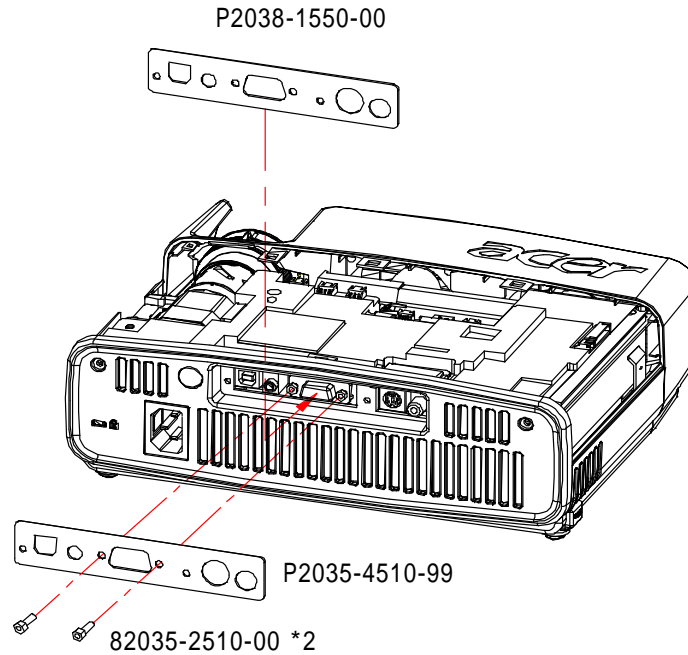
p.s Related notice of replace lamp pls refer to the **Lamp Specification section** .

Note:Unplug all the cord before disaddebling the Projector.

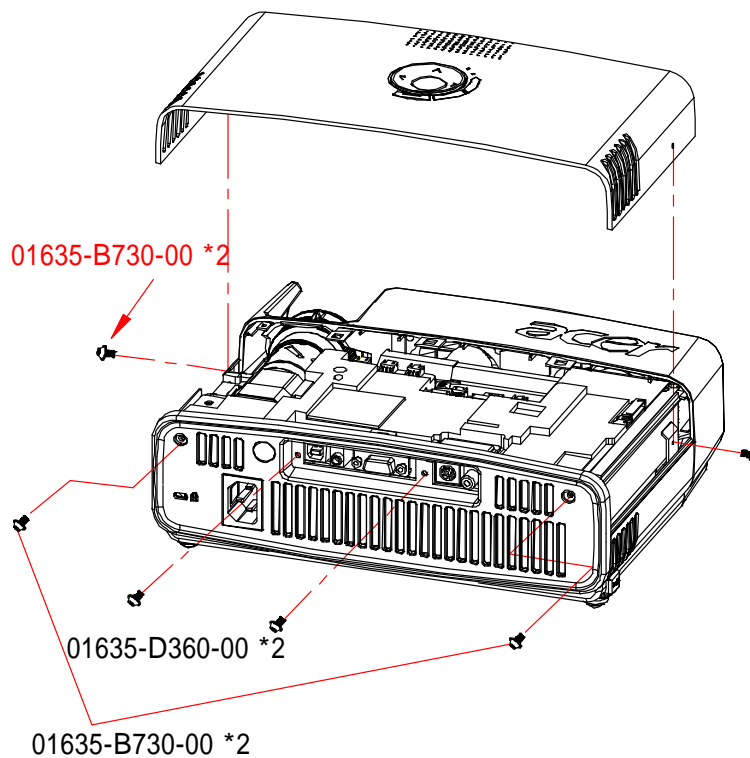


Disassemble IO Cover & Top Cover

1. Loosen 4 screws of IO cover.
2. Remove IO cover
3. Loosen 2 screws of Back Cover

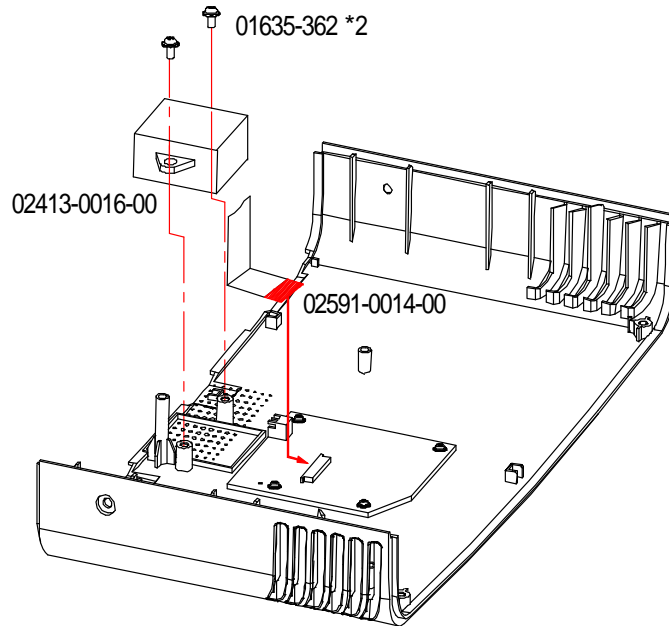


1. Loosen the 2 screws of Top Cover.
2. Lift up Top Cover directly (Be careful there is a internal wire connect with the main board)



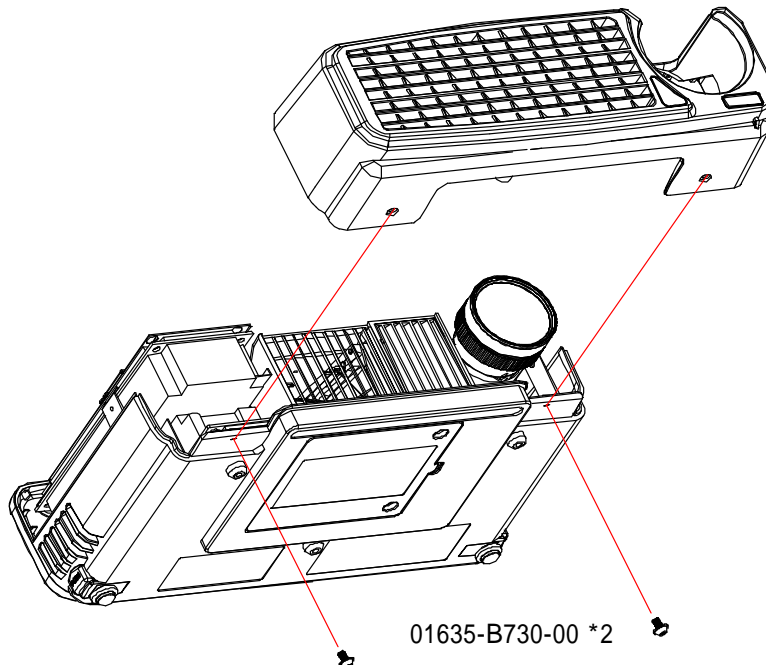
Disassemble Speaker

1. Loosen the screws of Speaker.
2. Lift up Speaker.



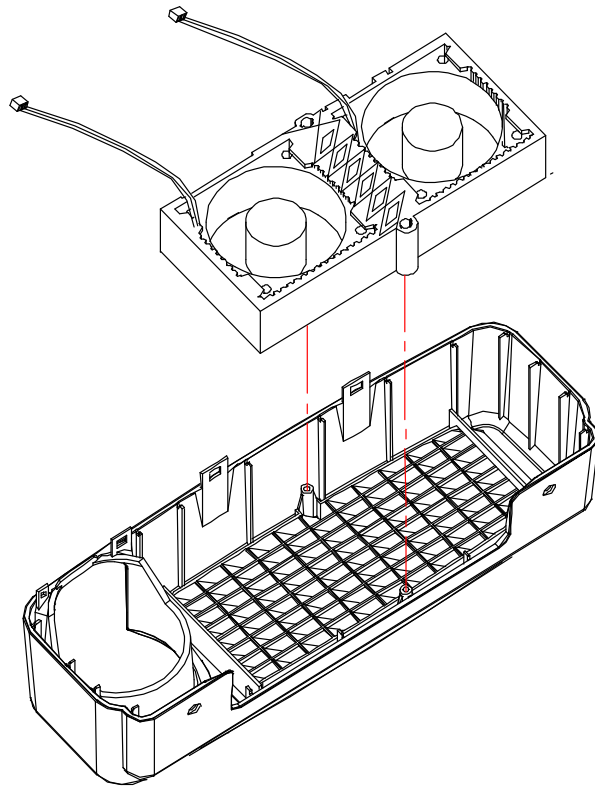
Disassemble Front Cover

1. Loosen the 2 screws of Front Cover.
2. Lift up Front Cover directly (Be careful there are three internal wires connect with the main board)

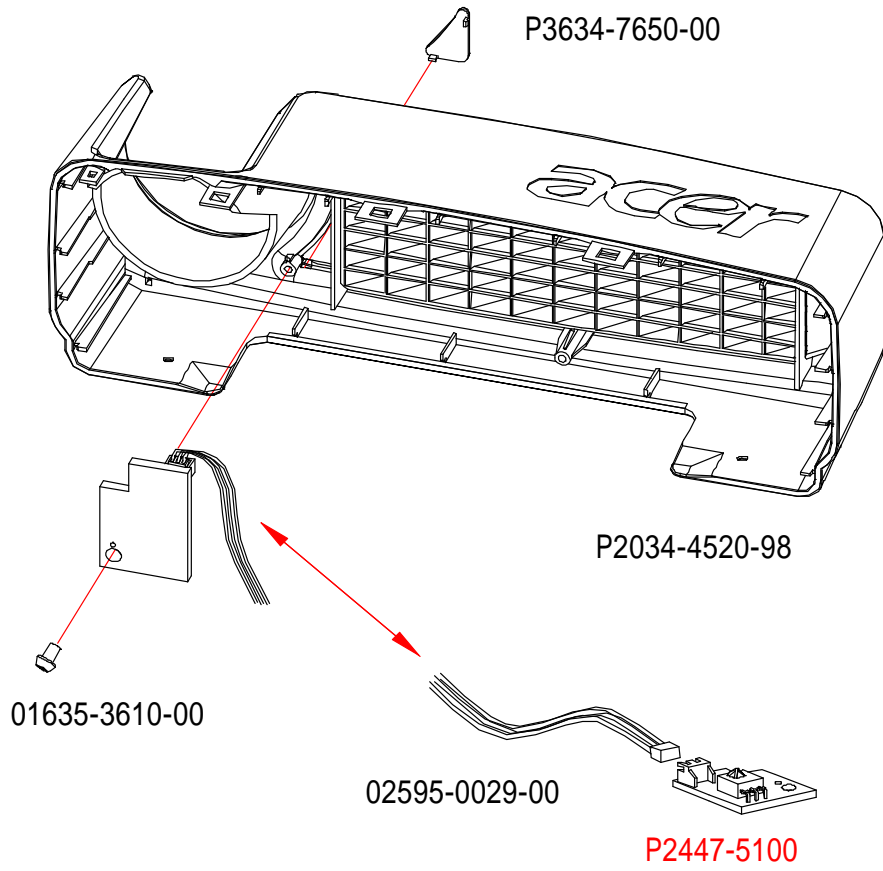


Disassemble Front Fan

1. Lift up the Front f Fan Set from front cover directly.

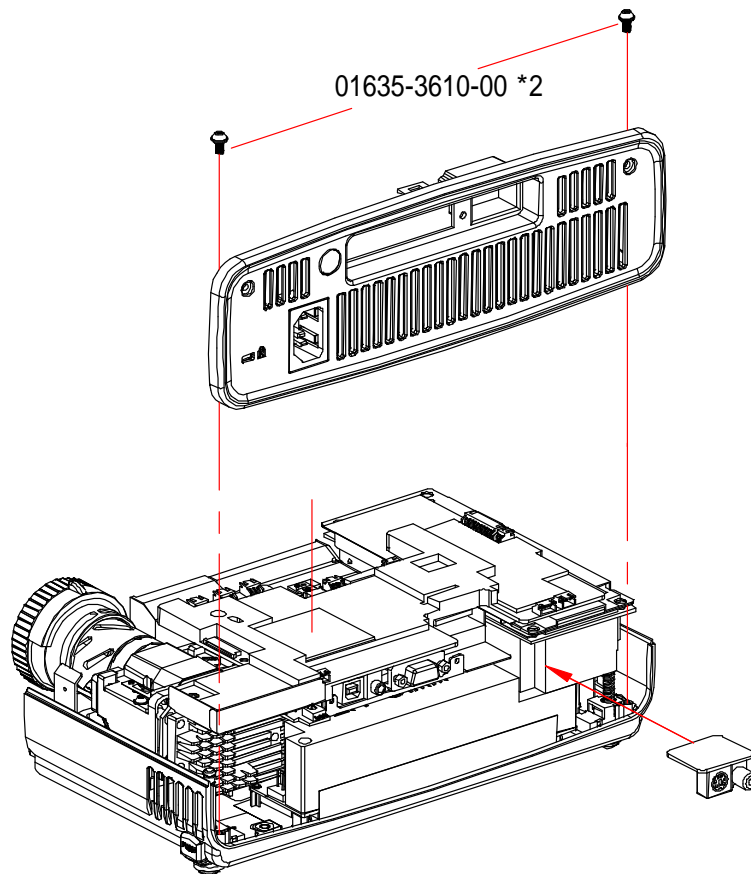


Disassemble Front IR Board & IR Cover



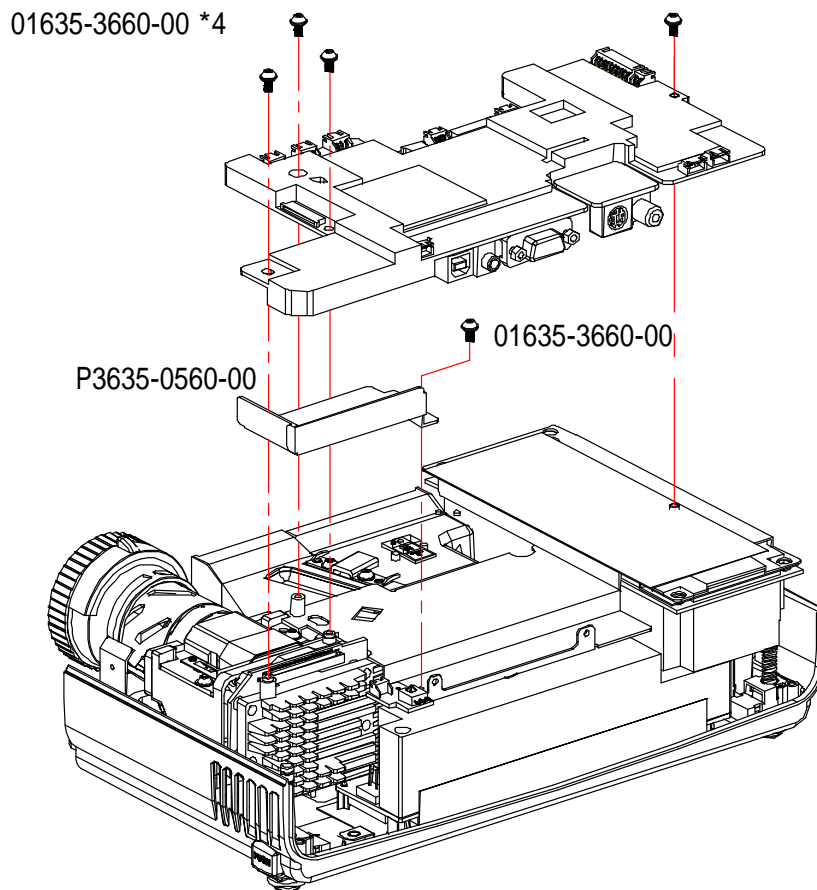
Disassemble Video IO

1. Loosen the screws of Back Cover
2. Loosen back cover.
3. Remove the Video IO.



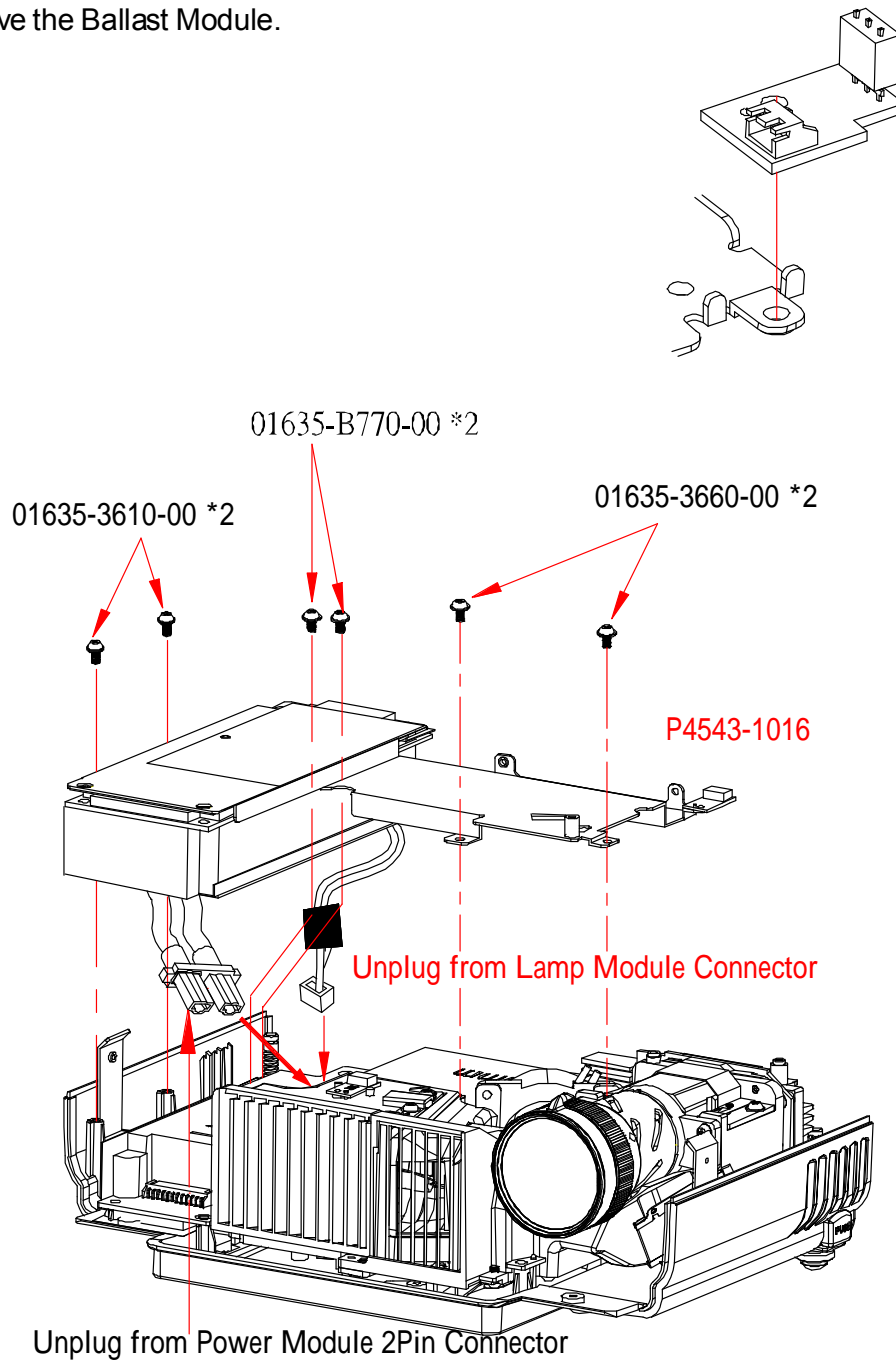
Disassemble Main Board

1. Loosen the four screws of Main Board
2. Unplug all wires on the board (Main Board PIN location of connectors pls refer to Chapter 5)
3. Remove Main Board



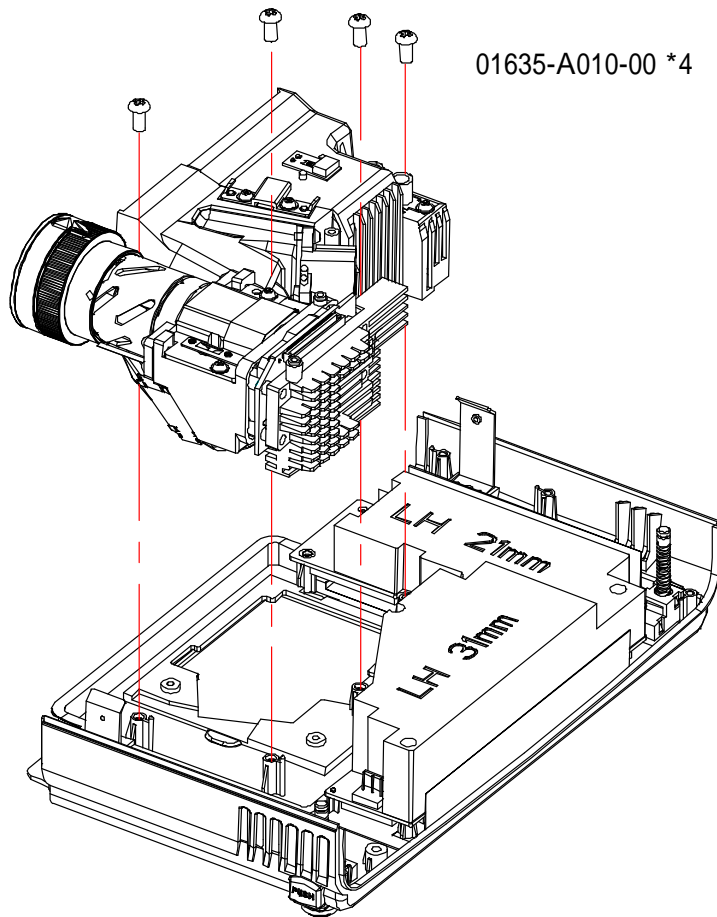
Disassemble Ballast Module & Back IR

1. Loosen the screw of Back IR board.
2. Remove the Back IR board
3. Loosen the six screws of Ballast Module
4. Unplug all wires on Ballast Module (Ballast Board PIN location of connectors pls refer to Chapter 5)
5. Remove the Ballast Module.



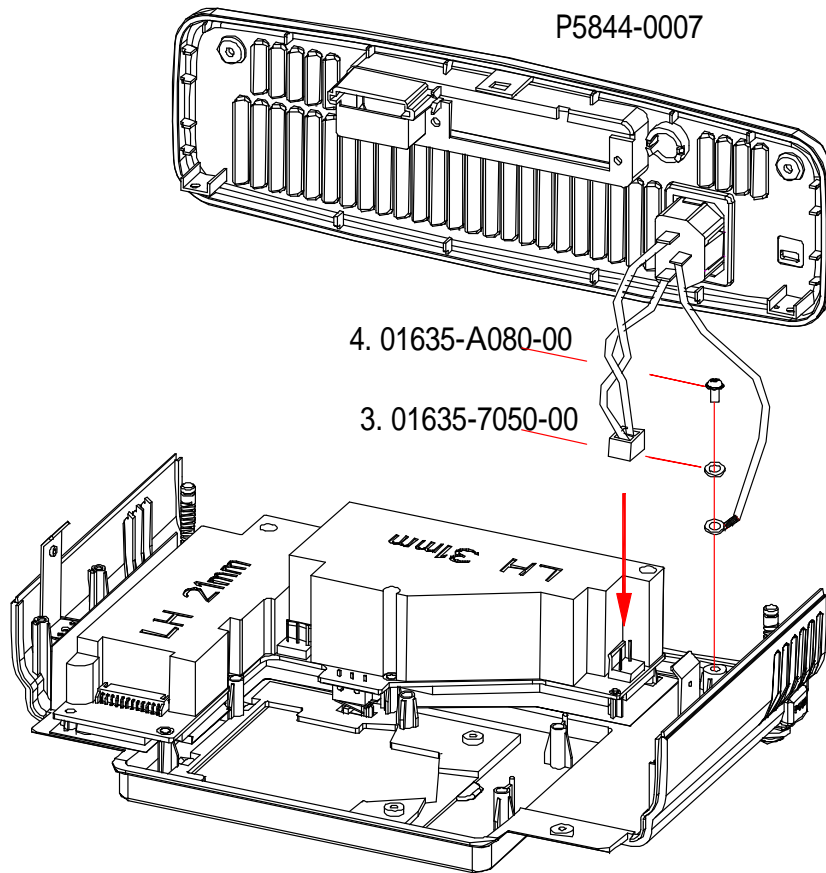
Disassemble Optical Engine

1. Loosen the four screws of Optical Engine
2. Remove the Optical Engine .



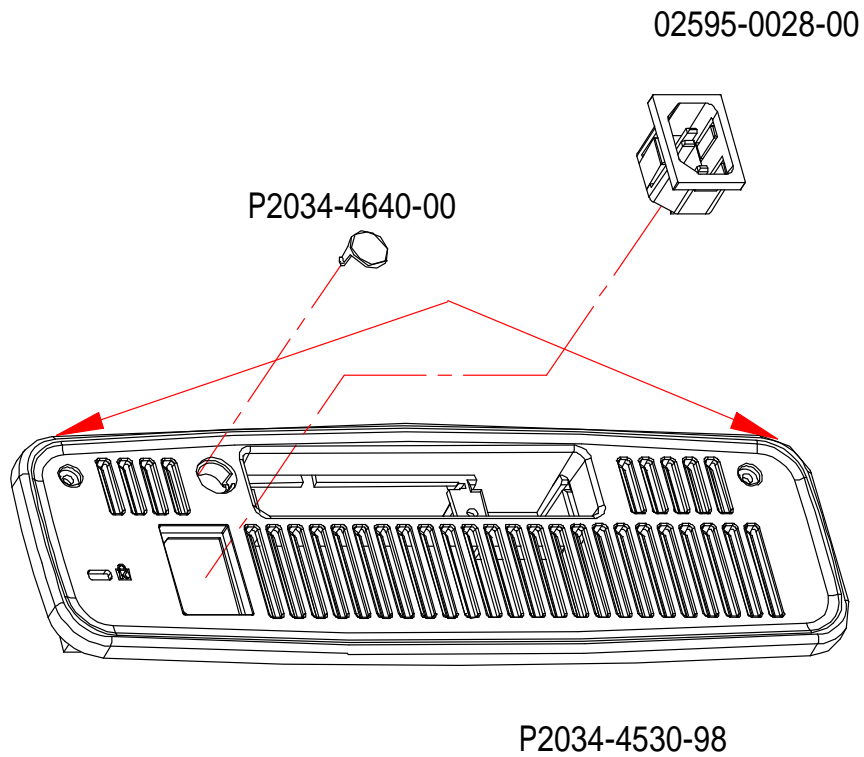
Disassemble Back Cover

1. Loosen the screw of AC Inlet & remove the ring.
2. Remove the Back Cover.



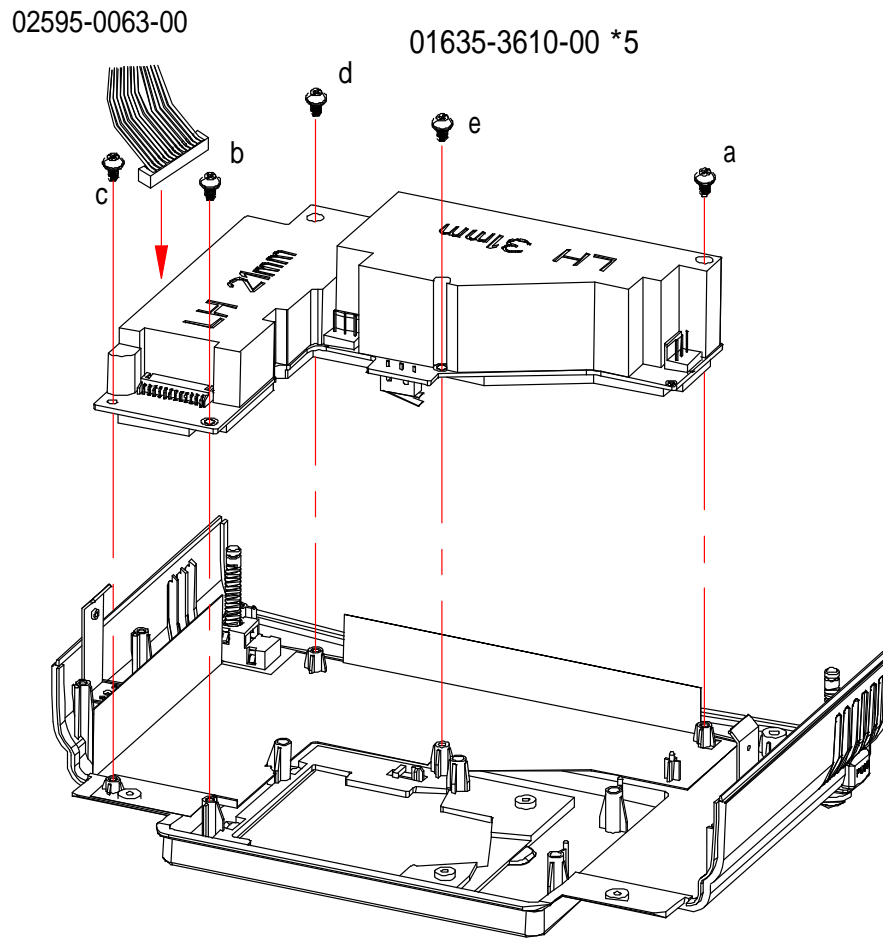
Disassemble Back IR Cover, AC Outlet

1. Take out the AC Inlet.
2. Take out the Back IR Cover.



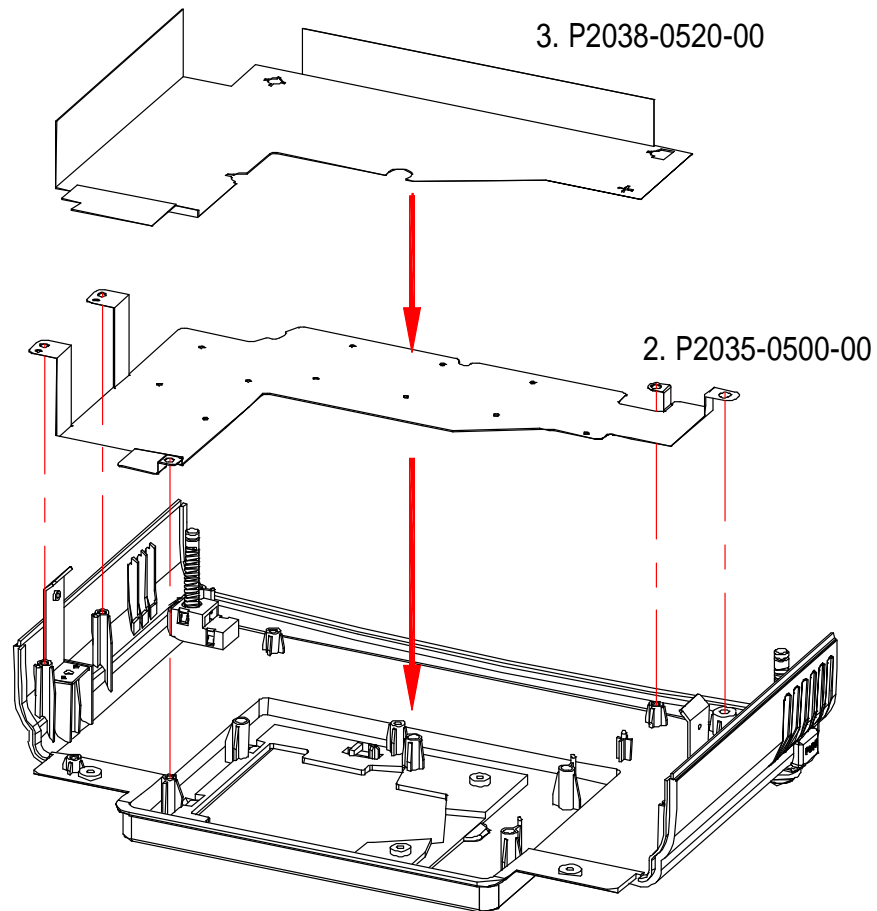
Disassemble Power Module

1. Unplug the wire.
2. Loosen the five screws of Power Module
3. Remove the Power Module.



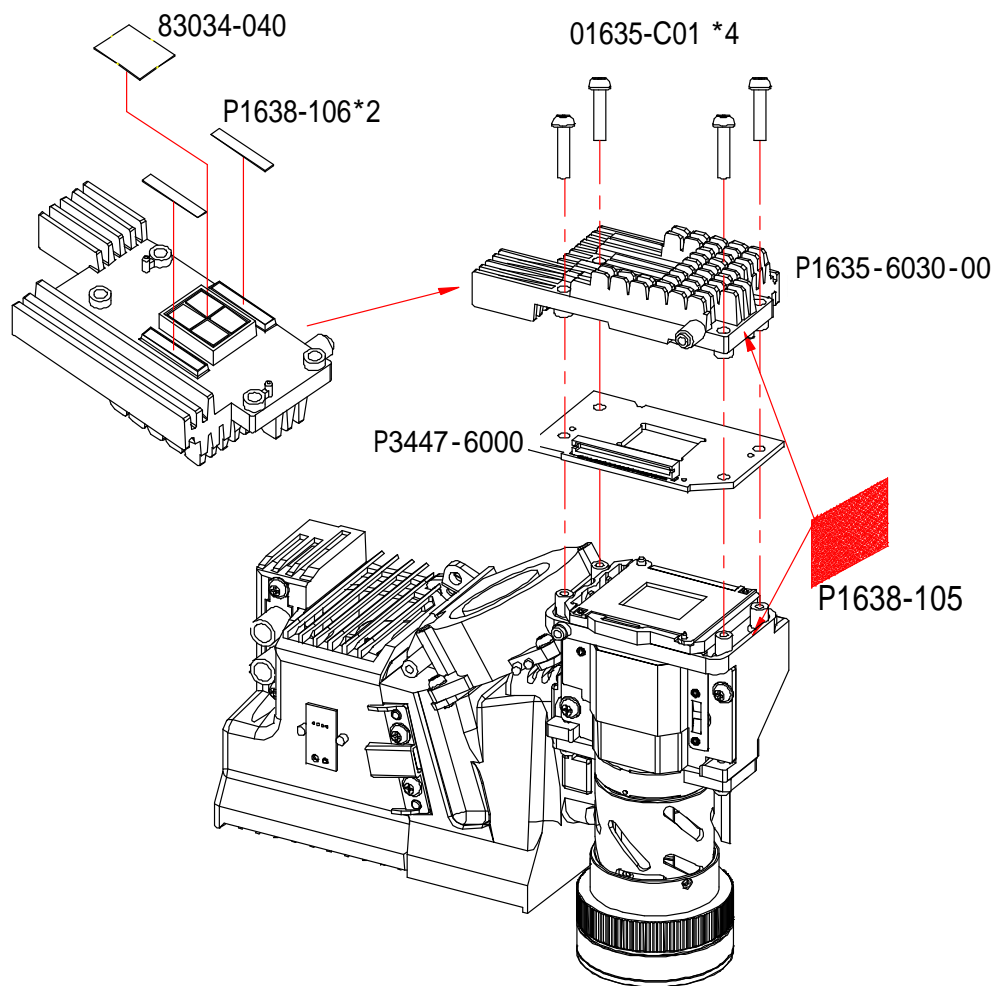
Disassemble Ground Plate & Mylar

1. Lift up the Ground Plate.
2. Then lift up the Mylar.



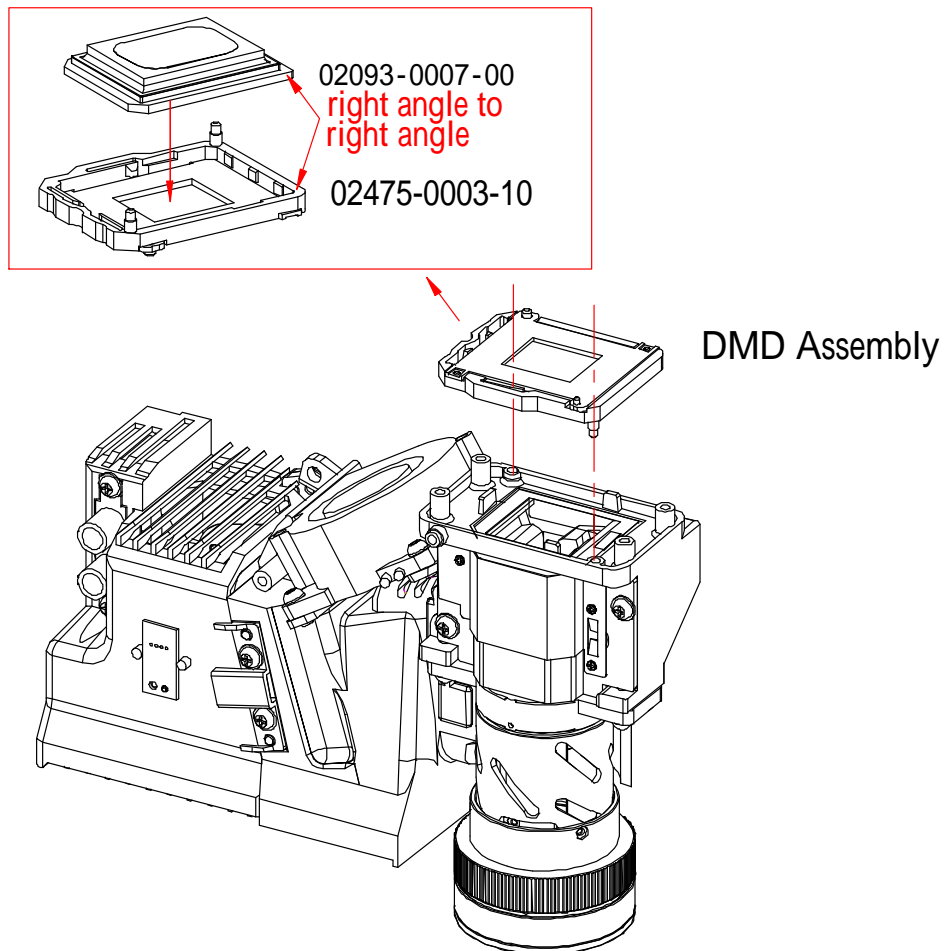
Disassemble Heatsink & DMD Board

1. Loosen the four screws of Heatsink.
2. Tear off the EMI Pad
3. Remove the Heatsink. (Do not Suggest to tear off Thermal Pad and DMD Pad on Heatsink unless they are damaged)
4. Lift up the DMD Board.



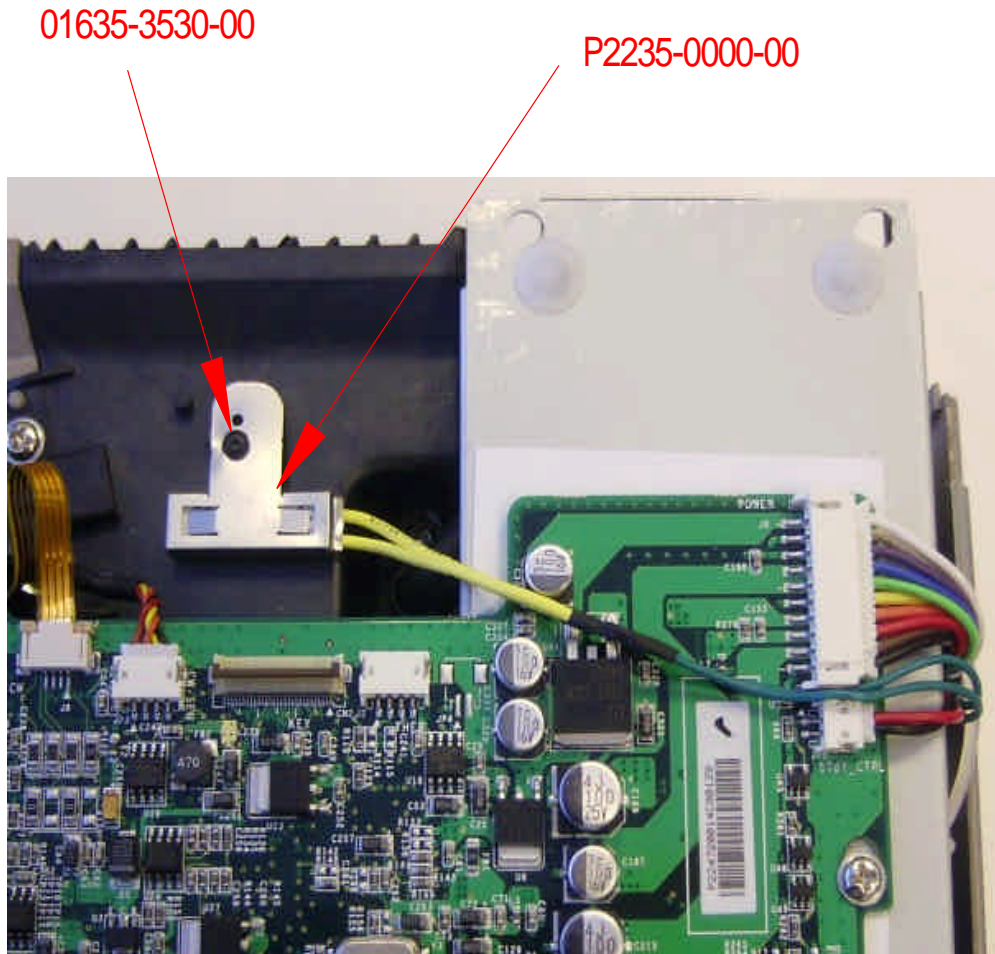
Disassemble DMD Assembly & DMD

1. Lift up the DMD Assembly
2. Lift up the DMD



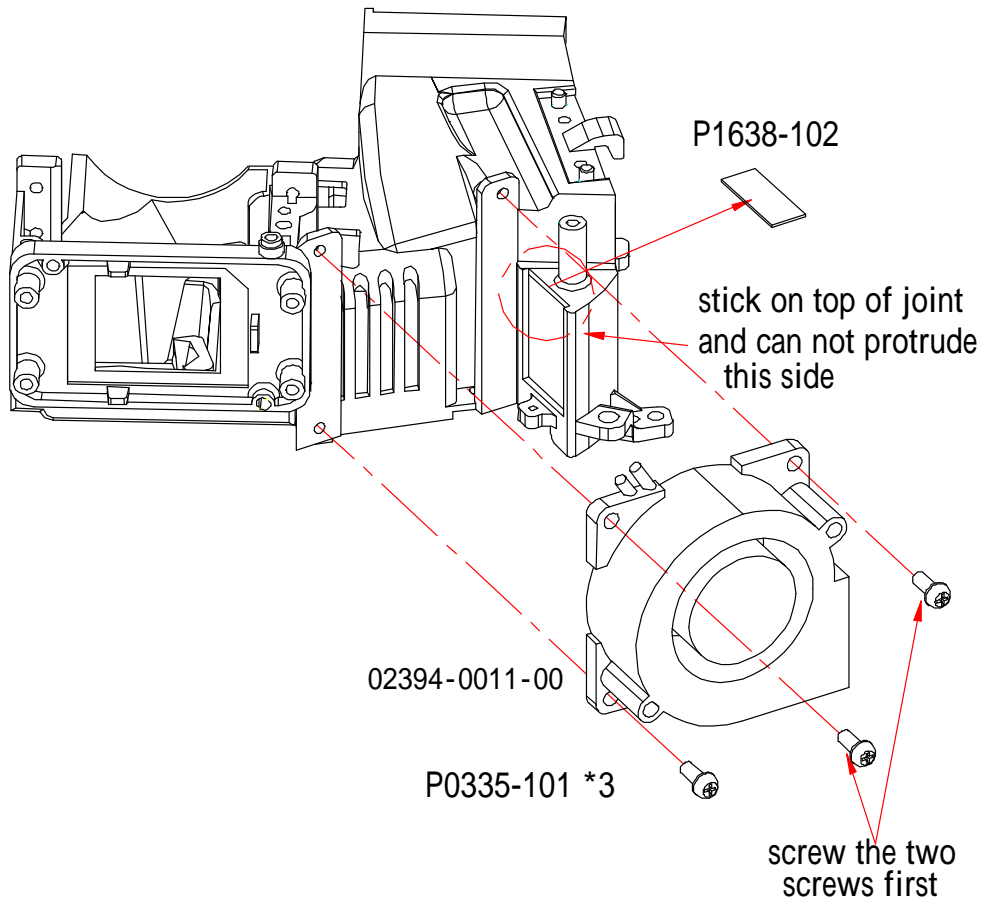
Disassemble Thermal Board

1. Loosen the screw of Thermal Board
2. Remove the Thermal Board



Disassemble Optical Engine Fan

1. Loosen the three screws of Fan
2. Remove the Optical Engine Fan



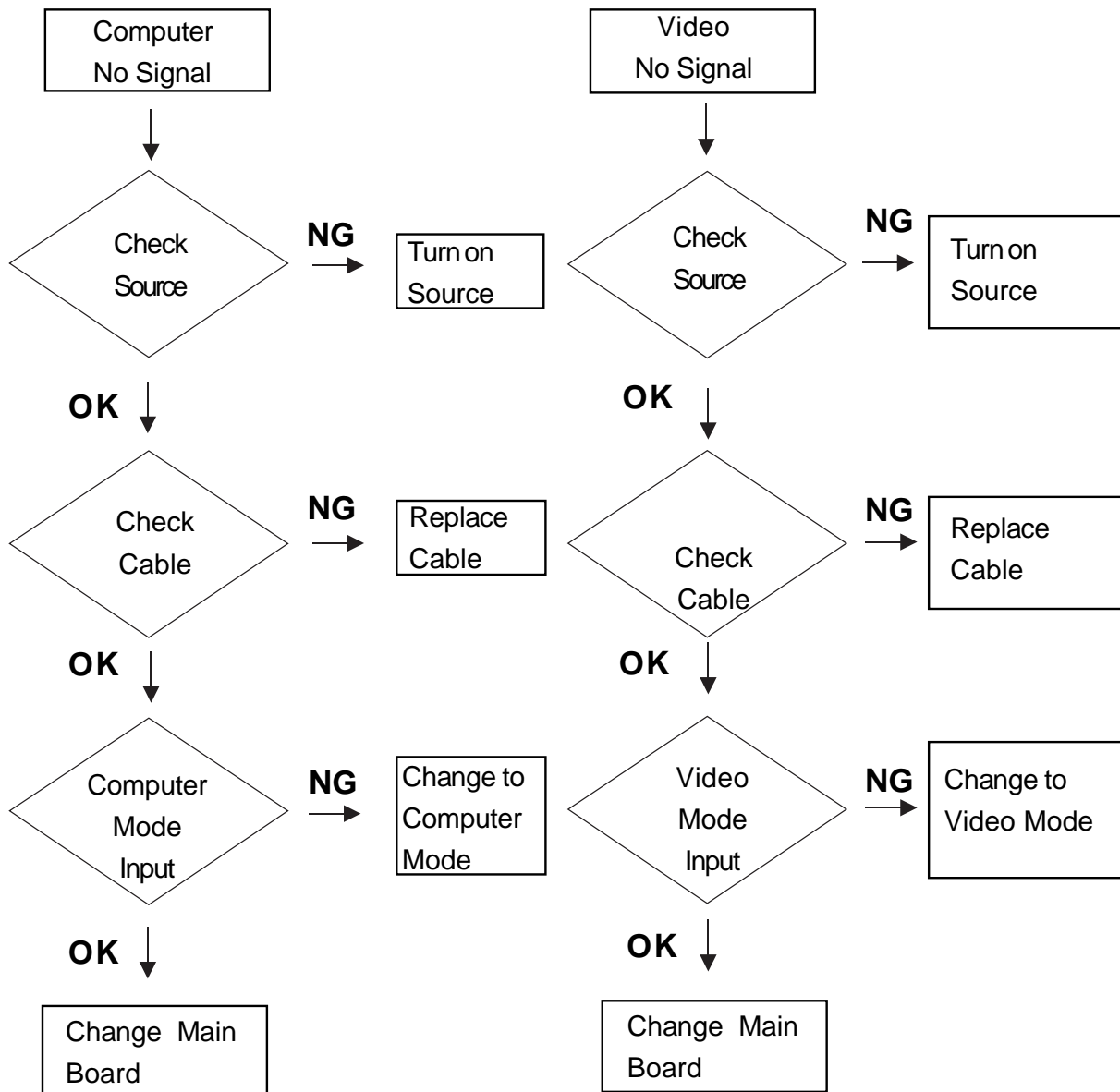
Troubleshooting

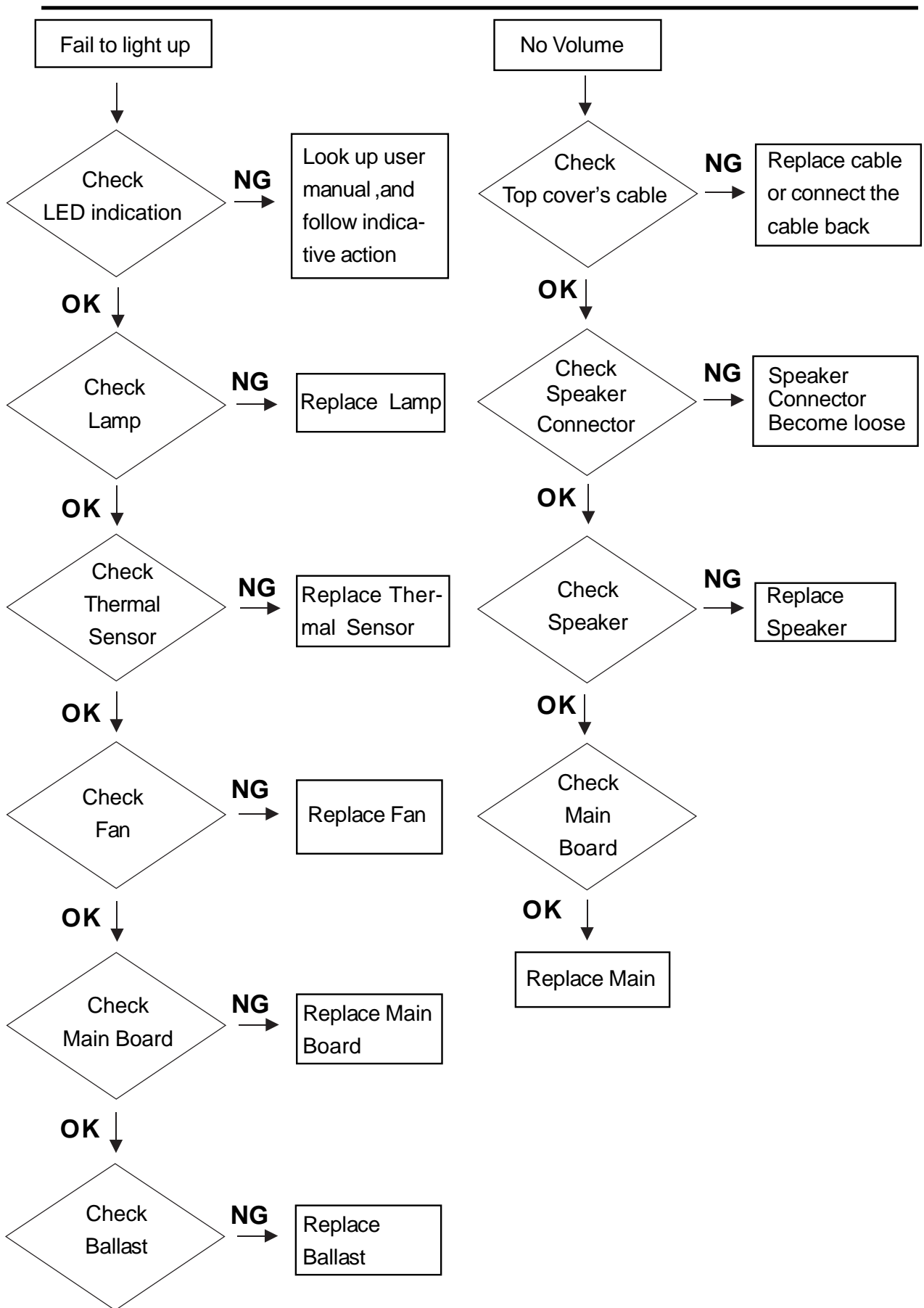
This chapter provides technicians and people who have an electronic background a primary description about maintaining the product. Moreover, you can get the appropriate operation to solve some complicated problems of component repairing and professional problems.

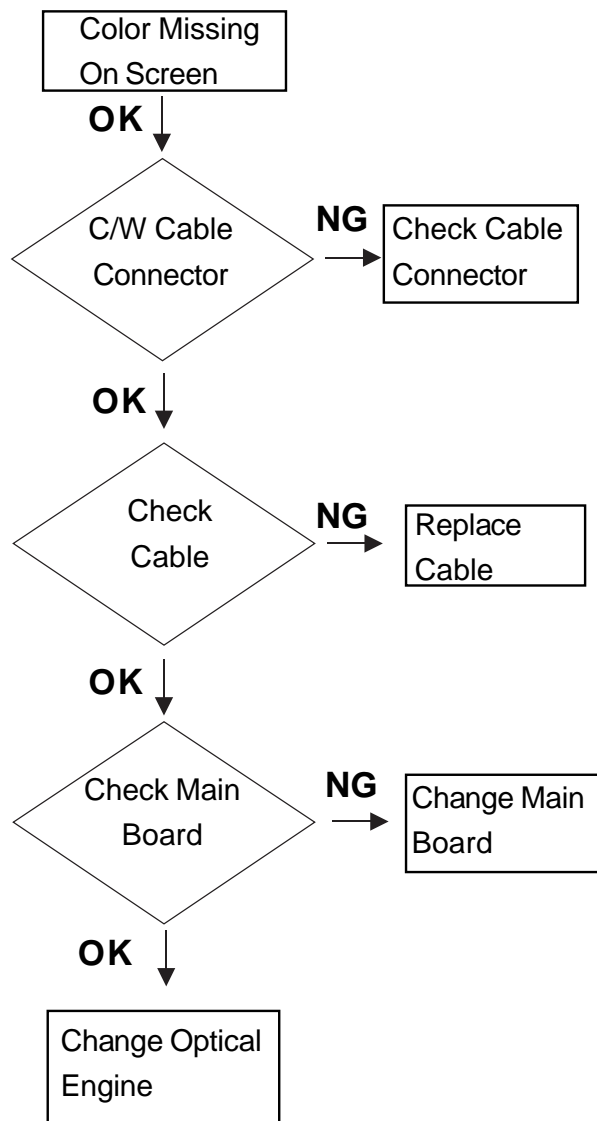
The Troubleshooting section focus on below items:

1. Video Signal Troubleshooting
2. Operation Function Troubleshooting
3. Power Source Troubleshooting

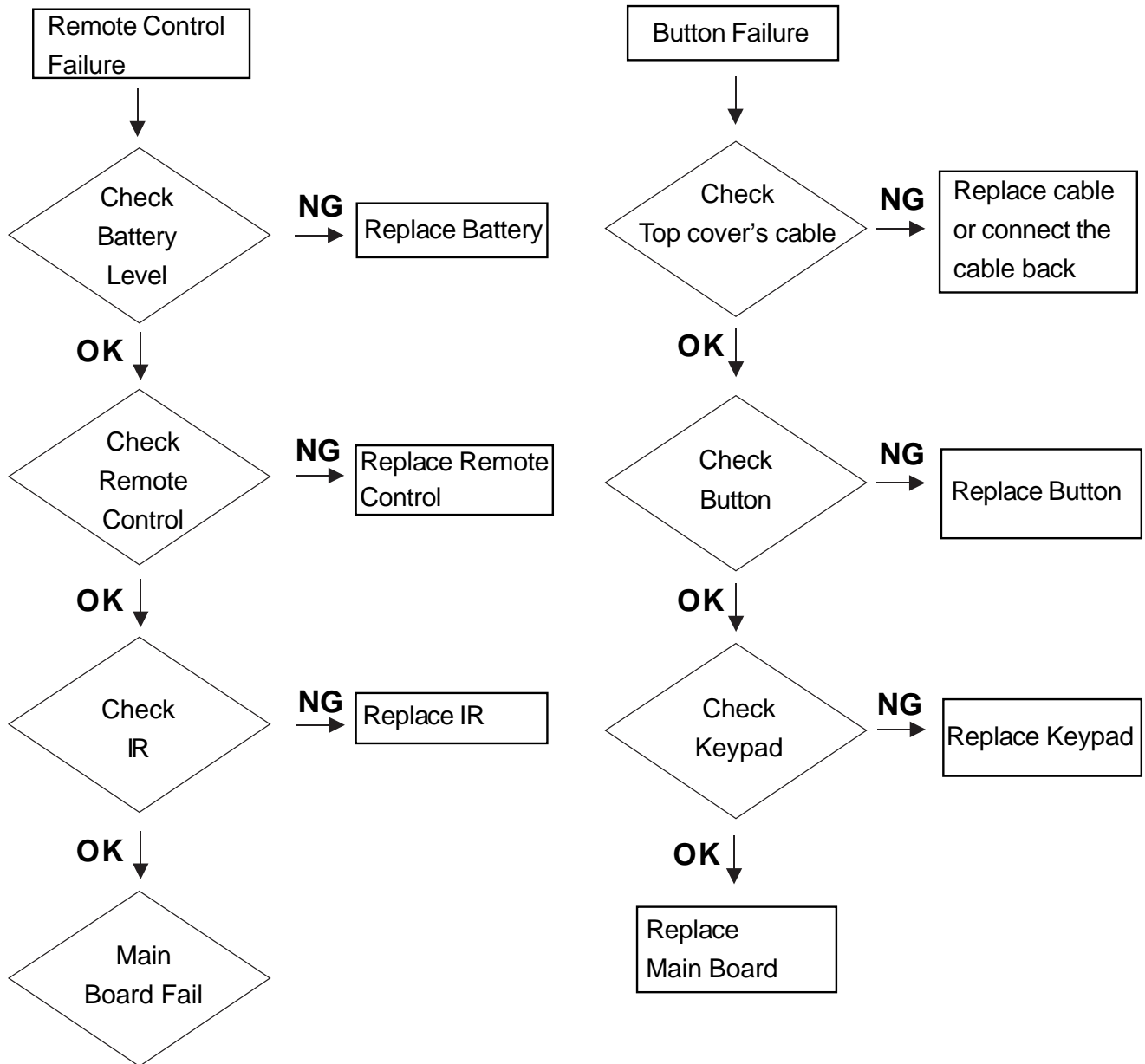
Video Signal



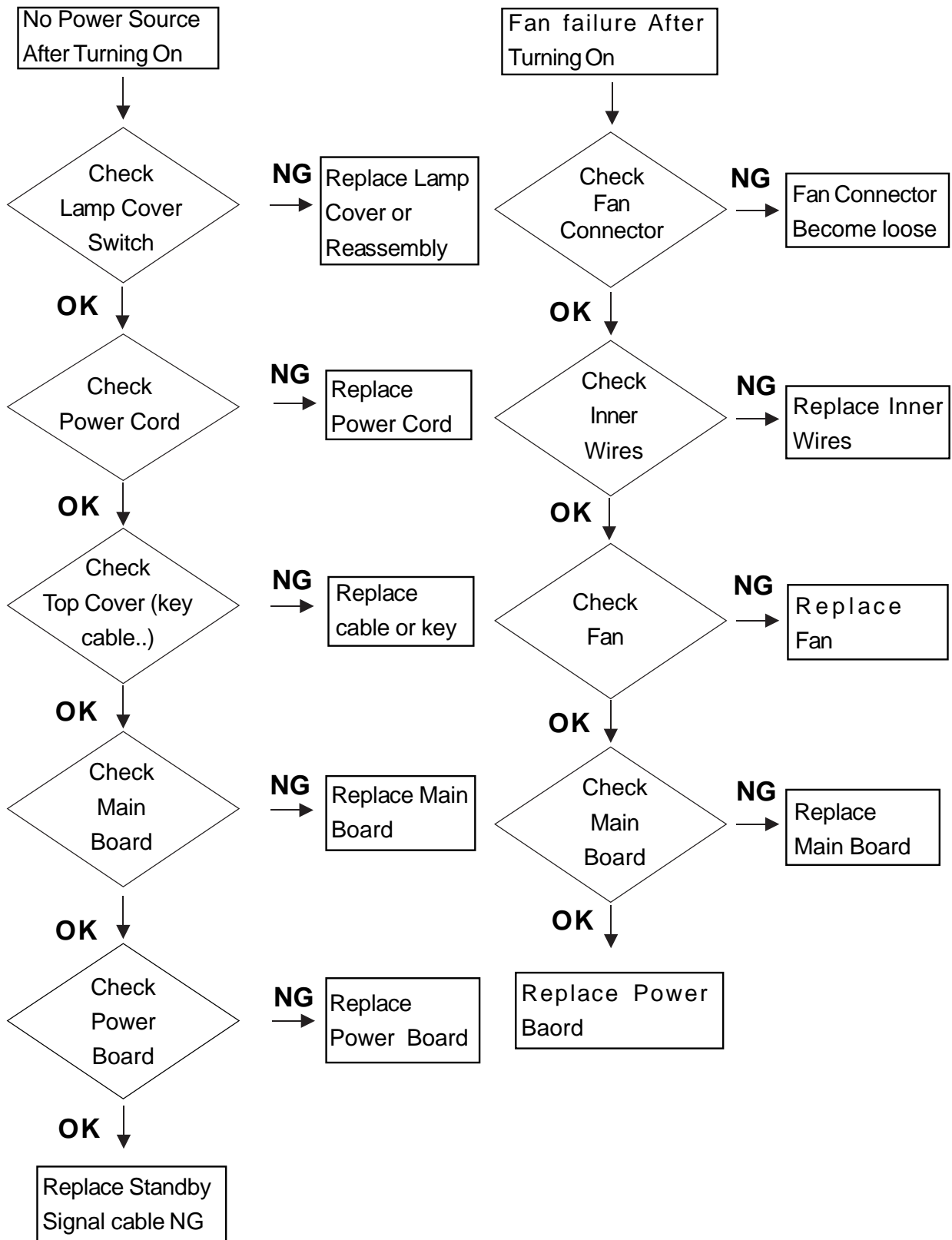




Operation Function:



Power Source:



Function Test and Alignment

Equipment Needed

Item	Description
1	PC with SVGA resolution (Color Video Signal & Pattern Generator)
2	Remote Controller
3	Test Cable
4	Power Cord
5	DVD Player

Test Condition

Item	Description
1	Circumstance Brightness : Dark room less than 60 lux
2	Inspection Distance : 1.8m
3	Screen Size : 60 inches diagonal (wide)
4	Before function test and alignment, each S600 should be run-in and warmed-up for at least 5 minutes with following conditions. 1.) In room temperature 2.) With cycled display colors (R,G,B,White) 3.) With cycled display modes 640 x 350 (H=31.5 KHz, V=70 Hz) 640 x 400 (H=31.5 KHz, V=70 Hz) 640 x 480 (H=37.5 KHz, V=75 Hz) 720 x 400 (H=31.5 KHz, V=70 Hz) 800 x 600 (H=53.7 KHz, V=85 Hz) 800 x 600 (H=37.9 KHz, V=60 Hz) 1024 x 768 (H=48.4 KHz, V=60 Hz) 1024 x 768 (H=68.7 KHz, V=85 Hz)
5	Test Display Mode and Pattern

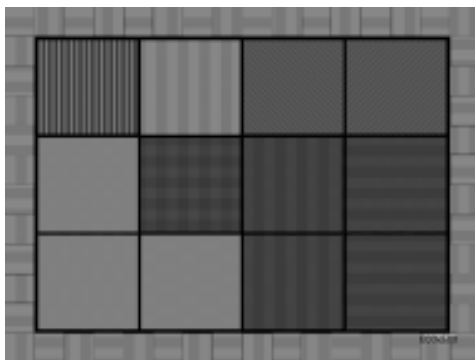
Test Display Modes and Patterns

Compatible Modes

Preset Signal	Sync	Resolution	fV(Hz)	fH(Hz)
VGA	H(+), V(-)	640 x 800	60	31.5
			72	37.7
			75	37.5
			85	43.3
SVGA	H(-), V(+)	800 x 600	56	35.1
			60	37.9
			72	48.1
			75	46.9
			85	53.7
XGA	H(-), V(-)	1024 x 768	60	48.4
			70	56.5
			75	60
			80	64
			85	68.3
SXGA	H(+), V(+)	1280 x 1024	60	64

Function Test Display Pattern

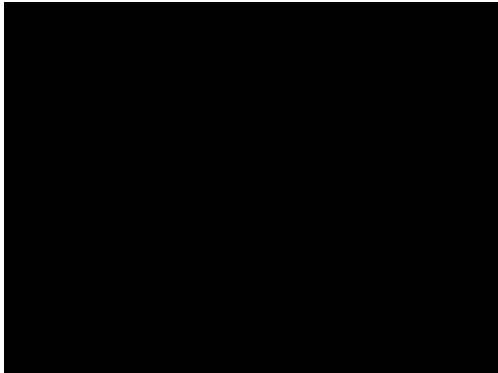
Item	Test Content	Pattern	Specification	Remark
1	Noise check up	12 squares	(1).Select the "12 squares" BMP file to check if there is any noises during the stage of turning on, and warming up the projector.	Figure 1
		12 squares	(2). The noises appear on the square should be less than three squares.	Figure 1
		800 flicker	(3).Select the " 800 flicker" BMP file. Make sure teach word on the projected image doesn't flicker.	Figure 2
2	Dust check up	Full Black	(1) Select the " Full Black" BMP file to project the image on the screen .Stand 1.8 meters from it and ensure there are no stains .	Figure 3
3	Dust check up	Full White	(1) Select the " Full White" BMP file to project the image on the screen .Stand 1.8 meters from it and ensure there are no stains .	Figure 4
4	Resolution check up	Black and White Word	(1) Select the " black and white word" BMP file. Use the projector to adjust the projected image to the maximum size and minimum size and make sure each word is distinguishable under both conditions.	Figure 5
5	RGB color check up	256RGB	(1) Select the "256RGB" BMP file to check if the color ladder of the image matches the color ladder of the file.	Figure 6
6	Dust check up	Full Gray	(1) Select the " Full Gray " BMP file to project the image on the screen .Stand 1.8 meters from it and ensure there are no stains .	Figure 7
7	Light leakage check up	Boundary Frame	(1) Click on the folder, select the " Boundary Frame " BMP file, press the AUTO button on the projector, check if the lines and colors of the projected image are clear as presented on the BMP file .	Figure 8



12 squares Pattern (Figure 1)



800 flicker Pattern (Figure 2)

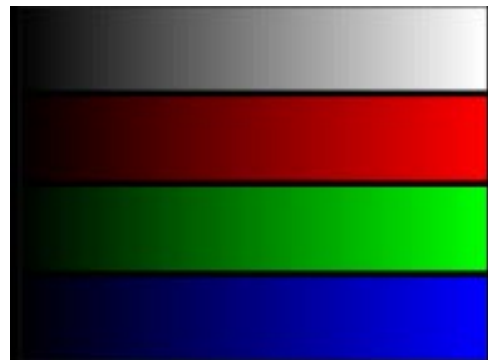


Full Black Pattern (Figure 3)

Full White Pattern (Figure 4)



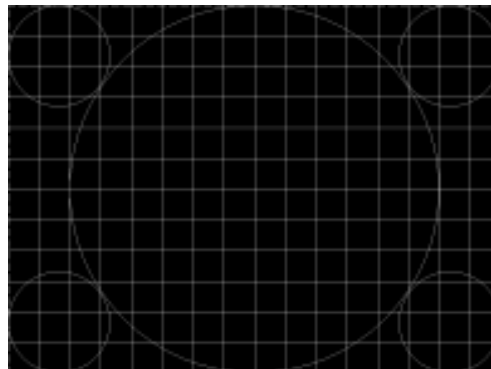
Black and White Word Pattern (Figure 5)



256RGB Pattern (Figure 6)



Gray Pattern (Figure 7)



Boundary Frame (Figure 8)

Connector Information

Introduction

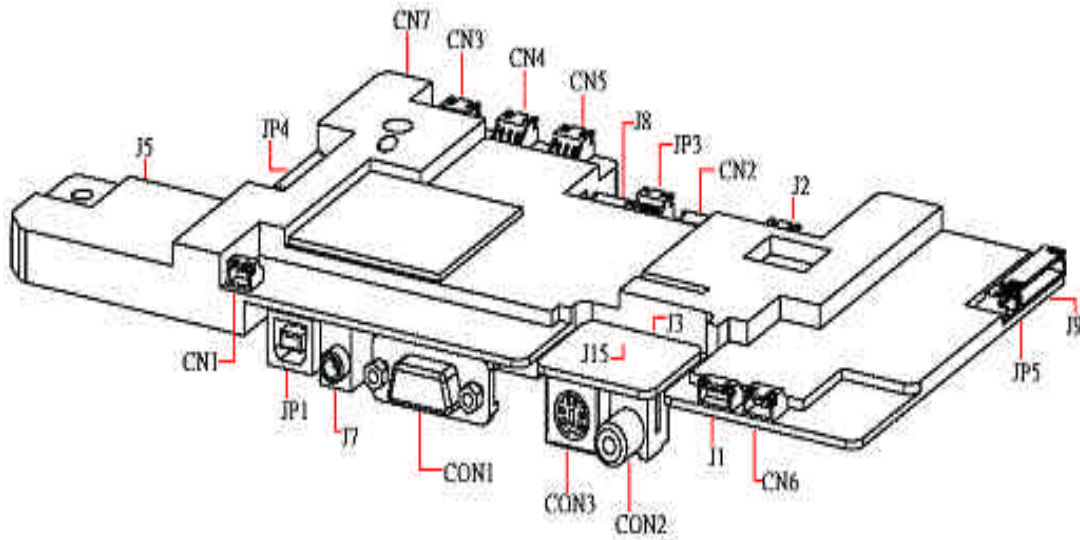
This section provides each connector location on boards, signal and function of each board. They will be useful for your detecting the defective boards.

Main Board

Summarize

Connector	Description
CN1	IR
CN2	Keypad control
CN3	Fan
CN4	Fan
CN5	Fan
CN6	Fan
CN7	IR
J1	Ballast control
J2	Thermal
J3	Vidio & S-Video in
J5	DMD connector
J7	Phone jack stereo-R
J8	Color wheel
J9	Power in
J15	Vidio & S-Video in
JP1	USB
JP3	CW index
JP4	Firmware debug
JP5	Standby run
CON1	D-SUB
CON2	Video
CON3	S-video

The Locations of Connectors



CN1 , CN7 : IR

PIN#	Description
1	IR 0
2	GND
3	+3.3 V

CN3 , CN4 , Cn5 : FAN

PIN#	Description
1	PWM
2	Control
3	GND

J1 :Ballast Control

PIN#	Description
1	12V_S1
2	FAN_FB3
3	GND_PWM3

CN2 : Keypad Control

PIN#	Description
1	GND
2	GND
3	SP_R+
4	SP_R+
5	SP_R-
6	SP_R-
7	SP_L+
8	SP_L+
9	SP_L-
10	SP_L-
11	Keypad_PWR
12	Keypad_Menu
13	Keypad_Up
14	Keypad_Down
15	Keypad_Left
16	Keypad_Right
17	GND
18	GND
19	Power_LED
20	LED_SYS2
21	LED_Lamp1
22	LED_Lamp2
23	P3P3V_STBY_PWR
24	P3P3V_STBY_PWR
25	P3P3V_STBY_PWR
26	Key_Source
27	IR 1
28	Key_Auto

J2:Thermal

PIN#	Description
1	+ 3.3 V
2	SCL
3	SDA
4	GND

J3 , J15 : Video & S-Videop IN

PIN#	Description
1	COMPVID
2	AGND
3	SVID_LUM
4	AGND
5	SVID_CHR
6	GND
7	+ 3.3 V
8	+ 3.3 V

CON2 : Video

PIN#	Description
1	CVBS
2	AGND

CON3 : S-Video

PIN#	Description
1	AGND
2	AGND
3	SVDOY
4	SVDOC

CON1 : D_SUB

PIN#	Description
1	V- Red
2	V-Green
3	V-Blue
4	NC
5	AGND
6	AGND
7	AGND
8	AGND
9	+5V
10	DSUB_Detect
11	AGND
12	VSDA
13	H-Sync
14	V-Sync
15	VSCL

J7 : Phone jack Stereo-R

PIN#	Description
1	GND
2	A INC_L
3	NC
4	A INC_R
5	NC

J8 : Color Wheel

PIN#	Description
1	CW_CTR
2	CW_Y3
3	CW_Y2
4	CW_Y1

J9 : Power Supply

PIN #	Description
1	+5V_STBY
2	GND
3	GND
4	+5V
5	+5V
6	GND
7	+13.5V
8	GND
9	+12.5V
10	GND

JP1 : USB

PIN #	Description
1	NC
2	USB DATN
3	USB DATP
4	GND
5	GND
6	GND

JP3 : CW Index

PIN #	Description
1	+3.3V
2	+3.3V
3	+3.3V
4	GND

JP3 : CW Index

PIN #	Description
1	STBY_PWR
2	GND

JP4 : FirmWare Debug

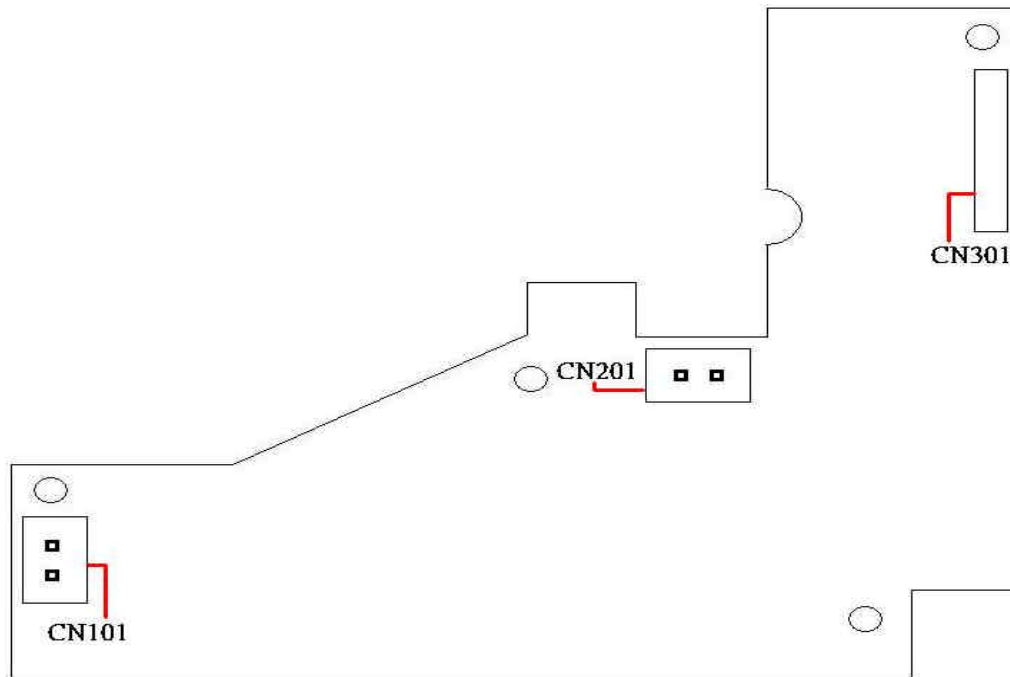
PIN #	Description
1	GND
2	GND
3	TMSI
4	TDO1_OUT
5	SYSRSTZ
6	TRSTZ
7	TDI
8	TMS2
9	TCK
10	RTCK
11	TDO2
12	ICE_RSTZ
13	TRACEPKT15
14	TRACEPKT14
15	TRACEPKT13
16	TRACEPKT12
17	TRACEPKT11
18	TRACEPKT10
19	TRACEPKT9
20	TRACEPKT8
21	TRACEPKT7
22	TRACEPKT6
23	TRACEPKT5
24	TRACEPKT4
25	TRACEPKT3
26	TRACEPKT2
27	TRACEPKT1
28	TRACEPKT0
29	TRACECLK
30	TRACESYNC
31	PIPESTAT0
32	PIPESTAT1
33	PIPESTAT2
34	+3.3V
35	+3.3V
36	+3.3V

Power Board

Summarize

Connector	Description
CN101	AC Inout
CN201	+380V Output
CN301	DC Output

The Locations of Connectors



CN101 : AC Inout

PIN#	Description
1	Line
2	NEUTRAL

CN201 : +380V Output

PIN#	Description
1	+380V
2	GND

CN301 :DC Output

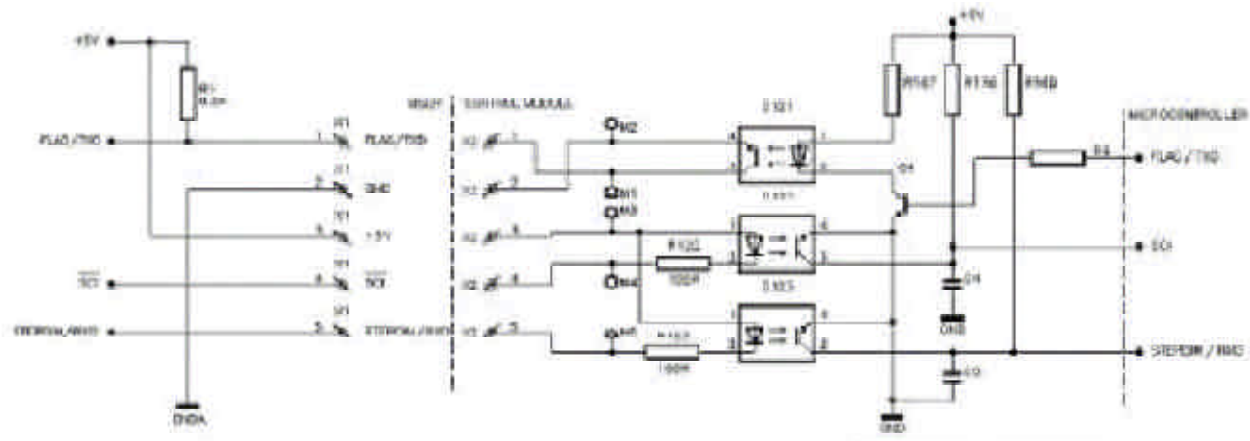
PIN#	Description
1	+5V_STBY
2	GND
3	GND
4	+5V
5	+5V
6	GND
7	+13.5V
8	GND
9	+12.5V
10	GND
11	GND
12	STBY_CTRL

Ballaster Board

Summarize

Connector	Description
X 1	Power input
X 2	SCI & Flag
X 3	Connection to lamp

The Locations of Connectors



X1 : Power input

PIN #	Description
1	DC Input voltage
3	GND

X2: SCI & Flag

PIN#	Description
1	Flag/TxD (coll.)
2	Flag/TxD (emitter)
3	Common+ (anodes)
4	SCI/Sync (cath.)
5	RxD (cath.)

X3: Connection to lamp

PIN #	Description
1	LAMP
4	LAMP

FRU (Field Replaceable Unit) List

This chapter gives you FRU (Field Replaceable Unit) listing in global configuration of PD-112. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization). Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For Acer AUTHORIZED SERVICE PROVIDERS, Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.






NOTE : To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

FRU List

No.	Photo	Part Name	P/N
1		Main Board	P6784-001
2		Ballast Board	P6784-002
3		Power Board	P6784-003
4		DMD Board	P3447-6000
5		Front IR Board	P2447-5100
6		Back IR Board	P3247-5101
7		SENSOR BRACKET	P2235-0000-00
8		Top cover	P6784-0004
9		Bottom cover	P6784-0005
10		Front cover	P6784-0006

No.	Photo	Part Name	P/N
11		Back Cover	P6784-0007
12		Front IR Cover	P2034-4560-00
13		IO SPONGE	P2038-1550-00
14		IO Plate	P2035-4510-99
15		Lamp Cover	P6344-1004
16		DMD 203pin Socket	02475-0003-10
17		Lamp Module	P6784-0008
18		Optical Engine	P6784-0009
19		DMD(0.55inch)	02093-0007-00
20		Front Fan Set	P6745-1006

No.	Photo	Part Name	P/N
21		Engine Fan	02394-0011-01
22		Ground Plate	P2035-0500-00
23		Mylar	P2038-0520-00
24		DMD Heatsink	P1635-6030-00
25		SIDE PLATE	P2035-0520-00
26		Len Cover	P2034-462A-00
27		Speaker	02413-0016-00
28		Wire 3 Pin M/B to F-IR	02595-0029-00
29		Wire FCC Cable M/B to Top Cover	02591-0014-00
30		Wire AC Inlet AC Inlet to Power	02595-0028-00

No.	Photo	Part Name	P/N
31		Wire 3 Pin M/B to B-IR	02595-0027-00
32		Wire 5 Pin M/B to Ballast	02595-0030-00
33		Wire 2 Pin Ballast to Power	02595-0019-00
34		Wire 4 Pin MB	02595-0018-00
35		Wire 12Pin -10+2 Pin M/B to Power	02595-0063-00
36			
37			
38			
39			
40			

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